

How to Use GLWMS to Score Projects

Saginaw Bay Watershed Partnership RCPP Training
August 6, 2015

Laura Young, Michigan State University
Institute of Water Research

Outline

- Walkthrough example
 - Create a GLWMS Account
 - Locate a Field of Interest
 - Complete the Pre-screening Analysis
 - Complete the Scoring Analysis
- Example with multiple practices
- Accessing Saved Projects
- Tips

STEP 1: Create a GLWMS Account

Click Login/Logout

Great Lakes Watershed Management System [login/logout](#)   



Introduction

The Great Lakes Watershed Management System (GLWMS) is an on-line tool that allows users to evaluate non-point source (NPS) pollution model estimates at watershed and field scales. The system links two water quality models, [High Impact Targeting \(HIT\)](#) from the [Institute of Water Research at Michigan State University](#), and the [Long Term Hydrologic Impact Assessment \(L-THIA\)](#) from [Purdue University's Department of Agricultural and Biological Engineering](#). HIT estimates sediment loading from agricultural lands to nearby streams; L-THIA estimates run-off volumes and pollutant loads.

The GLWMS allows users to view HIT and L-THIA estimates at watershed scales, and conduct field

Navigation

- Map Layers
- Legend
- Analysis
- About the Models
- About the Tool

Active Map Tool: Identify features on-click
Banner photograph credit: [C. S. L. / iStockphoto.com](#)
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92.20229492_40.83169031

STEP 1: Create a GLWMS Account

Select Create a New Account

Great Lakes Watershed Management System [login/logout](#)

Login [Create New Login](#) [Edit Login](#) [Delete Login](#) [Forgot Login/Password](#) [Logout](#)

Login to your account to view your saved projects.

username:

password:

Introduction

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-92.20229492, 40.83159031

STEP 1: Create a GLWMS Account

Enter Information and Submit

Great Lakes Watershed Management System [login/logout](#)

Login [Create New Login](#) [Edit Login](#) [Delete Login](#) [Forgot Login/Password](#) [Logout](#)

Fill out the form below to create a new account.

first name: *

last name: *

username: *

password: *

re-type password: *

email: *

organization:

Introduction

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-92.20229492, 40.83159031

STEP 1: Create a GLWMS Account

Change the Basemap – Aerial with Labels

Great Lakes Watershed Management System [login/logout](#)

Basemaps
 Road
 Aerial
 Aerial with labels

Introduction
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 The GLWMS allows users to view HIT and L-THIA estimates at watershed scales, and conduct field scale scenario evaluations of land cover changes or best management practices (BMPs).

Navigation
 Map Layers
 Legend
 Analysis
 About the Models
 About the Tool

Active Map Tool: Identify features on-click
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 -90.70815430, 46.40145639

STEP 2: Locate a Field of Interest

Aerial with Labels

Great Lakes Watershed Management System [login/logout](#)
 (logged in as: L.Young@MSU/WR)

Basemaps
 Road
 Aerial
 Aerial with labels

Introduction
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Navigation
 Map Layers
 Legend
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 About the Models
 About the Tool

Active Map Tool: Identify features on-click
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 -76.90832617, 38.06144630

STEP 2: Locate a Field of Interest

Zoom-in on Saginaw Bay

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)

Basemaps



Introduction

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Navigation

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- About the Tool

Active Map Tool: [Identify features on-click](#)

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-76.90932017, 38.00144030

STEP 2: Locate a Field of Interest

Saginaw Bay Watershed

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)

Basemaps



Introduction

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Navigation

- Map Layers
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Active Map Tool: [Identify features on-click](#)

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-82.41347006, 42.47711893

STEP 2: Locate a Field of Interest

Open Map Layers

Great Lakes Watershed Management System [login/logout](#)
(logged in as: LYoung@MSU@WR)

Introduction
The Great Lakes Watershed Management System (GLWMS) is an on-line tool that allows users to evaluate non-point source (NPS) pollution model estimates at watershed and field scales. The system links two water quality models, High Impact Targeting (HIT) from the Institute of Water Research at Michigan State University, and the Long Term Hydrologic Impact Assessment (L-THIA) from Purdue University's Department of Agricultural and Biological Engineering. HIT estimates sediment loading from agricultural lands to nearby streams; L-THIA estimates run-off volumes and pollutant loads.

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Navigation

- Map Layers**
- Legend
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Active Map Tool: **Identify features on-click**
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-82.41347056, 42.47771893

STEP 2: Locate a Field of Interest

Eligible RCPP Watersheds – Stay within these watersheds!

Great Lakes Watershed Management System [login/logout](#)
(logged in as: LYoung@MSU@WR)

Introduction

Navigation

Map Layers

Click on a map layer name for a description.

- Basin
- Watershed-HUC8
- Sub-watershed-HUC10
- Sub-watershed-HUC12
- sediment
- Eligible RCPP Watersheds**
- Land Cover (NLCD 2006)

Legend

Analysis

About the Models

About the Tool

Active Map Tool: **Identify features on-click**
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-82.17177734, 42.48987203

STEP 2: Locate a Field of Interest

Find Potential High-Scoring Areas Fish Habitat Layer

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)

Basemaps

Map Layers

- Basin
- Watershed-HUC8
- Sub-watershed-HUC10
- Sub-watershed-HUC12
- sediment
- erosion
- Eligible RCPP Watersheds
- Fish Habitat**
- Land Cover (NLCD 2006)

Legend

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Active Map Tool: Identify features on-click

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-81.88083965, 42.48177023

STEP 2: Locate a Field of Interest

Find Potential High-Scoring Areas Fish Habitat Layer

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)

Basemaps

Map Layers

- Basin
- Watershed-HUC8
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- sediment
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- Eligible RCPP Watersheds
- Fish Habitat**
- Land Cover (NLCD 2006)

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Active Map Tool: Identify features on-click

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-82.85334427, 43.69219962

STEP 2: Locate a Field of Interest

Find Potential High-Scoring Areas Sediment Layer

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)



Basemaps



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Click on a map layer name for a description.
 Basin
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 Sub-watershed-HUC10
 Sub-watershed-HUC12
 Sediment
 Erosion
 Eligible RCPP Watersheds
 Fish Habitat
 Land Cover (NLCD 2006)

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Analysis
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Active Map Tool: [Identify features on-click](#)
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-83.05762131, 43.78174482

STEP 2: Locate a Field of Interest

Find Potential High-Scoring Areas Sediment Layer

Great Lakes Watershed Management System [login/logout](#)
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Basemaps



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Map Layers
Click on a map layer name for a description.
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 Watershed-HUC8
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 Sub-watershed-HUC12
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 Erosion
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Active Map Tool: [Identify features on-click](#)
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-82.93213084, 43.70510679

STEP 2: Locate a Field of Interest

Search by Location – Open Navigation Tab

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)

Basemaps

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Click on a map layer name for a description.
Basin
Watershed-HUC8
Sub-watershed-HUC10
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or sediments
erosion
Eligible RCPP Watersheds
Fish Habitat
Land Cover (NLCD 2006)

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Active Map Tool: [Identify features on-click](#)
Banner photograph credit: [Coburn, Great Lakes](#)

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02.93213064, 43.70510079

STEP 2: Locate a Field of Interest

Search by Address or Coordinates

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)

Basemaps

Introduction
Navigation
Search for a location
Address
Lat./Lon.
address or intersection:
Find Location
Search results:

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Active Map Tool: [Identify features on-click](#)
Banner photograph credit: [Coburn, Great Lakes](#)

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02.96114761, 43.75249232

STEP 2: Locate a Field of Interest

Enter Address or Intersection

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)



Basemaps

Introduction

Navigation

Search for a location

Address

Lat./Lon.

address or intersection:
Bingham Township, MI

Find Location

Search results:

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Active Map Tool: [Identify features on-click](#)

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-83.03858890, 43.75584014

STEP 2: Locate a Field of Interest

Find Location Button

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSU.EDU)



Basemaps

Introduction

Navigation

Search for a location

Address

Lat./Lon.

address or intersection:
Bingham Township, MI

Find Location

Search results:

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Active Map Tool: [Identify features on-click](#)

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-83.03858890, 43.75584014

STEP 2: Locate a Field of Interest

Site Found

Great Lakes Watershed Management System [login/logout](#)
(logged in as: LYoung@SUWR)

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Search for a location
 Address
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address or intersection:
Bingham Township, MI
[Find Location](#)
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bing esri

Active Map Tool: [Identify features on-click](#)
Banner photograph credit: [Lizbeth L. Jensen, DWR](#) Institute of Water Research at Michigan State University, all rights reserved 2015 -42.86670455, 43.72296004

STEP 2: Locate a Field of Interest

Turn off Sediment Layer

Great Lakes Watershed Management System [login/logout](#)
(logged in as: LYoung@SUWR)

Basemaps

Introduction
Navigation
Map Layers
Click on a map layer name for a description.
 Basin
 Watershed-40UC8
 Sub-watershed-40UC10
 Sub-watershed-40UC12
 sediment
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 Eligible RCPP Watersheds
 Fish Habitat
 Land Cover (NLCD 2006)
Legend
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bing esri

Active Map Tool: [Identify features on-click](#)
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STEP 2: Locate a Field of Interest

Turn off Sediment Layer

Great Lakes Watershed Management System [login/logout](#)
(logged in as: LYOUNGMSUWR)

Basemaps

Introduction

Navigation

Map Layers

Click on a map layer name for a description.

- Basin
- Watershed-HUC8
- Sub-watershed-HUC10
- Sub-watershed-HUC12
- sediment
- erosion
- Eligible RCSP Watersheds
- Fish Habitat
- Land Cover (NLCD 2006)

Legend

Analysis

About the Models

About the Tool

Active Map Tool: [Identify features on-click](#)

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42.98793300, 43.72209163

STEP 2: Locate a Field of Interest

STEP 3: Complete the Pre-screening Process

Open Analysis Tab

Great Lakes Watershed Management System [login/logout](#) (logged in as: LYoung@MSUJWR)

The map interface displays a satellite view of a watershed area. The sidebar on the right contains the following menu items: Introduction, Navigation, Map Layers, Legend, Analysis (highlighted with a red box), About the Models, and About the Tool. The Map Layers section includes: Basin, Watershed-HUC3, Sub-watershed-HUC10, Sub-watershed-HUC12, sediment, erosion, Eligible RCSP Watersheds, Fish Habitat, and Land Cover (NLCD 2006).

STEP 3: Complete the Pre-screening Process

Select Field-scale Analysis

Great Lakes Watershed Management System [login/logout](#) (logged in as: LYoung@MSUJWR)

The map interface displays a satellite view of a watershed area. The sidebar on the right contains the following menu items: Introduction, Navigation, Map Layers, Legend, Analysis (highlighted with a red box), About the Models, and About the Tool. The Analysis section includes: To analyze data at the field level, or run land-cover change scenario models click on 'Field-scale Analysis'. To analyze sediment and nutrient loading at watershed scales click on 'Watershed-scale Analysis'. Below this text are three buttons: Field-scale Analysis (highlighted with a red box), Watershed-scale Analysis, My Projects, and Reports.

STEP 3: Complete the Pre-screening Process

Activate Digitizer

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS
 Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area on the map where you would like to retrieve non-point source pollution data. [Learn more.](#)

Digitizer: Activate Clear Features

Project Name: Phelps_Huron (for saving and organizing results)

Model(s) to use: HIT (for sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

Saginaw RCPP Pre-screening?

Scale: Include the upland contributing areas

(click on a column title for a description)

ID	Acres
No data available in table	

Calculate

About the Models
About the Tool

STEP 3: Complete the Pre-screening Process

Digitize Field

Great Lakes Watershed Management System login/logout (logged in as: L.Young@MSU.IWR)

Basemaps

Click to start drawing

Map Layers

Click on a map layer name for a description.

- Basin
- Watershed-HUC9
- Sub-watershed-HUC10
- Sub-watershed-HUC12
- sediment
- erosion
- Eligible RCPP Watersheds
- Fish Habitat
- Land Cover (NLCD 2006)

Legend
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About the Models
About the Tool

STEP 3: Complete the Pre-screening Process

Verify Acreage

Great Lakes Watershed Management System login/logout

Basemaps

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area on the map where you would like to retrieve non-point source pollution data. [Learn more.](#)

Digitizer: Deactivate Activate

Project Name: (for saving and organizing results)

Model(s) to use: HIT (for sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

Saginaw RCPP Pre-screening?

Scale: Include the upland contributing areas

(click on a column title for a description)	
ID	Acres
1	35

Active Map Tool: Draw BMPs or areas of land cover change

Banner photograph credit: [Luppa, J., Jones, D.](#)

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-62.97005924, 43.72210055

STEP 3: Complete the Pre-screening Process

Deactivate Digitizer

Great Lakes Watershed Management System login/logout

Basemaps

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area on the map where you would like to retrieve non-point source pollution data. [Learn more.](#)

Digitizer: Deactivate Activate

Project Name: (for saving and organizing results)

Model(s) to use: HIT (for sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

Saginaw RCPP Pre-screening?

Scale: Include the upland contributing areas

(click on a column title for a description)	
ID	Acres
1	35

Active Map Tool: Draw BMPs or areas of land cover change

Banner photograph credit: [Luppa, J., Jones, D.](#)

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-62.97005924, 43.72210055

STEP 3: Complete the Pre-screening Process

Enter a Project Name

Field-scale Analysis

Baseline NPS Baseline Change in NPS Compare 2 NPS Scenarios Historical NPS

Baseline Recharge Baseline Change in Recharge Compare 2 Recharge Scenarios Results

Click the 'Activate' button to activate the digitizer, then draw an area on the map where you would like to retrieve non-point source pollution data. [Learn more.](#)

Digitizer:

Project Name: (for saving and organizing results)

Model(s) to use: HIT (for sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

Saginaw RCPP Pre-screening?

Scale: Include the upland contributing areas

(click on a column title for a description)

ID	Acres
1	35,000

STEP 3: Complete the Pre-screening Process

Select Saginaw RCPP Pre-Screening

Field-scale Analysis

Baseline NPS Baseline Change in NPS Compare 2 NPS Scenarios Historical NPS

Baseline Recharge Baseline Change in Recharge Compare 2 Recharge Scenarios Results

Click the 'Activate' button to activate the digitizer, then draw an area on the map where you would like to retrieve non-point source pollution data. [Learn more.](#)

Digitizer:

Project Name: (for saving and organizing results)

Model(s) to use: HIT (for sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

Saginaw RCPP Pre-screening?

Scale: Include the upland contributing areas

(click on a column title for a description)

ID	Acres
1	35,000

STEP 3: Complete the Pre-screening Process

Select "Calculate"

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS
 Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area on the map where you would like to retrieve non-point source pollution data. [Learn more.](#)

Digitizer:

Project Name: (for saving and organizing results)

Model(s) to use: HIT (for sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

Saginaw RCPP Pre-screening?

Scale: Include the upland contributing areas

(click on a column title for a description)

ID	Acres
1	35

STEP 3: Complete the Pre-screening Process

Wait for Calculation to Complete

Great Lakes Watershed Management System login/logout (logged in as [user])

Basemaps

Click to start drawing

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS
 Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Results: [MTE uncertainty](#) [L-THIA uncertainty](#)

PhelpsG_Huron Mon Area 03 2015 17:43:26

Calculator type: Estimate of baseline NPS
 digitized acres: 35 (green area on map)
 total acres (including contributing area): 36.4 (blue area on map)

RCPP Pre-screening Results

Calculating HIT...
 Clearing old data
 Creating polygon from input coordinates

My Projects
 Reports

About the Models
 About the Tool

Active Map Tool: Draw BMPs or areas of land cover change

Banner photograph credit: [Luppa, L., & Jones, D. \(2014\)](#)

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42.98445919, 84.72069817

STEP 3: Complete the Pre-screening Process

Pre-Screening Results

Great Lakes Watershed Management System login/logout (logged in)

Basemaps

Field-scale Analysis

Results:

PhelpsG_Huron(Mon Aug 03 2015 17:42:26) - remove save scenario

Calculation type: Estimate of baseline NPS
 digitized acres: 35 (green area on map)
 total acres (including contributing area): 36.4 (blue area on map)

RCPP Pre-screening Results:

RCPP Priority Status: HIGH

Rationale: Majority of acres are in an eligible watershed and water quality is moderately to severely impacted.

% area at high risk for sediment loading: **92.5%**

Watershed(s): Headwaters Pinnebog River (040801030301)
 Watersheds eligible for RCPP are in **bold**: **Pinnebog River (0408010303)**
 Pigeon-Wisconsin (04080103)

Predicted Water Quality: **Severely Impacted**

Active Map Tool: Draw BMPs or areas of land cover change

Banner photograph credit: [Cortney.../www.../10000](#)

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STEP 3: Complete the Pre-screening Process

Priority Level

Medium/High Priority > Proceed

Low Priority > Find new field

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Results:

PhelpsG_Huron(Mon Aug 03 2015 17:42:26) - remove save scenario

Calculation type: Estimate of baseline NPS
 digitized acres: 35 (green area on map)
 total acres (including contributing area): 36.4 (blue area on map)

RCPP Pre-screening Results:

RCPP Priority Status: HIGH

Rationale: Majority of acres are in an eligible watershed and water quality is moderately to severely impacted.

% area at high risk for sediment loading: **92.5%**

Watershed(s): Headwaters Pinnebog River (040801030301)
 Watersheds eligible for RCPP are in **bold**: **Pinnebog River (0408010303)**
 Pigeon-Wisconsin (04080103)

Predicted Water Quality: **Severely Impacted**

STEP 3: Complete the Pre-screening Process

STEP 4: Complete the Scoring Process (Only if medium or high priority)

Select Compare 2 NPS Scenarios

The screenshot shows the 'Field-scale Analysis' window with the 'Compare 2 NPS Scenarios' tab highlighted in red. The interface includes several tabs: 'Baseline NPS', 'Baseline Change in NPS', 'Compare 2 NPS Scenarios', 'Historical NPS', 'Baseline Recharge', 'Baseline Change in Recharge', 'Compare 2 Recharge Scenarios', and 'Results'. The 'Results' section displays the following information:

Results: [MIT uncertainty](#)
[L-THIA uncertainty](#)

PhelpsC_Huron - Field 1 Prescreen (Mon Aug 03 2015 17:42:26) -

Calculation type: Estimate of baseline NPS
digitized acres: 35 (green area on map)
total acres (including contributing area): 36.4 (blue area on map)

RCPP Pre-screening Results:

RCPP Priority Status: HIGH

Rationale: Majority of acres are in an eligible watershed and water quality is moderately to severely impacted.

% area at high risk for sediment loading: 92.5%

Watershed(s): Headwaters Pinnebog River (040801030301)
Watersheds eligible for RCPP are in **bold** **Pinnebog River (0408010303)**
Pigeon-Wiscoggin (04080103)

Predicted Water Quality: Severely Impacted

STEP 4: Complete the Scoring Process

Project Name already filled-in

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer:

Project Name: PhelpsG_Huron (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)

Edit optional HIT parameters +

	Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
<input checked="" type="checkbox"/>	1-1	Click to edit	35.000	Click to edit
	1-2	Click to edit	35.000	Click to edit

STEP 4: Complete the Scoring Process

Select HIT Model

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer:

Project Name: PhelpsG_Huron (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)

Edit optional HIT parameters +

	Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
<input checked="" type="checkbox"/>	1-1	Click to edit	35.000	Click to edit
	1-2	Click to edit	35.000	Click to edit

STEP 4: Complete the Scoring Process

Scenarios 1-1 and 1-2

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer:

Project Name: (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)

Edit optional HIT:

Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
1-1	Click to edit	35.000	Click to edit
1-2	Click to edit	35.000	Click to edit

STEP 4: Complete the Scoring Process

Selecting GLWMS Land Covers and BMPs

PRACTICE CODE	EQUIP PRACTICE	ASSOCIATED PRACTICE(S) IN GLWMS
327	Conservation Cover	Grass (GRA)
329	Residue and Tillage Management, No-till	No-till (NTL)
340	Cover Crop	Choose appropriate option as the BMP: Conventional till with cover crop (CCC) No-till with cover crop (NCC) Mulch till with cover crop (MCC)
345	Residue and Tillage Management, Reduced-till	Mulch-till (MTL)
390	Riparian Herbaceous Cover	Buffer Strip (BUF) Make sure the polygon is only drawn along the riparian area.
393	Filter Strip	Buffer Strip (BUF) Make sure the polygon is only drawn along the riparian area.

Scenario 1-1 is the CURRENT land condition

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer:

Project Name: PhelpsG_Huron (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)

Edit optional HIT parameters

Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
1-1	Click to edit	35.000	Click to edit
1-2	Click to edit	35.000	Click to edit

STEP 4: Complete the Scoring Process

Select from Dropdown Menu

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer:

Project Name: PhelpsG_Huron (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)

Edit optional HIT parameters

Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
1-1	ALF (alfalfa)	35.000	Click to edit
1-2	MTL (mulch-till)	35.000	Click to edit

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STEP 4: Complete the Scoring Process

Click "OK" Button

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS
 Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer:

Project Name: PhelpsG_Huron (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)
 Edit optional HIT parameters +

Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
1-1	CTL (conventional)	35.000	Click to edit
1-2	Click to edit	35.000	Click to edit

STEP 4: Complete the Scoring Process

Scenario 1-2 is the BMP

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS
 Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer:

Project Name: PhelpsG_Huron (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)
 Edit optional HIT parameters +

Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
1-1	CTL	35.000	Click to edit
1-2	Click to edit	35.000	Click to edit

STEP 4: Complete the Scoring Process

Select BMP and "OK" Button

Field-scale Analysis

Baseline NPS Baseline Change in NPS Compare 2 NPS Scenarios Historical NPS

Baseline Recharge Baseline Change in Recharge Compare 2 Recharge Scenarios Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer: Activate

Project Name: (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)

Edit optional HIT parameters +

Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
<input type="checkbox"/> 1	CTL	35.000	Click to edit
<input checked="" type="checkbox"/> 1	NTL (no-till)	35.000	Click to edit

STEP 4: Complete the Scoring Process

Select Calculate

Field-scale Analysis

Baseline NPS Baseline Change in NPS Compare 2 NPS Scenarios Historical NPS

Baseline Recharge Baseline Change in Recharge Compare 2 Recharge Scenarios Results

Click the 'Activate' button to activate the digitizer, then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer: Activate

Project Name: (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)

Edit optional HIT parameters +

Feature ID - Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
<input type="checkbox"/> 1	CTL	35.000	Click to edit
<input checked="" type="checkbox"/> 1	NTL	35.000	Click to edit

STEP 4: Complete the Scoring Process

Scoring Results

Save scenario first

Great Lakes Watershed Management System

Field-scale Analysis

Results

PhelpsG_Huron - Field 1 No Till 2 (Wed Aug 05 2015 09:22:52) - remove **save scenario**

NIT uncertainty
NFA uncertainty

Calculation type: Change in NPS between two scenarios
Digitized acres: 35 (green area on map)
Total acres (including contributing area): 36.4 (blue area on map)
NIT land cover change / BMP: CTL to NTL

NIT Results:

Erosion, Scenario 1 (tons/yr):	118.35
Erosion, Scenario 2 (tons/yr):	40.2
Erosion DECREASE (tons/yr):	78.15
Sed. load, Scenario 1 (tons/yr):	28.12
Sed. load, Scenario 2 (tons/yr):	8.34
Sediment loading DECREASE (tons/yr):	19.78

as chart
detailed report

My Projects
Reports

About the Models
About the Tool

Active Map Tool: Identify features on-click
Banner photograph credit: [Lizbeth L. Janda, MSU](#)
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-42.97702410, 43.72288765

STEP 4: Complete the Scoring Process

Save Scenario

Use same field descriptor
Include BMP(s) in the save name

Save Scenario

Provide a name to save the following scenario:

PhelpsG_Huron

Field 1 No Till

save scenario

STEP 4: Complete the Scoring Process

Generate a Detailed Report

The screenshot shows the 'Great Lakes Watershed Management System' interface. A map displays a green polygon representing a field. A 'Field-scale Analysis' window is open, showing results for 'PhelpsG, Huron - Field 1 No.188.2'. The results include erosion and sediment loading data for two scenarios. A 'detailed report' button is highlighted in a red box. The interface also includes a 'Basemaps' dropdown, a 'login' button, and a 'My Projects' section.

Scenario	Erosion (tons/yr)	Sed. load (tons/yr)
Erosion, Scenario 1	118.35	28.12
Erosion, Scenario 2	40.2	8.34
Erosion DECREASE	78.15	
Sediment loading DECREASE		19.78

STEP 4: Complete the Scoring Process

Fill Out Report Information and Build Report

Detailed Report

Provide some optional information to tailor the report.
 Note: none of these items are required to generate a report.

Report Name:

Author:

Report Date:

Location Description:

Acres:

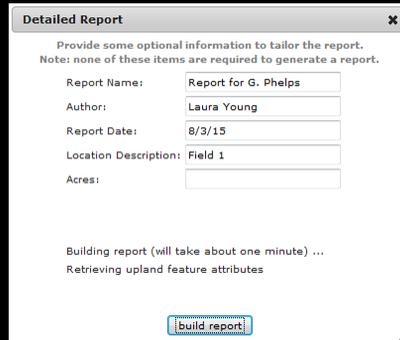
Report Name: Include Producer name/code

Location: Optional. Your preference.

Acres: If digitized acres (green polygon) differs from actual acres, enter in true acreage here

STEP 4: Complete the Scoring Process

Wait for Report to Complete! – May take over a minute



Detailed Report [X]

Provide some optional information to tailor the report.
Note: none of these items are required to generate a report.

Report Name:

Author:

Report Date:

Location Description:

Acres:

Building report (will take about one minute) ...
Retrieving upland feature attributes

STEP 4: Complete the Scoring Process

Download the Report



Detailed Report [X]

Provide some optional information to tailor the report.
Note: none of these items are required to generate a report.

Report Name:

Author:

Report Date:

Location Description:

Acres:

The report is done.
[Click here to download it.](#)

STEP 4: Complete the Scoring Process

Cover Sheet with Final Scoring

8/3/15
Laura Young

Report 1 for G. Phelps

Location
 Description: Field 1 No Till
 County: Huron
 Township/Range: T15N R13E
 Watershed (HUC8): Pigeon-Wisconsin (04080103)

Acres
 Total Field Acres: 35.0
 Total Contributing Acres: 36.4
 Acres by HIT BMP:
 - no-till: 35.0

Non-point Source Pollution
 Sediment Loading Score by BMP (Stormwater): 40.7%

Saginaw Bay Watershed RCPP Scoring

Final Score: 400 (out of 400)
 - *Water Quality Score: 140 (out of 140)*
 - *Sediment Savings Score: 260 (out of 260)*

STEP 4: Complete the Scoring Process

Report Maps

8/3/15
Laura Young

Report 1 for G. Phelps

Location
 Description: Field 1 No Till
 County: Huron
 Township/Range: T15N R13E
 Watershed (HUC8): Pigeon-Wisconsin (04080103)

Acres
 Total Field Acres: 35.0
 Total Contributing Acres: 36.4
 Acres by HIT BMP:
 - no-till: 35.0

Non-point Source Pollution
 Sediment Loading Score by BMP (Stormwater): 40.7%
 Sediment Loading (as scored by BMP Stormwater): (including contributing acres): 0.5%

Fish Habitat
 Predicted Water Quality: Severely Impaired

Saginaw Bay Watershed RCPP Scoring
 Final Score: 400 (out of 400)
 - *Water Quality Score: 140 (out of 140)*
 - *Sediment Savings Score: 260 (out of 260)*

Report 1 for G. Phelps

Map Legend: Field, Contributing Area, 0.5% Sediment. Inset Map Legend: Watershed (HUC8), 0, 10, 20 Miles. Map obtained by the State's Great Lakes Watershed Management System: www.mnswd.gov

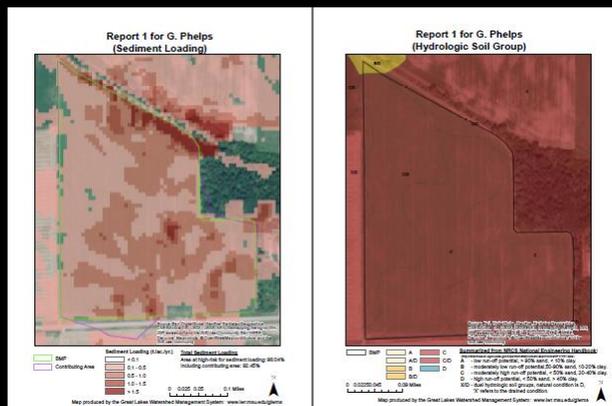
STEP 4: Complete the Scoring Process

Report Maps



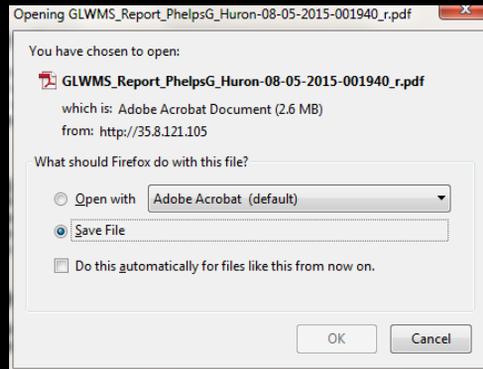
STEP 4: Complete the Scoring Process

Report Maps



STEP 4: Complete the Scoring Process

Save the Report as PDF



New Example:

When evaluating one field, with multiple practices that do not occur on the same number and footprint of acres

Digitize First Practice and Setup "Compare 2 NPS Scenarios"

Great Lakes Watershed Management System

Feature ID	Scenario	Hit: LC Change/BMP	Acres	Cost/acre (\$)
1	CTL		1.200	Click to edit
1	BUF		1.200	Click to edit

Active Map Tool: Identify features on-click

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-42.97942736, 43.72361067

STEP 4: Complete the Scoring Process

Calculate Results and Generate Detailed Report

Great Lakes Watershed Management System

Results: [Hit uncertainty](#) [L-THIA uncertainty](#)

PhelpsCo. Huron - Field 1 Buffer (Wed Aug 05 2015 00:11:47) - remove

Calculation type: Change in NPS between two scenarios
 Digitized acres: 1.2 (green area on map)
 Total acres (including contributing area): 11.0 (blue area on map)
 HIT land cover change / BMP: CTL to BUF

HIT Results:	
Erosion, Scenario 1 (tons/yr):	36.83
Erosion, Scenario 2 (tons/yr):	28.26
Erosion DECREASE (tons/yr):	8.59
Sed. load, Scenario 1 (tons/yr):	11.17
Sed. load, Scenario 2 (tons/yr):	7.68
Sediment loading DECREASE (tons/yr):	3.49

as chart

[detailed report](#)

My Projects

Reports

Active Map Tool: Identify features on-click

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-42.98273184, 43.72753373

STEP 4: Complete the Scoring Process

Note Final Score

8/3/15
Laura Young

Report 3 for G. Phelps

Location
 Description: Field 1 Buffer
 County: Huron
 Township/Range: T15N R13E
 Watershed (HUC8): Pigeon-Wiscoggin (04080103)

Acres
 Total Field Acres: 1.2
 Total Contributing Acres: 11.0
 Acres by HIT BMP:
 - buffer strip: 1.2

Non-point Source Pollution
 Sediment Loading saved by BMP (tons/year): 3.49
 Sediment Loading rate saved by BMP (tons/acre/year) (including contributing areas): 0.32

Fish Habitat
 Predicted Water Quality: Severely Impacted

Saginaw Bay Watershed RCPP Scoring
 Final Score: 290 (out of 400)
 - Water Quality Score: 140 (out of 140)
 - Sediment Savings Score: 150 (out of 260)

STEP 4: Complete the Scoring Process

Record for averaging

APPLICATION NUMBER:		(for NRCS use only)	NRCS Evaluator:
Form NO.	Score (out of 400)		
1	290		
2		Subtotal/Total Available: 100%	73%
3			
4		% (from above) multiplied by 400=	290 NO. Application Points Attained
5			
6			
7			
8			
9			
10			
SUBTOTAL ¹ :		290	

Final Score: 290 (out of 400)
 - Water Quality Score: 140 (out of 140)
 - Sediment Savings Score: 150 (out of 260)

STEP 4: Complete the Scoring Process

Digitize Second Practice and Setup "Compare 2 NPS Scenarios"

Great Lakes Watershed Management System

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | **Compare 2 NPS Scenarios** | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | Results

Click the 'Activate' button to activate the digitizer; then draw an area to see how erosion, sediment loading, runoff, or pollutant loading may change between two different land cover scenarios. [Learn more.](#)

Digitizer: Activate

Project Name: PhelpsG_Huron (for saving and organizing results)

Model(s) to use: HIT (for soil erosion and sediment loading from ag lands) L-THIA (for surface run-off volumes and pollutant loading)

(click on a column title for a description)

Edit optional HIT parameters

Feature ID	Scenario	HIT: LC Change/BMP	Acres	Cost/acre (\$)
1		CTL	34,300	Click to edit
1		NTL	34,300	Click to edit

Calculate

About the Models
About the Tool

Active Map Tool: Identify features on-click
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42.99207190, 43.72149487

STEP 4: Complete the Scoring Process

Calculate Results and Generate Detailed Report

Great Lakes Watershed Management System

Field-scale Analysis

Baseline NPS | Baseline Change in NPS | Compare 2 NPS Scenarios | Historical NPS

Baseline Recharge | Baseline Change in Recharge | Compare 2 Recharge Scenarios | **Results**

Results: [HIT uncertainty](#) [L-THIA uncertainty](#)

PhelpsG_Huron - Field 1 Buffer (Wed Aug 05 2015 00:11:47)

PhelpsG_Huron - Field 1 No Till 2 (Wed Aug 05 2015 00:22:52)

PhelpsG_Huron - Field 1 No Till Buffer space (Wed Aug 05 2015 00:19:34)

Calculation type: Change in NPS between two scenarios
digitized acres: 34.3 (green area on map)
total acres (including contributing area): 33.6 (blue area on map)
HIT land cover change / BMP: CTL to NTL

HIT Results:

Erosion, Scenario 1 (tons/yr):	110.62
Erosion, Scenario 2 (tons/yr):	37.49
Erosion DECREASE (tons/yr):	73.13
Sed. load, Scenario 1 (tons/yr):	25.02
Sed. load, Scenario 2 (tons/yr):	7.51
Sediment loading DECREASE (tons/yr):	17.52

About the Models
About the Tool

Active Map Tool: Identify features on-click
Banner photograph credit: [http://www.earthstar.com](#)
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42.99729088, 43.721936923

STEP 4: Complete the Scoring Process

Note Final Score

8/3/15
Laura Young

Report 5 for G. Phelps

Location
 Description: Field 1 No Till w space for buffer
 County: Huron
 Township/Range: T15N R13E
 Watershed (HUC8): Pigeon-Wiscoggin (04080103)

Acres
 Total Field Acres: 34.3
 Total Contributing Acres: 35.6
 Acres by HIT BMP:
 - no-till: 34.3

Non-point Source Pollution
 Sediment Loading saved by BMP (tons/year): 17.52
 Sediment Loading rate saved by BMP (tons/acre/year) (including contributing areas): 0.49

Fish Habitat
 Predicted Water Quality: Severely Impacted

Saginaw Bay Watershed RCPP Scoring
 Final Score: 340 (out of 400)
 - Water Quality Score: 140 (out of 140)
 - Sediment Savings Score: 200 (out of 260)

STEP 4: Complete the Scoring Process

Record for Averaging

APPLICATION NUMBER:		(for NRCS use only)	NRCS Evaluator:
Form NO.	Score (out of 400)		
1	290		
2	340	(Subtotal/Total Available) * 100=	75%
3			
4		% (from above) multiplied by 400=	315
5			NO. Application Points Attained
6			
7			
8			
9			
10			
SUBTOTAL ¹ :		630	

Final Score: 340 (out of 400)
 - Water Quality Score: 140 (out of 140)
 - Sediment Savings Score: 200 (out of 260)

STEP 4: Complete the Scoring Process

Review Final, Averaged Score

APPLICATION NUMBER:		(for NRCS use only)	NRCS Evaluator:
Form NO.	Score (out of 400)		
1	290		
2	340	(Subtotal/Total Available) * 100 =	79%
3			
4		% (from above) multiplied by 400 =	315
5			NRCS Application Points Attained
6			
7			
8			
9			
10			
SUBTOTAL ¹ :		630	

STEP 4: Complete the Scoring Process

STEP 5: Access Saved Scenarios Specifying contract dates and programs

Select Project

My Projects

Select the projects and associated scenarios to load map features and scenario results

Projects (click to select)

- Doe_Isabella
- PhelpsG_Huron

Scenarios (click to select)

- Field 1 No Till
- Field 1 Prescreen

Project Details:

Name: PhelpsG_Huron

[edit project](#) [delete project](#)

Scenario Details:

Name:

Field: [View/edit in Field-scale Analysis window.](#)

Parameters:

Installed?: yes no (hypothetical) Installation Program:

Install date: Contract end date:

Contract Time Left:

Capturing Ground Water Recharge: yes no Ground Water Recharge Offsets Credited To:

Notes:

[edit scenario](#) [delete scenario](#)

STEP 5: Access Saved Scenarios

Select Scenario

My Projects

Select the projects and associated scenarios to load map features and scenario results

Projects (click to select)

- Doe_Isabella
- PhelpsG_Huron

Scenarios (click to select)

- Field 1 No Till
- Field 1 Prescreen

Project Details:

Name: PhelpsG_Huron

[edit project](#) [delete project](#)

Scenario Details:

Name: Field 1 No Till

Field: [View/edit in Field-scale Analysis window.](#)

Parameters:

Installed?: yes no (hypothetical) Installation Program:

Install date: Contract end date:

Contract Time Left:

Capturing Ground Water Recharge: yes no Ground Water Recharge Offsets Credited To:

Notes:

[edit scenario](#) [delete scenario](#)

STEP 5: Access Saved Scenarios

Select "Edit Scenario"

The screenshot shows the 'My Projects' application window. On the left, there are two lists: 'Projects' and 'Scenarios'. The 'Scenarios' list includes 'Field 1 No Till' and 'Field 1 Prescreen'. The 'Field 1 No Till' scenario is selected. The main area displays the 'Scenario Details' for this scenario. The 'Name' is 'Field 1 No Till'. The 'Field' is 'Field 1 No Till'. The 'Installed?' section has two radio buttons: 'yes' (selected) and 'no (hypothetical)'. The 'Installation Program' is set to 'Saginaw RCPP'. The 'Contract end date' is empty. The 'Capturing Ground Water Recharge?' section has two radio buttons: 'yes' (selected) and 'no'. The 'Ground Water Recharge Offsets Credited To?' is empty. The 'Notes' section is empty. At the bottom, there are three buttons: 'edit scenario' (circled in red), 'save changes', and 'delete scenario'.

STEP 5: Access Saved Scenarios

Indicate BMP Installed through Saginaw RCPP

The screenshot shows the 'My Projects' application window. The 'Scenario Details' for the 'Field 1 No Till' scenario are displayed. The 'Installed?' section has two radio buttons: 'yes' (selected) and 'no (hypothetical)'. The 'Installation Program' dropdown menu is set to 'Saginaw RCPP'. The 'Contract end date' is empty. The 'Capturing Ground Water Recharge?' section has two radio buttons: 'yes' (selected) and 'no'. The 'Ground Water Recharge Offsets Credited To?' is empty. The 'Notes' section is empty. At the bottom, there are three buttons: 'edit scenario', 'save changes', and 'delete scenario'.

STEP 5: Access Saved Scenarios

Include Contract Time

My Projects

Select the projects and associated scenarios to load map features and scenario results

Projects (click to select)

- Doe_Isabella
- PhelpsG_Huron

Scenarios (click to select)

- Field 1 No Till
- Field 1 Prescreen

Project Details:

Name: PhelpsG_Huron

[edit project](#) [delete project](#)

Scenario Details:

Name: Field 1 No Till

Field: [View/edit in Field-scale Analysis window.](#)

Parameters:

Installed?: yes no (hypothetical)

Installation Program: Saginaw RCPP

Install date: 8/1/15

Contract end date:

Contract Time Left:

August 2015

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Capturing Ground Water Recharge: yes no

Ground Water Recharge Offsets Credited To:

Notes:

[edit scenario](#) [delete scenario](#)

STEP 5: Access Saved Scenarios

Include Contract Time

My Projects

Select the projects and associated scenarios to load map features and scenario results

Projects (click to select)

- Doe_Isabella
- PhelpsG_Huron

Scenarios (click to select)

- Field 1 No Till
- Field 1 Prescreen

Project Details:

Name: PhelpsG_Huron

[edit project](#) [delete project](#)

Scenario Details:

Name: Field 1 No Till

Field: [View/edit in Field-scale Analysis window.](#)

Parameters:

Installed?: yes no (hypothetical)

Installation Program: Saginaw RCPP

Install date: 8/1/15

Contract end date: 8/1/17

Contract Time Left:

Capturing Ground Water Recharge: yes no

Ground Water Recharge Offsets Credited To:

Notes:

[edit scenario](#) [save changes](#) [delete scenario](#)

STEP 5: Access Saved Scenarios

Save Changes

The screenshot shows a web application window titled "My Projects" with the subtitle "Select the projects and associated scenarios to load map features and scenario results". On the left, there are two lists: "Projects" (with "Doe_Isabella" and "PhelpsG_Huron") and "Scenarios" (with "Field 1 No Till" and "Field 1 Prescreen"). The main area displays the "Scenario Details" for the selected project. The form includes fields for Name, Field Parameters, Installation status (radio buttons for "yes" and "no (hypothetical)"), Installation Program (a dropdown menu set to "Saginaw RCDD"), Install date, Contract end date, Contract Time Left, Capturing Ground Water Recharge (radio buttons for "yes" and "no"), and Ground Water Recharge Offsets Credited To (a dropdown menu). A "Notes" text area is at the bottom. At the bottom of the form, there are three buttons: "edit scenario", "save changes" (highlighted with a red box), and "delete scenario".

STEP 5: Access Saved Scenarios

- Also Include Voluntary Practices
1. Digitize practice
 2. Run Compare 2 NPS Scenario
 3. Save Scenario
 4. Specify as Voluntary and Time

STEP 5: Access Saved Scenarios

GLWMS Tips

Don't hit the Back Button



You already have an active session open on the Great Lakes Watershed Management System.

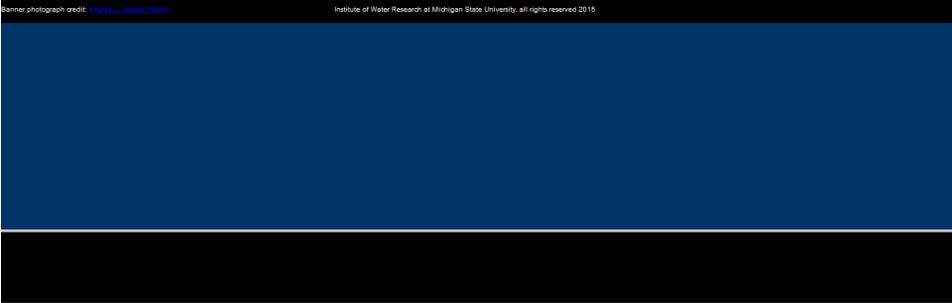
You can only have one session open at a time.

Please close this window and return to window that corresponds to that open session.

Or close your browser window, re-open it, and navigate to the www.iwr.msu.edu/glwms.

Or click the button below to start a new session

[Start New Session](#)



Get coordinates

Great Lakes Watershed Management System [login/logout](#)
(logged in as: L.Young@MSUWR)

Basemaps



Introduction
Navigation
Map Layers
Legend
Analysis
To analyze data at the field level, or run land-cover change scenario models click on 'Field-scale Analysis'.
To analyze sediment and nutrient loading at watershed scales click on 'Watershed-scale Analysis'.

[Field-scale Analysis](#)
[Watershed-scale Analysis](#)
[My Projects](#)
[Reports](#)

About the Models
About the Tool

Active Map Tool: [Identify features on-click](#)
Banner photograph credit: [Lizette L. Jones, MSUWR](#)
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-42.99052088, 43.72940024

Digitizing

- You can close out of the Field-scale Analysis window to see more of the map
- Hit "Escape" button to restart
- You can zoom in and pan the map while digitizing (for more accurate digitizing)
- Remember to deactivate the digitizer

Questions?