

# CREP Prioritization: Mapping Sediment Loading Risk in the Western Lake Erie Basin

## Background

Michigan State University Extension (MSUE) is collaborating with the State of Michigan and local stakeholders to re-establish the Conservation Reserve Enhancement Program (CREP) in Michigan. To aid in prioritizing lands eligible for CREP enrollment, the Institute of Water Research (IWR) at MSU developed township-scale maps of sediment loading risk for the Michigan portion of the western Lake Erie basin. This book organizes those maps at the township scale.

## Data

The maps are based upon data from the United States Geological Survey's (USGS) SPATIally Referenced Regression On Watershed attributes (SPARROW) model\*. The model uses observations, land use characteristics, and statistical relationships, among other variables, to estimate pollutant loads to streams and rivers. The data in this map book represents incremental sediment load contribution for each small catchment in the basin (see image at right), i.e. the amount of sediment load that originated in a particular area (not the total, accumulated amount moving through the stream in that area).

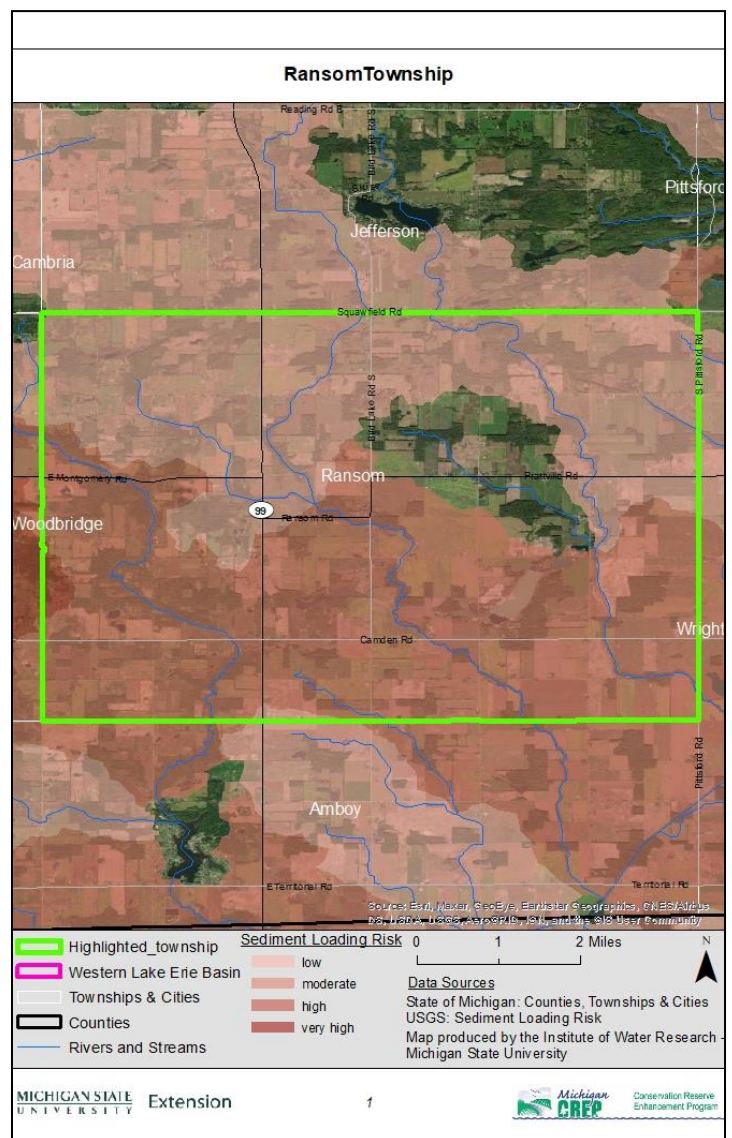
## Contacts

Please direct questions about MSUE's project to:

**Sarah Fronczak**  
Environmental Management Educator  
Michigan State University Extension  
[froncz3@msu.edu](mailto:froncz3@msu.edu)

Please use the URL below to learn more about the SPARROW model, and direct questions about the maps to:

**Glenn O'Neil**  
Environmental Scientist  
Institute of Water Research - Michigan State University  
[oneilg@msu.edu](mailto:oneilg@msu.edu)



\* <https://www.sciencebase.gov/catalog/item/5cbf5150e4b09b8c0b700df3>

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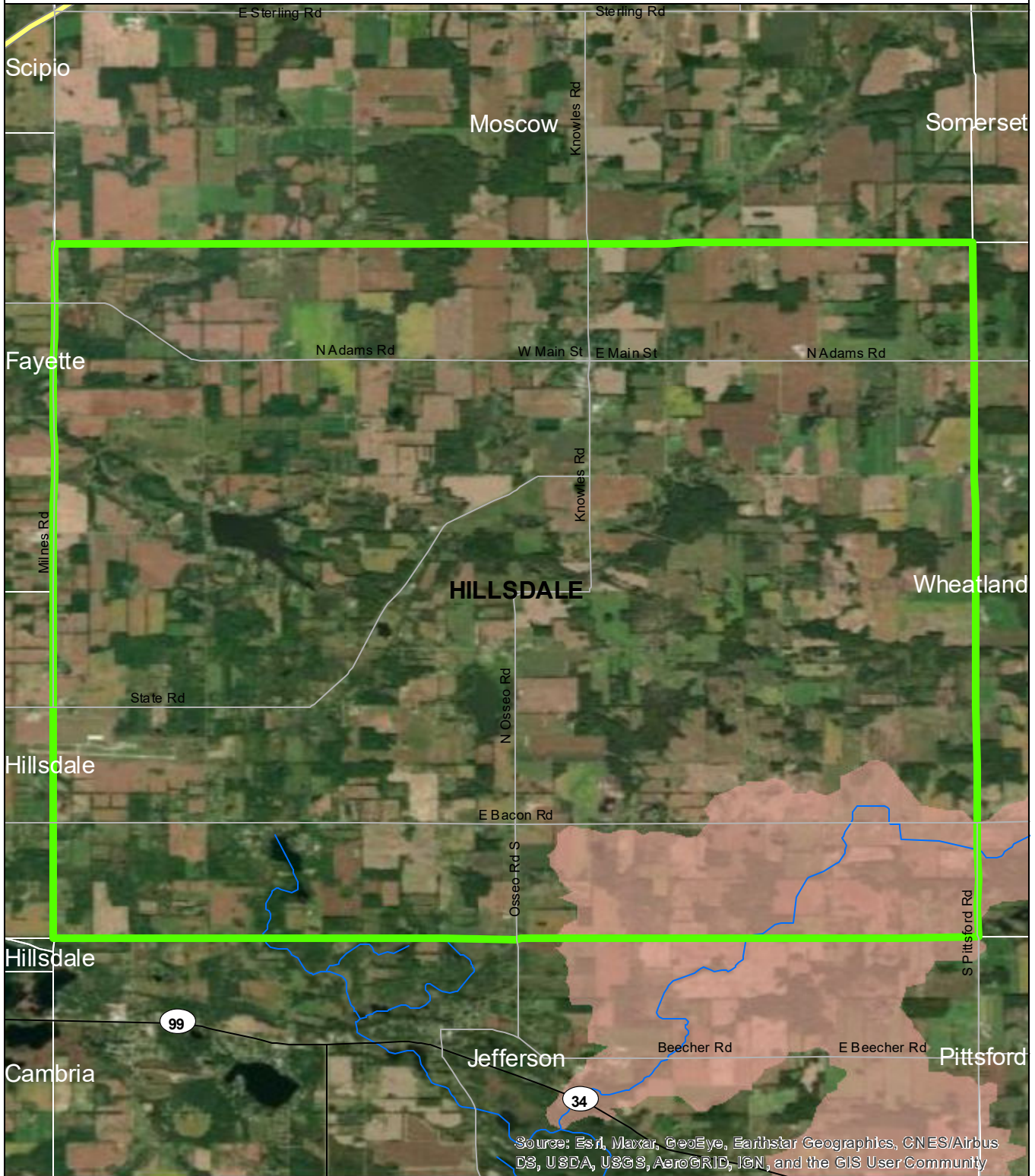
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

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# Adams Township

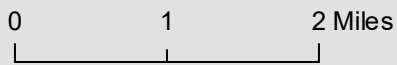


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Adams Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

## Sediment Loading Risk

-  low
-  moderate
-  high
-  very high



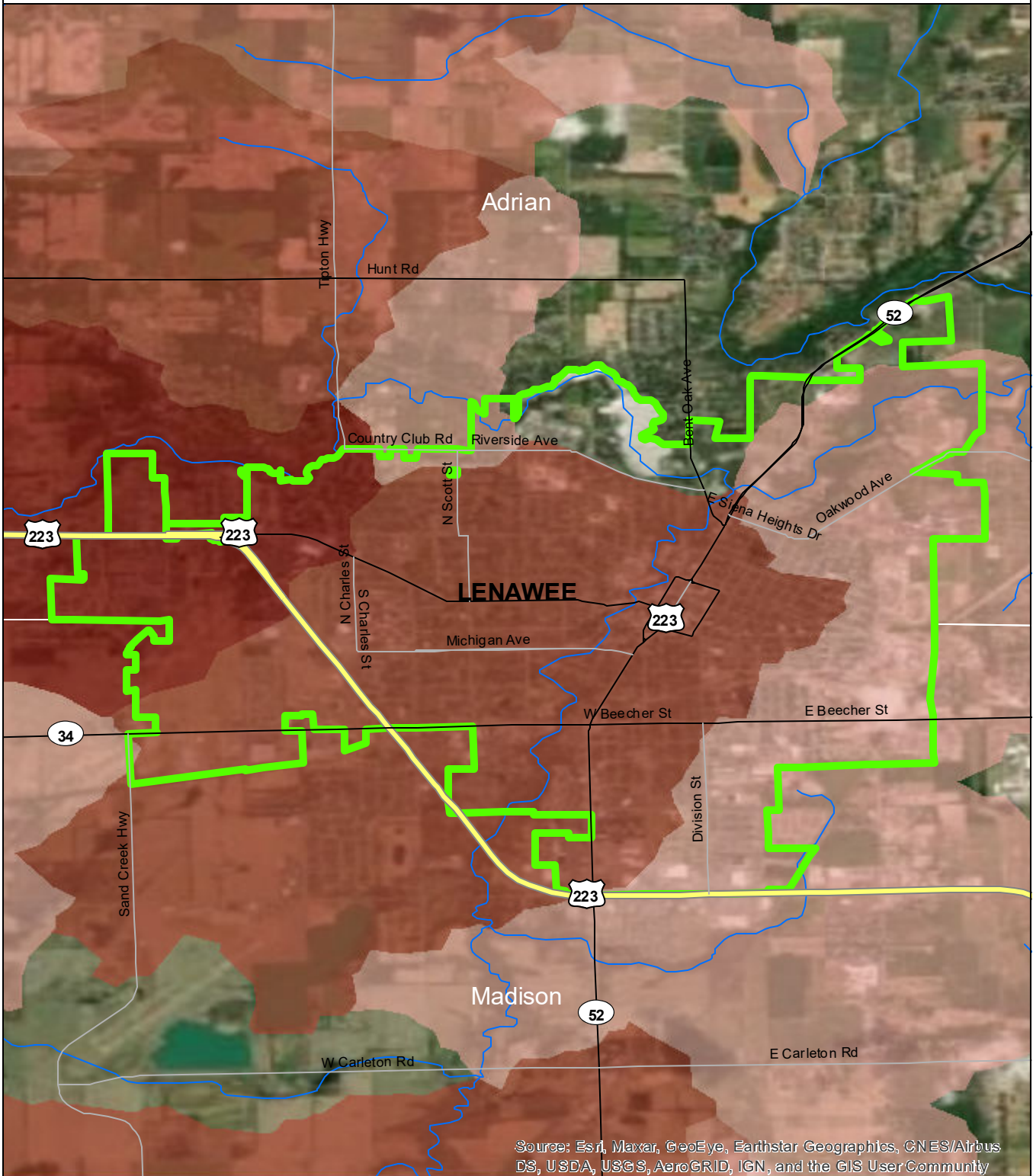
## Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk



Map produced by the Institute of Water Research - Michigan State University







# City of Adrian



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  City of Adrian
-  Counties
-  Rivers and Streams
-  Townships & Cities

### Sediment Loading Risk

-  low
-  moderate
-  high
-  very high

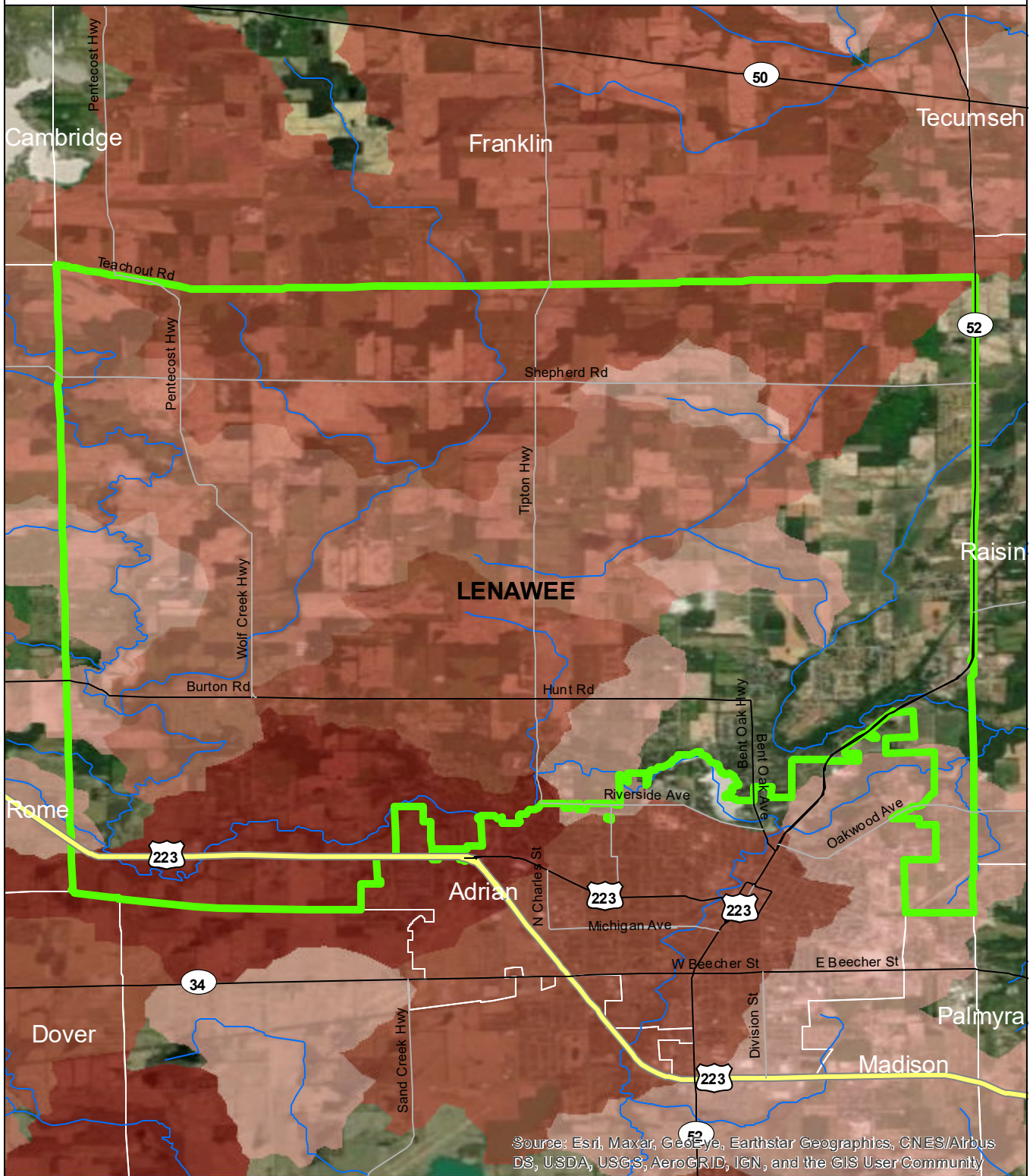


### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Adrian Township

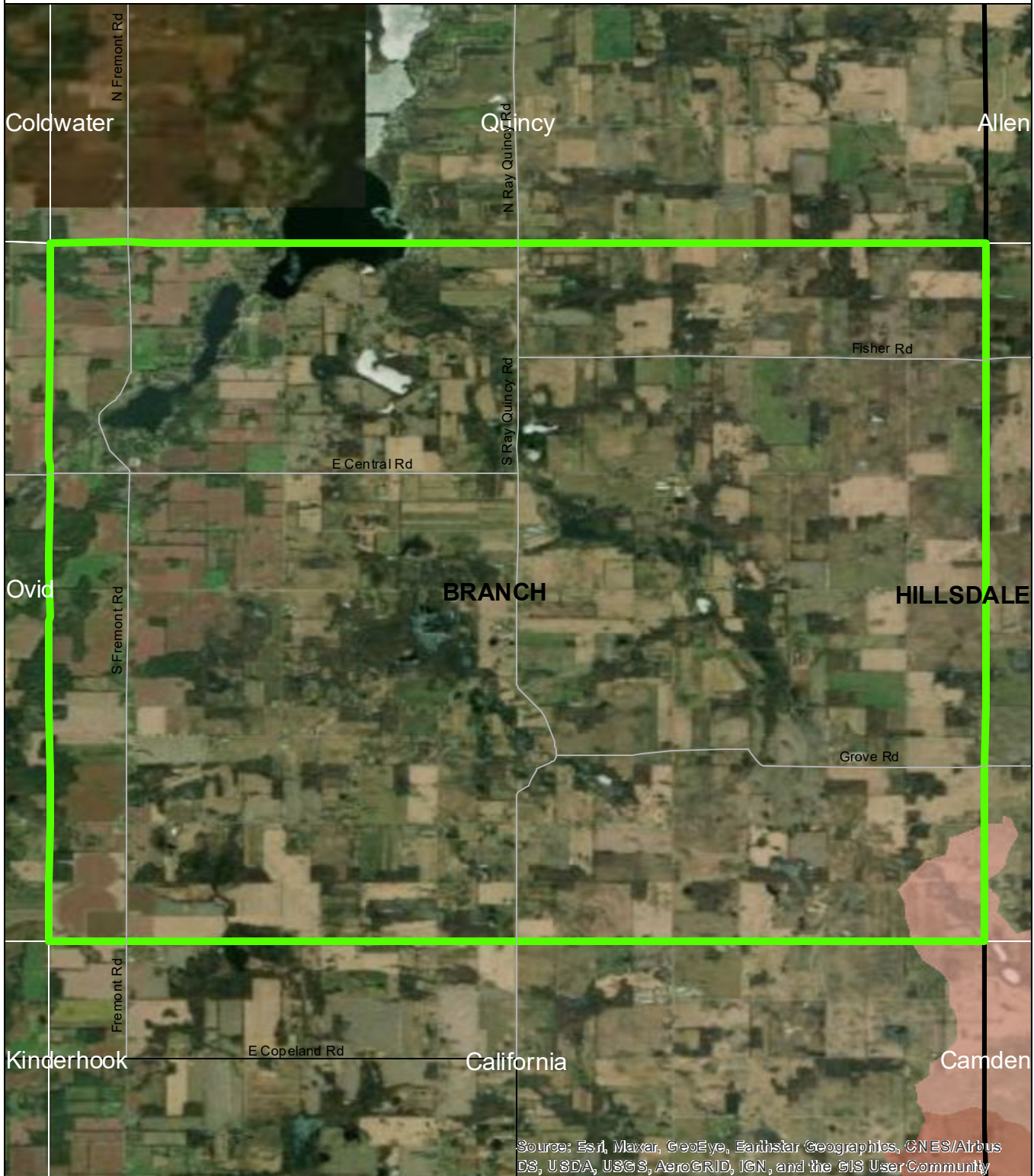


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community




Adrian Township Counties Rivers and Streams Townships & Cities	<b>Sediment Loading Risk</b> low moderate high very high	0      1      2 Miles 	N 
	<b>Data Sources</b> State of Michigan: Counties, Townships & Cities USGS: Sediment Loading Risk Map produced by the Institute of Water Research - Michigan State University		







# Alganssee Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Alganssee Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

### Sediment Loading Risk

-  low
-  moderate
-  high
-  very high

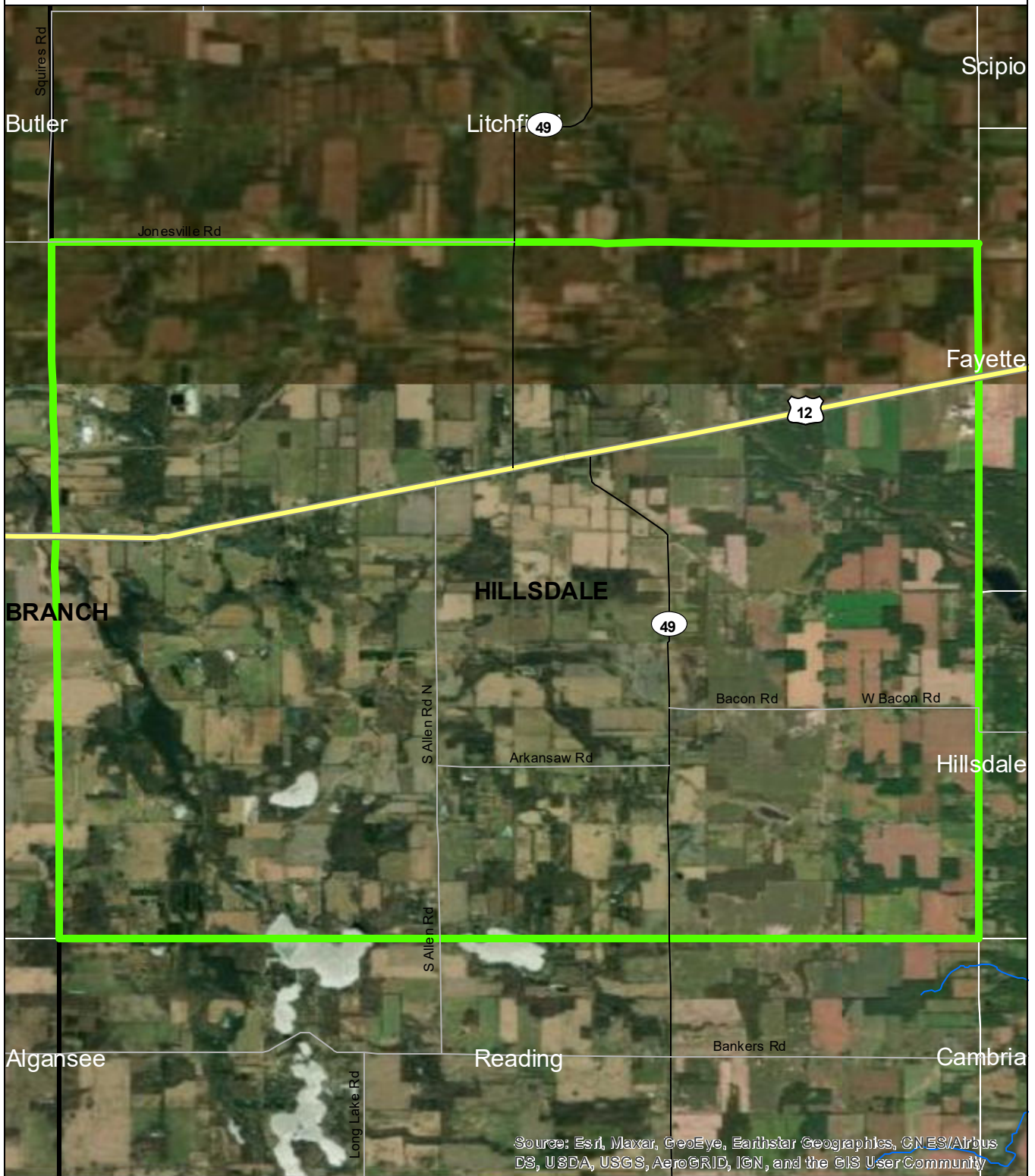
0 1 2 Miles

### Data Sources










State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Allen Township

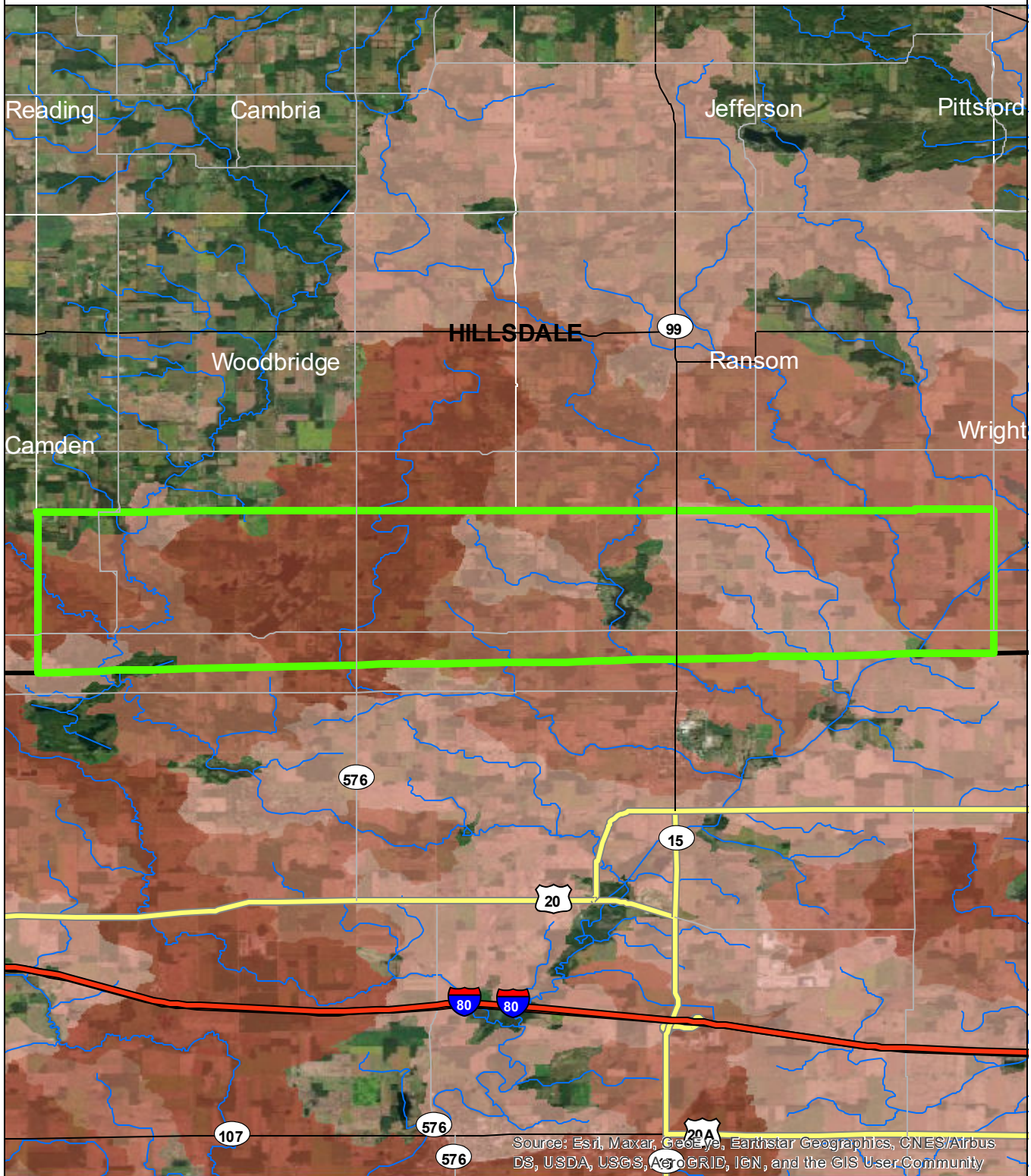


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

	Allen Township	<b>Sediment Loading Risk</b>	0	1	2 Miles	N ▲
	Counties		low			
	Rivers and Streams		moderate	<b>Data Sources</b>		
	Townships & Cities		high	State of Michigan: Counties, Townships & Cities		
			very high	USGS: Sediment Loading Risk		
				Map produced by the Institute of Water Research - Michigan State University		



# Amboy Township

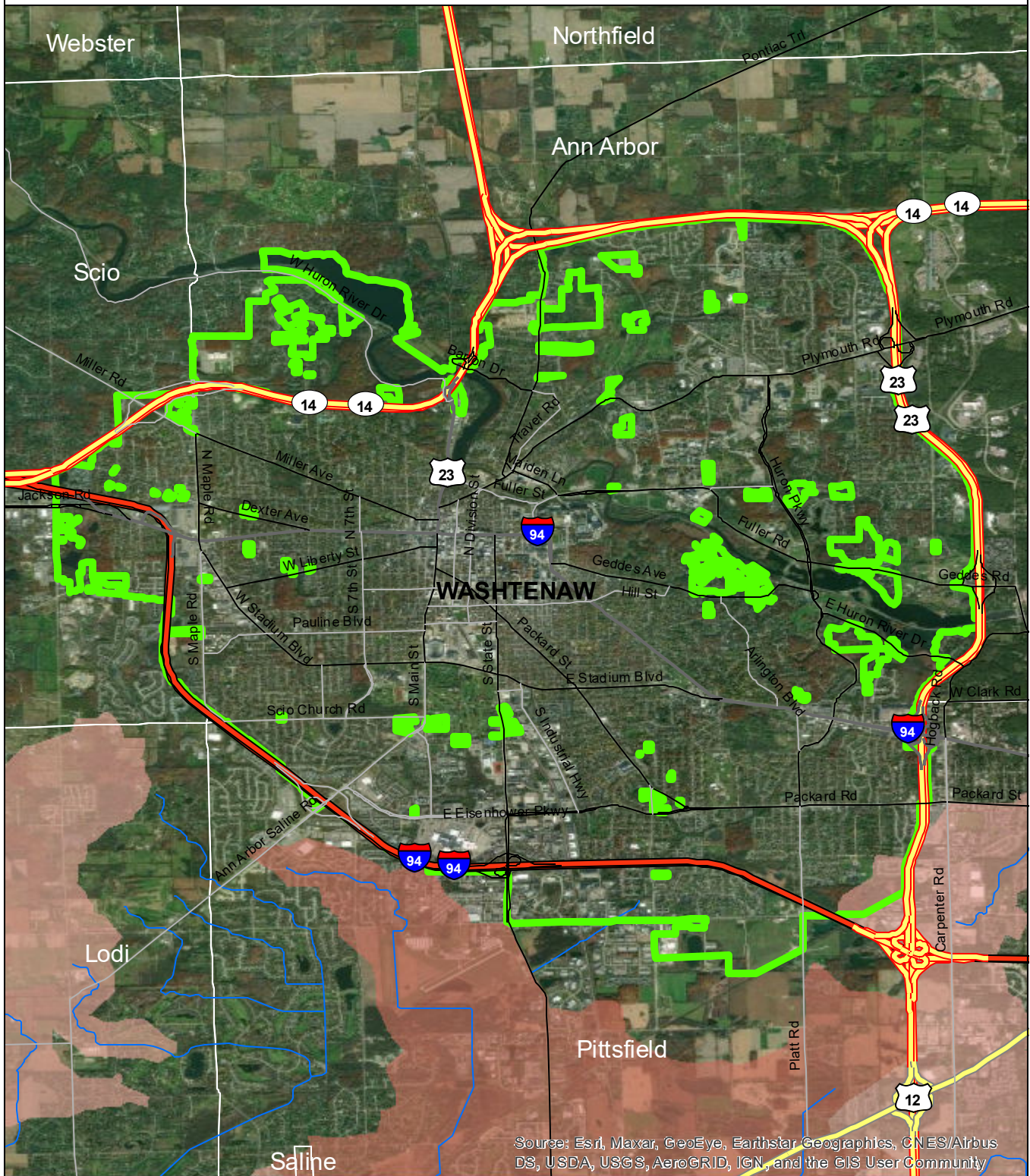


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<ul style="list-style-type: none"> <li><span style="border: 2px solid green; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Amboy Township</li> <li><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Counties</li> <li><span style="color: blue; font-size: 2px; border-bottom: 1px solid blue; display: inline-block; width: 20px; margin-right: 5px;"></span> Rivers and Streams</li> <li><span style="border: 1px solid gray; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Townships &amp; Cities</li> </ul>	<p><b>Sediment Loading Risk</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #f08080; border: 1px solid black; margin-right: 5px;"></span> low</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e06666; border: 1px solid black; margin-right: 5px;"></span> moderate</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #c05050; border: 1px solid black; margin-right: 5px;"></span> high</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #a03030; border: 1px solid black; margin-right: 5px;"></span> very high</li> </ul>	<p>0 1 2 Miles</p>	<p>N</p>
<p><b>Data Sources</b>          State of Michigan: Counties, Townships &amp; Cities          USGS: Sediment Loading Risk          Map produced by the Institute of Water Research - Michigan State University</p>			



# City of Ann Arbor

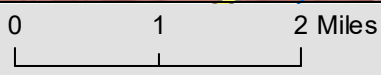


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- City of Ann Arbor
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



### Data Sources

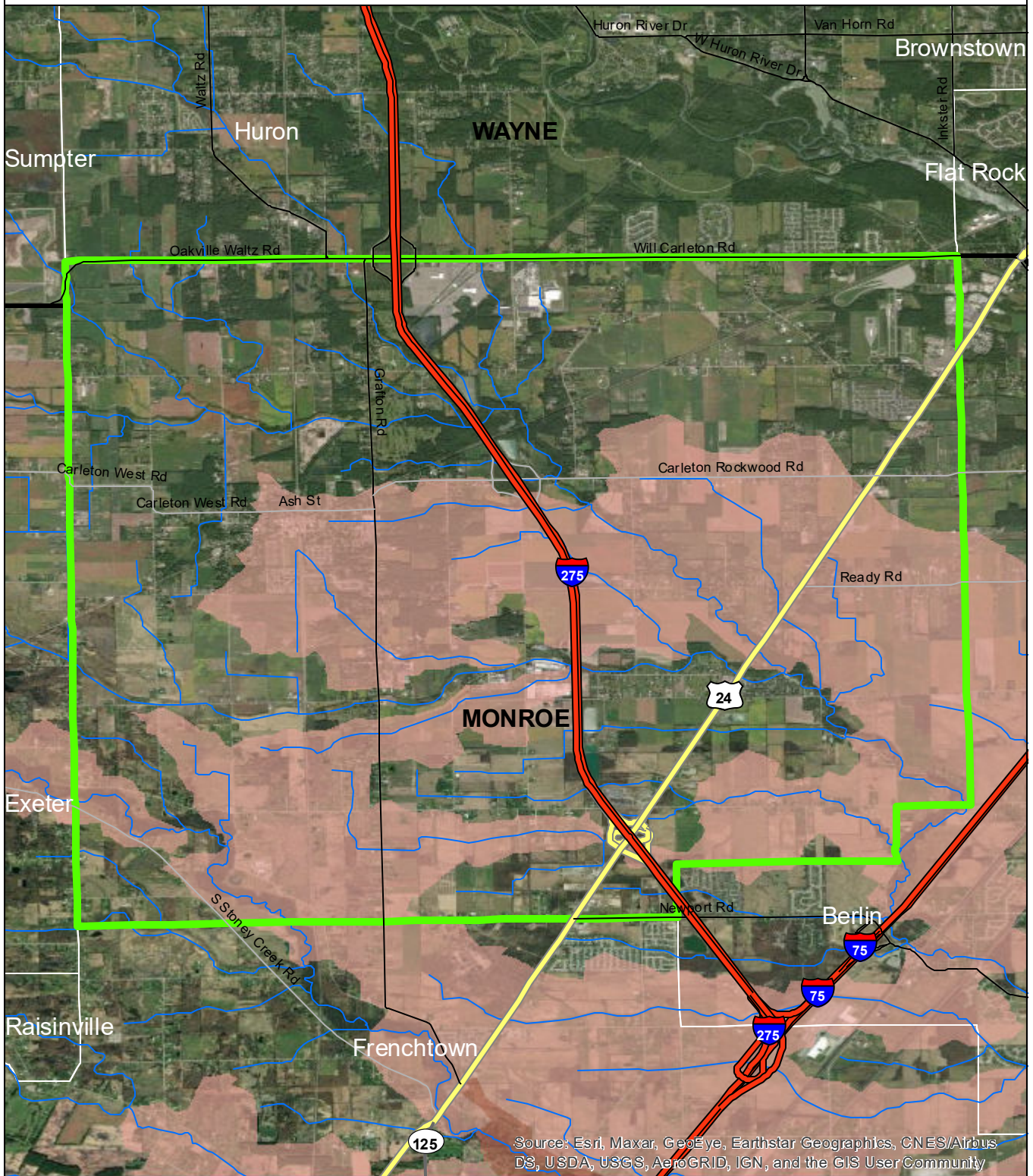
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University




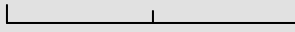









# Ash Township

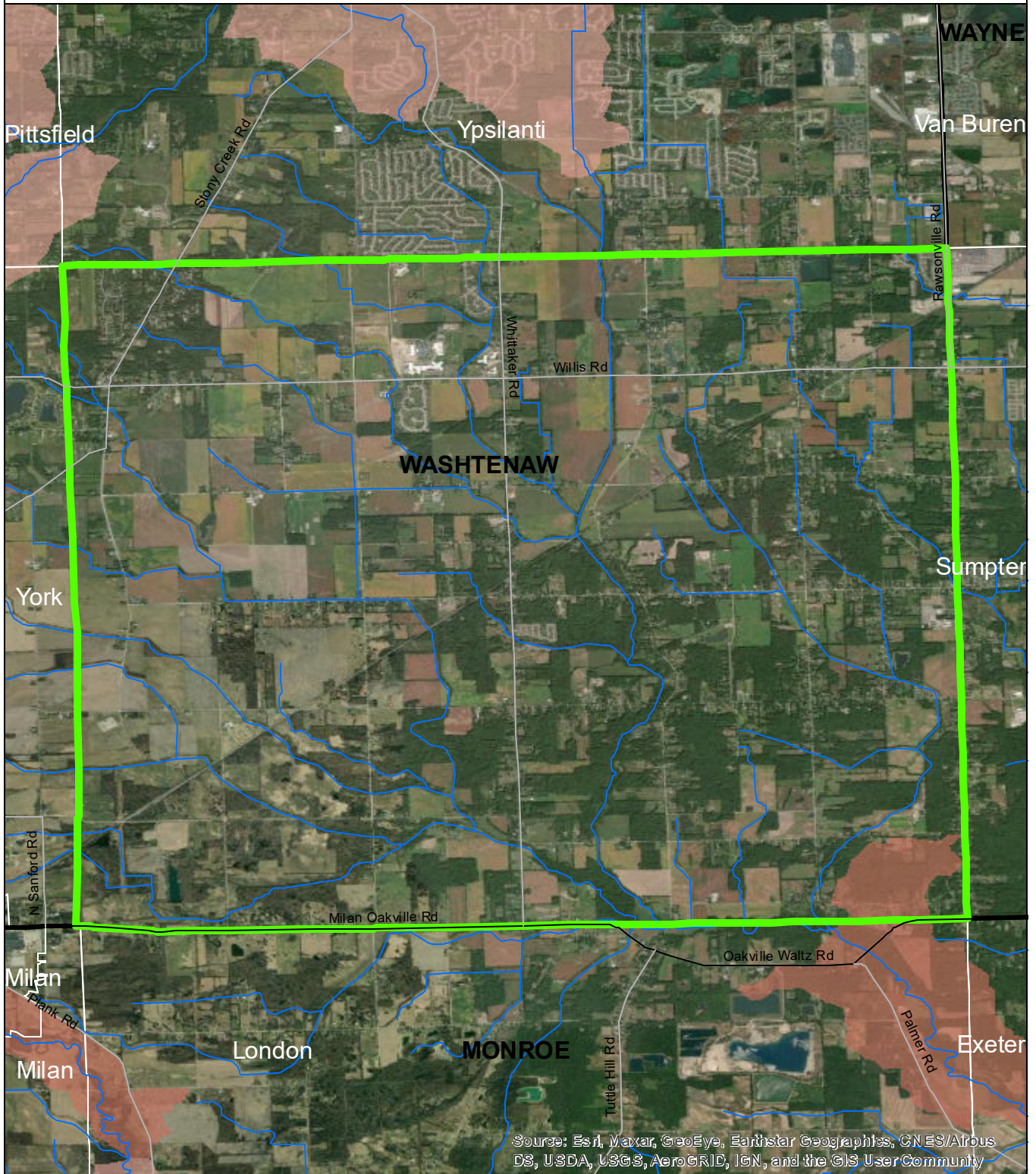


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community


 Ash Township	<b>Sediment Loading Risk</b>	0	1	2 Miles	N
 Counties	 low				
 Rivers and Streams	 moderate	<b>Data Sources</b>			
 Townships & Cities	 high	State of Michigan: Counties, Townships & Cities			
	 very high	USGS: Sediment Loading Risk			
		Map produced by the Institute of Water Research - Michigan State University			

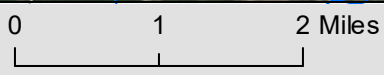
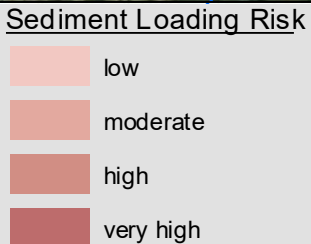


# Augusta Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Augusta Township
-  Counties
-  Rivers and Streams
-  Townships & Cities



Data Sources

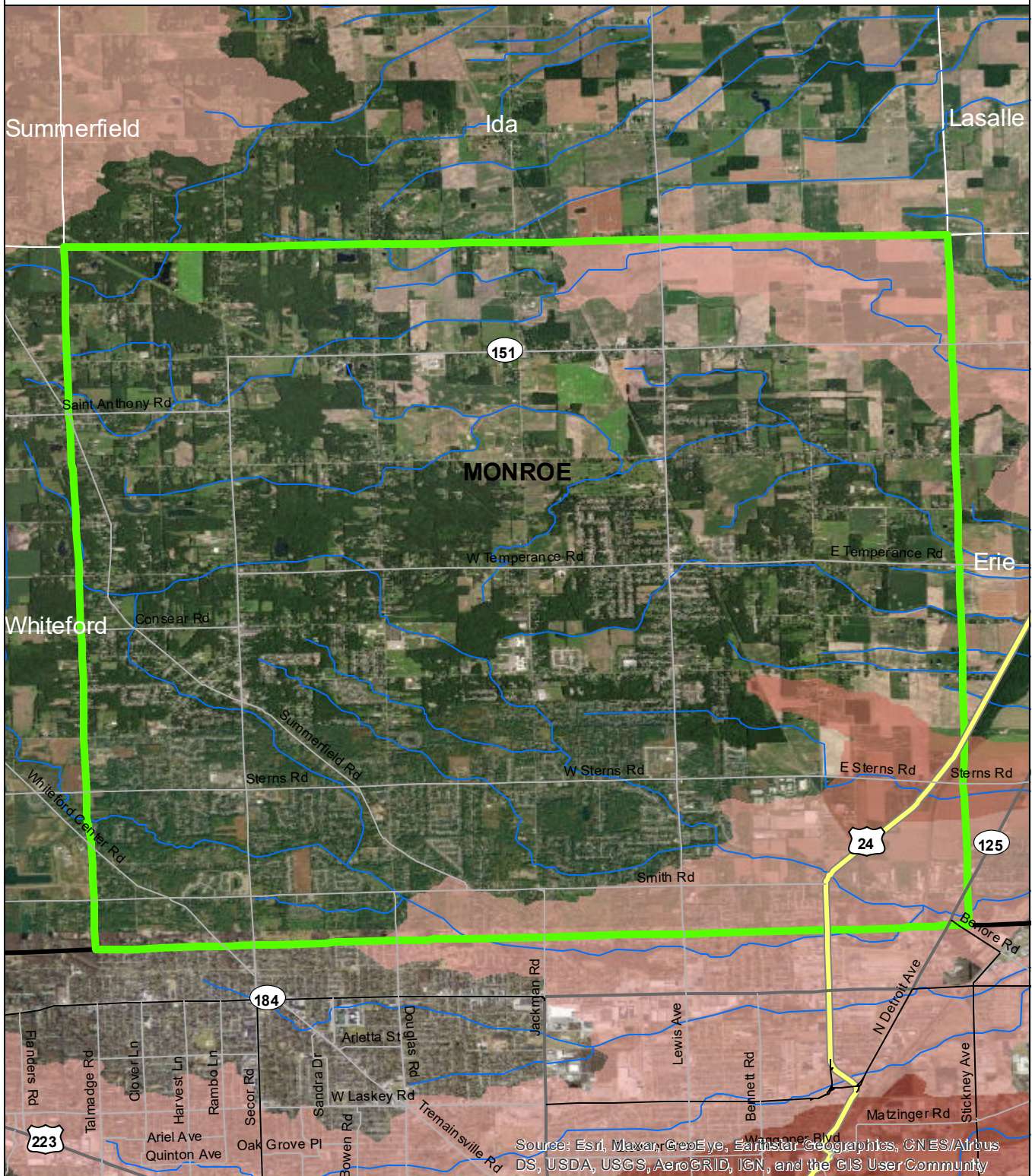
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University





# Bedford Township

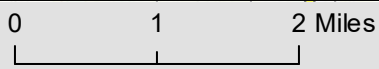


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Bedford Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



### Data Sources

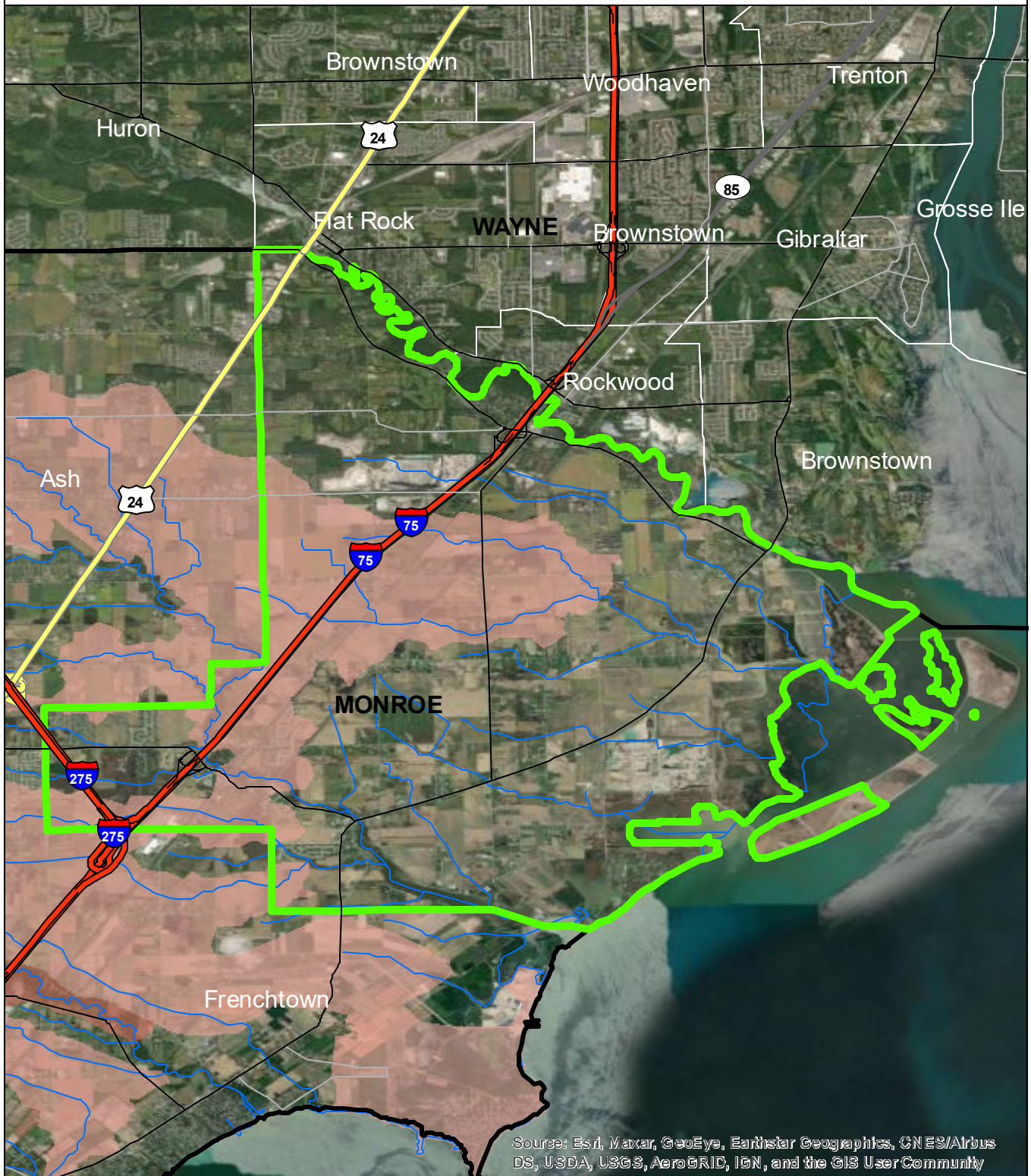
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University




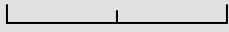









# Berlin Township

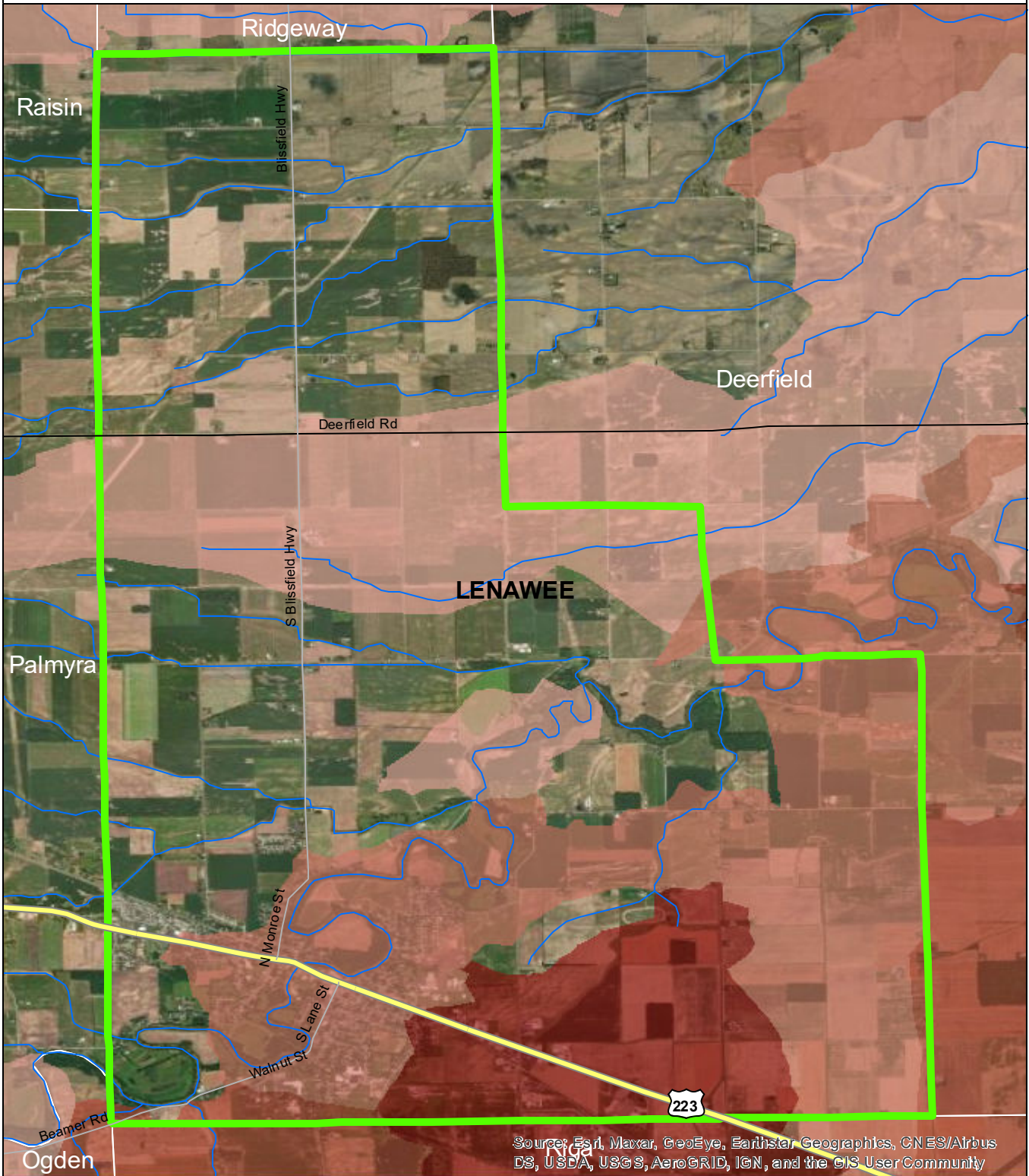


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

 Berlin Township	<b>Sediment Loading Risk</b>	0	1	2 Miles	N ▲
 Counties	 low				
 Rivers and Streams	 moderate	<b>Data Sources</b>			
 Townships & Cities	 high	State of Michigan: Counties, Townships & Cities			
	 very high	USGS: Sediment Loading Risk			
		Map produced by the Institute of Water Research - Michigan State University			








# Blissfield Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Blissfield Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

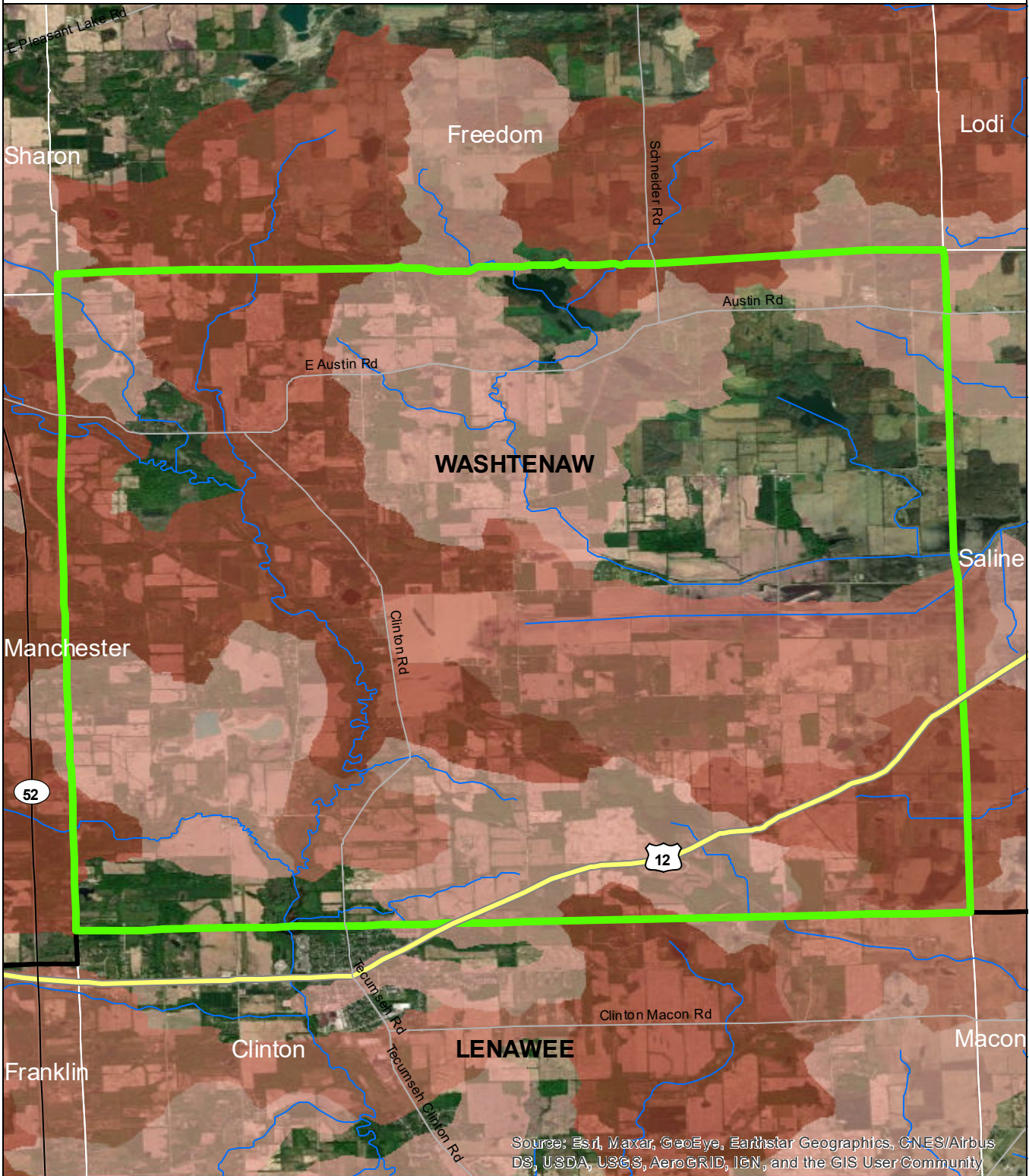
- Sediment Loading Risk**
-  low
  -  moderate
  -  high
  -  very high

0 1 2 Miles 











Data Sources  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Bridgewater Township



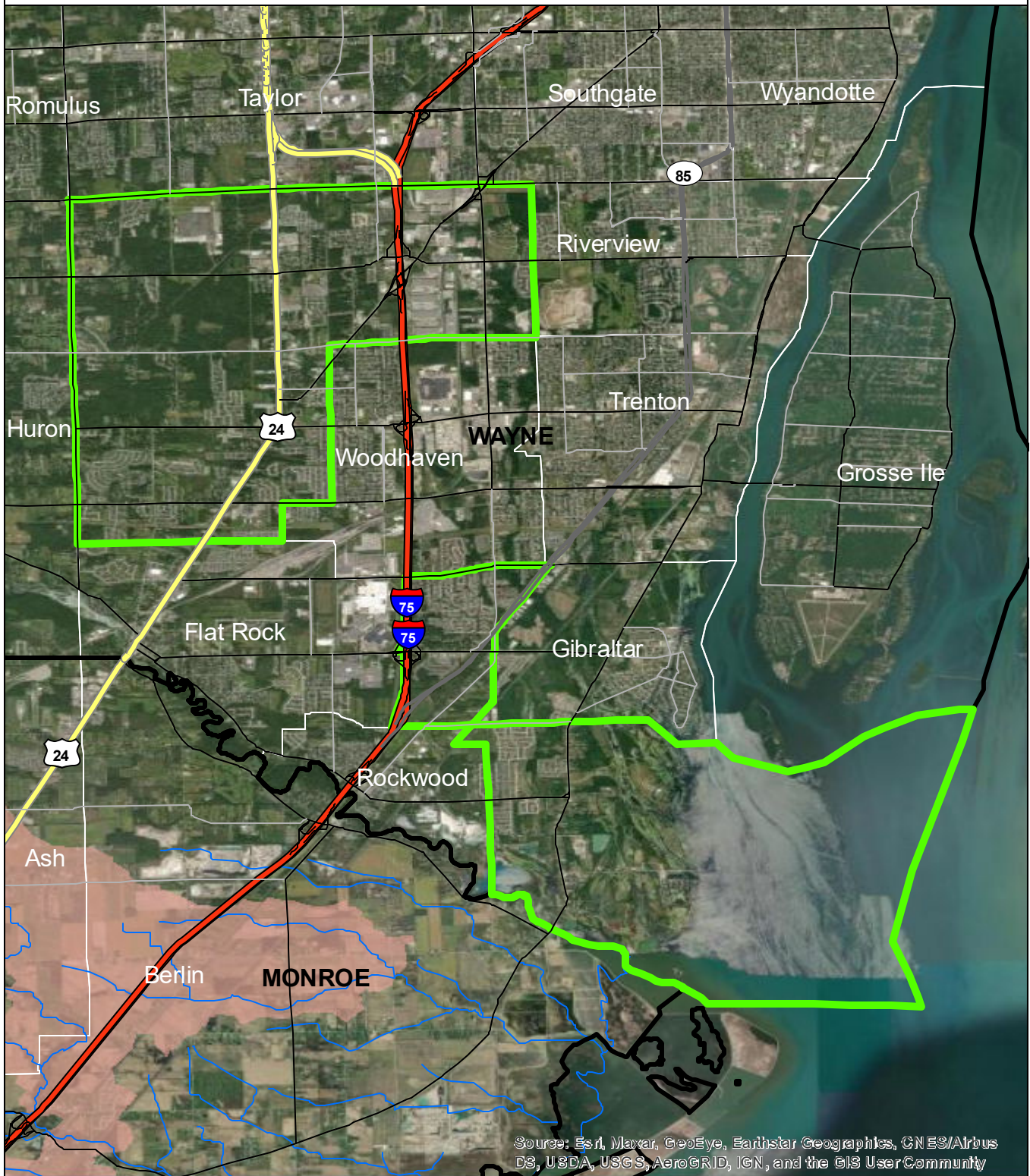
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Bridgewater Township		low	<b>Sediment Loading Risk</b> 0      1      2 Miles 	
	Counties		moderate		
	Rivers and Streams		high		
	Townships & Cities		very high		

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Brownstown Township

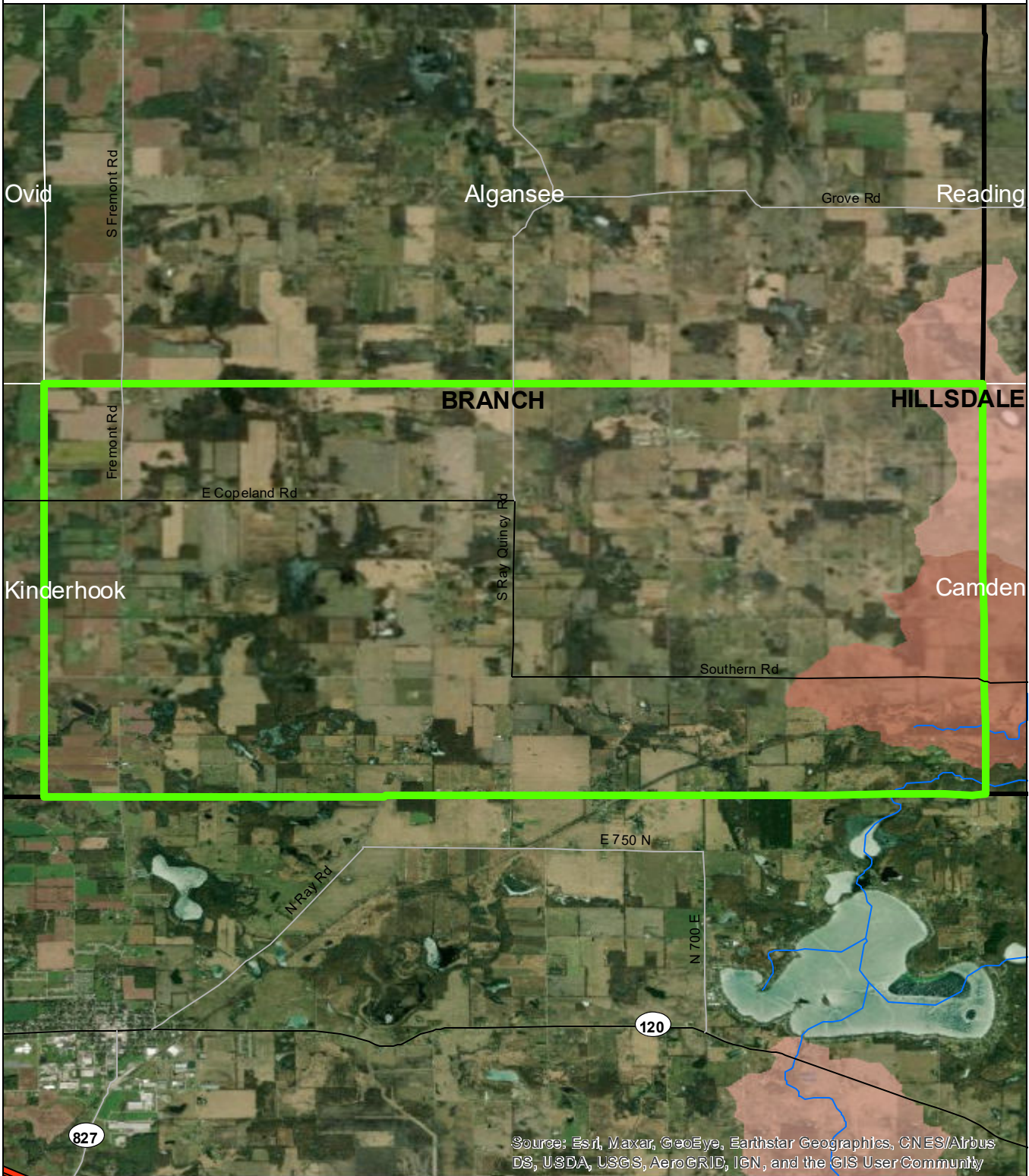


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

<ul style="list-style-type: none"> <li><span style="border: 2px solid green; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Brownstown Township</li> <li><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Counties</li> <li><span style="border-bottom: 1px solid blue; display: inline-block; width: 20px; margin-right: 5px;"></span> Rivers and Streams</li> <li><span style="border: 1px solid gray; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Townships &amp; Cities</li> </ul>	<b>Sediment Loading Risk</b>		0    1    2 Miles	N 
	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #f0f0f0; margin-right: 5px;"></span> low</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #e0e0e0; margin-right: 5px;"></span> moderate</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #d0d0d0; margin-right: 5px;"></span> high</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #c0c0c0; margin-right: 5px;"></span> very high</li> </ul>	Data Sources State of Michigan: Counties, Townships & Cities USGS: Sediment Loading Risk Map produced by the Institute of Water Research - Michigan State University		



# California Township

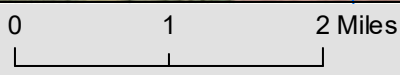


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- California Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



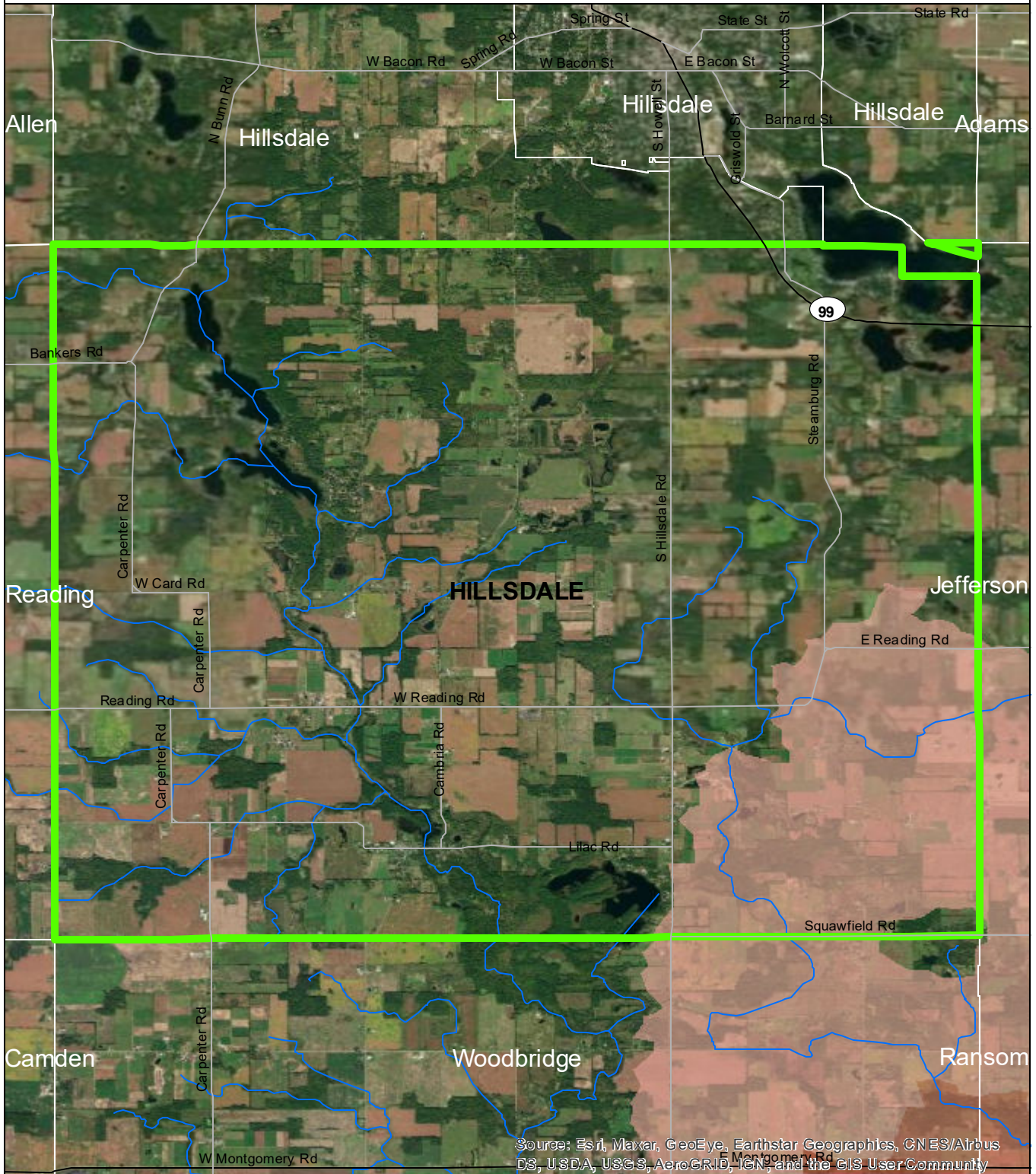
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University













# Cambria Township

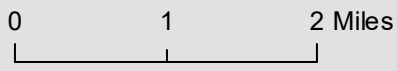


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Cambria Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

### Sediment Loading Risk

-  low
-  moderate
-  high
-  very high

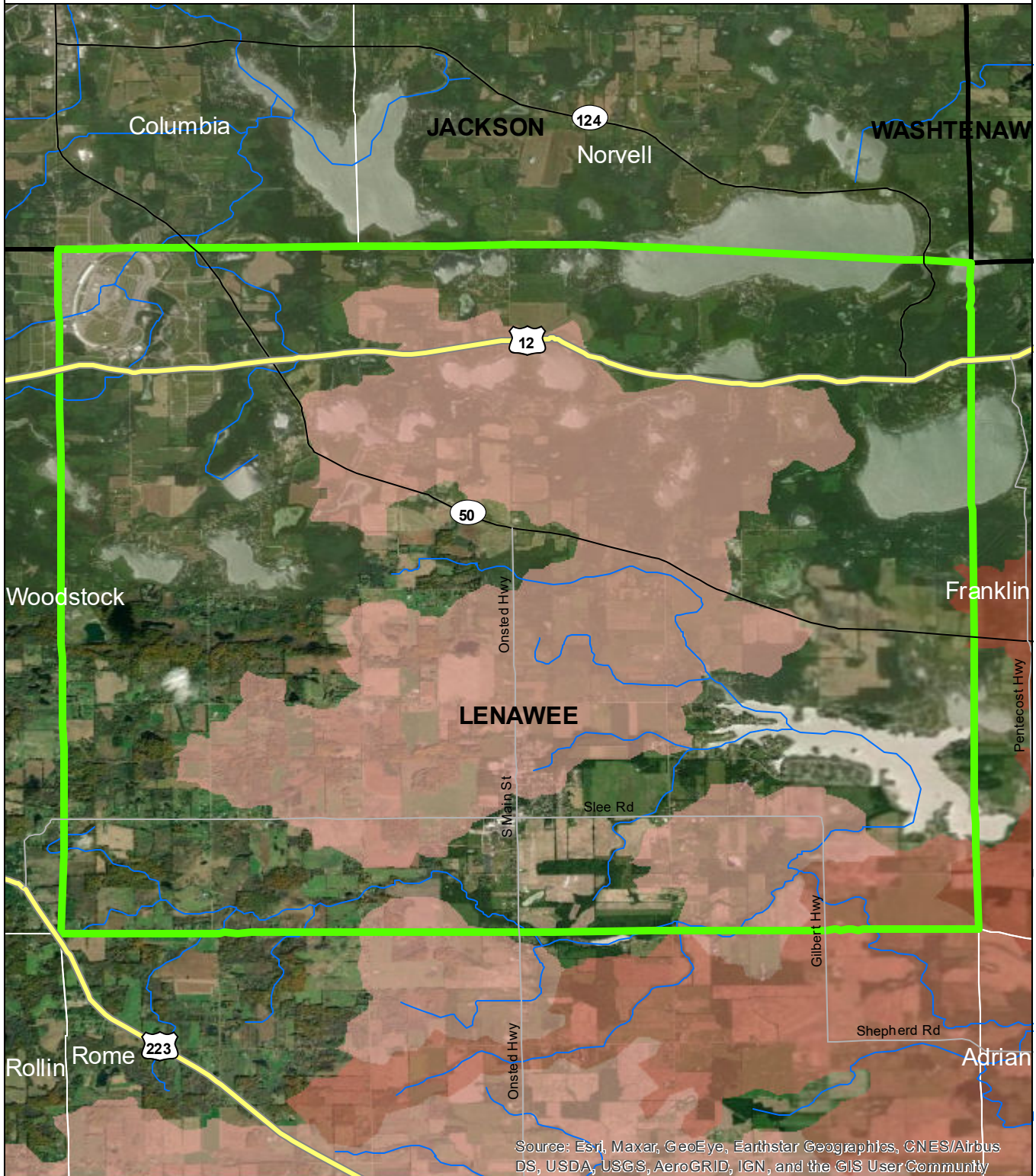






### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University







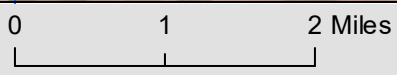
# Cambridge Township



-  Cambridge Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

## Sediment Loading Risk

-  low
-  moderate
-  high
-  very high



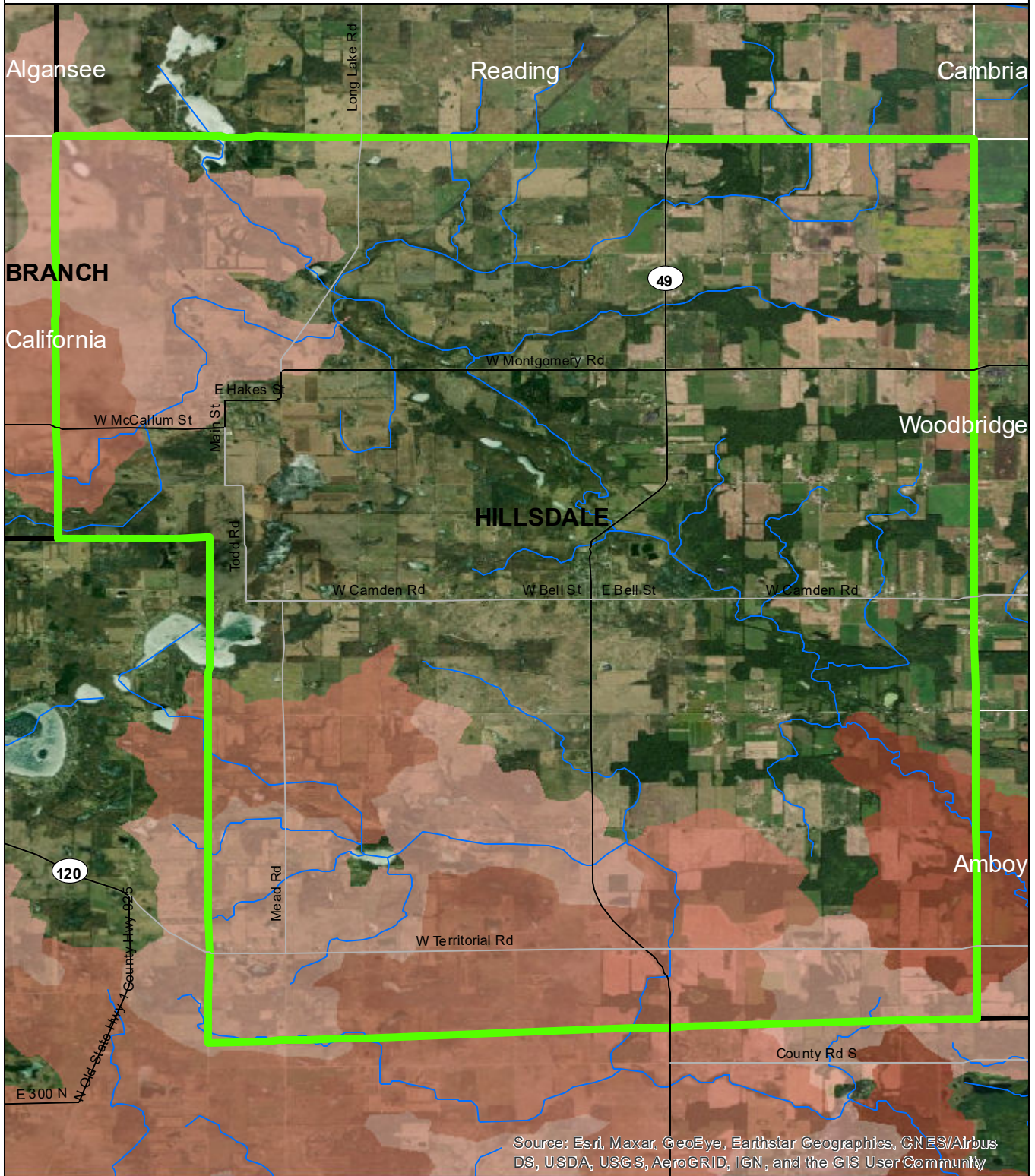
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University





# Camden Township

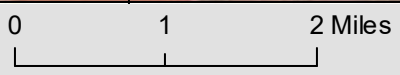


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Camden Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



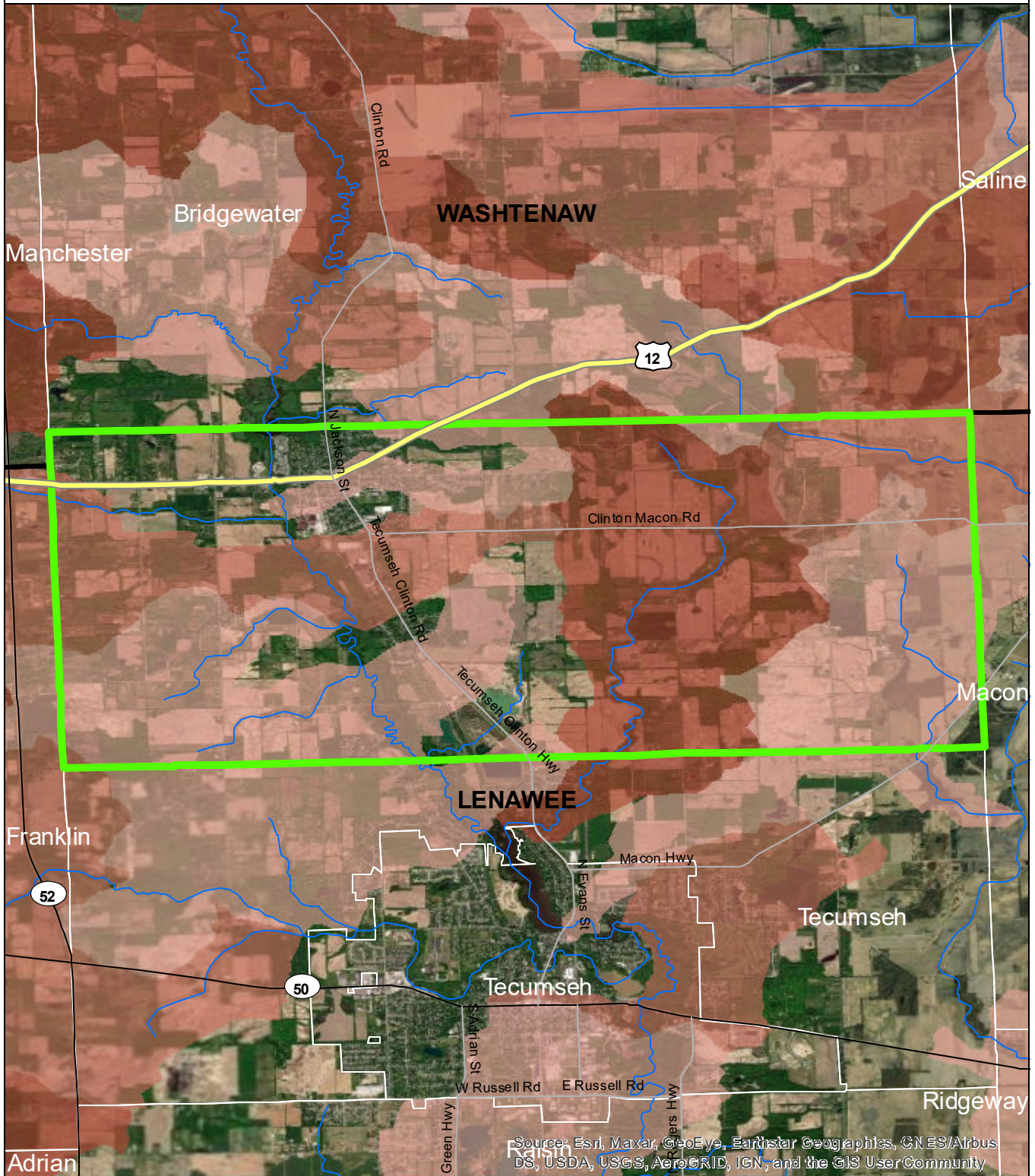
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University





# Clinton Township

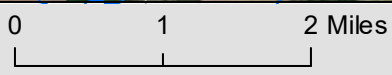


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Clinton Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



### Data Sources

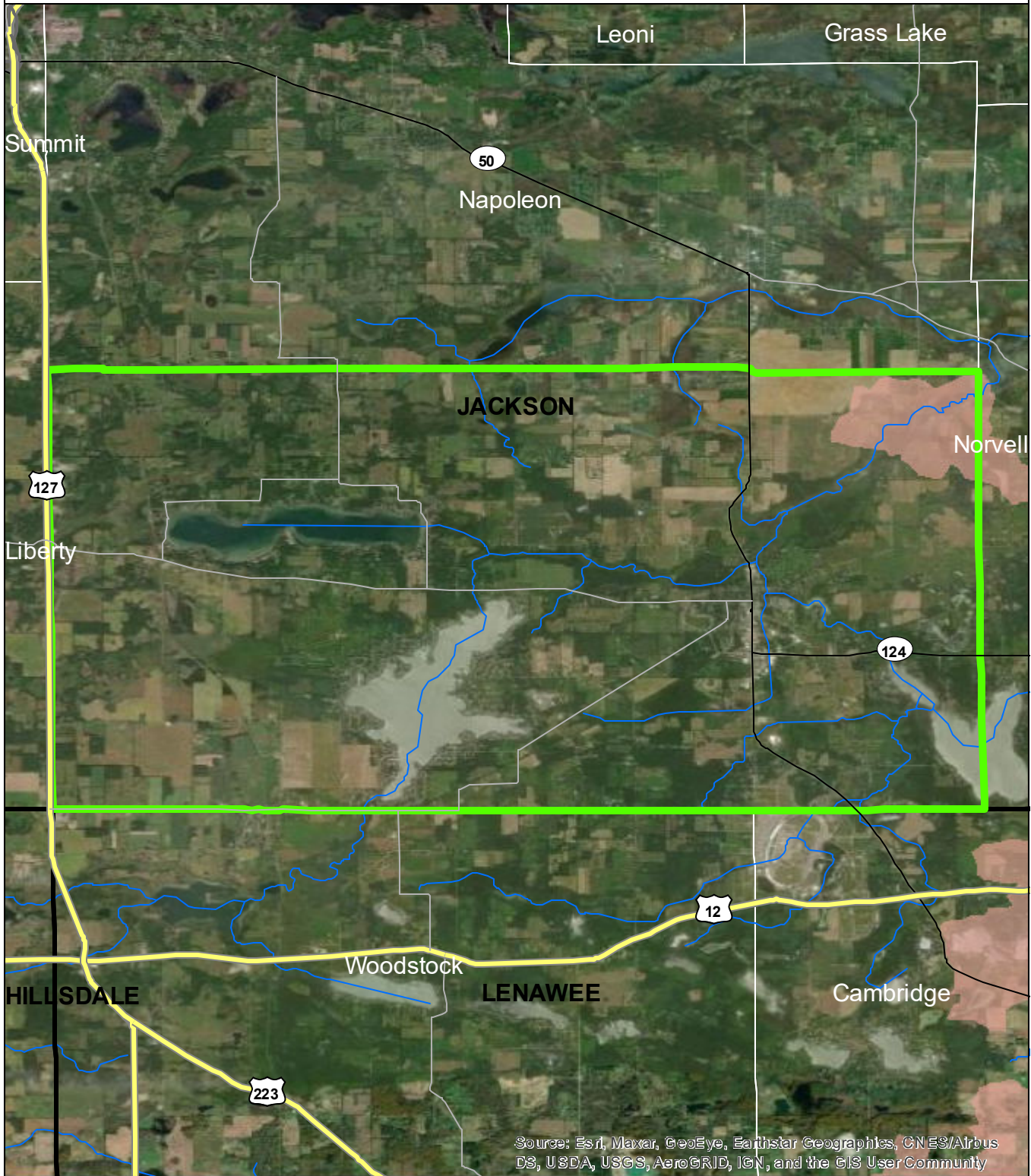
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University





# Columbia Township

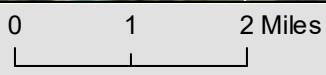


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Columbia Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



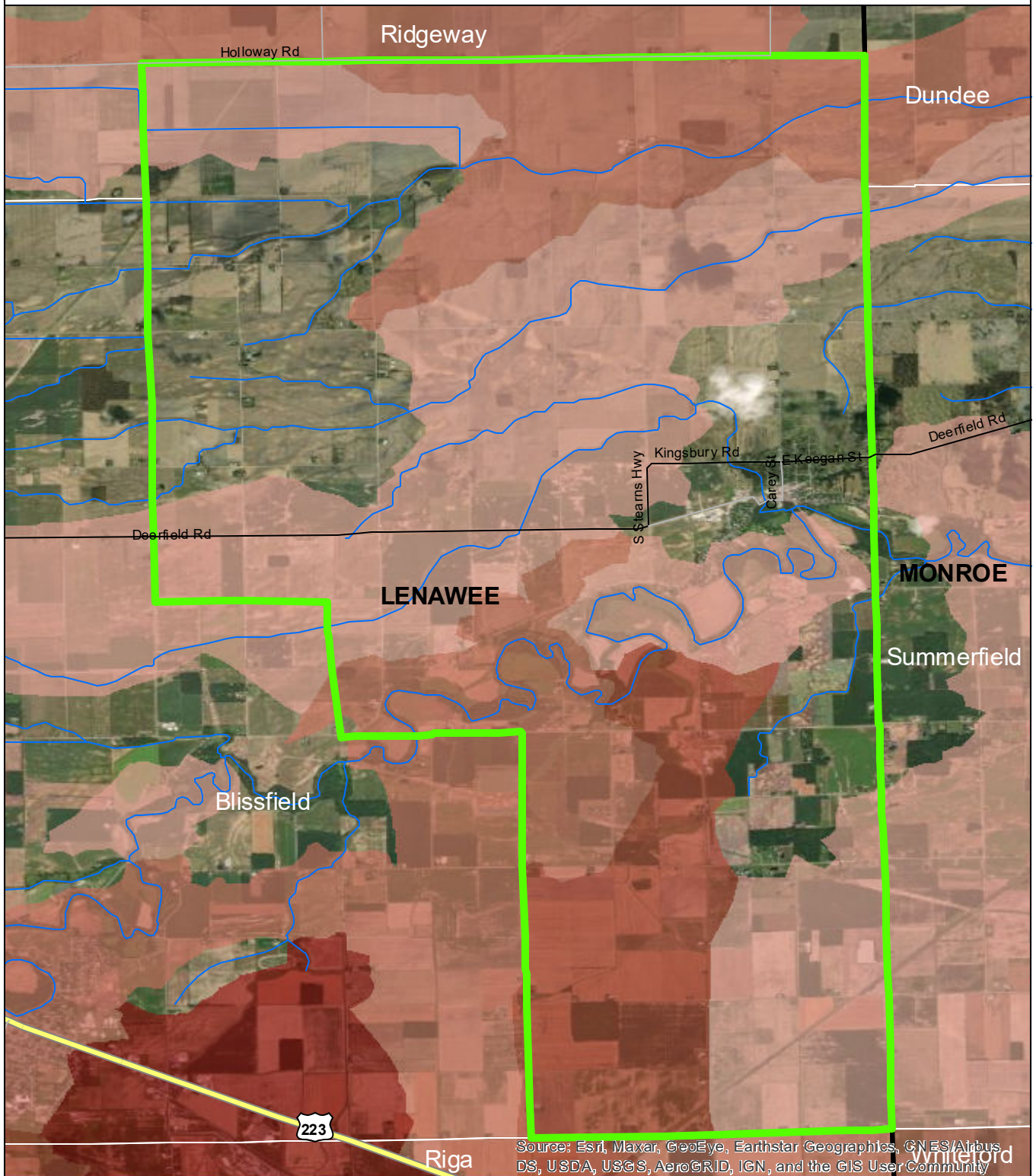
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University




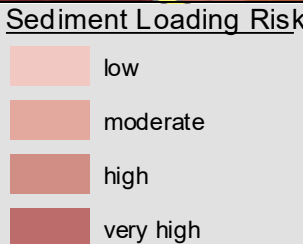


# Deerfield Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

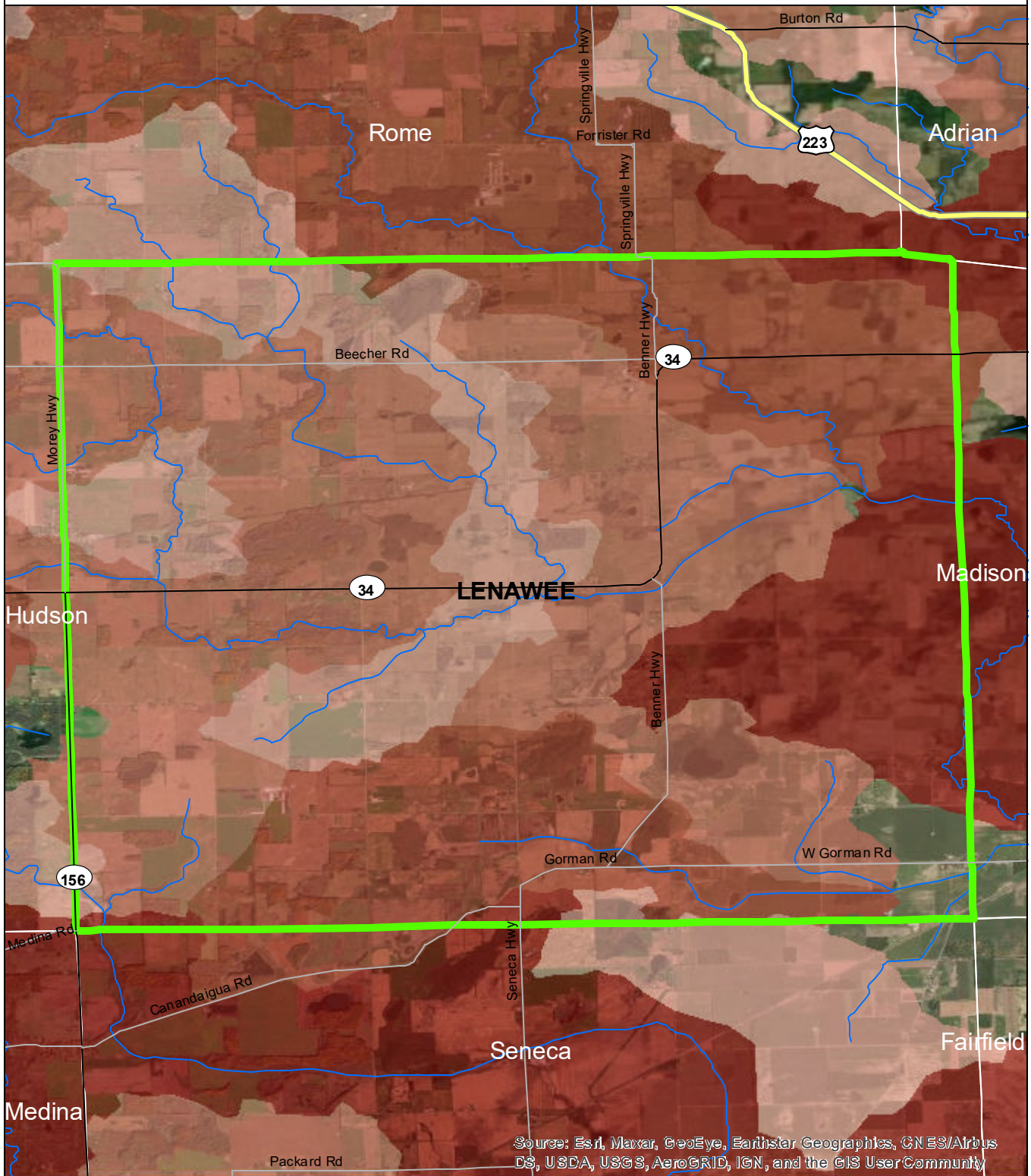
-  Deerfield Township
-  Counties
-  Rivers and Streams
-  Townships & Cities







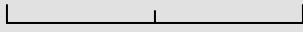





**Data Sources**

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University

# Dover Township



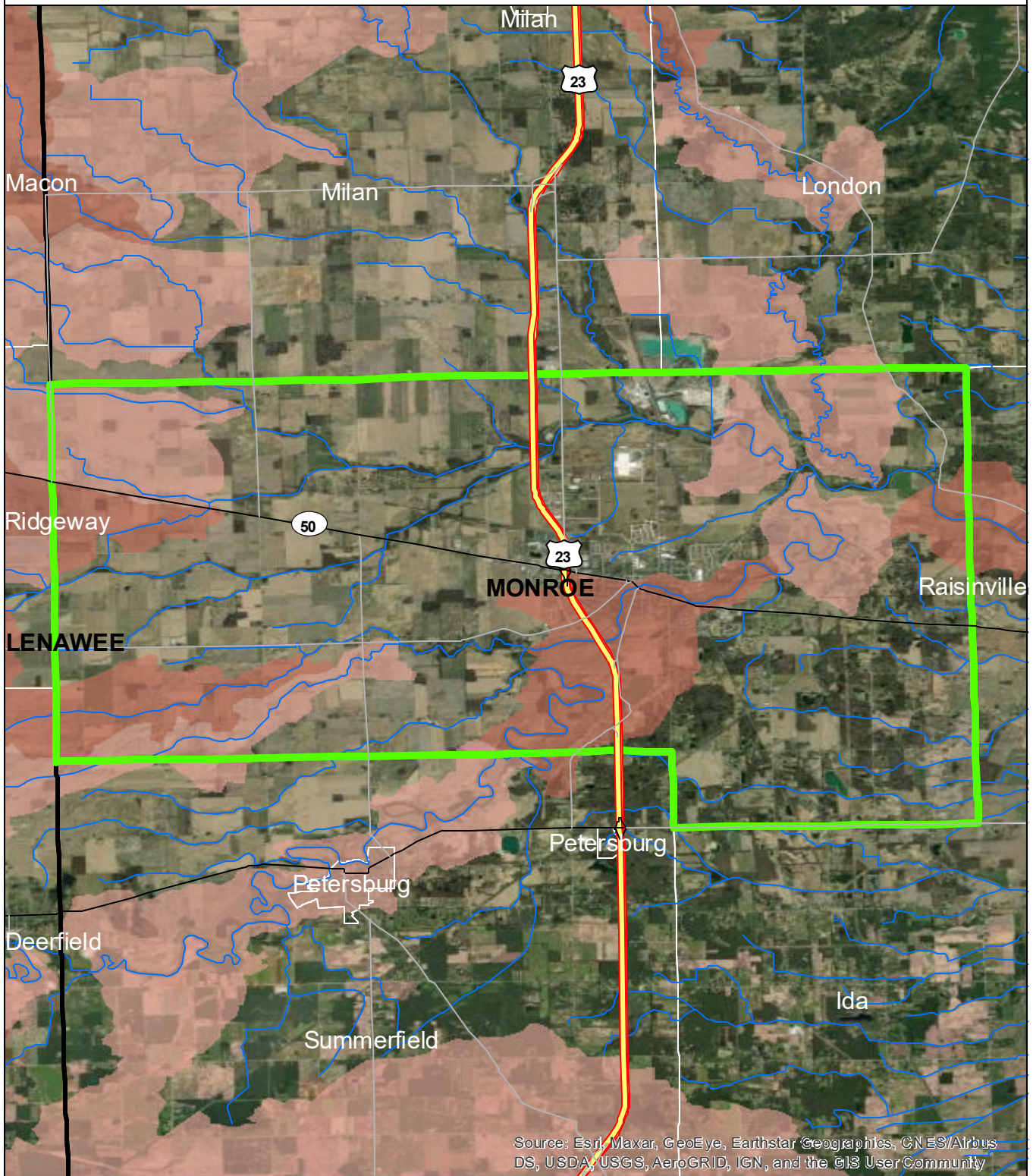
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Dover Township	<b>Sediment Loading Risk</b>	0	1	2 Miles	N 
	Counties		low			
	Rivers and Streams		moderate			
	Townships & Cities		high			
			very high			

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Dundee Township

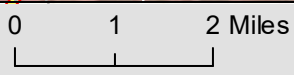


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Dundee Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



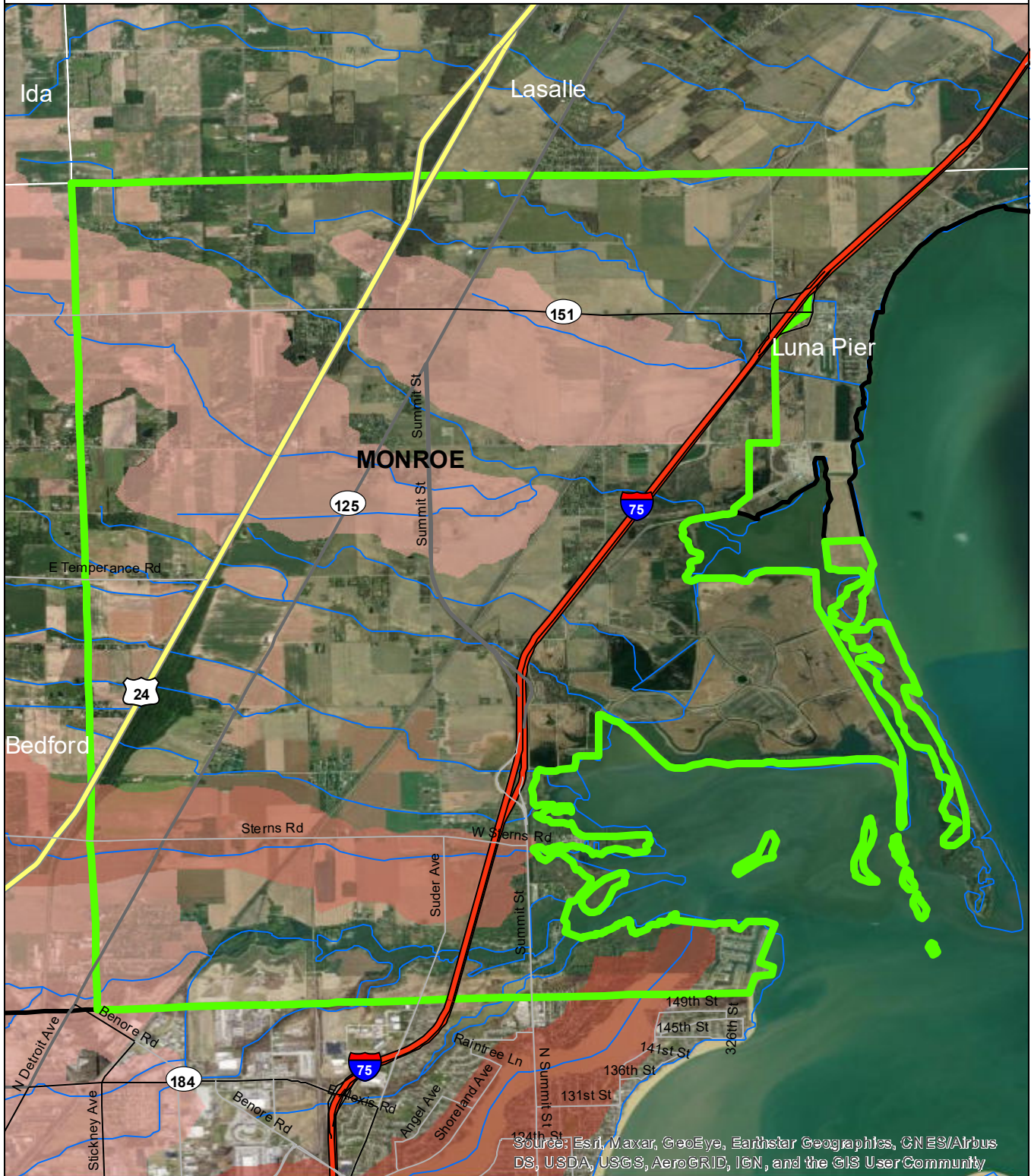
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



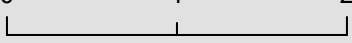











# Erie Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN ES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

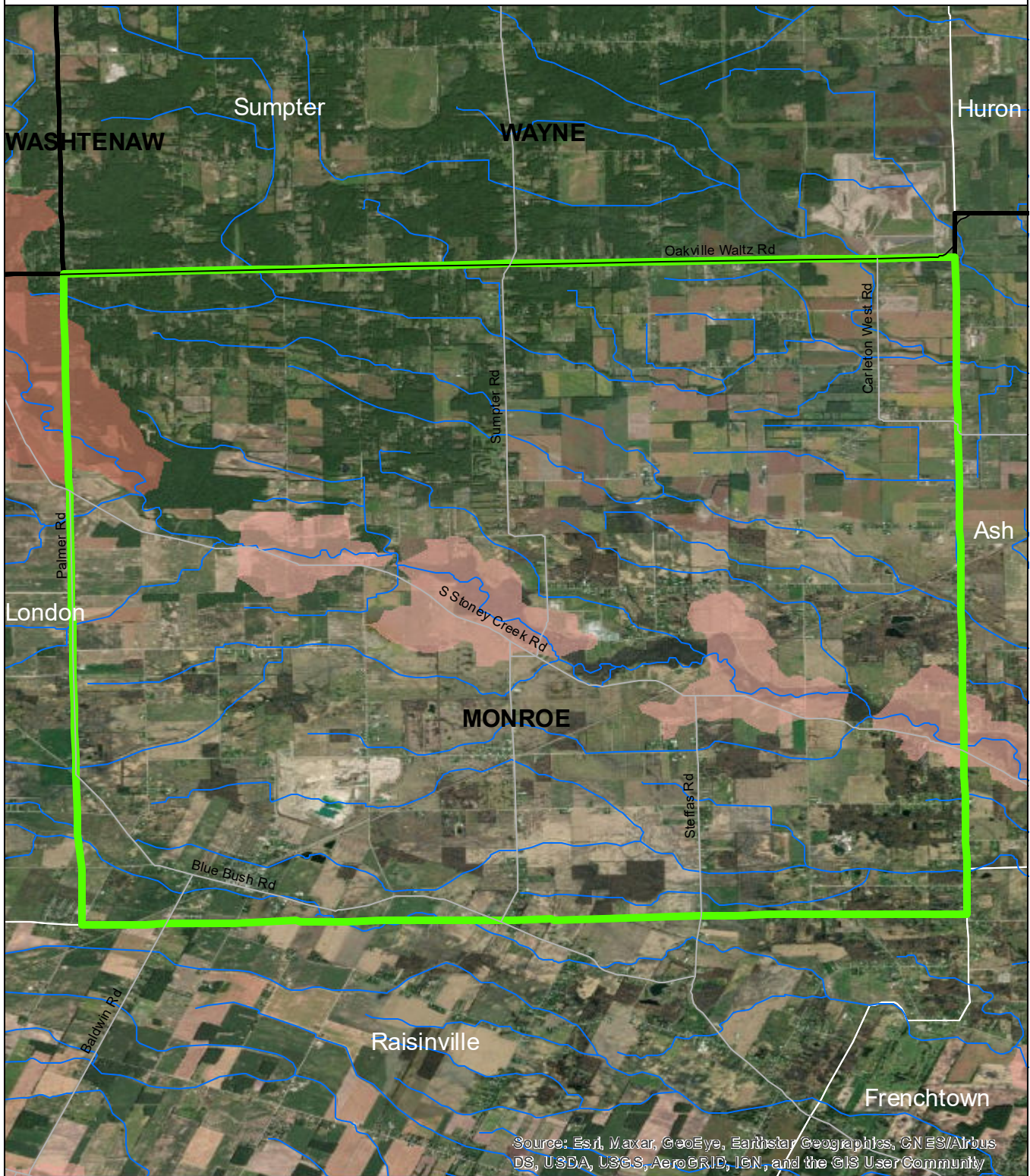
	Erie Township		low	 
	Counties		moderate	
	Rivers and Streams		high	
	Townships & Cities		very high	

**Sediment Loading Risk**

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Exeter Township

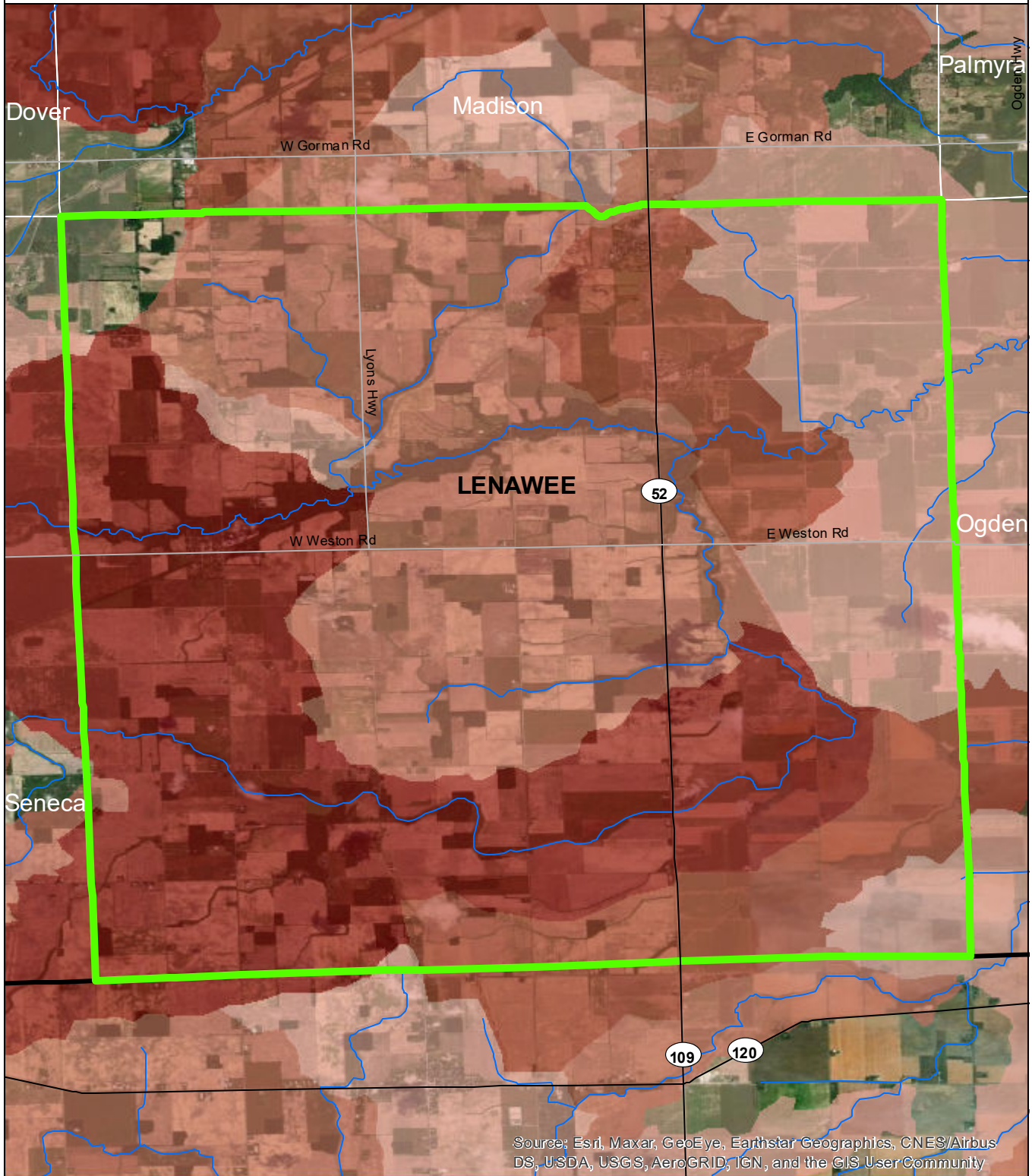


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN ES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





<ul style="list-style-type: none"> <li><span style="border: 2px solid green; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Exeter Township</li> <li><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Counties</li> <li><span style="color: blue; font-size: 2px; border-bottom: 1px solid blue; display: inline-block; width: 20px; margin-right: 5px;"></span> Rivers and Streams</li> <li><span style="border: 1px solid gray; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Townships &amp; Cities</li> </ul>	<b>Sediment Loading Risk</b> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #f8d7da; margin-right: 5px;"></span> low</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #f5c6cb; margin-right: 5px;"></span> moderate</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; margin-right: 5px;"></span> high</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #c0392b; margin-right: 5px;"></span> very high</li> </ul>	<p>0      1      2 Miles</p>	<p>N</p>
	<p><b>Data Sources</b>                  State of Michigan: Counties, Townships &amp; Cities                  USGS: Sediment Loading Risk                  Map produced by the Institute of Water Research - Michigan State University</p>		

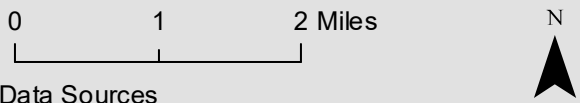
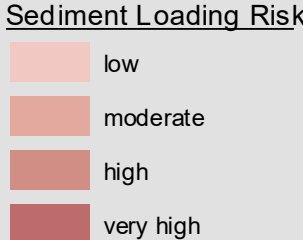


# Fairfield Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

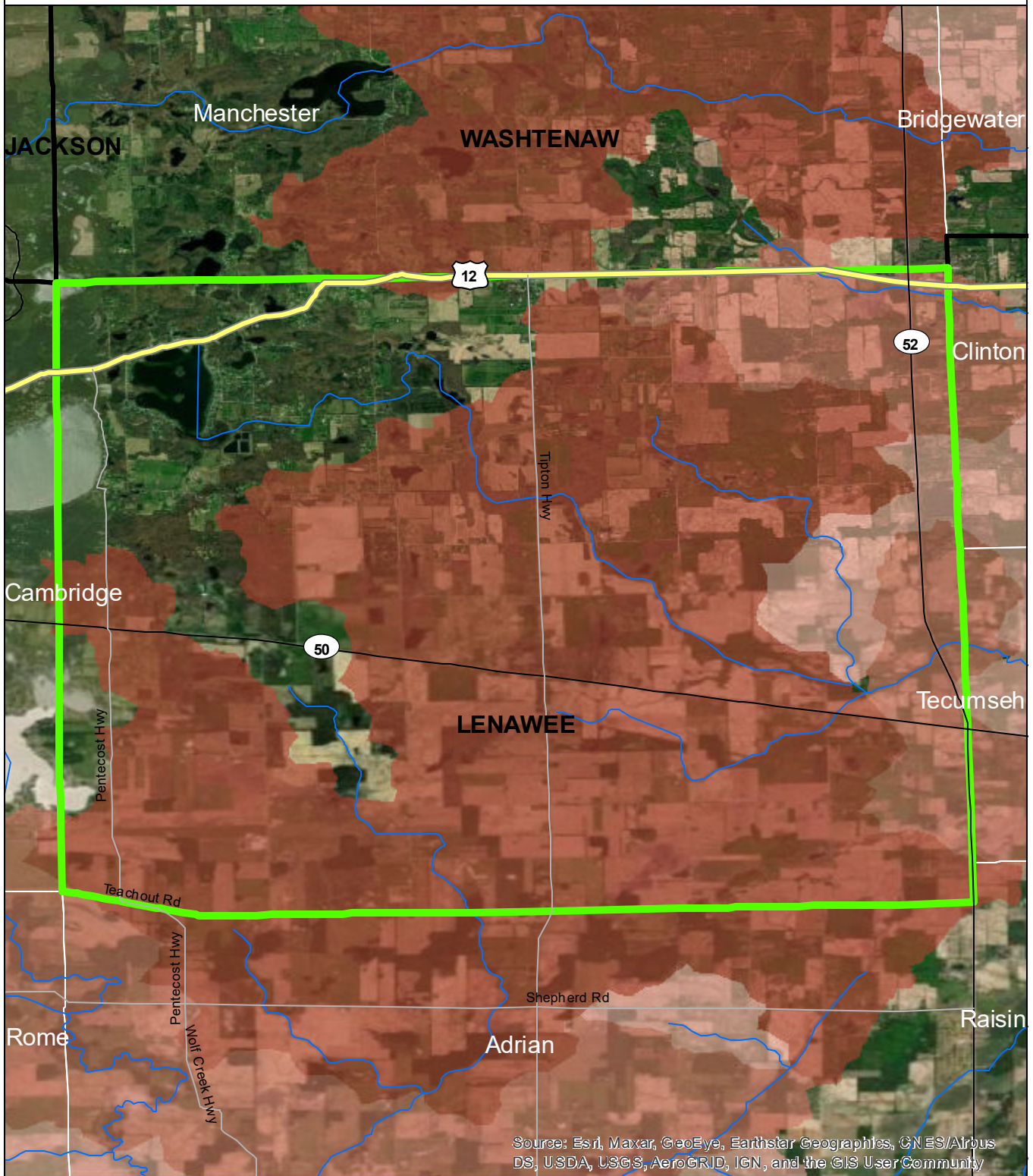
-  Fairfield Township
-  Counties
-  Rivers and Streams
-  Townships & Cities



State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University

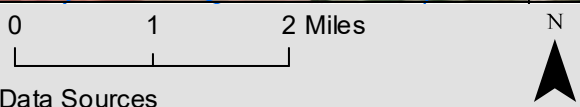
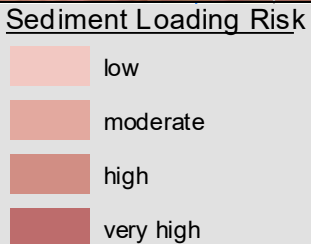


# Franklin Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

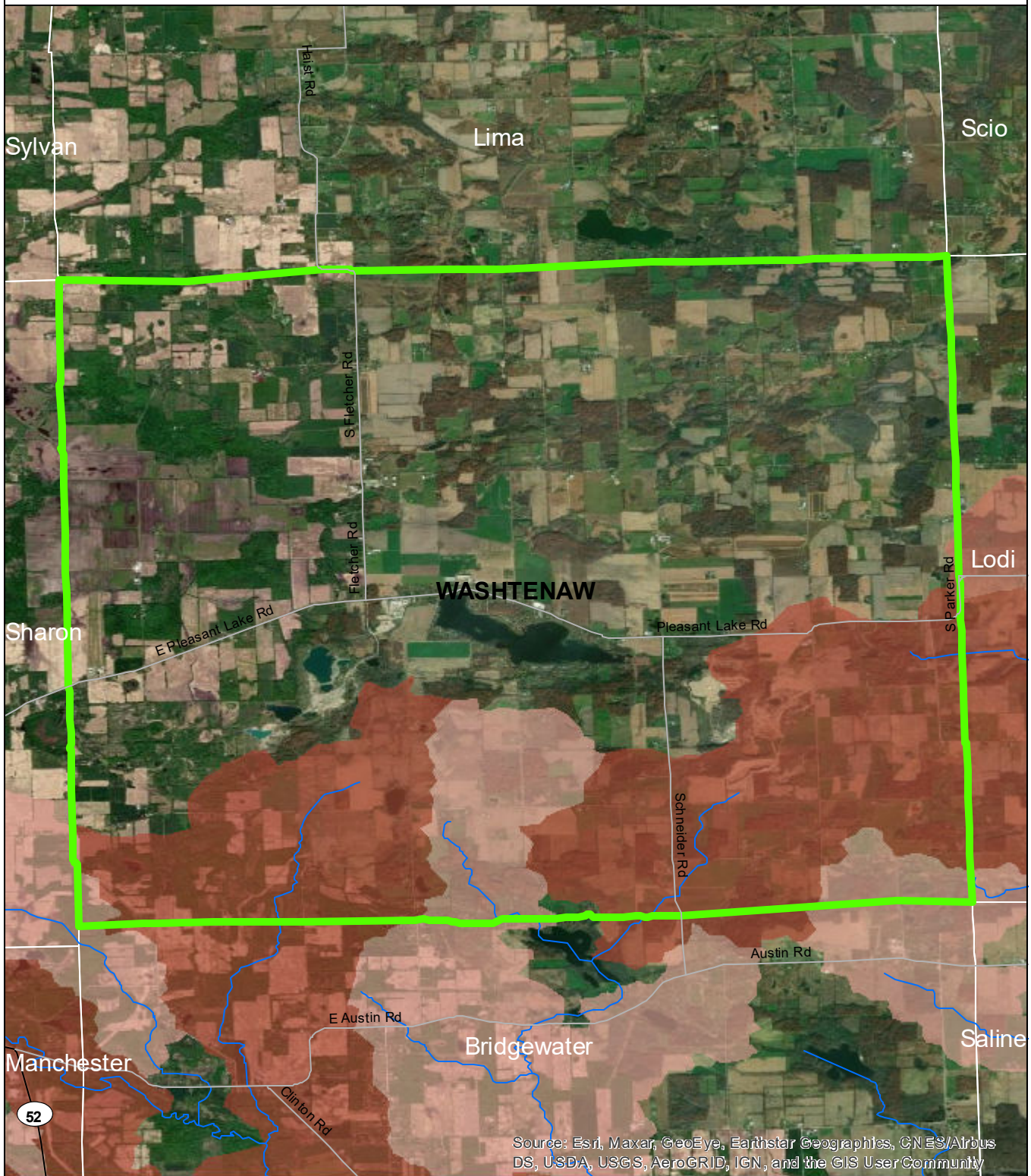
- Franklin Township
- Counties
- Rivers and Streams
- Townships & Cities



Data Sources  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Freedom Township

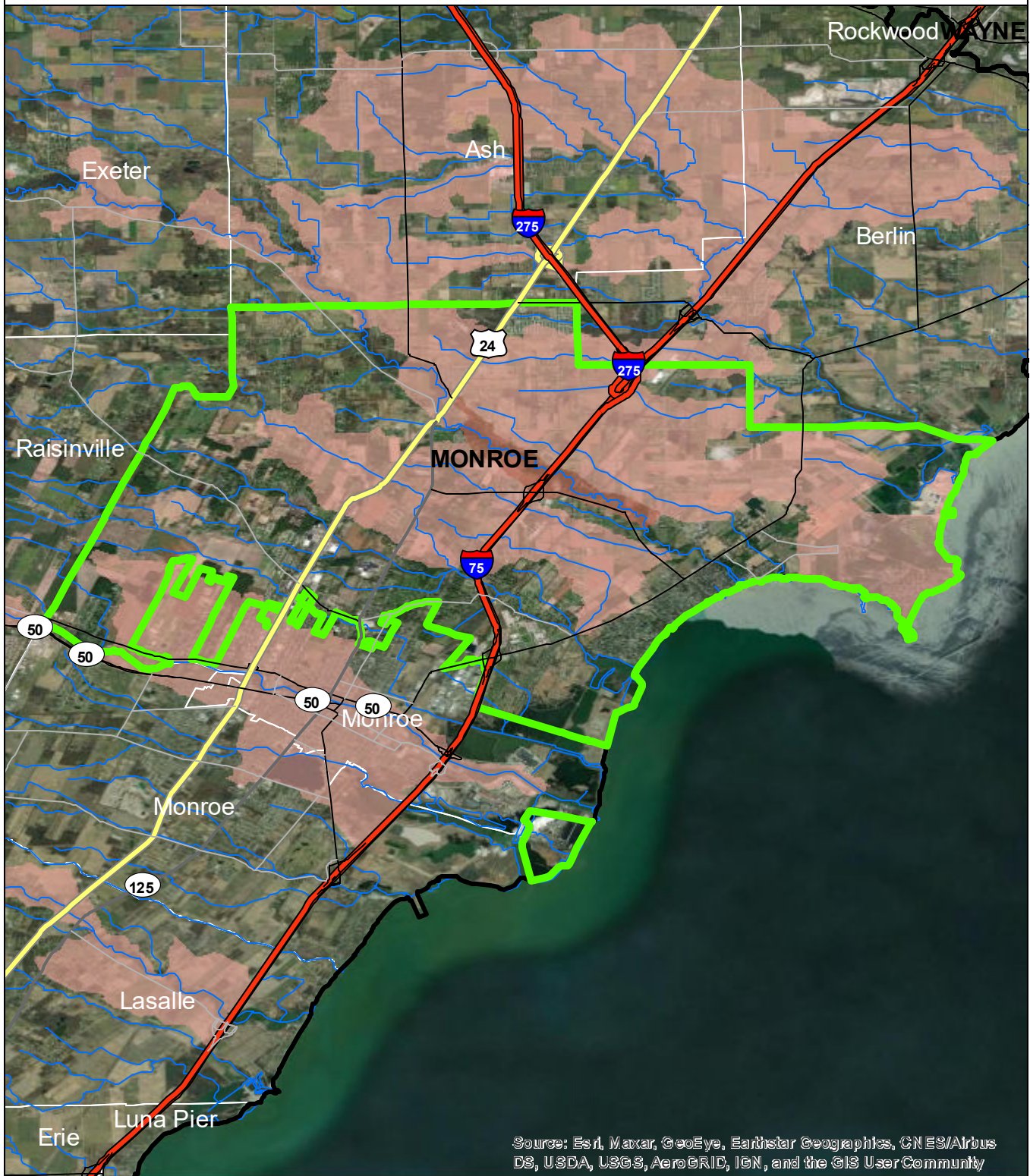


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN ES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<ul style="list-style-type: none"> <li><span style="border: 2px solid green; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Freedom Township</li> <li><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Counties</li> <li><span style="border-bottom: 1px solid blue; display: inline-block; width: 20px; margin-right: 5px;"></span> Rivers and Streams</li> <li><span style="border: 1px solid gray; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Townships &amp; Cities</li> </ul>	<p><b>Sediment Loading Risk</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #f8cbad; margin-right: 5px;"></span> low</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e377c2; margin-right: 5px;"></span> moderate</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #17becf; margin-right: 5px;"></span> high</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #1f77b4; margin-right: 5px;"></span> very high</li> </ul>	<p>0      1      2 Miles</p>	<p>N</p>
	<p><u>Data Sources</u>                  State of Michigan: Counties, Townships &amp; Cities                  USGS: Sediment Loading Risk                  Map produced by the Institute of Water Research - Michigan State University</p>		



# Frenchtown Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Frenchtown Township
- Counties
- Rivers and Streams
- Townships & Cities

**Sediment Loading Risk**

<span style="display: inline-block; width: 15px; height: 10px; background-color: #f0f0f0; border: 1px solid #ccc;"></span>	low
<span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0e0; border: 1px solid #ccc;"></span>	moderate
<span style="display: inline-block; width: 15px; height: 10px; background-color: #d0d0d0; border: 1px solid #ccc;"></span>	high
<span style="display: inline-block; width: 15px; height: 10px; background-color: #c0c0c0; border: 1px solid #ccc;"></span>	very high

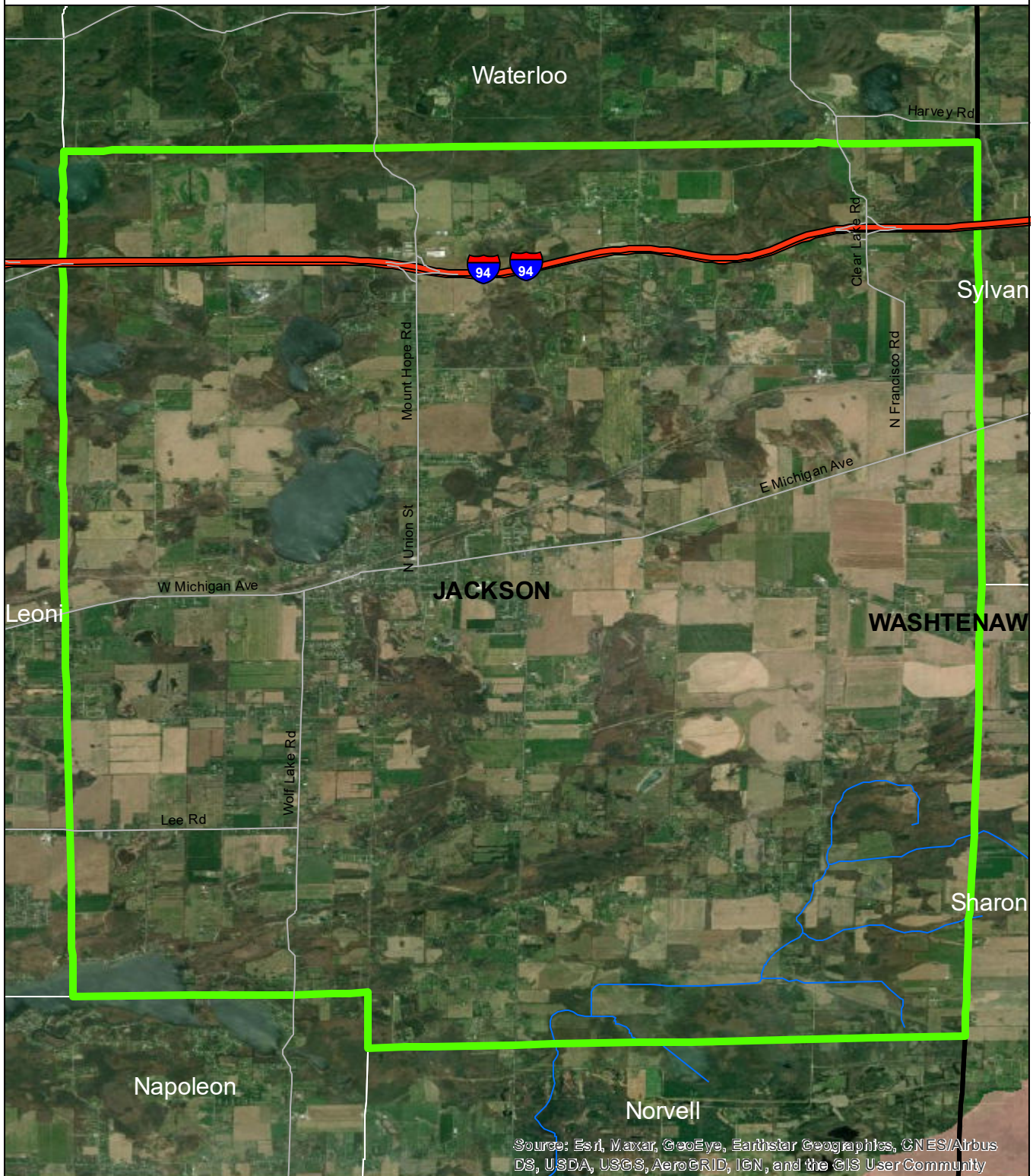
**0 1 2 Miles**

**N**





**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University

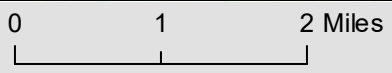
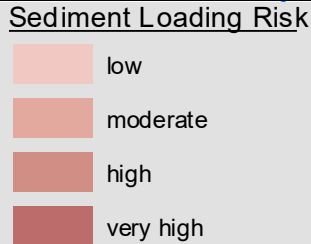


# Grass Lake Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Grass Lake Township
-  Counties
-  Rivers and Streams
-  Townships & Cities



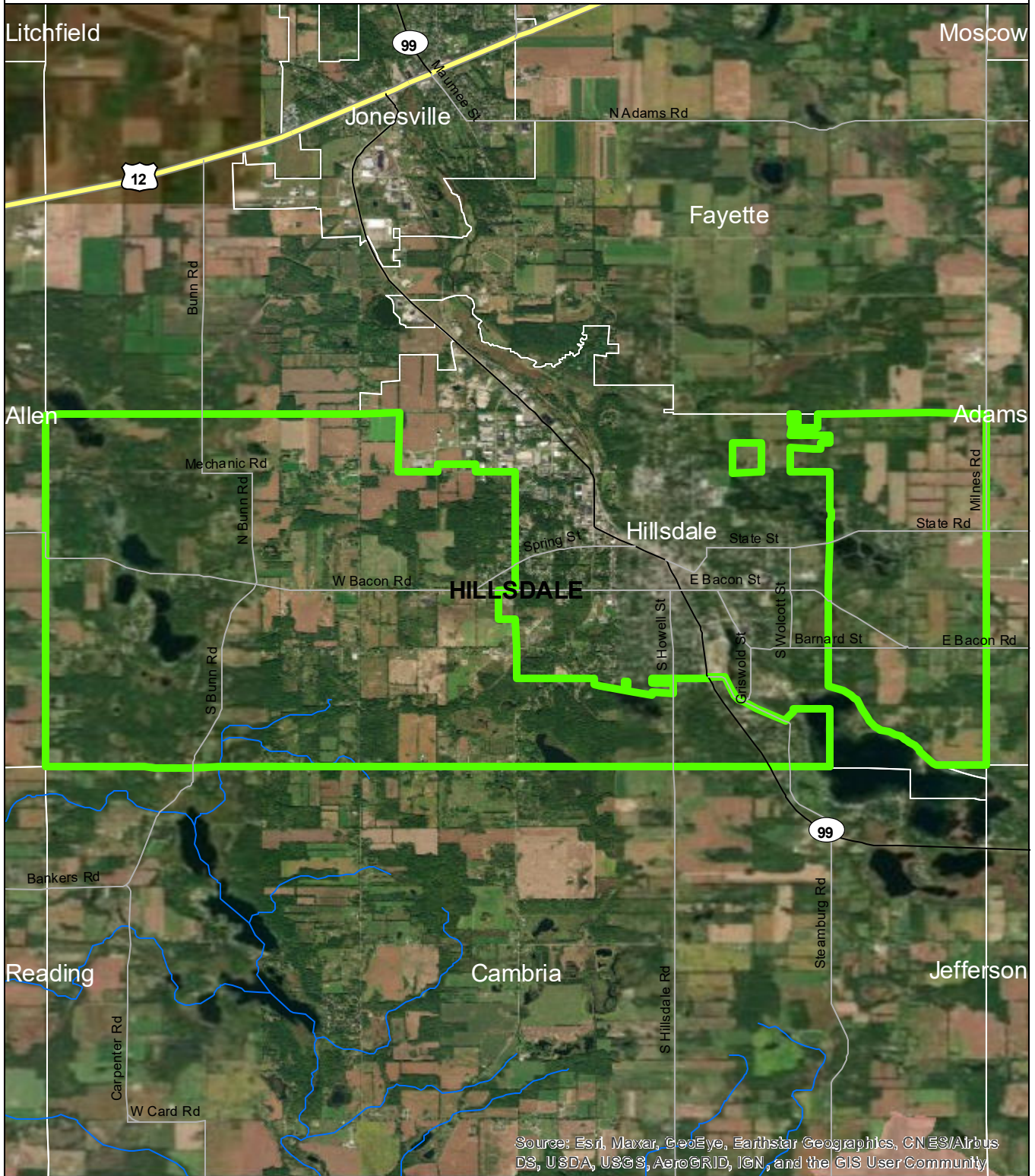
Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University











# Hillsdale Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Hillsdale Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

### Sediment Loading Risk

-  low
-  moderate
-  high
-  very high



### Data Sources

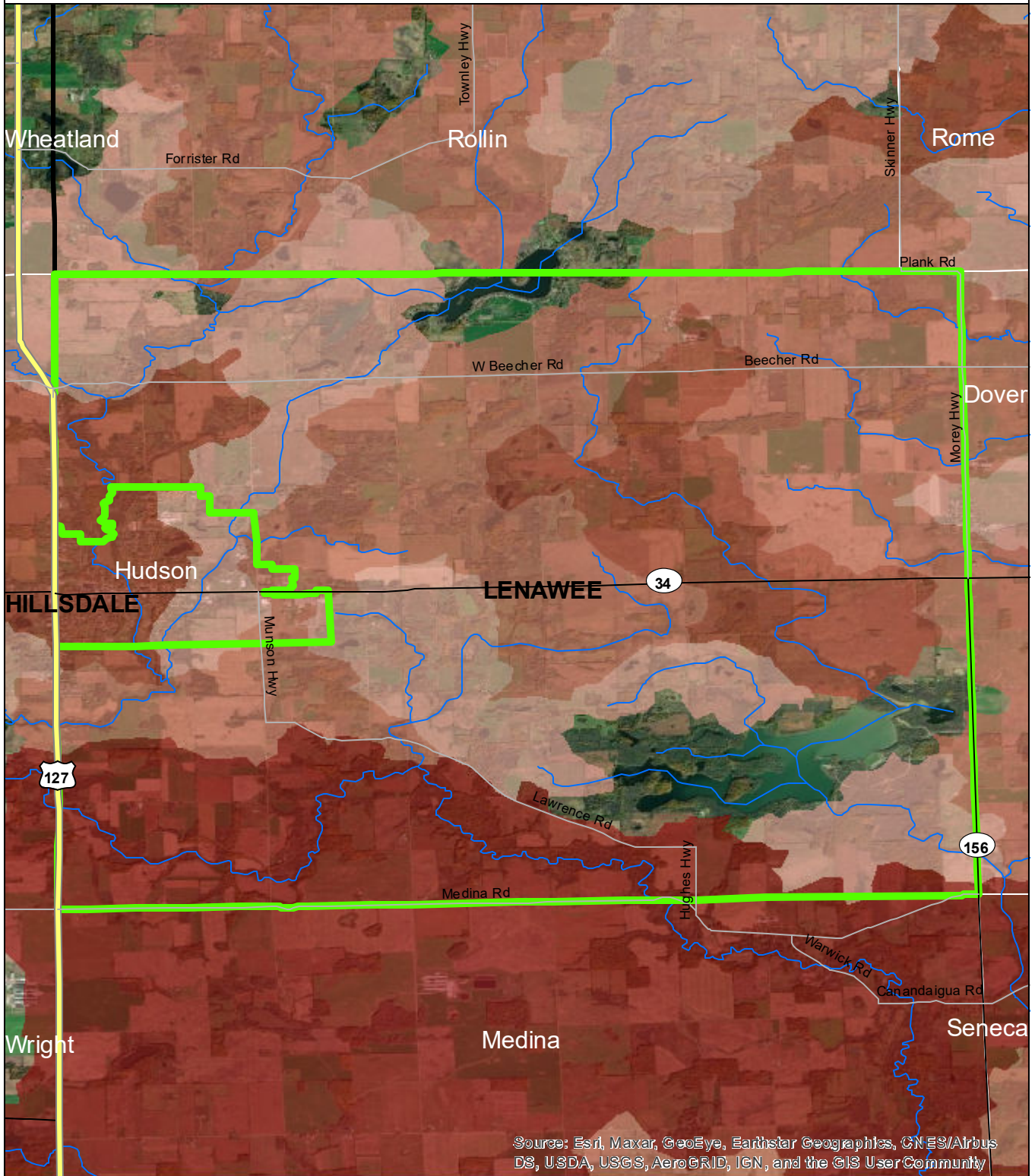
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University



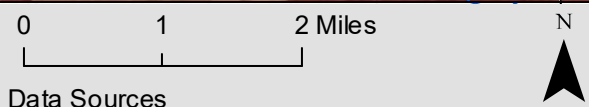
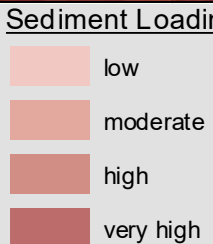


# Hudson Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

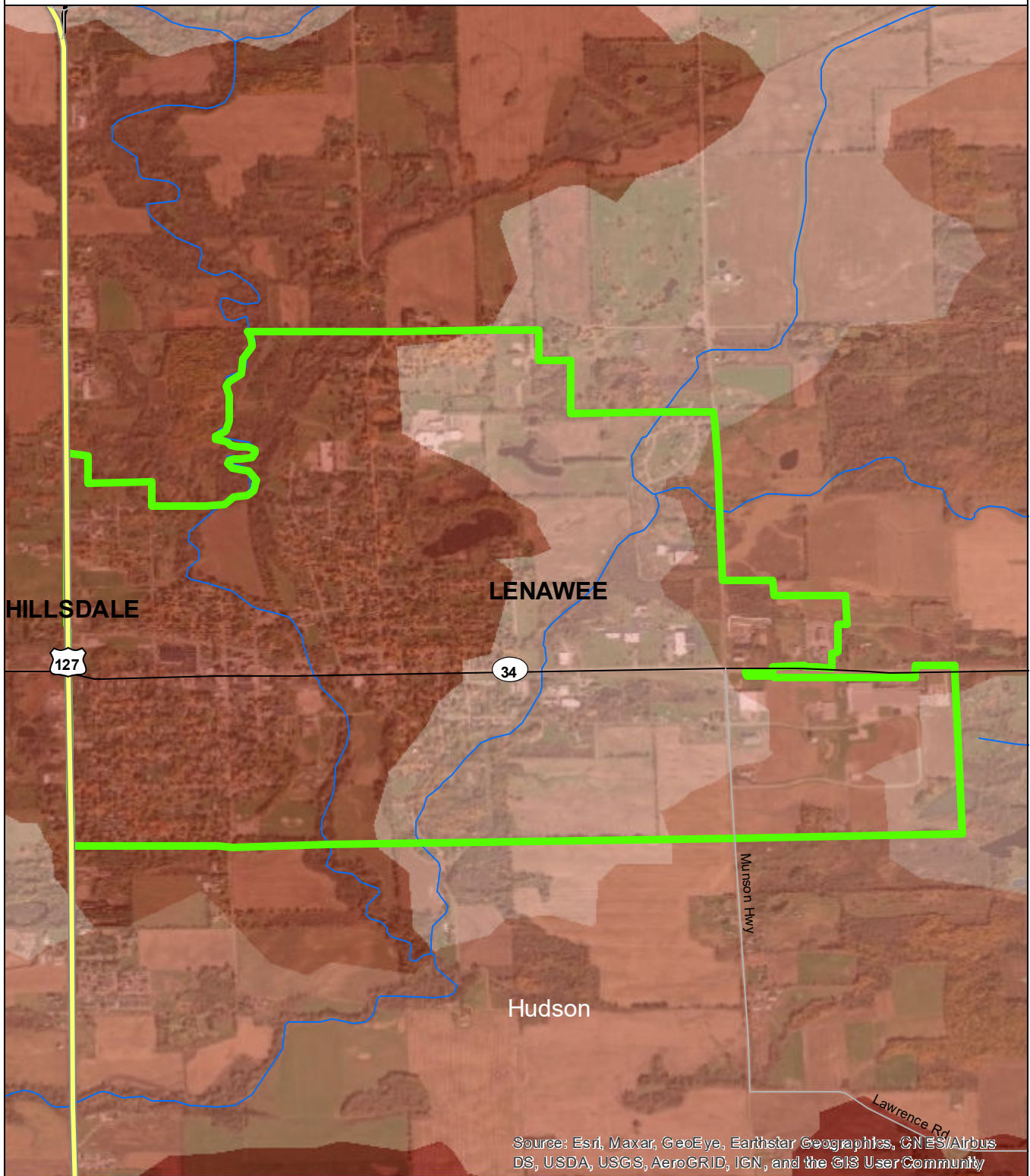
- Hudson Township
- Counties
- Rivers and Streams
- Townships & Cities




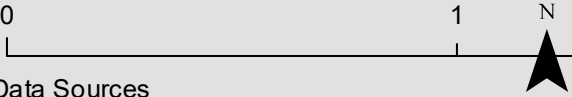







Data Sources  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# City of Hudson

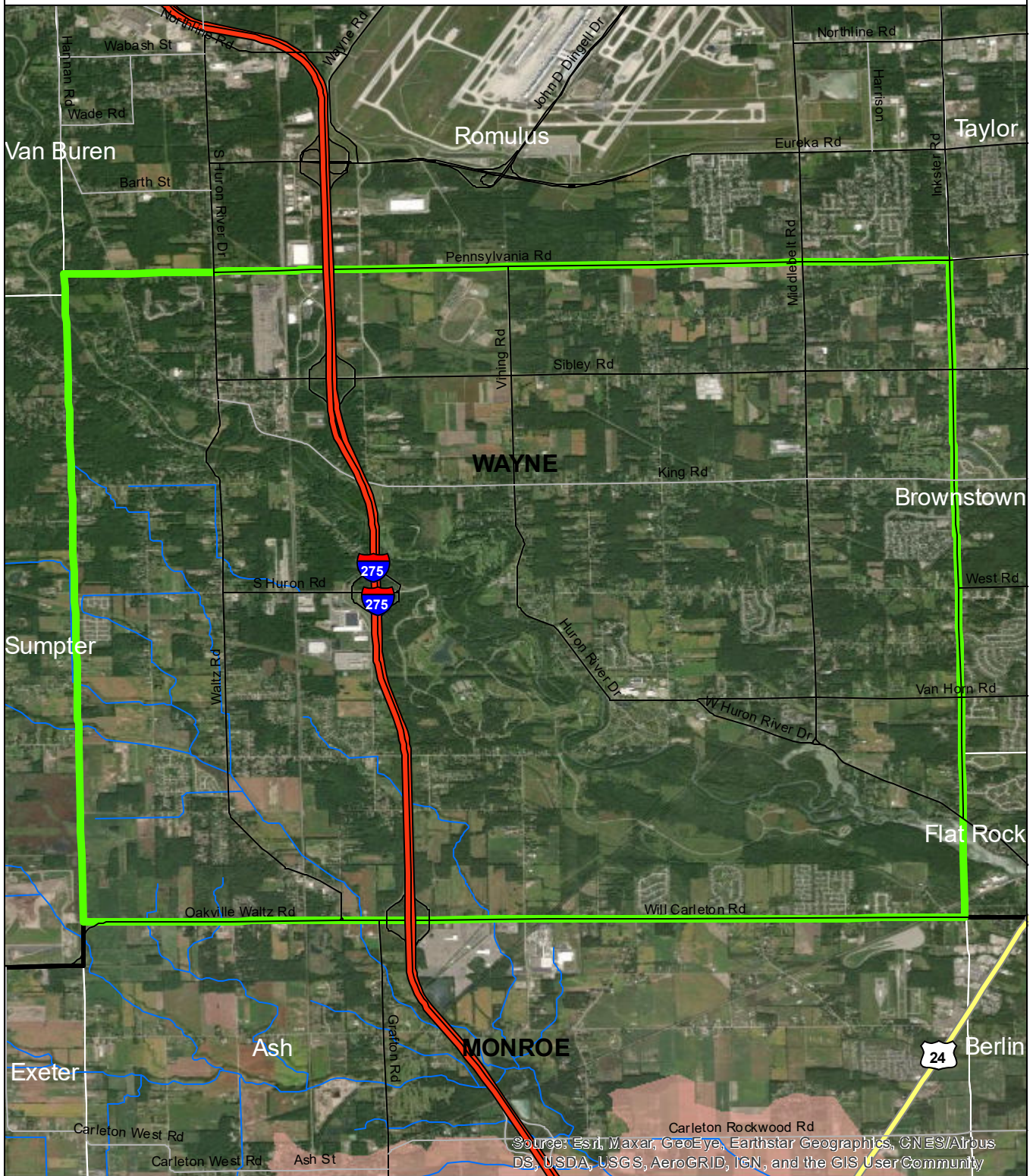


	City of Hudson	<b>Sediment Loading Risk</b>	0	1	N
	Counties		low		
	Rivers and Streams		moderate		
	Townships & Cities		high		
			very high		











**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Huron Township

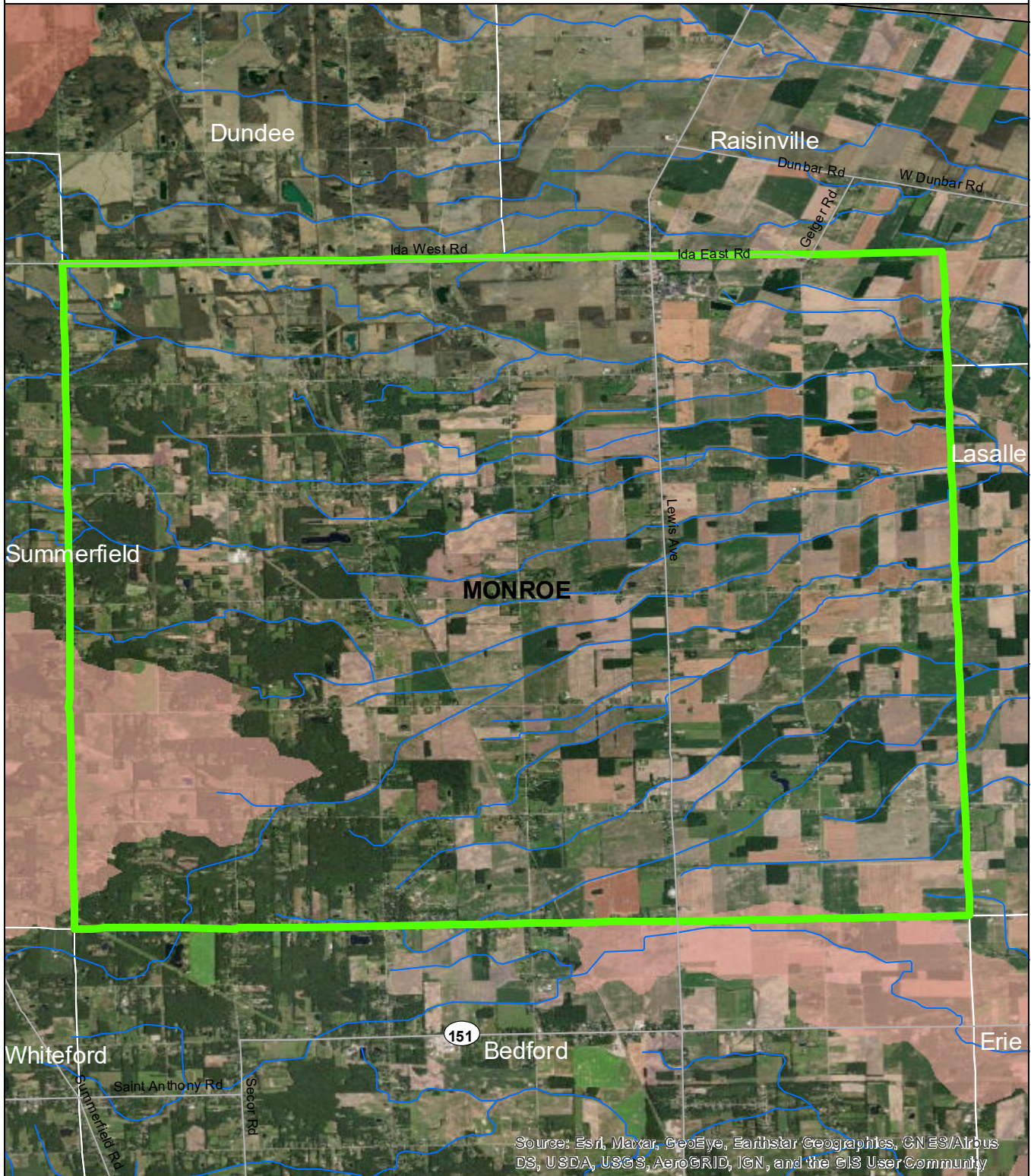


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN ES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

 Huron Township  Counties  Rivers and Streams  Townships & Cities	<b>Sediment Loading Risk</b>  low  moderate  high  very high	0      1      2 Miles 	 N
	<b>Data Sources</b> State of Michigan: Counties, Townships & Cities USGS: Sediment Loading Risk Map produced by the Institute of Water Research - Michigan State University		



# Ida Township

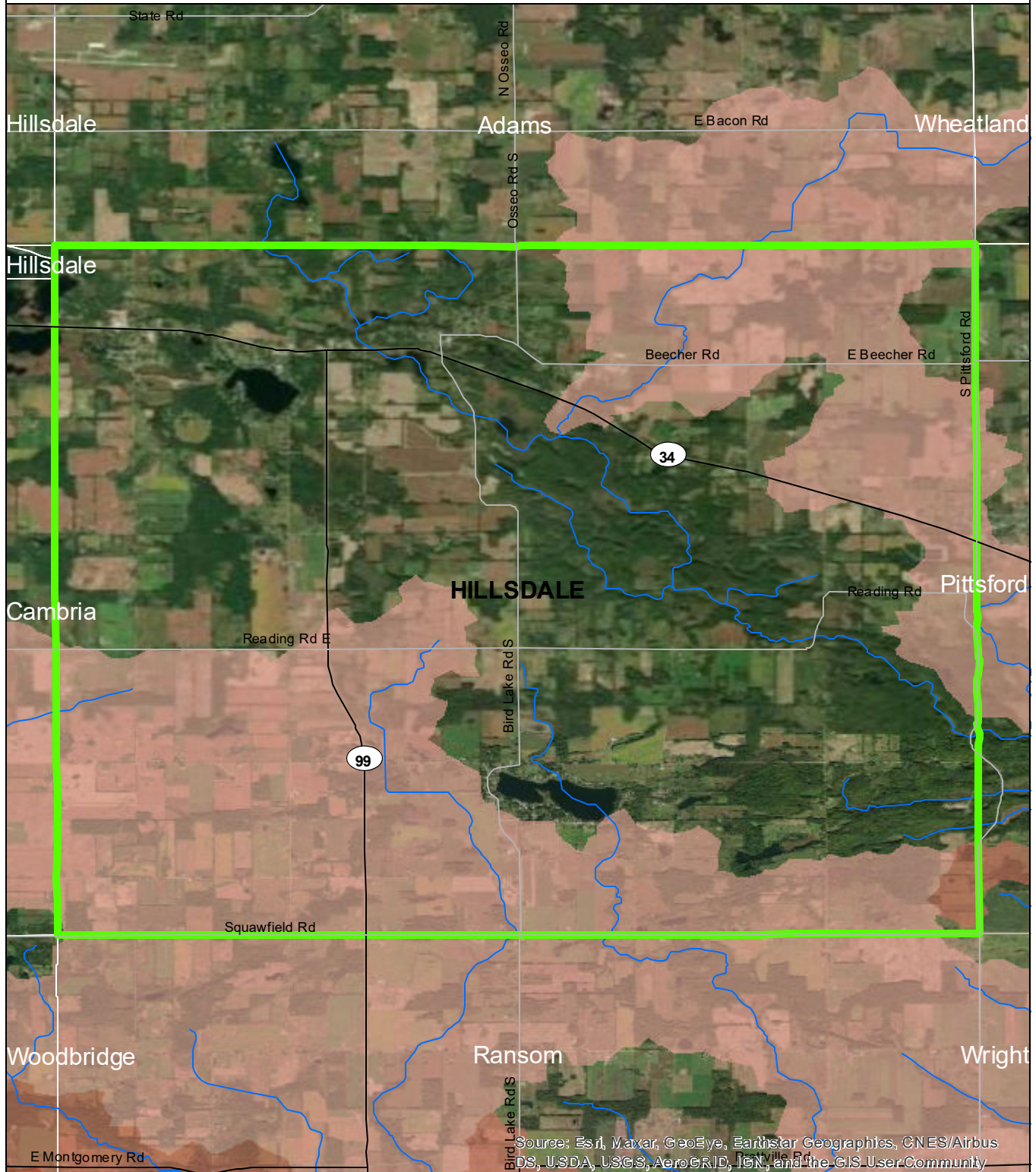


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Ida Township	<b>Sediment Loading Risk</b>	0      1      2 Miles	N
	Counties			
	Rivers and Streams		<u>Data Sources</u>	State of Michigan: Counties, Townships & Cities
	Townships & Cities		USGS: Sediment Loading Risk	Map produced by the Institute of Water Research -
			Michigan State University	
		low moderate high very high		

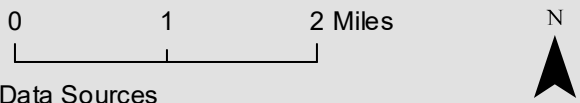
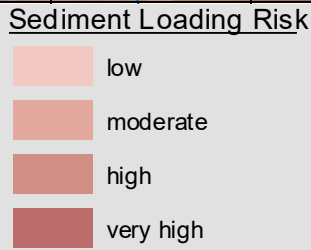


# Jefferson Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

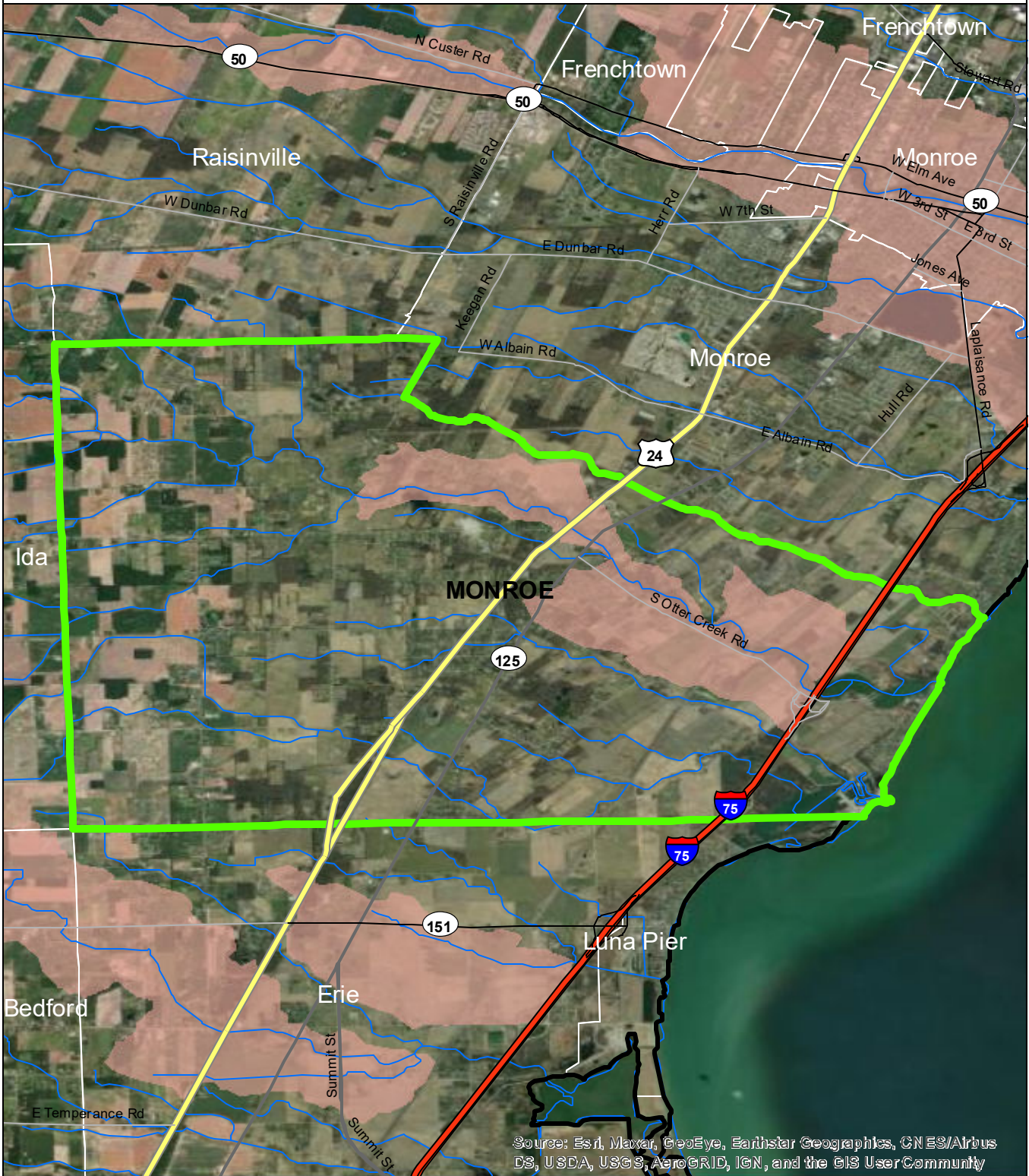
- Jefferson Township
- Counties
- Rivers and Streams
- Townships & Cities



Data Sources  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Lasalle Township

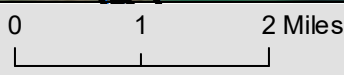


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

- Lasalle Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



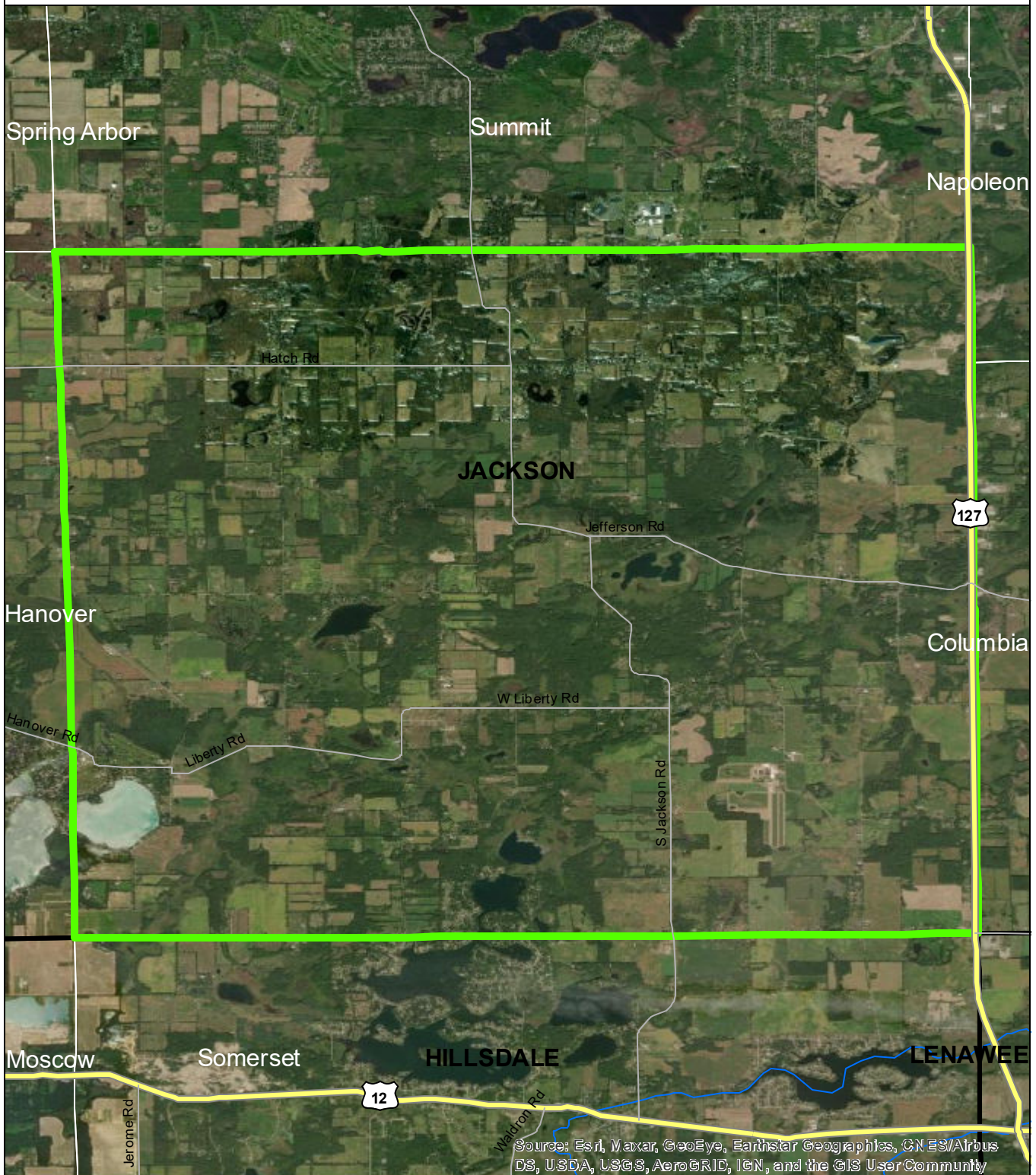
### Data Sources




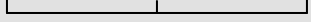






State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University





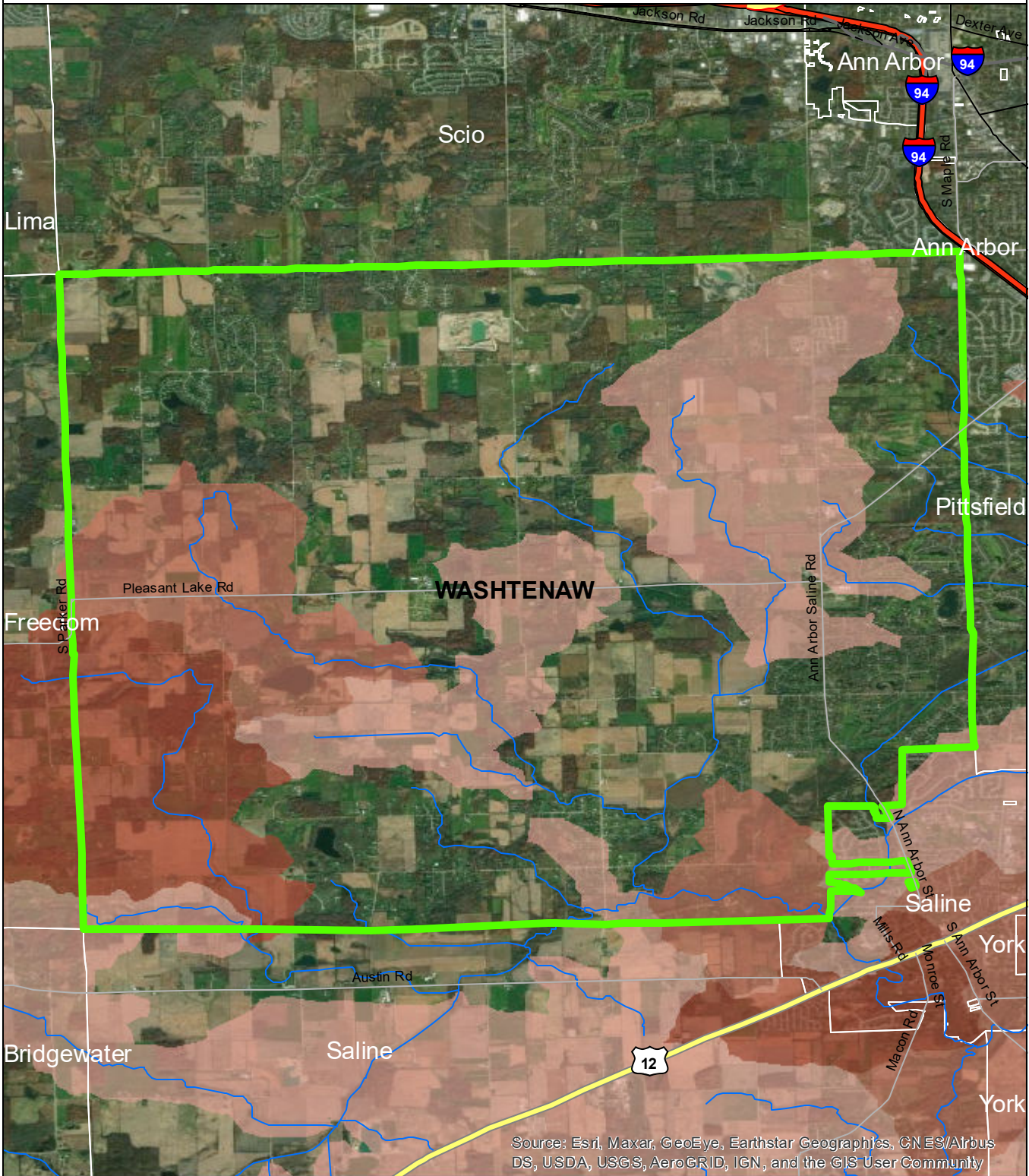
# Liberty Township



	Liberty Township	<b>Sediment Loading Risk</b>	0	1	2 Miles	N	
	Counties		low	 <b>Data Sources</b> State of Michigan: Counties, Townships & Cities USGS: Sediment Loading Risk Map produced by the Institute of Water Research - Michigan State University			
	Rivers and Streams		moderate				
	Townships & Cities		high				
			very high				



# Lodi Township

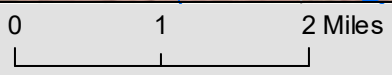


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN ES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Lodi Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



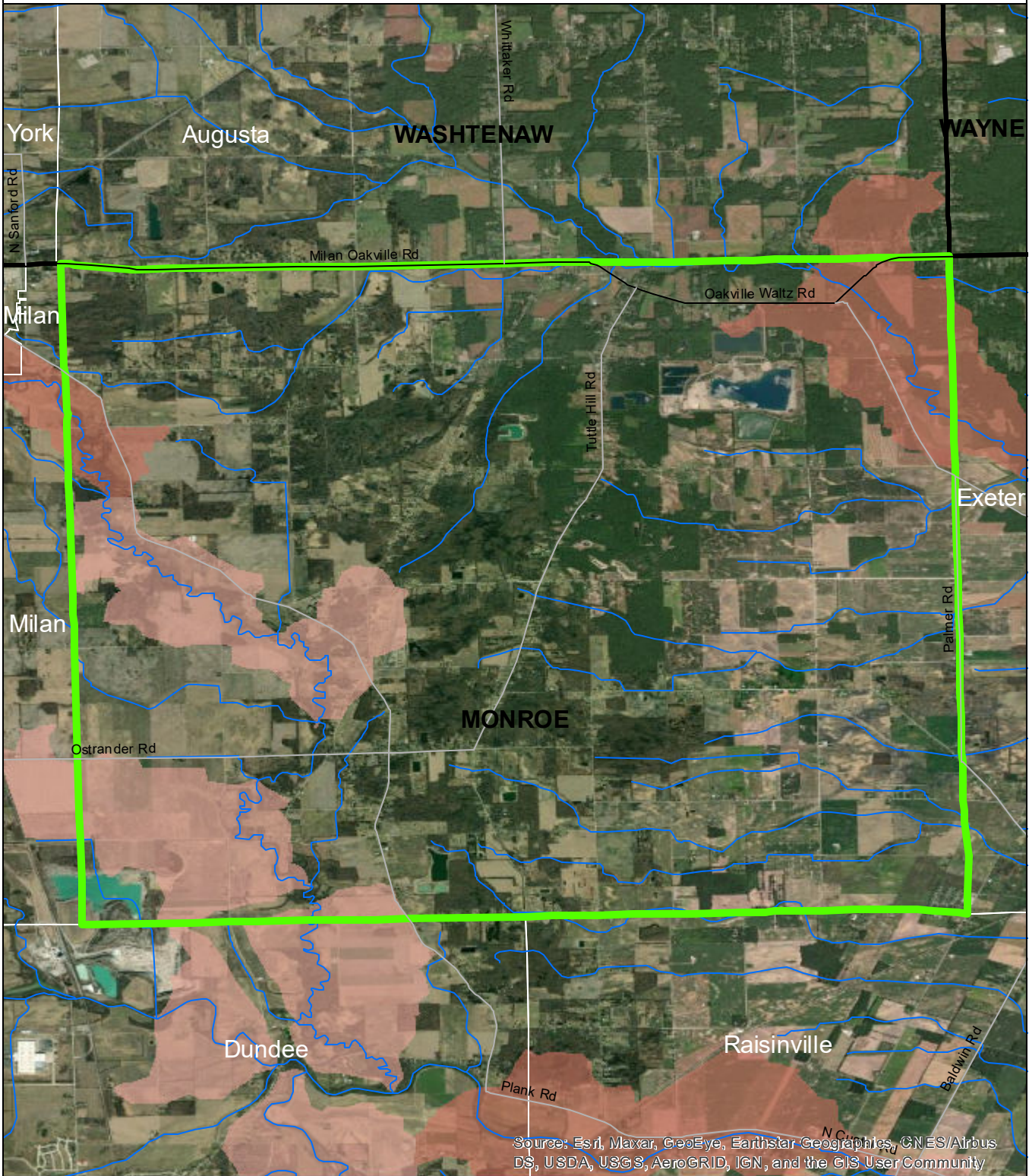
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University





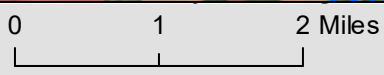
# London Township



- London Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high

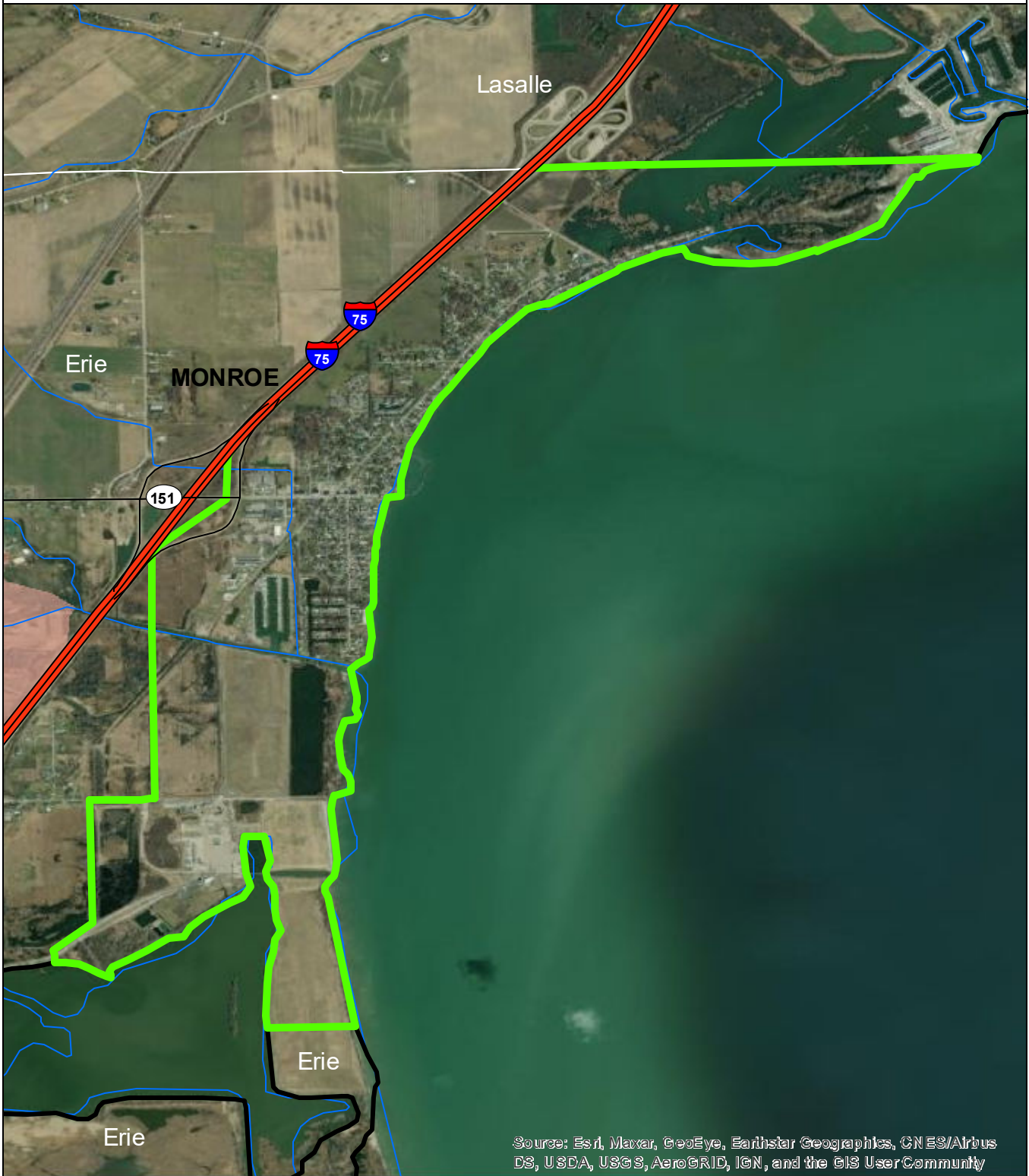


### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# City of Luna Pier



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

- City of Luna Pier
- Counties
- Rivers and Streams
- Townships & Cities

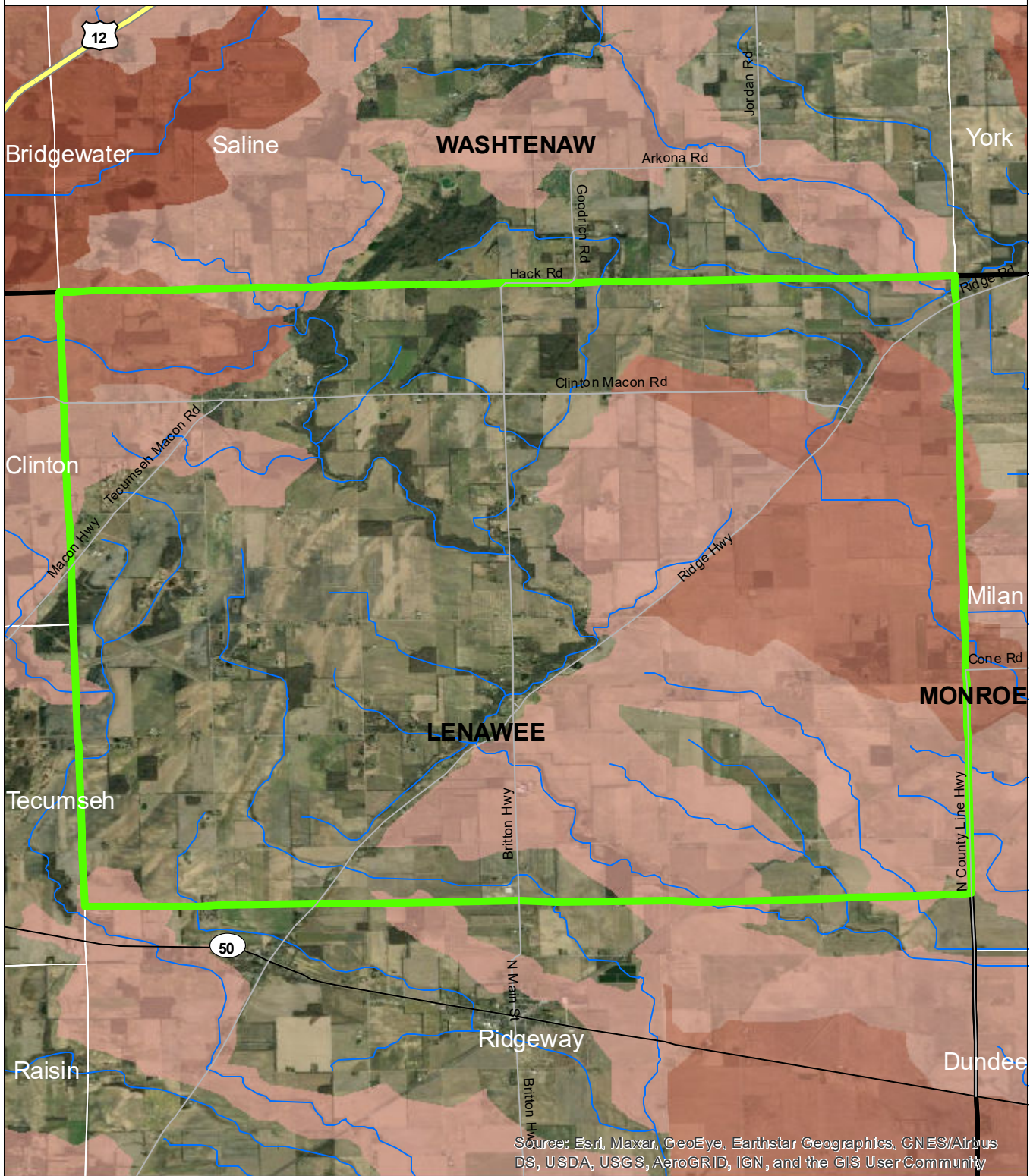
- Sediment Loading Risk**
- low
  - moderate
  - high
  - very high



**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Macon Township

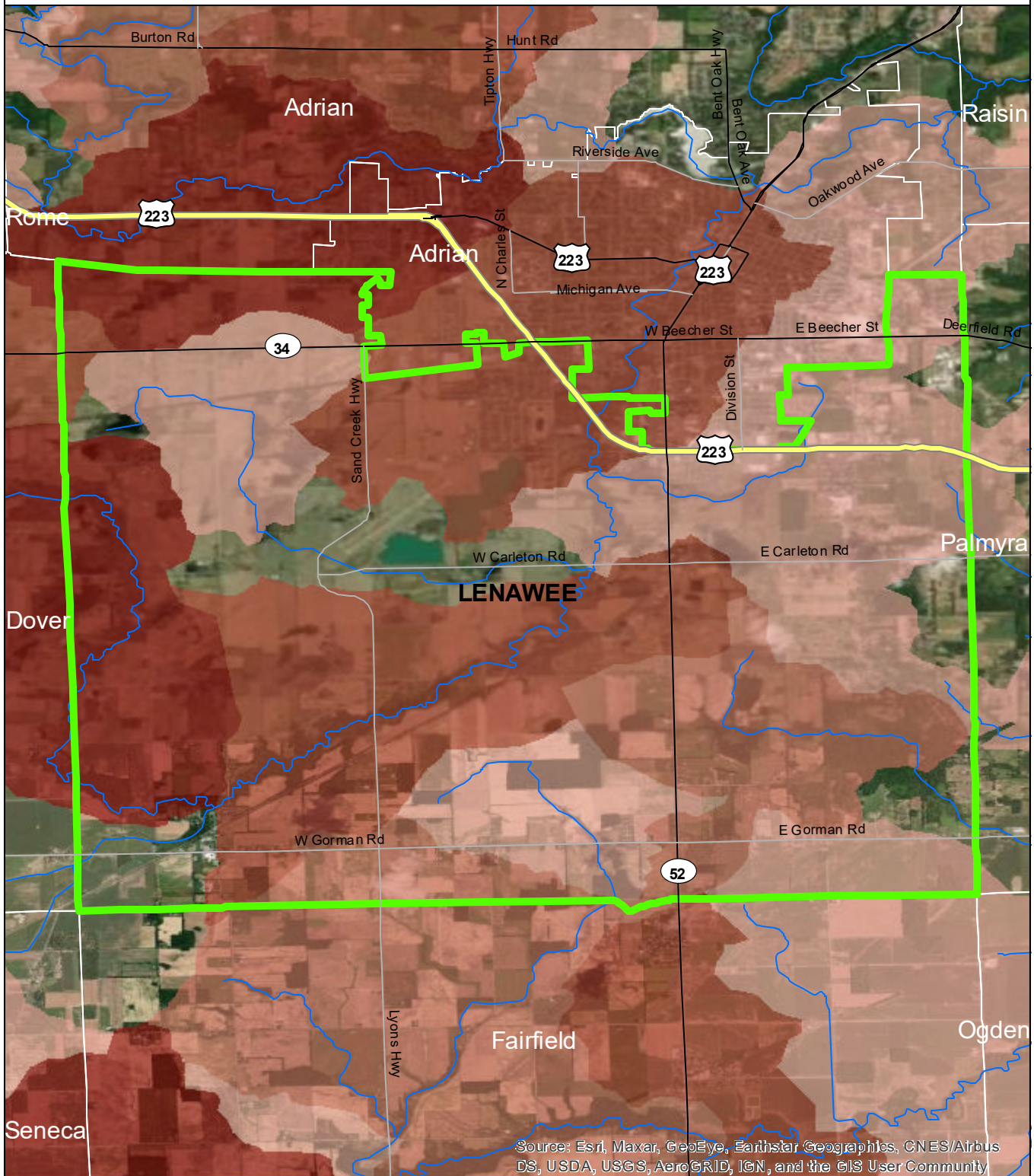


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<ul style="list-style-type: none"> <li><span style="border: 2px solid green; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Macon Township</li> <li><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Counties</li> <li><span style="border-bottom: 1px solid blue; display: inline-block; width: 20px; margin-right: 5px;"></span> Rivers and Streams</li> <li><span style="border: 1px solid gray; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Townships &amp; Cities</li> </ul>	<p><b>Sediment Loading Risk</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #f8d7da; border: 1px solid #c6c8ca; margin-right: 5px;"></span> low</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #f5c6cb; border: 1px solid #c6c8ca; margin-right: 5px;"></span> moderate</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; border: 1px solid #c6c8ca; margin-right: 5px;"></span> high</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #c63838; border: 1px solid #c6c8ca; margin-right: 5px;"></span> very high</li> </ul>	<p>0      1      2 Miles</p> <p><u>Data Sources</u>          State of Michigan: Counties, Townships &amp; Cities          USGS: Sediment Loading Risk          Map produced by the Institute of Water Research - Michigan State University</p> <div style="text-align: right;"> <p>N</p> </div>
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# Madison Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Madison Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



### Data Sources

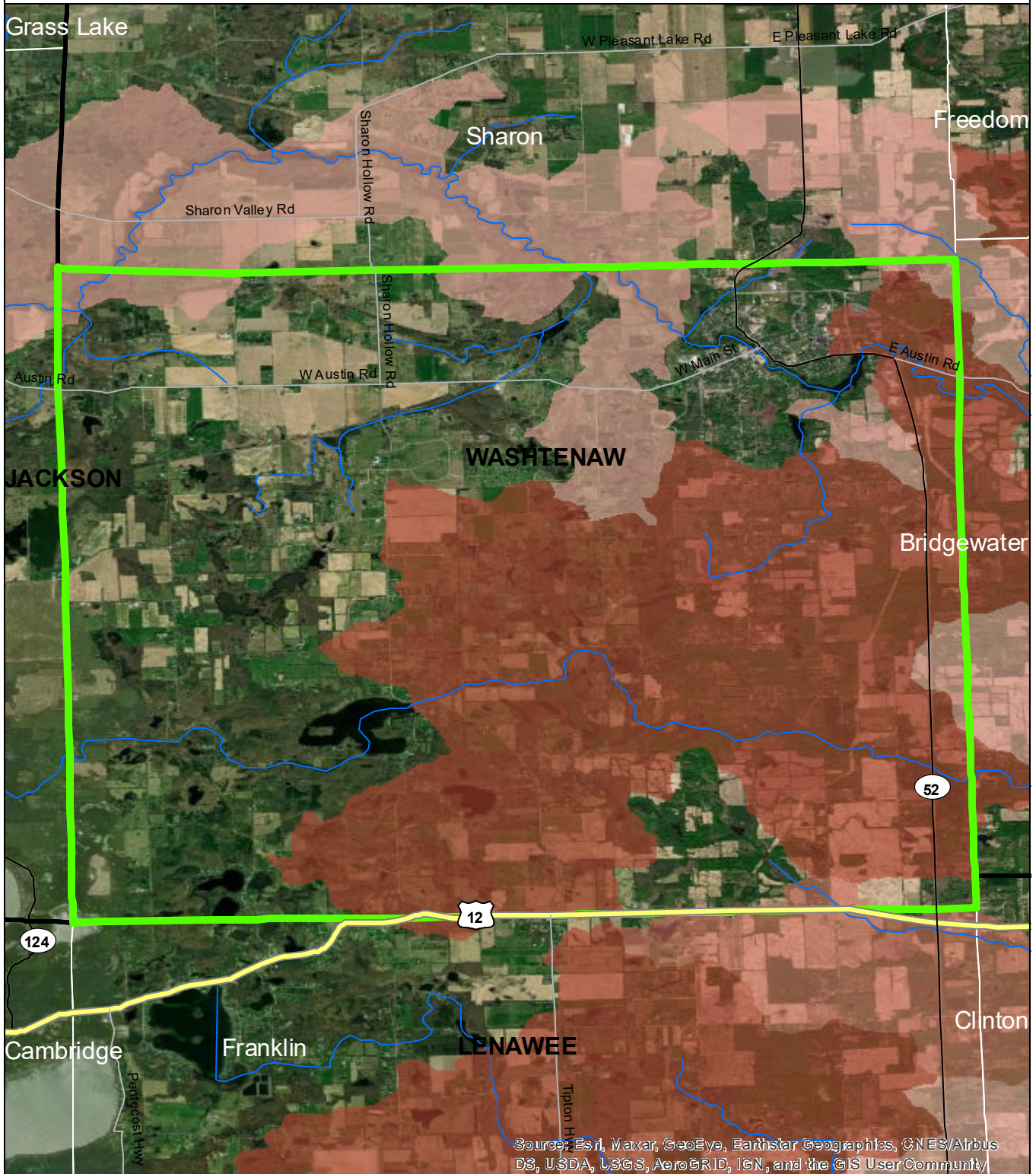
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University



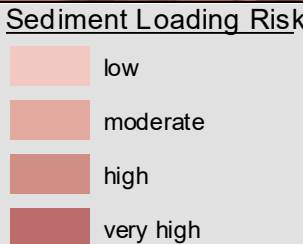


# Manchester Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Manchester Township
- Counties
- Rivers and Streams
- Townships & Cities



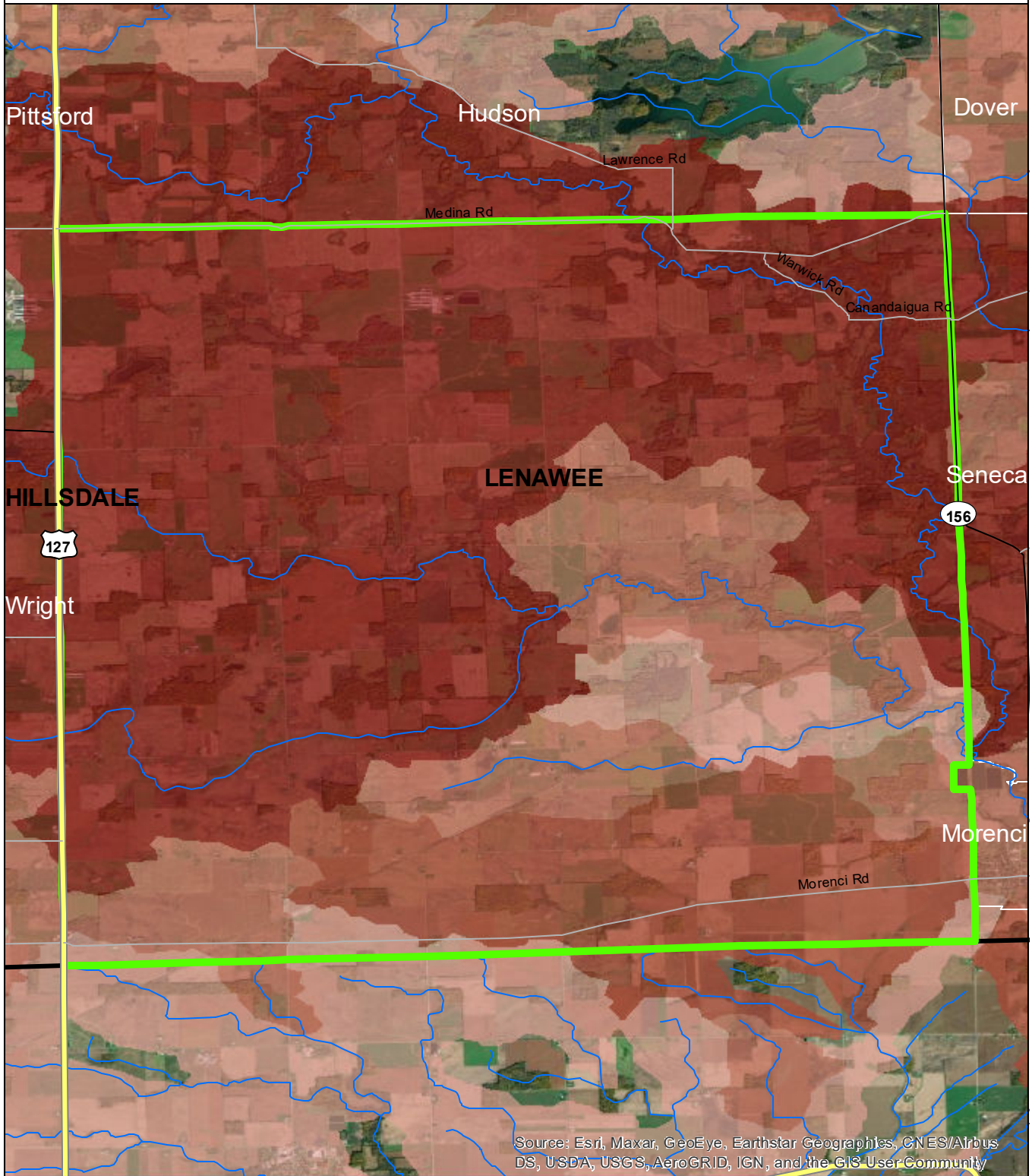
Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



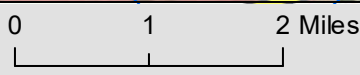
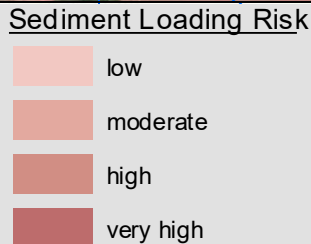


# Medina Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Medina Township
- Counties
- Rivers and Streams
- Townships & Cities

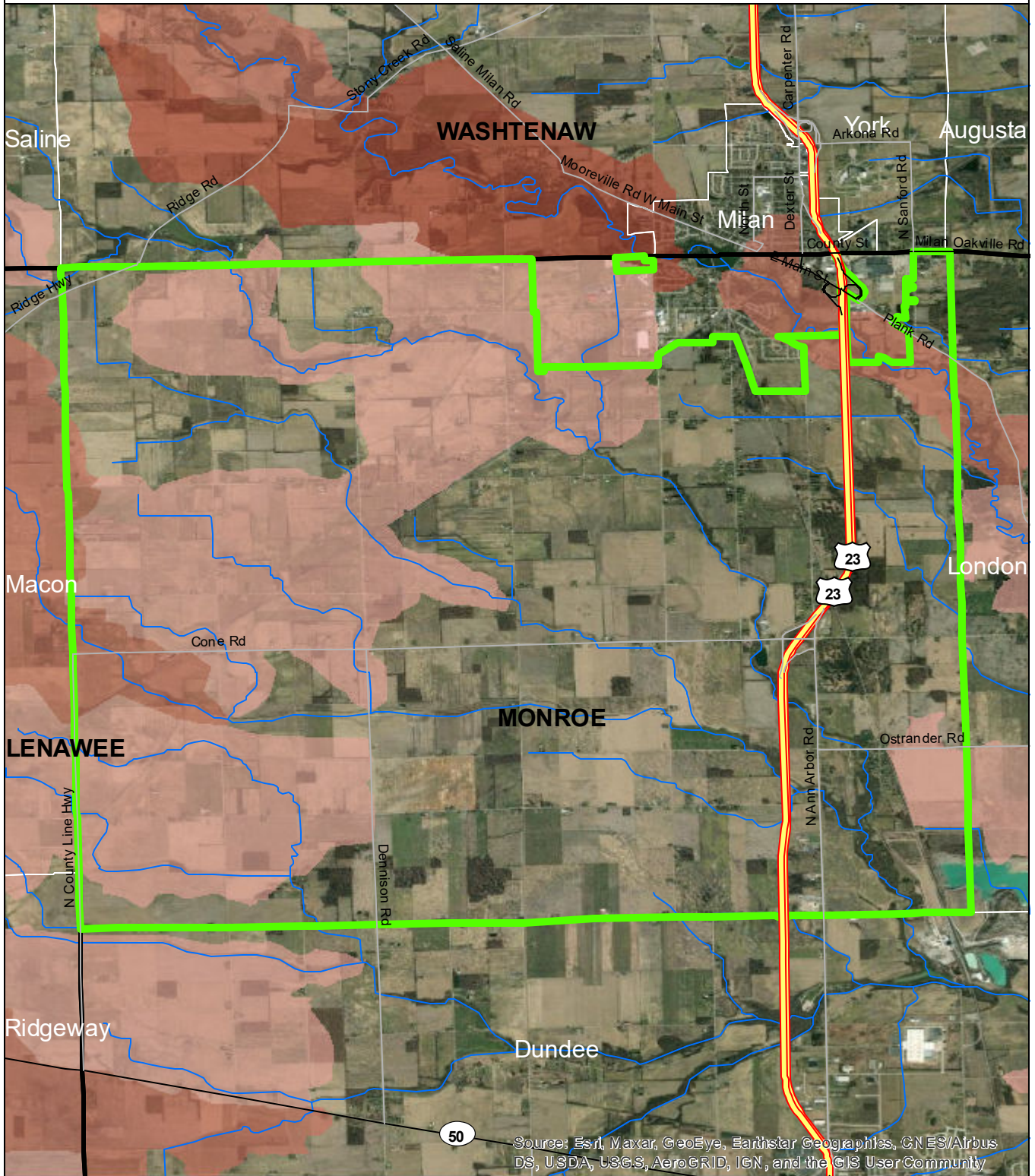


Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Milan Township

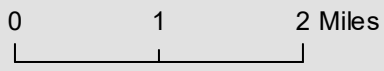


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Milan Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



### Data Sources

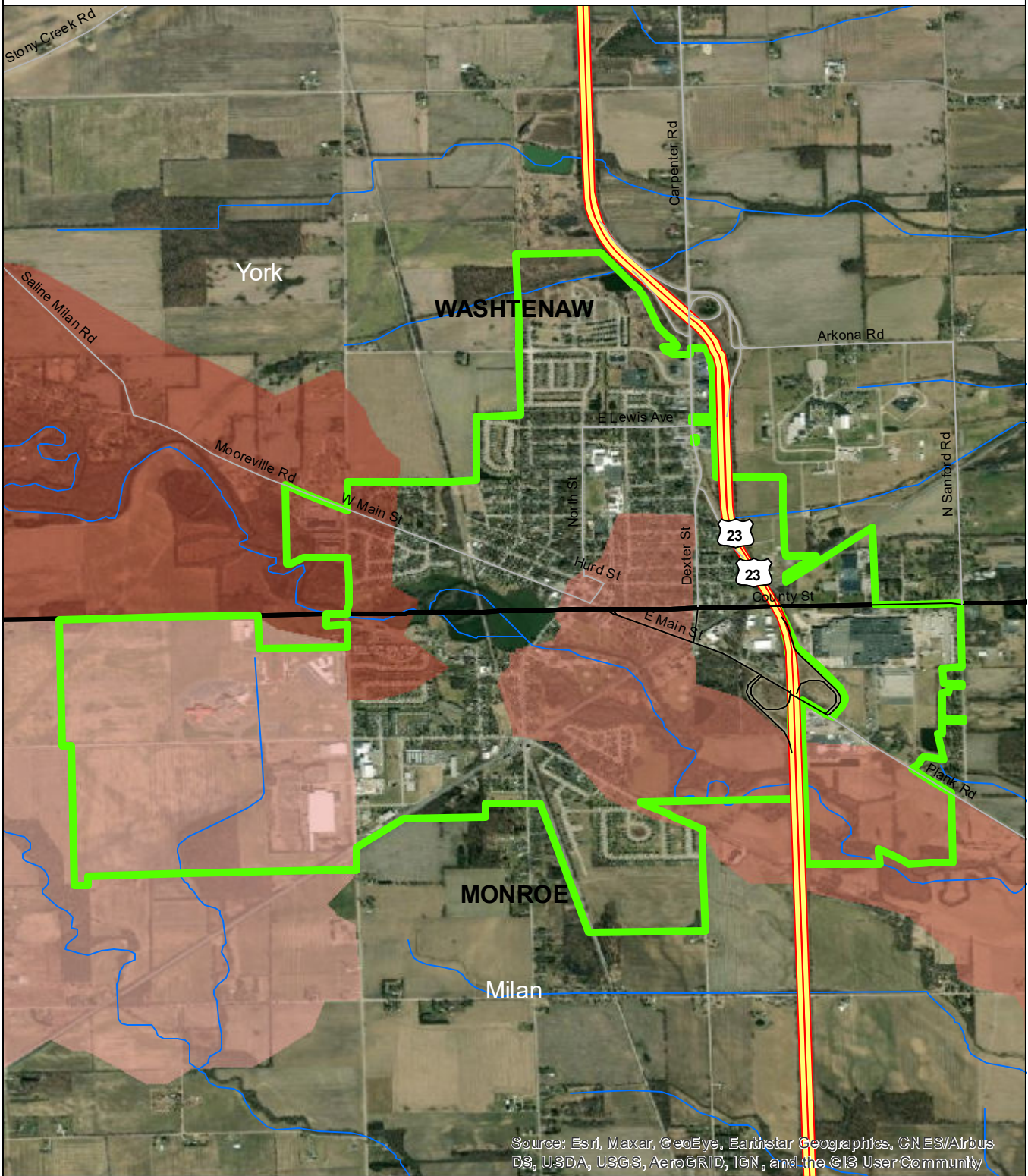
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University







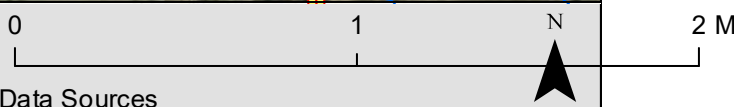
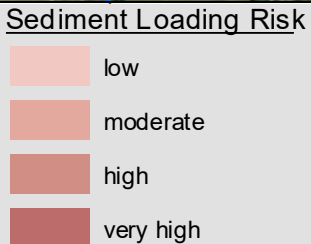


# City of Milan



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN ES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

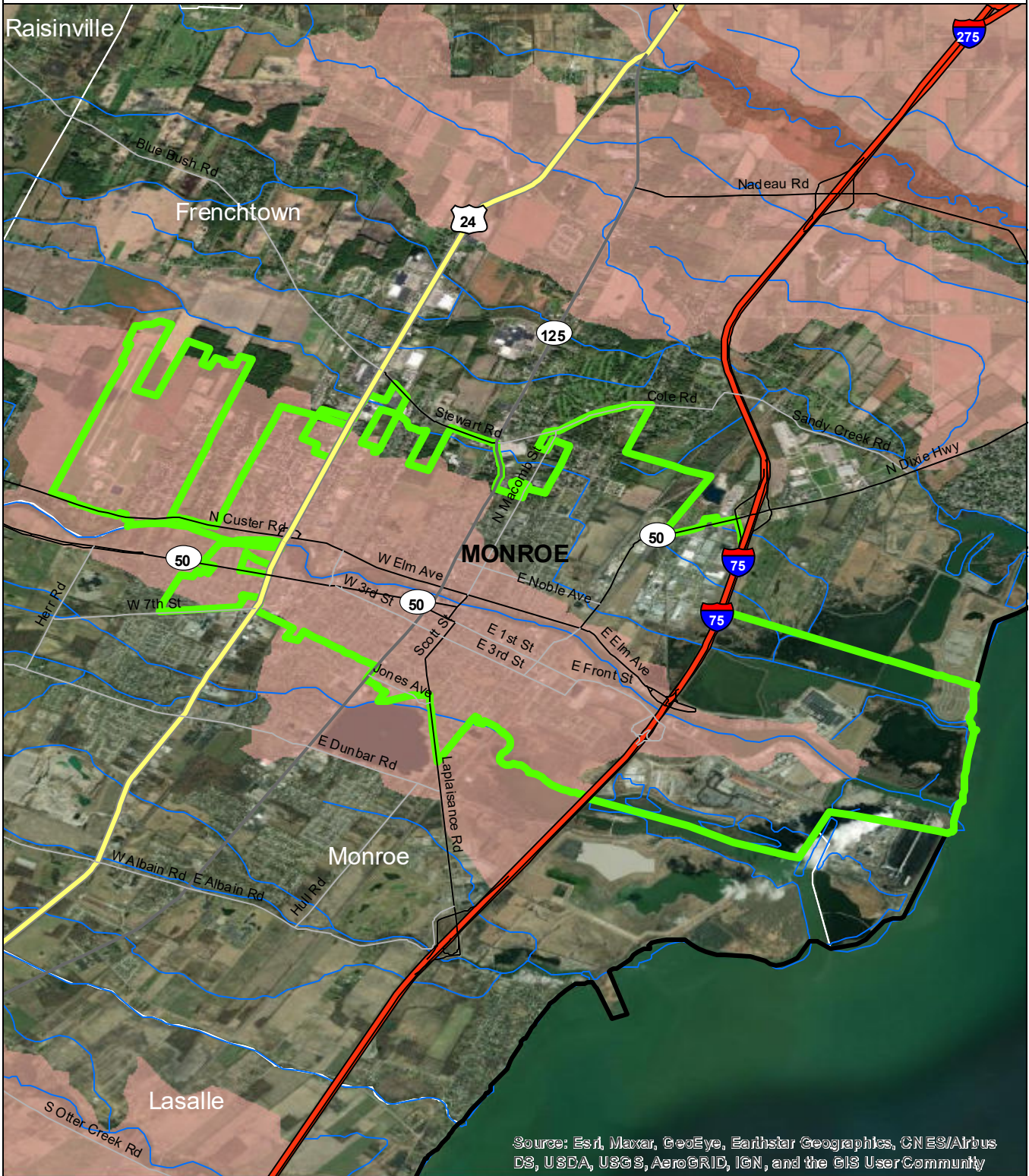
-  City of Milan
-  Counties
-  Rivers and Streams
-  Townships & Cities



**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# City of Monroe



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

- City of Monroe
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high

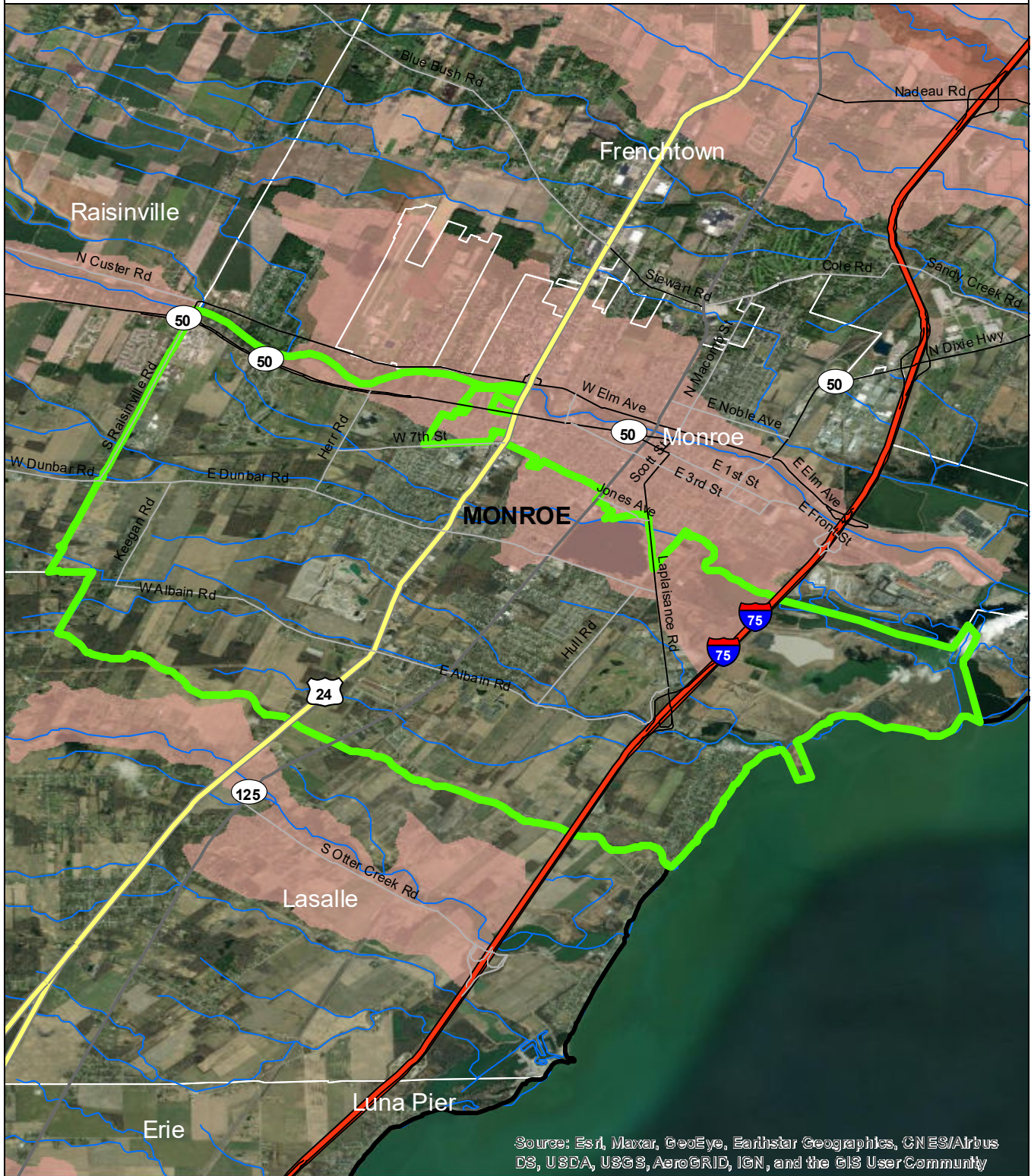


### Data Sources





State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University







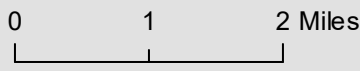
# Monroe Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

-  Monroe Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

- Sediment Loading Risk**
-  low
  -  moderate
  -  high
  -  very high

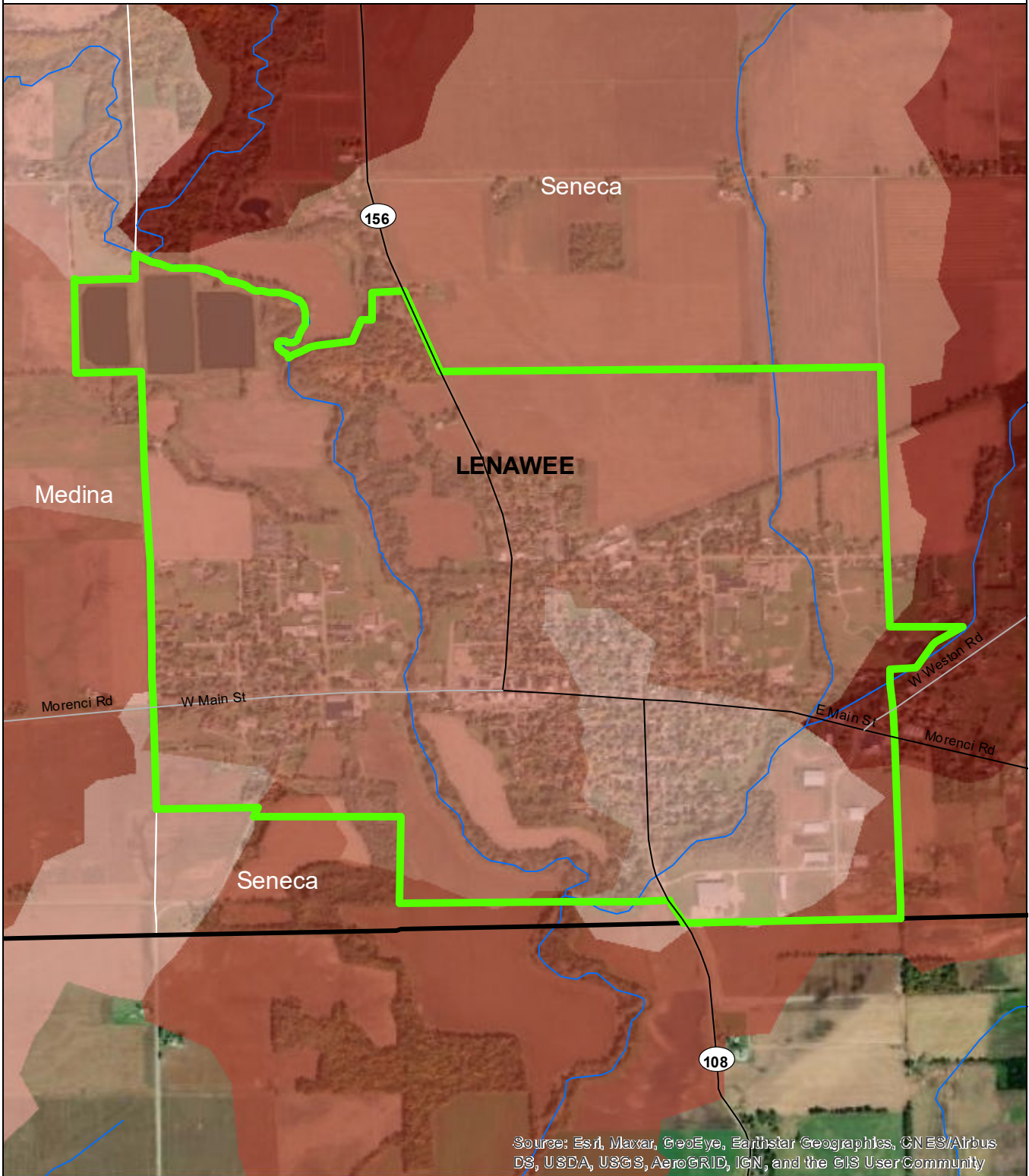


**Data Sources**

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# City of Morenci



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- City of Morenci
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high

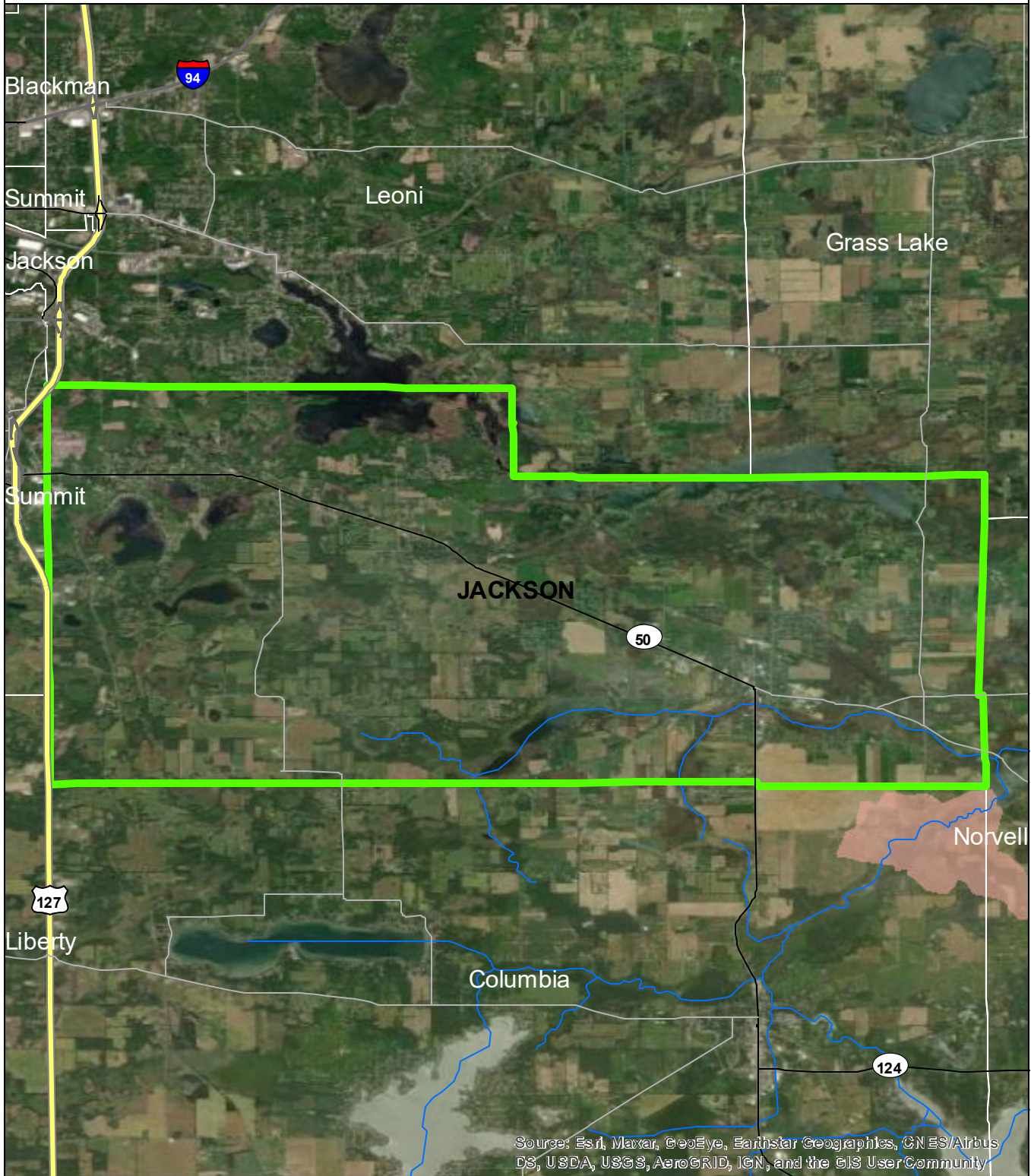


### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



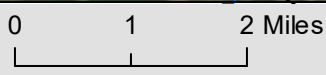
# Napoleon Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Napoleon Township
- Counties
- Rivers and Streams
- Townships & Cities

- Sediment Loading Risk**
- low
  - moderate
  - high
  - very high



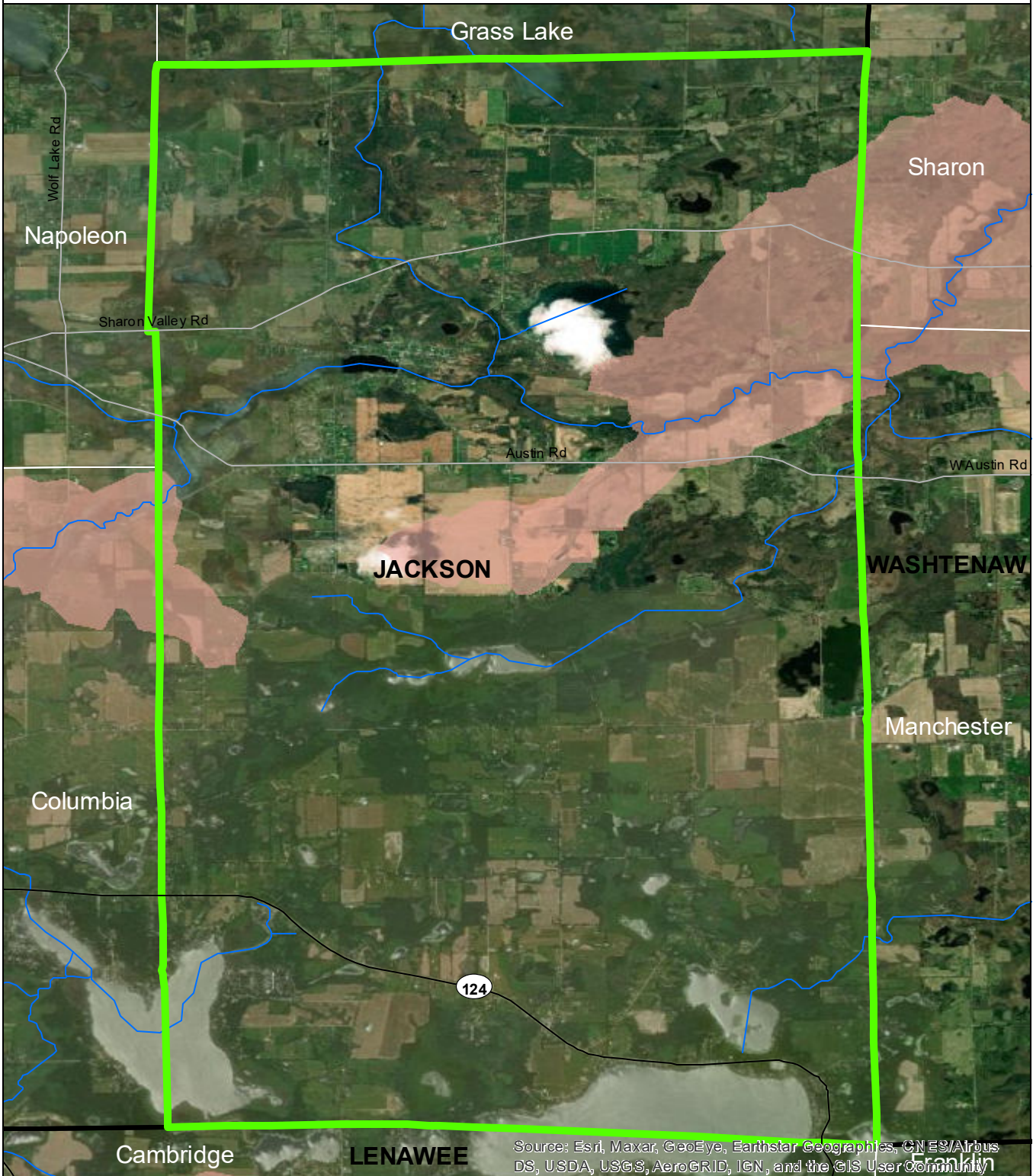
Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University





# Norvell Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Norvell Township
- Counties
- Rivers and Streams
- Townships & Cities

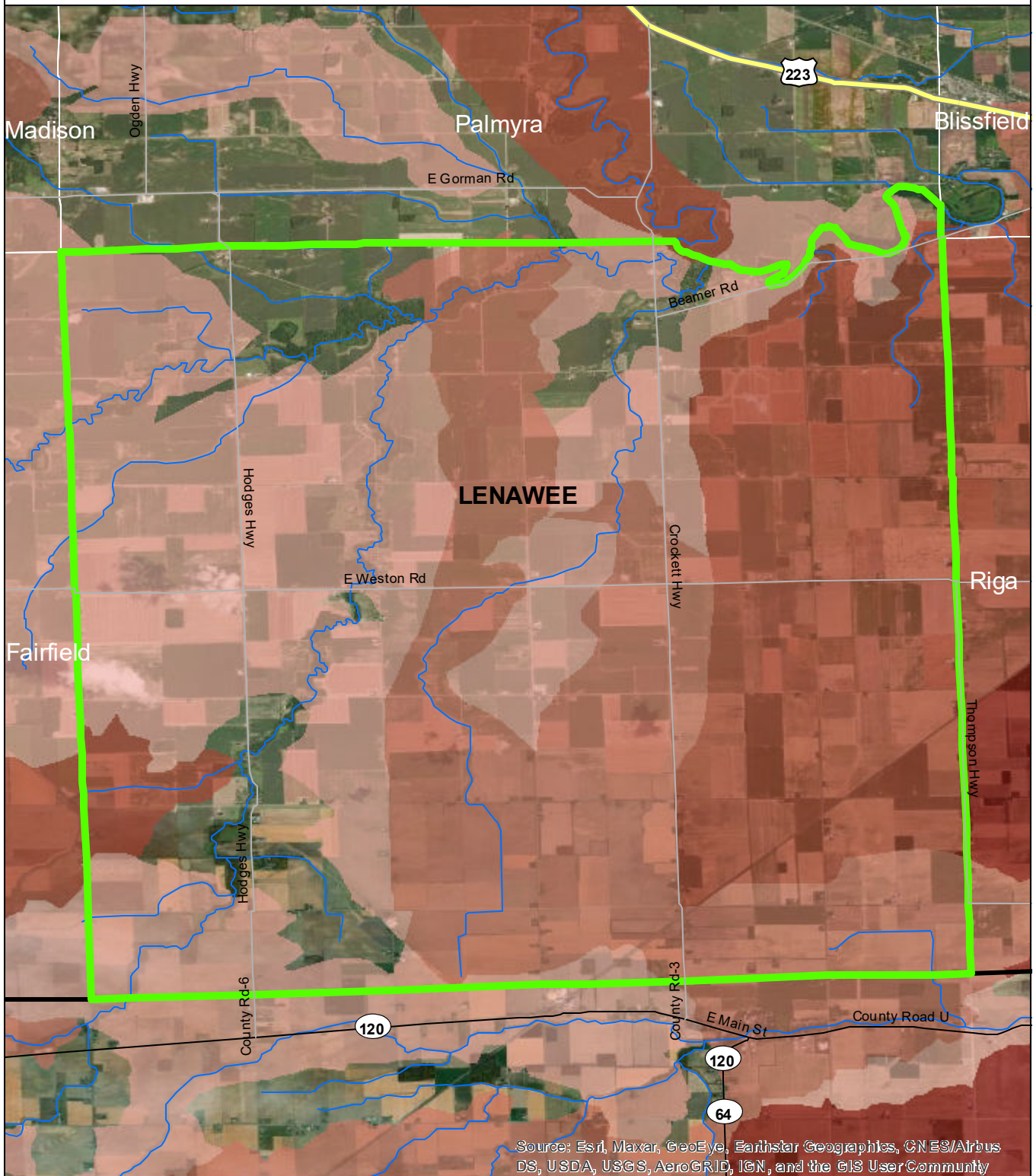
- Sediment Loading Risk**
- low
  - moderate
  - high
  - very high



**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Ogden Township

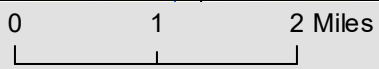


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Ogden Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



### Data Sources

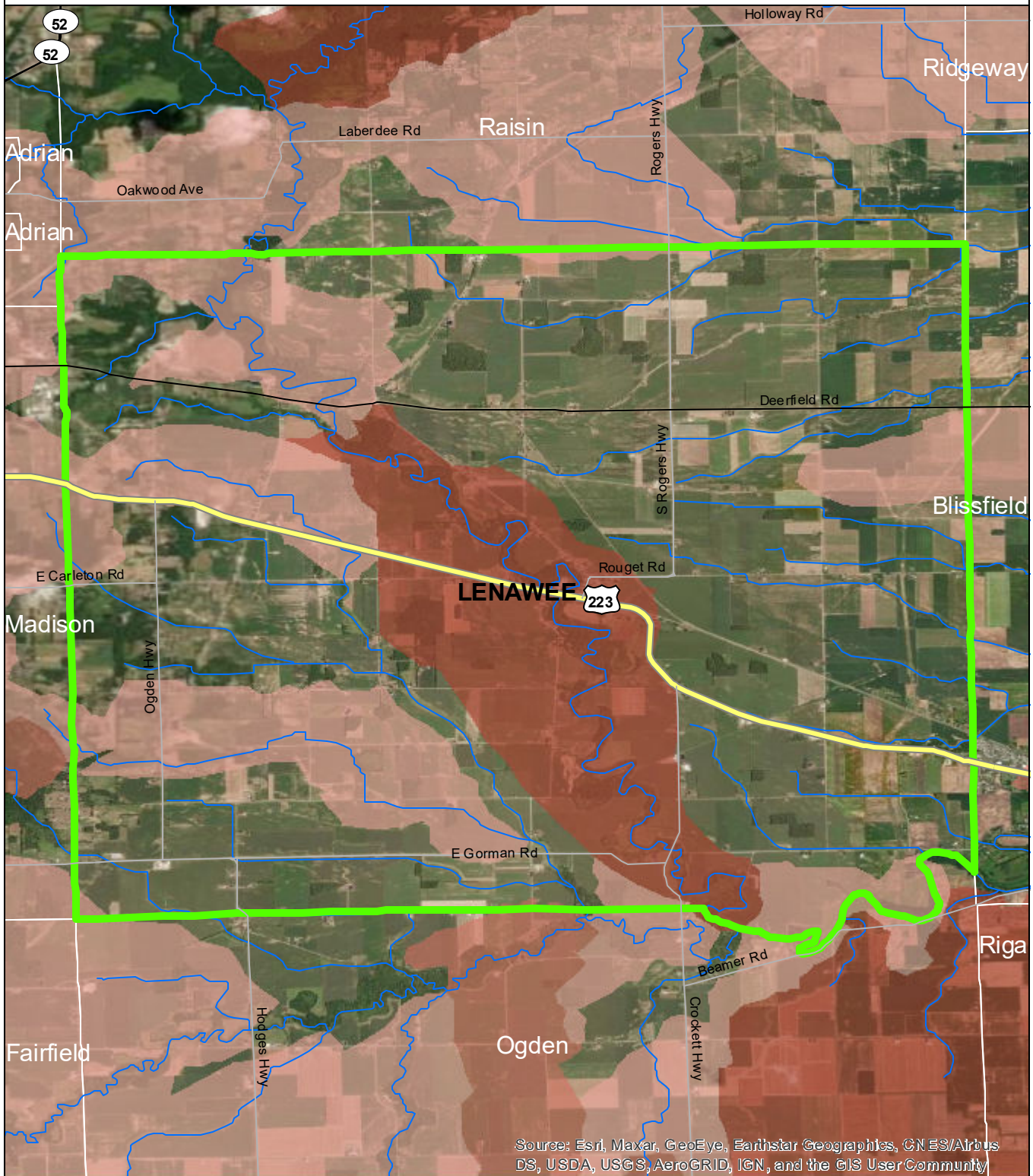
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University







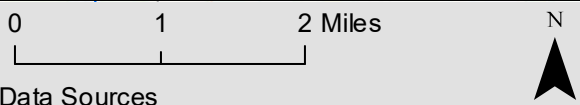
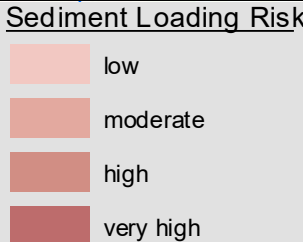


# Palmyra Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

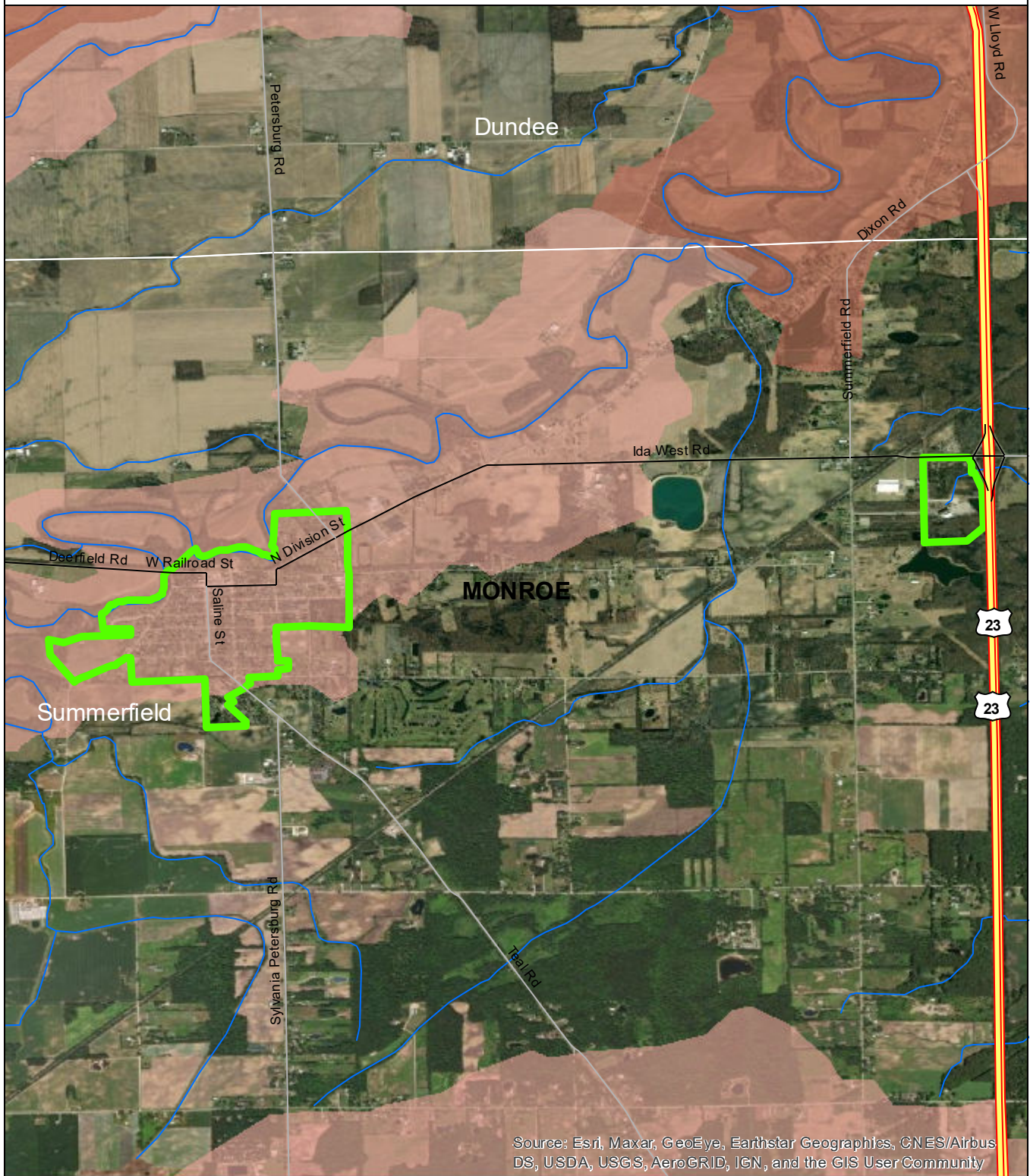
-  Palmyra Township
-  Counties
-  Rivers and Streams
-  Townships & Cities



State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University

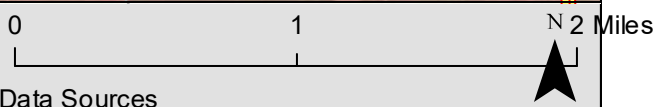
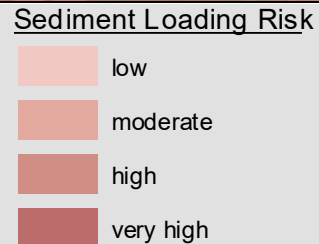


# City of Petersburg



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

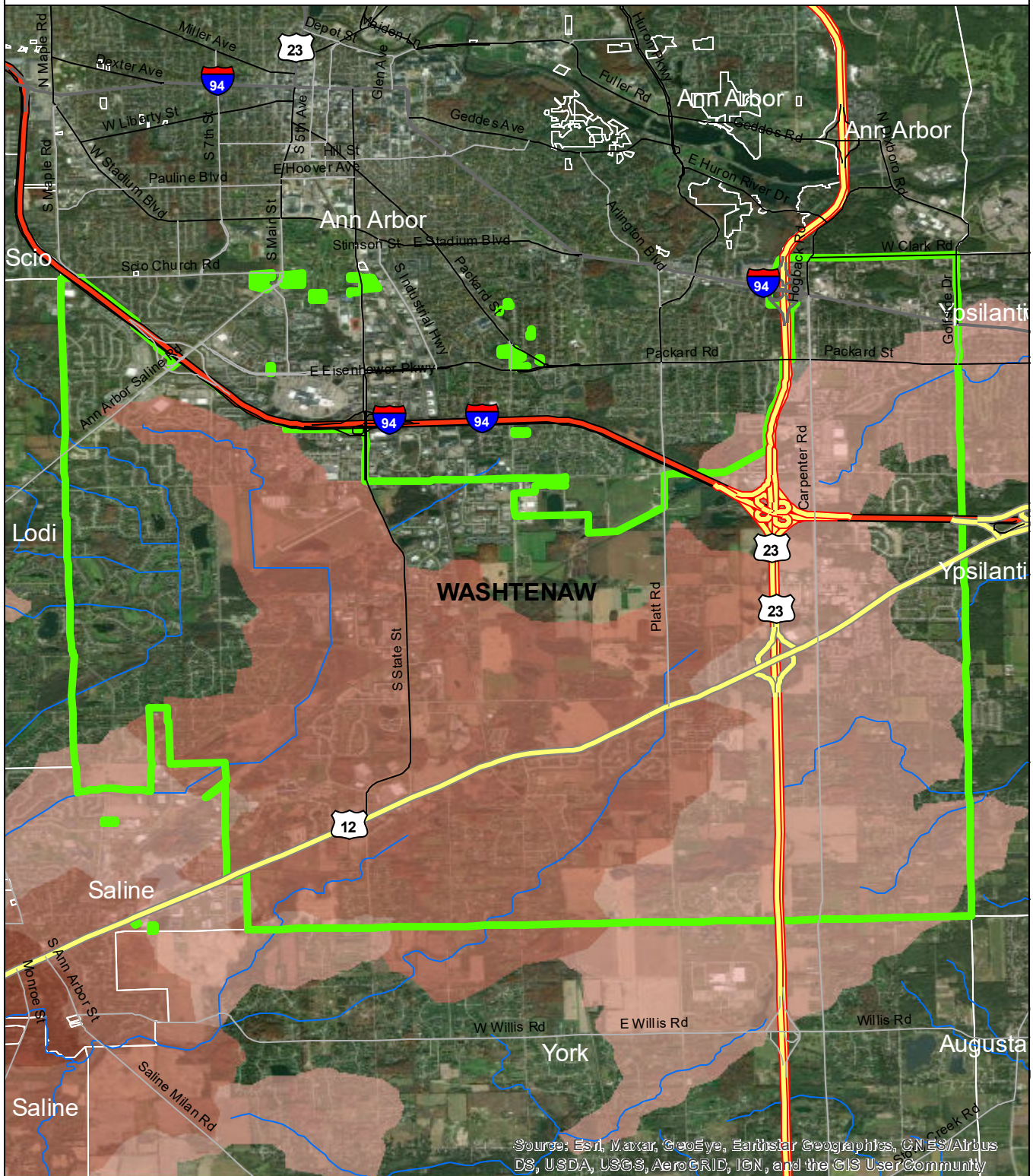
- City of Petersburg
- Counties
- Rivers and Streams
- Townships & Cities



**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Pittsfield Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Pittsfield Township
- Counties
- Rivers and Streams
- Townships & Cities

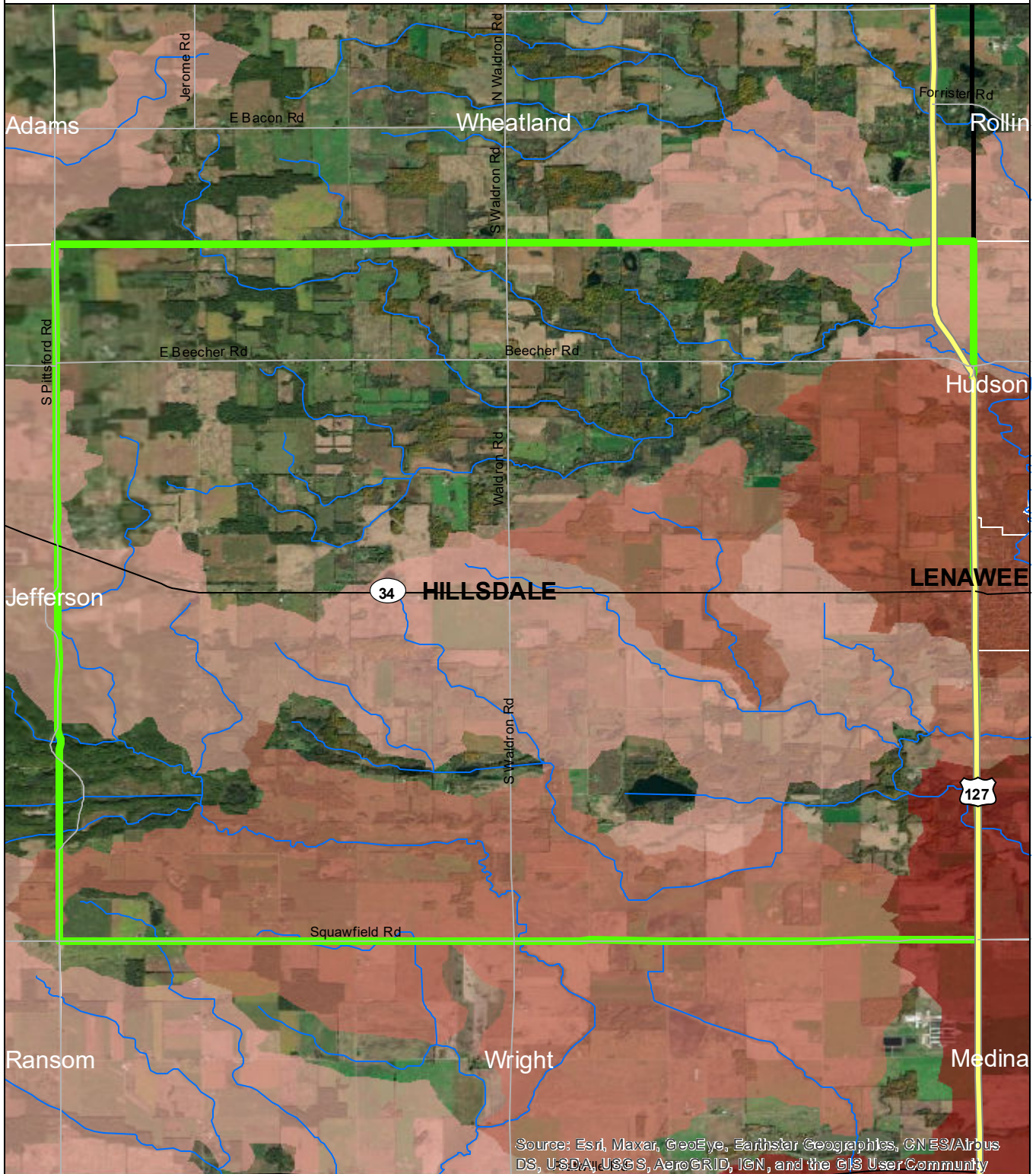
- Sediment Loading Risk**
- low
  - moderate
  - high
  - very high

0 1 2 Miles





**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University







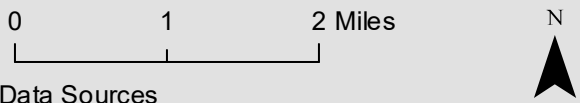
# Pittsford Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Pittsford Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

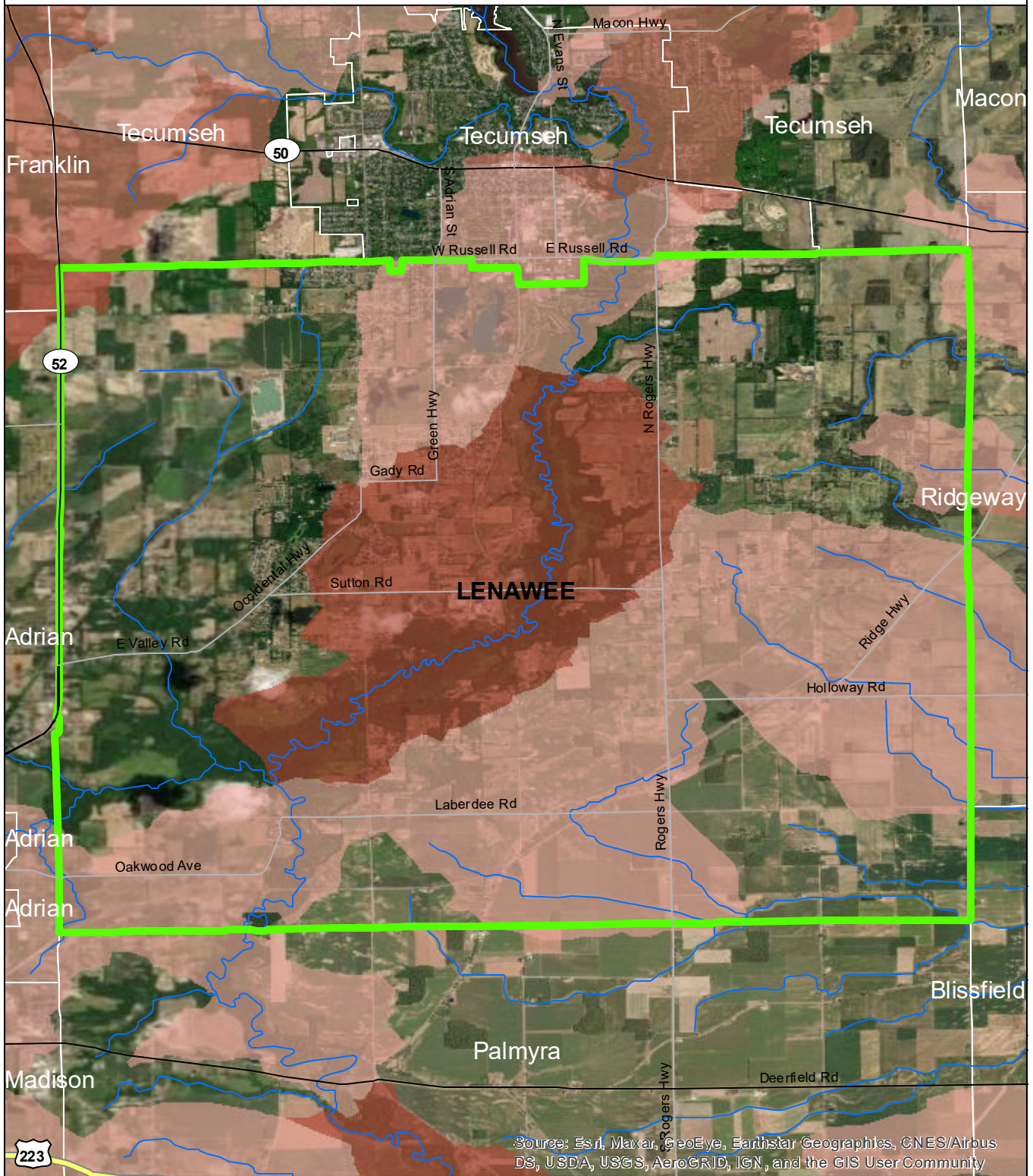
- Sediment Loading Risk**
-  low
  -  moderate
  -  high
  -  very high











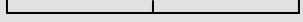

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Raisin Township

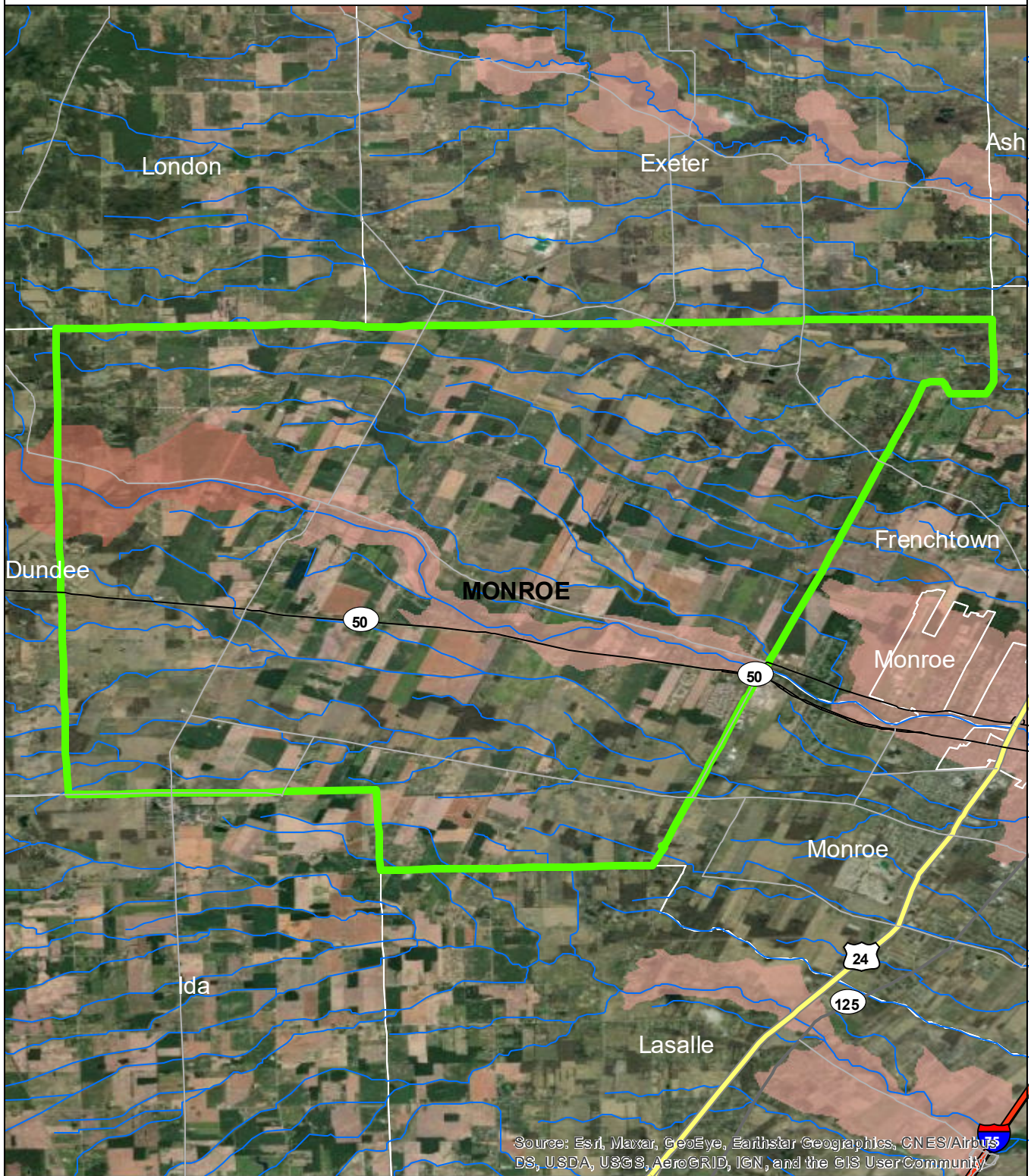


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

 Raisin Township  Counties  Rivers and Streams  Townships & Cities	<b>Sediment Loading Risk</b>  low  moderate  high  very high	0      1      2 Miles 	N 
	<b>Data Sources</b> State of Michigan: Counties, Townships & Cities USGS: Sediment Loading Risk Map produced by the Institute of Water Research - Michigan State University		



# Raisinville Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

- Raisinville Township
- Counties
- Rivers and Streams
- Townships & Cities

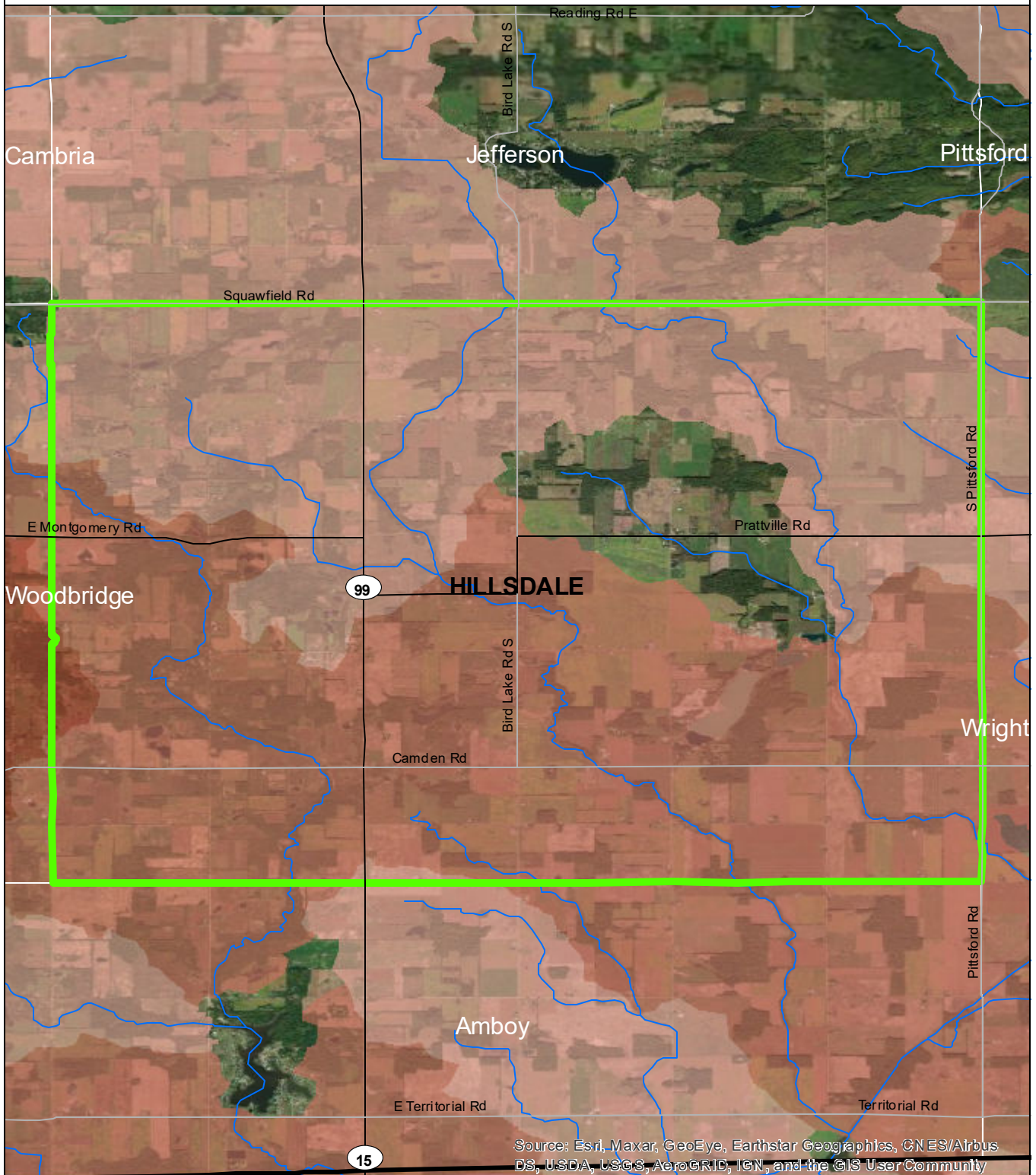
- Sediment Loading Risk**
- low
  - moderate
  - high
  - very high





0 1 2 Miles

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University







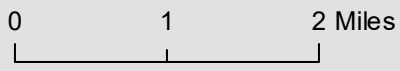
# Ransom Township



-  Ransom Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

## Sediment Loading Risk

-  low
-  moderate
-  high
-  very high

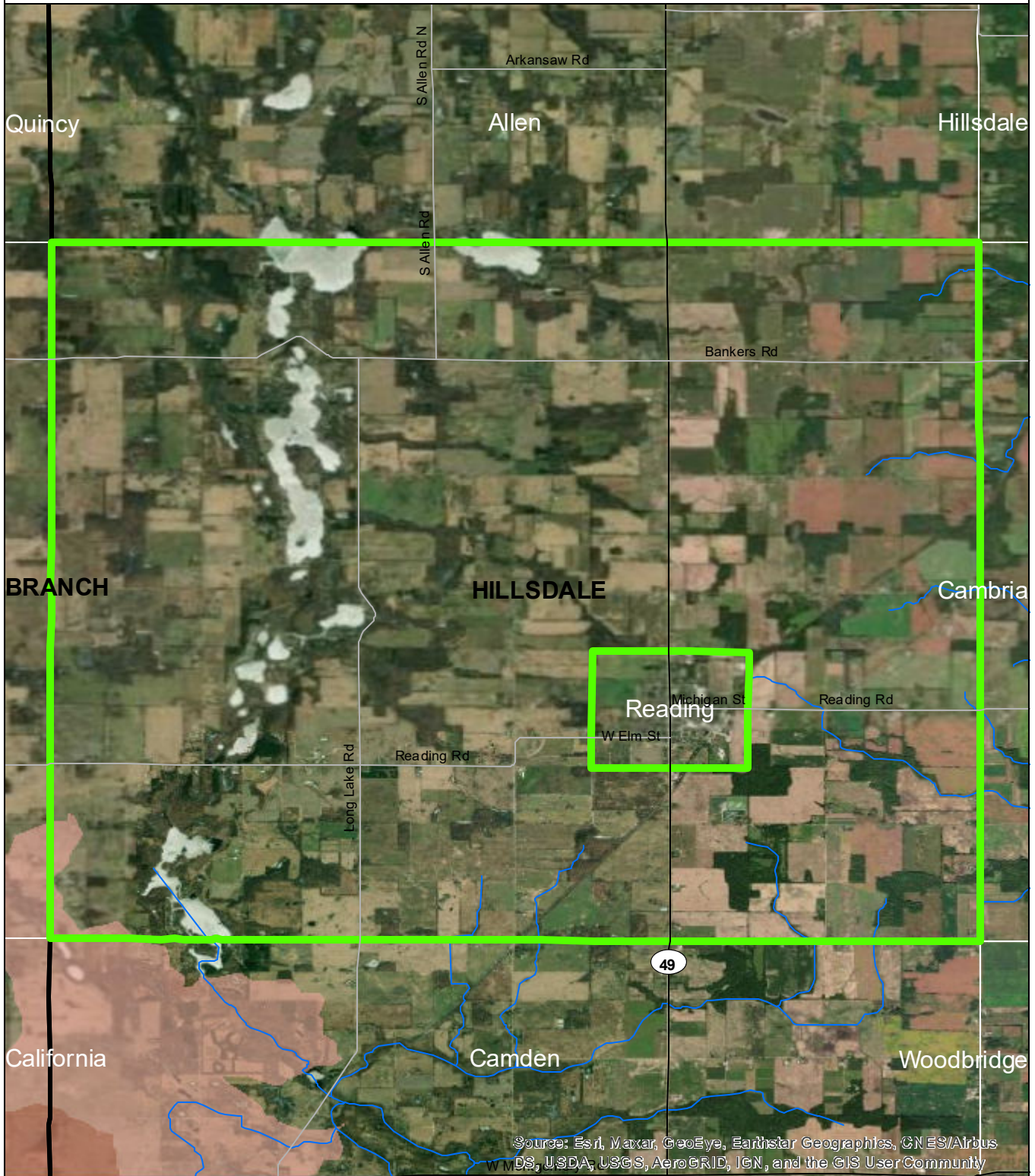


### Data Sources



State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University







# Reading Township




Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Reading Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

- Sediment Loading Risk**
-  low
  -  moderate
  -  high
  -  very high

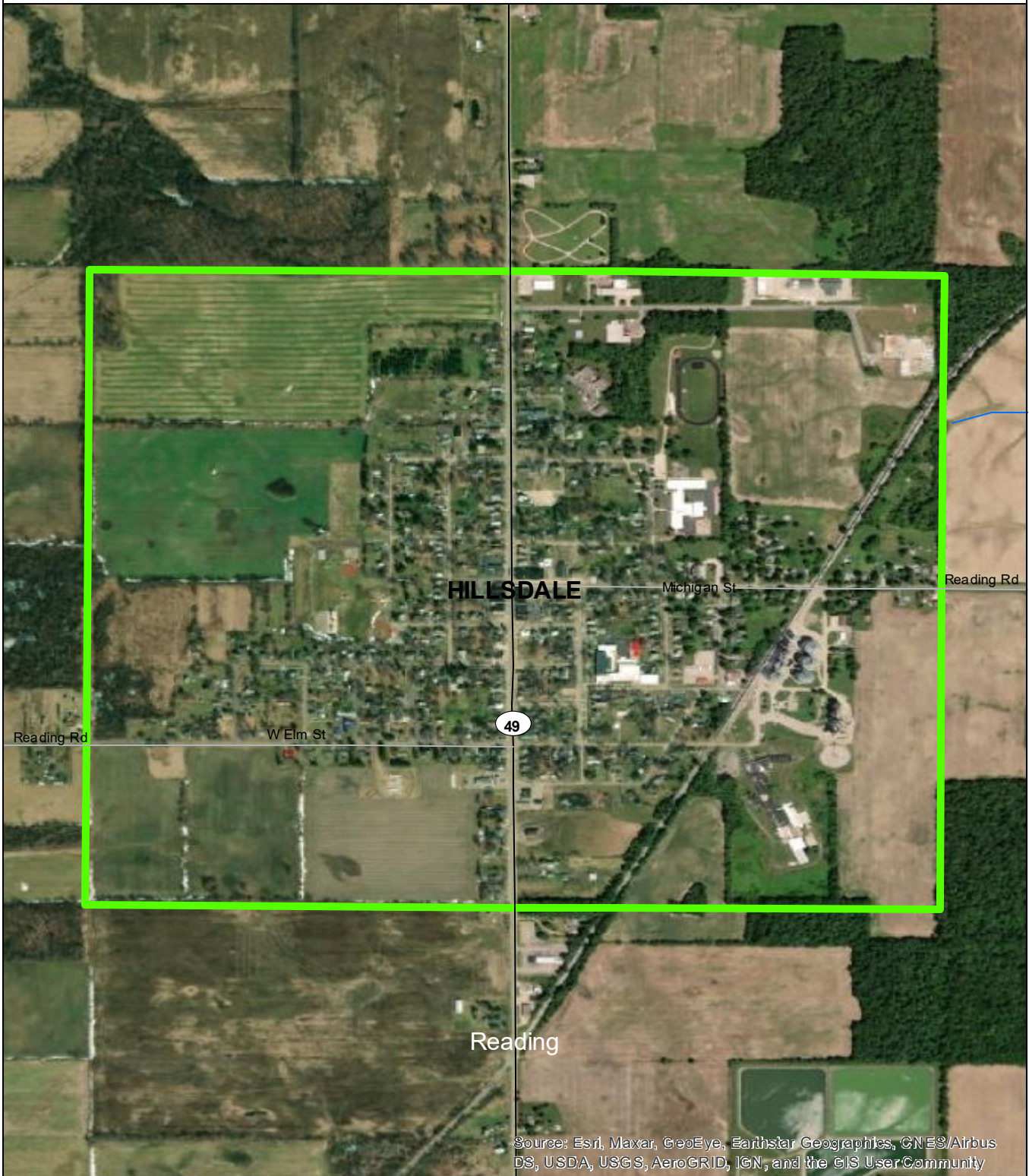
0 1 2 Miles

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University





# City of Reading

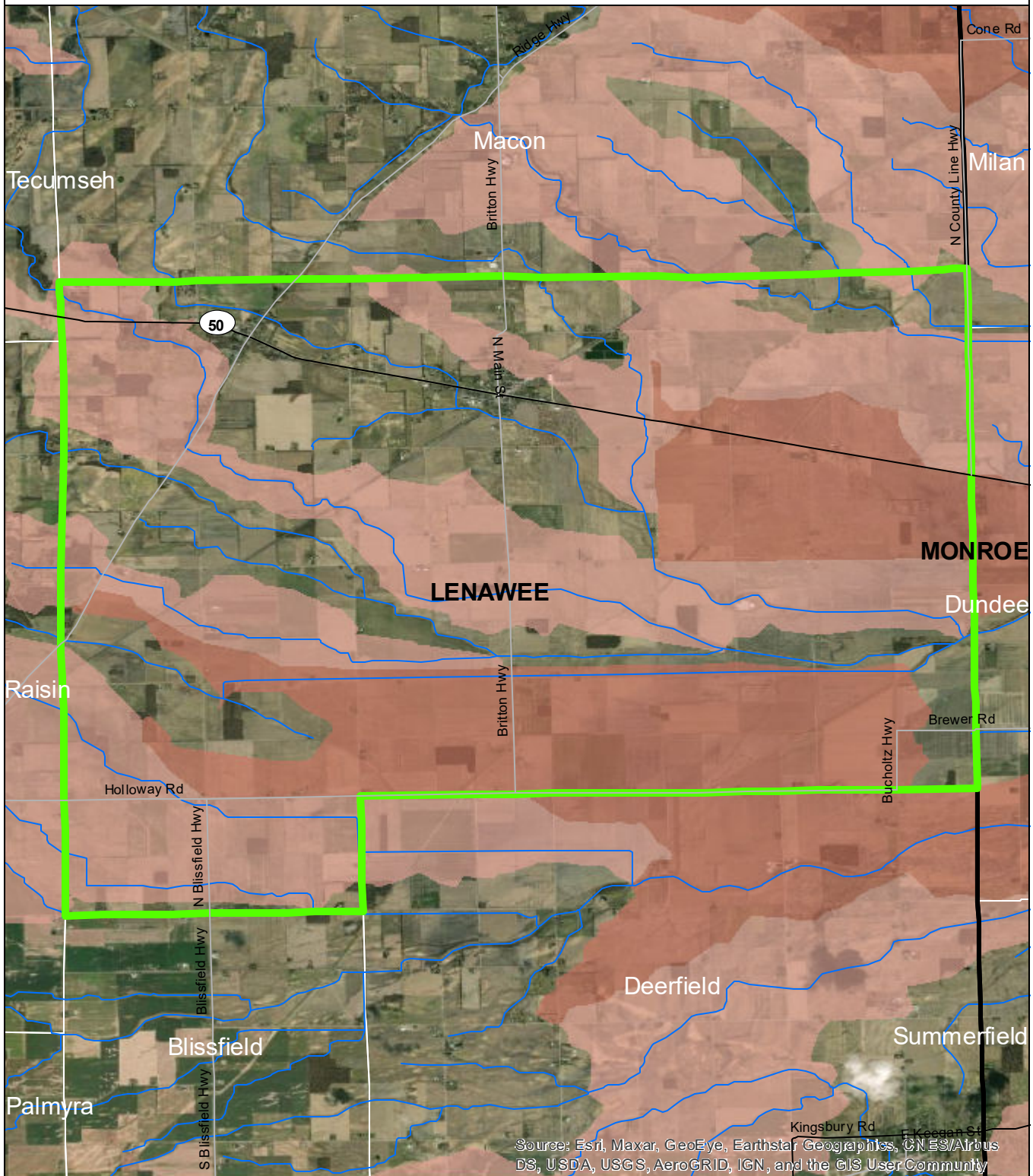


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity





	City of Reading	<b>Sediment Loading Risk</b>	0	N
	Counties		low	
	Rivers and Streams		moderate	
	Townships & Cities		high	<u>Data Sources</u>
			very high	State of Michigan: Counties, Townships & Cities
				USGS: Sediment Loading Risk
				Map produced by the Institute of Water Research -
				Michigan State University







# Ridgeway Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Ridgeway Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

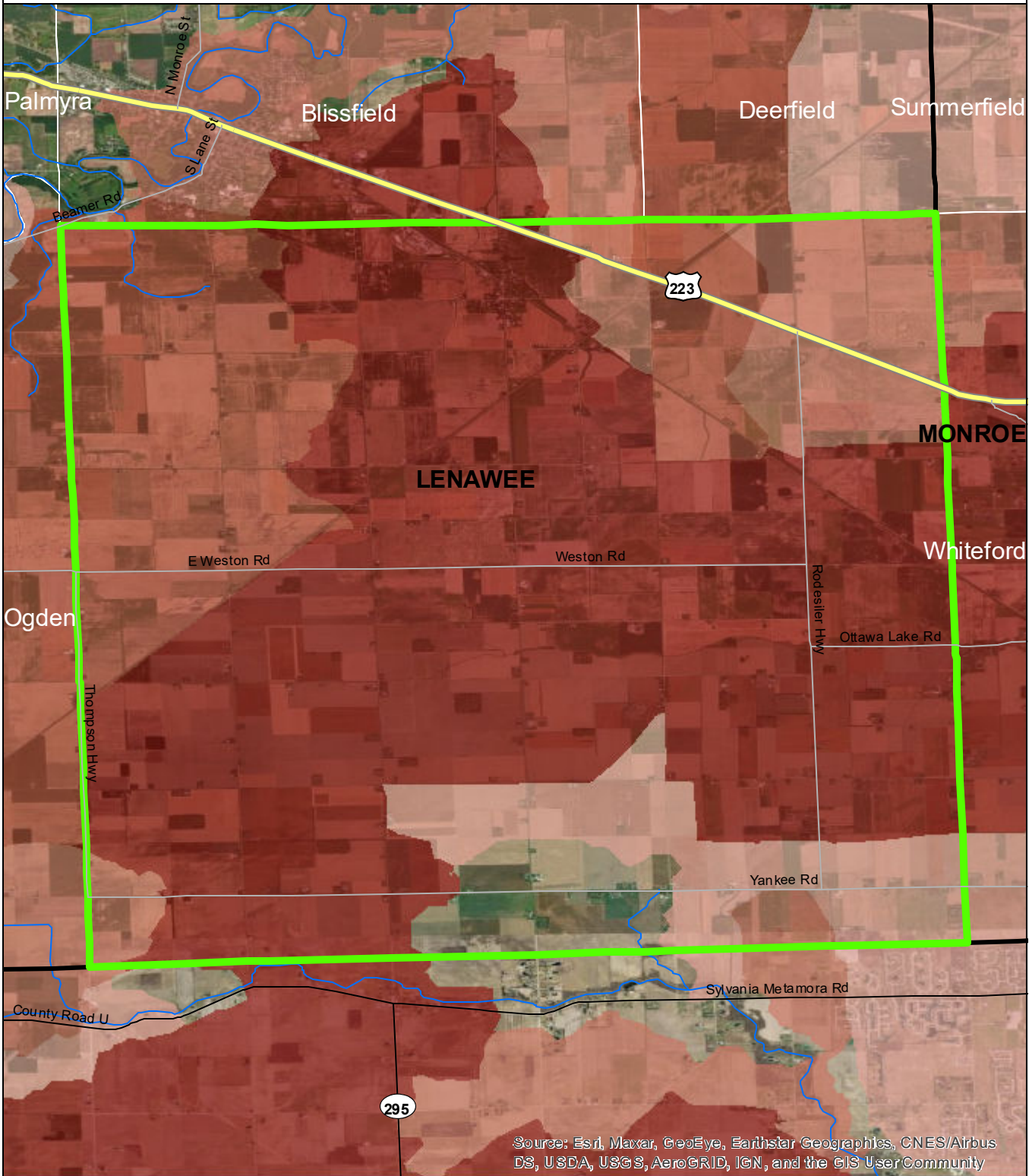
- Sediment Loading Risk**
-  low
  -  moderate
  -  high
  -  very high

0 1 2 Miles

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



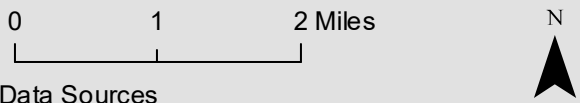
# Riga Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

- Riga Township
- Counties
- Rivers and Streams
- Townships & Cities

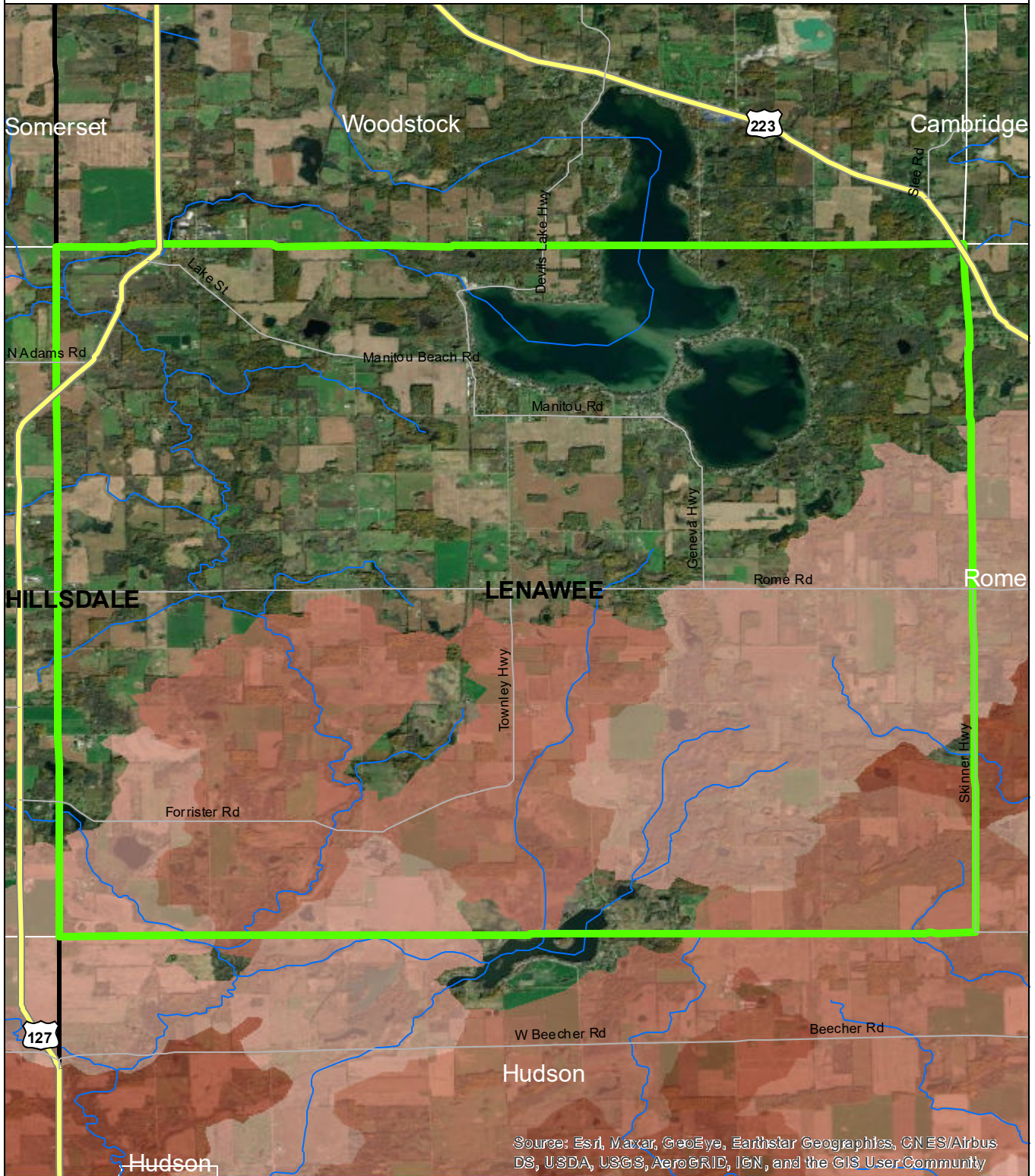
- Sediment Loading Risk**
- low
  - moderate
  - high
  - very high



State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University

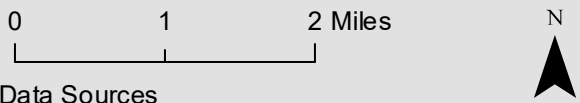
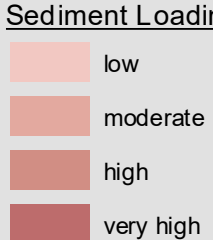


# Rollin Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

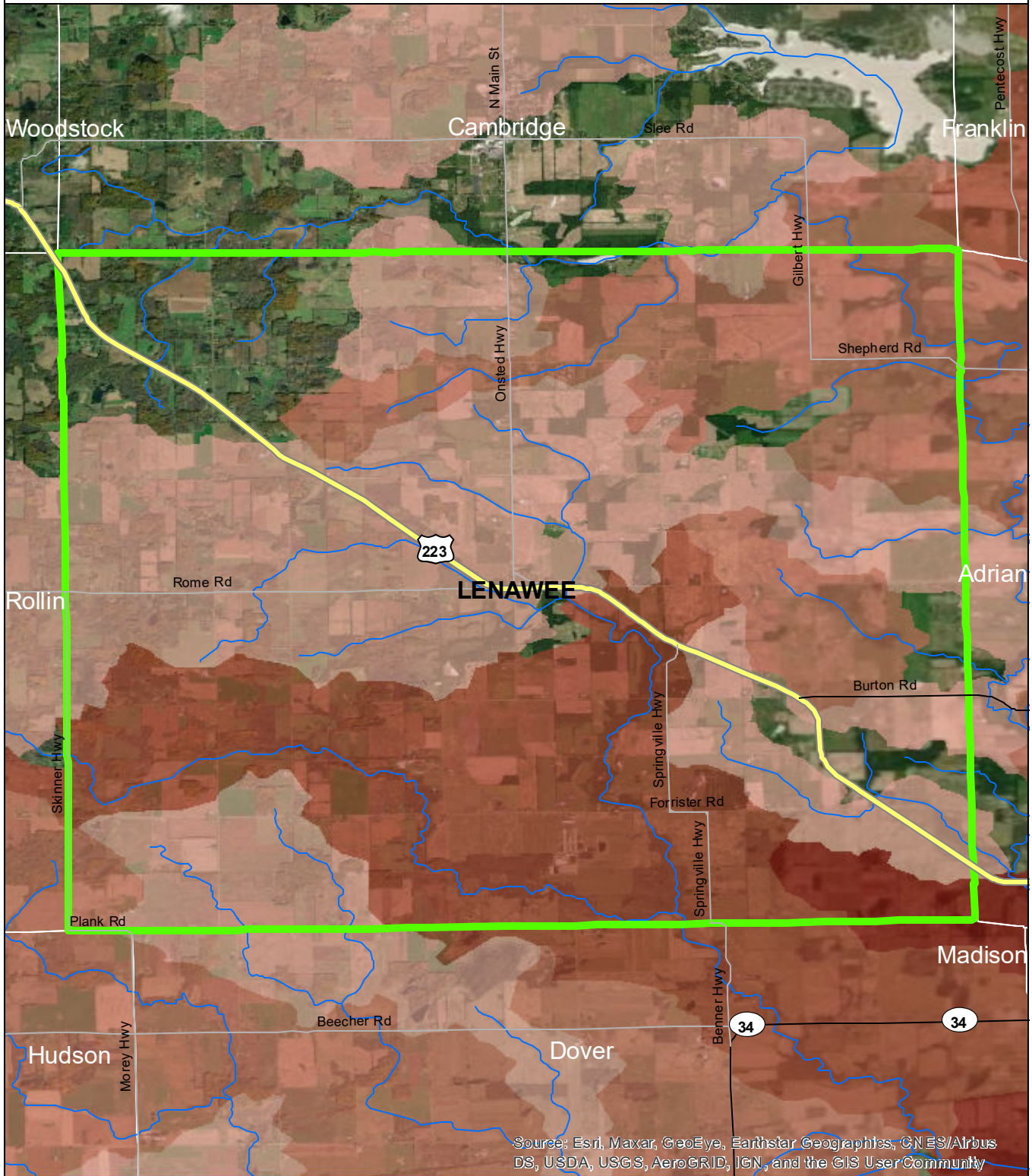
- Rollin Township
- Counties
- Rivers and Streams
- Townships & Cities



Map produced by the Institute of Water Research - Michigan State University



# Rome Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Rome Township
- Counties
- Rivers and Streams
- Townships & Cities

- Sediment Loading Risk**
- low
  - moderate
  - high
  - very high

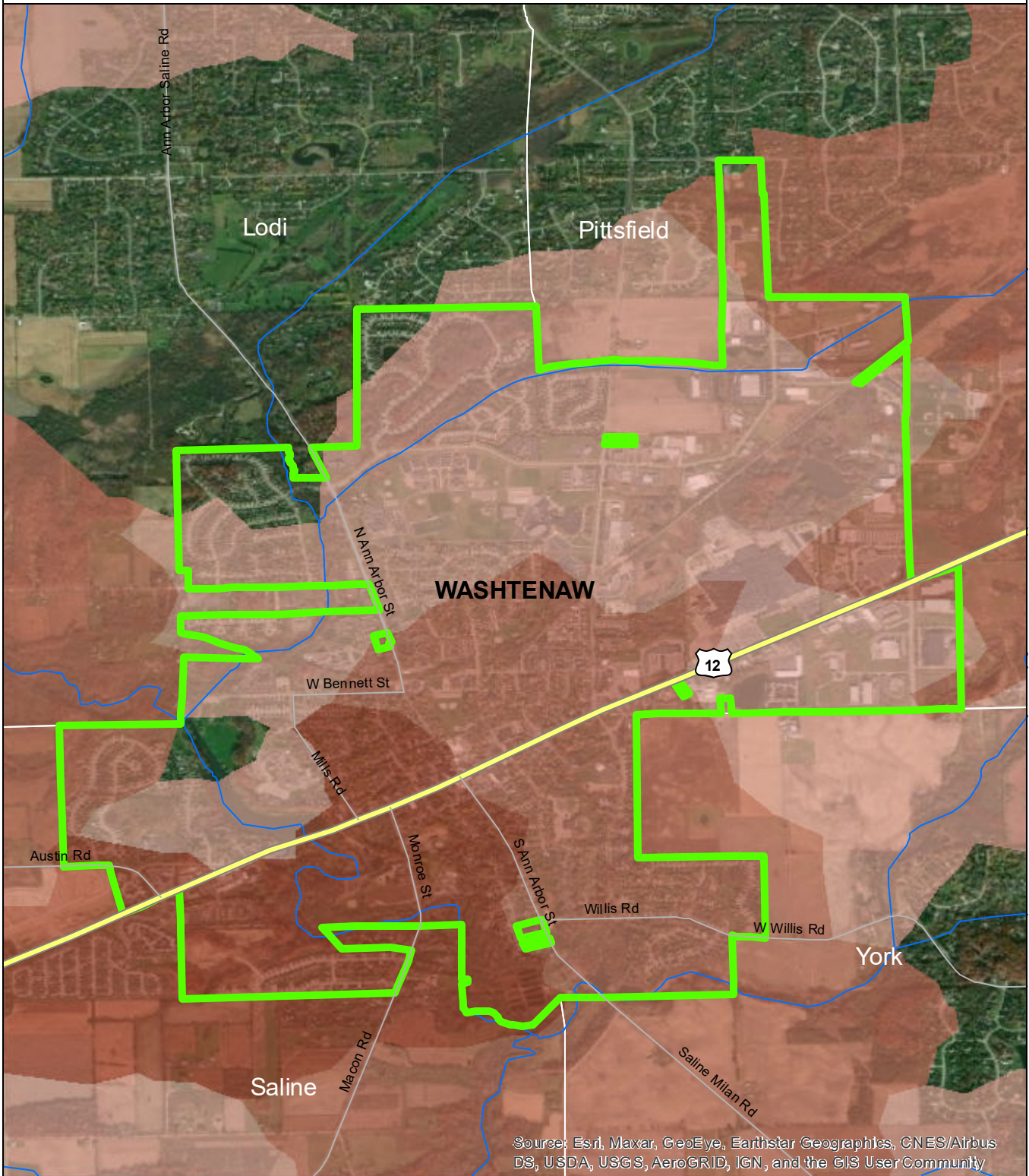
0 1 2 Miles

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk





Map produced by the Institute of Water Research - Michigan State University







# City of Saline

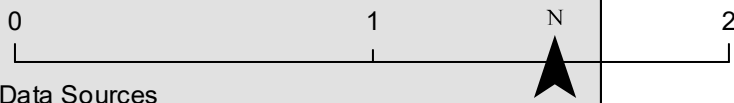


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  City of Saline
-  Counties
-  Rivers and Streams
-  Townships & Cities

**Sediment Loading Risk**

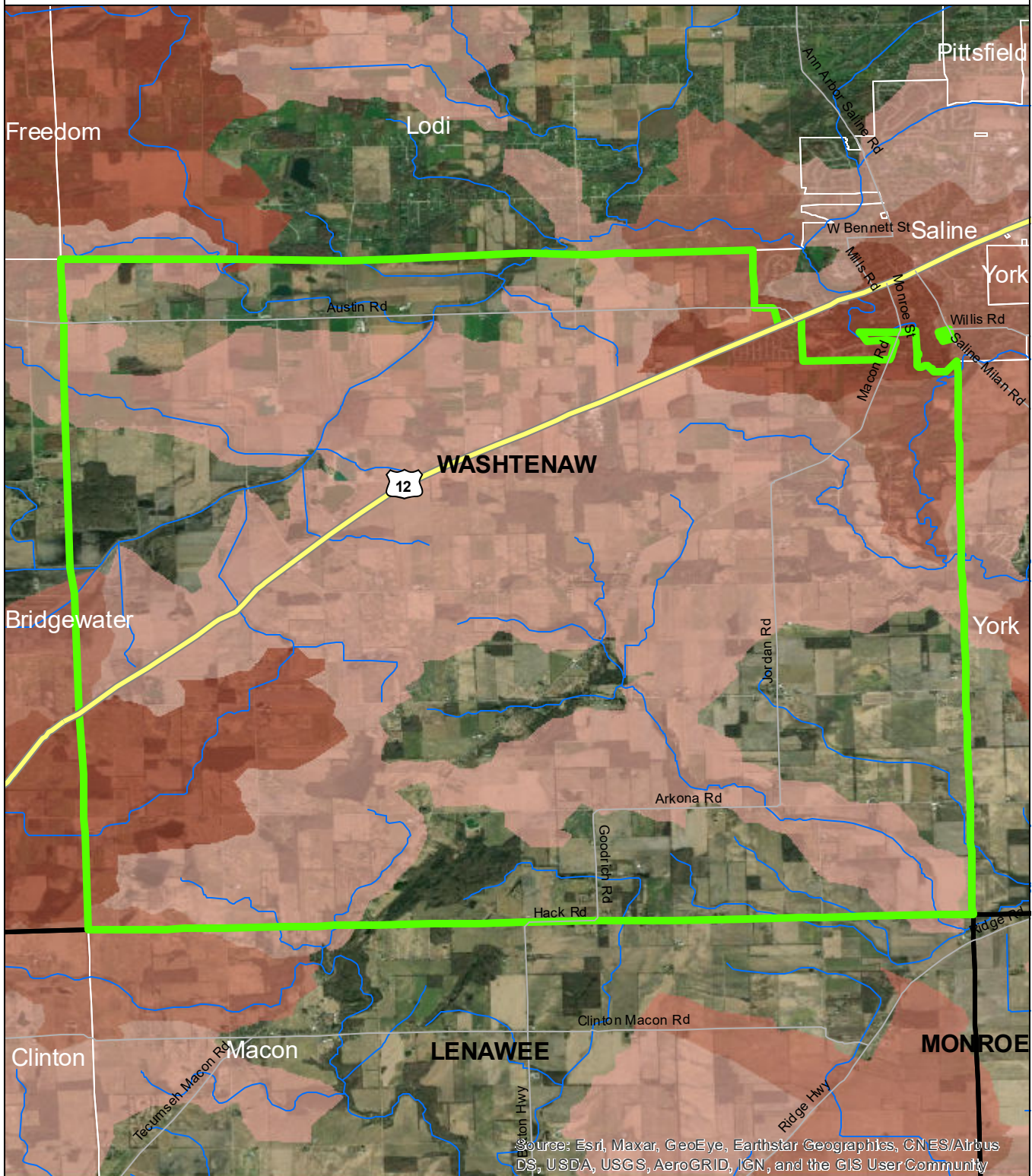
-  low
-  moderate
-  high
-  very high







**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University







# Saline Township

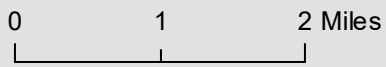


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Saline Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

### Sediment Loading Risk

-  low
-  moderate
-  high
-  very high



### Data Sources

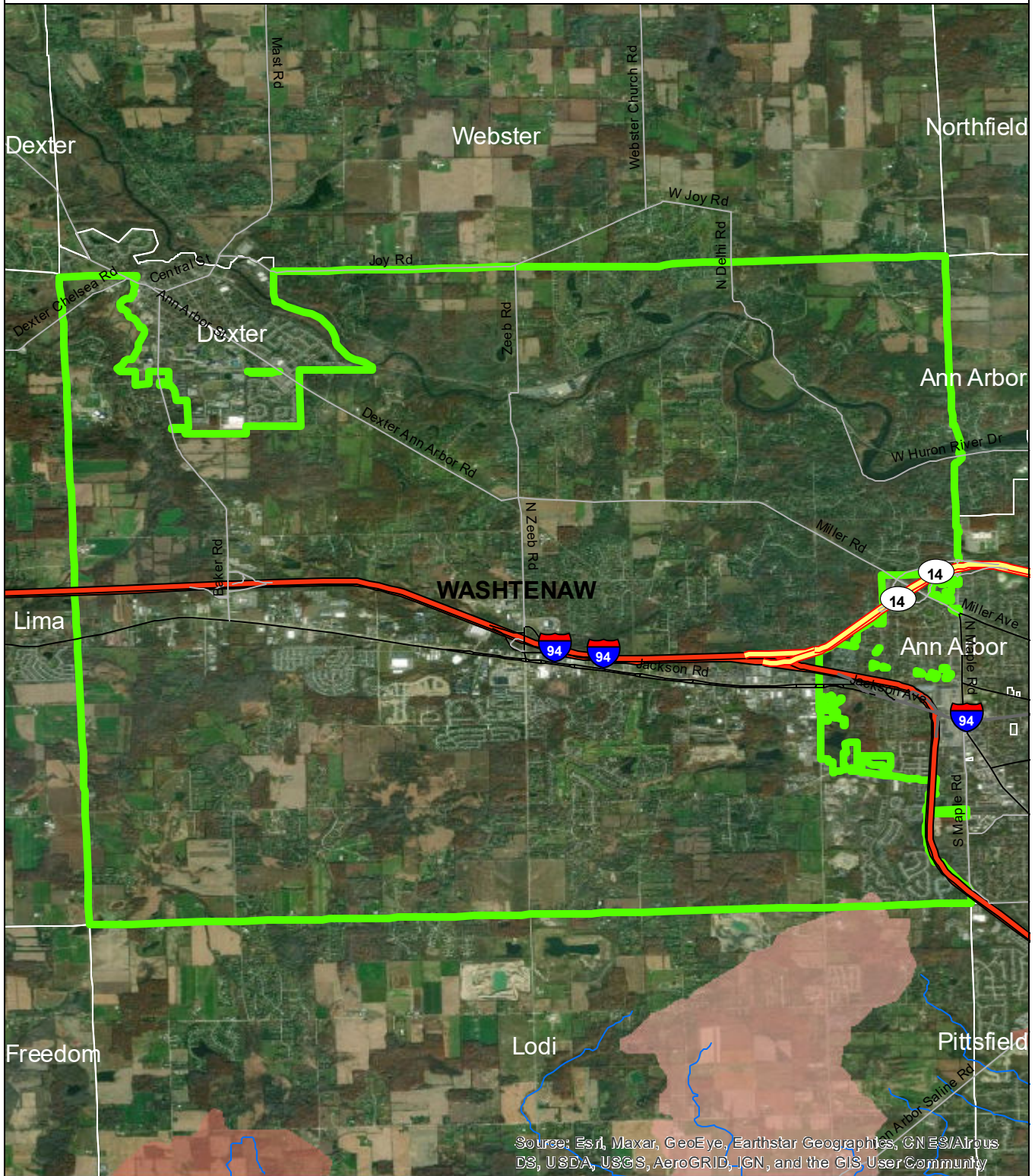
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University










# Scio Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN ES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Scio Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

- Sediment Loading Risk**
-  low
  -  moderate
  -  high
  -  very high

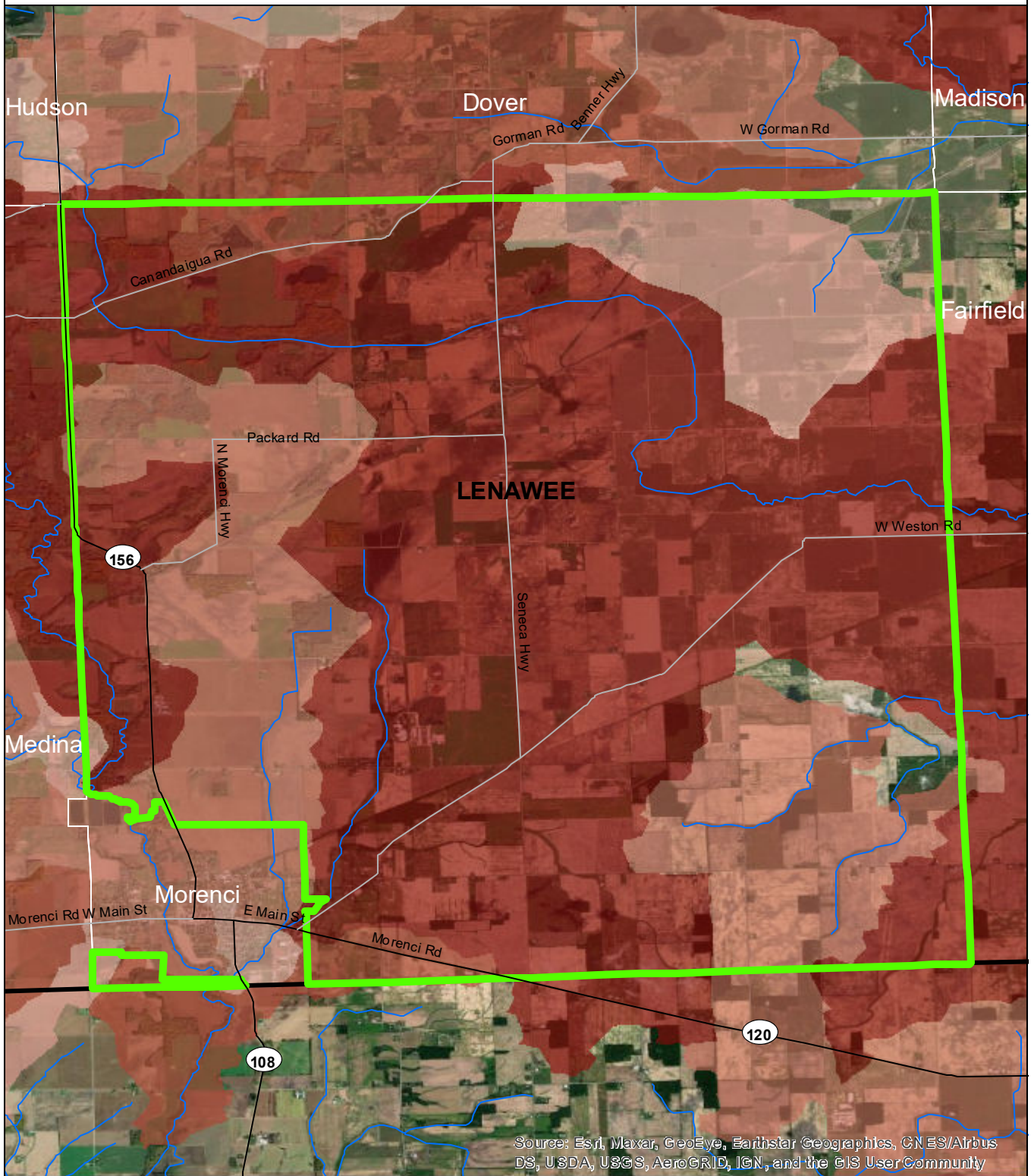
0 1 2 Miles

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk





Map produced by the Institute of Water Research - Michigan State University







# Seneca Township

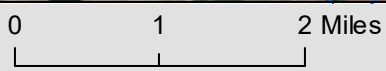


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Seneca Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

### Sediment Loading Risk

-  low
-  moderate
-  high
-  very high



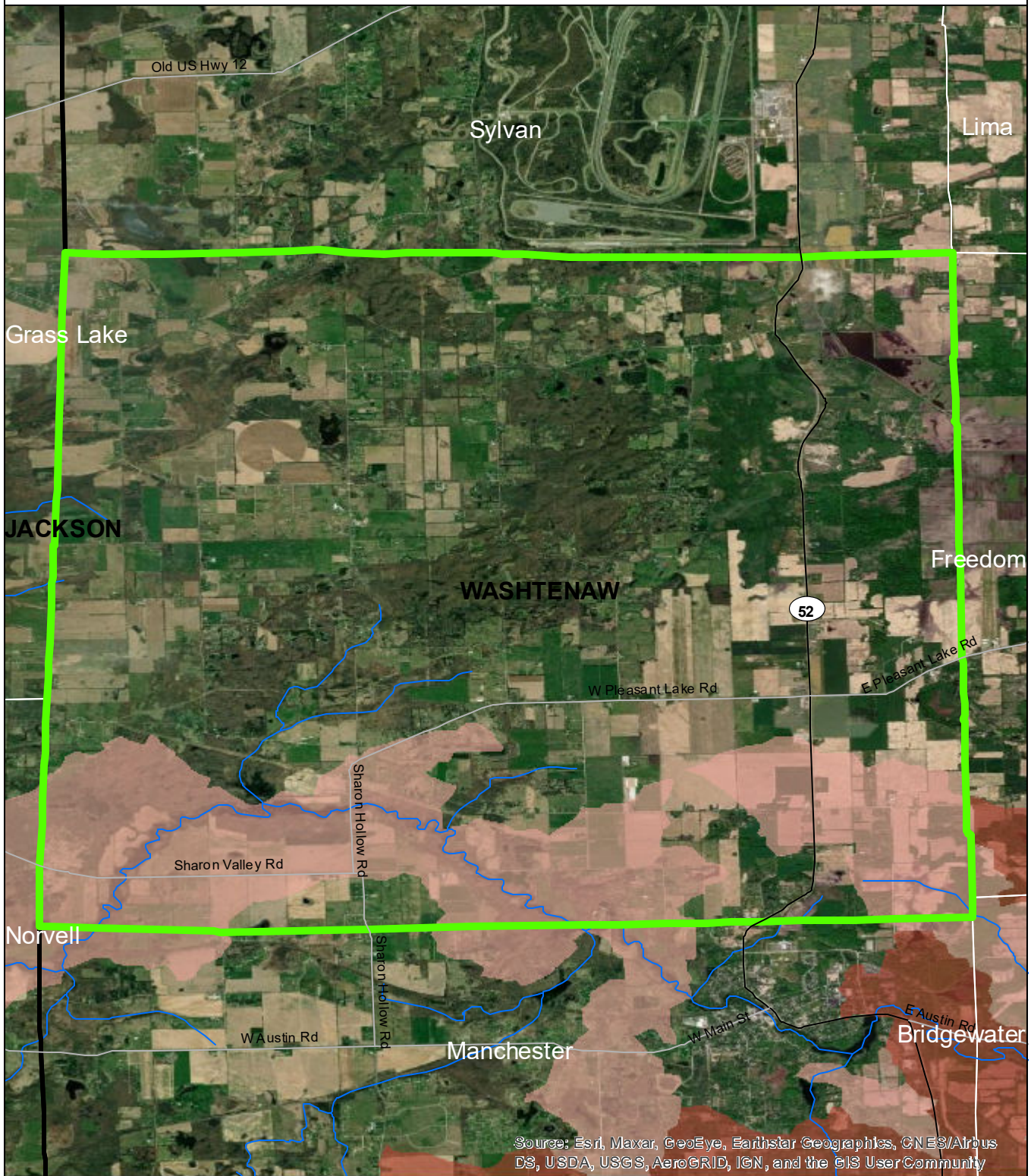
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk




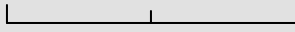





Map produced by the Institute of Water Research - Michigan State University



# Sharon Township

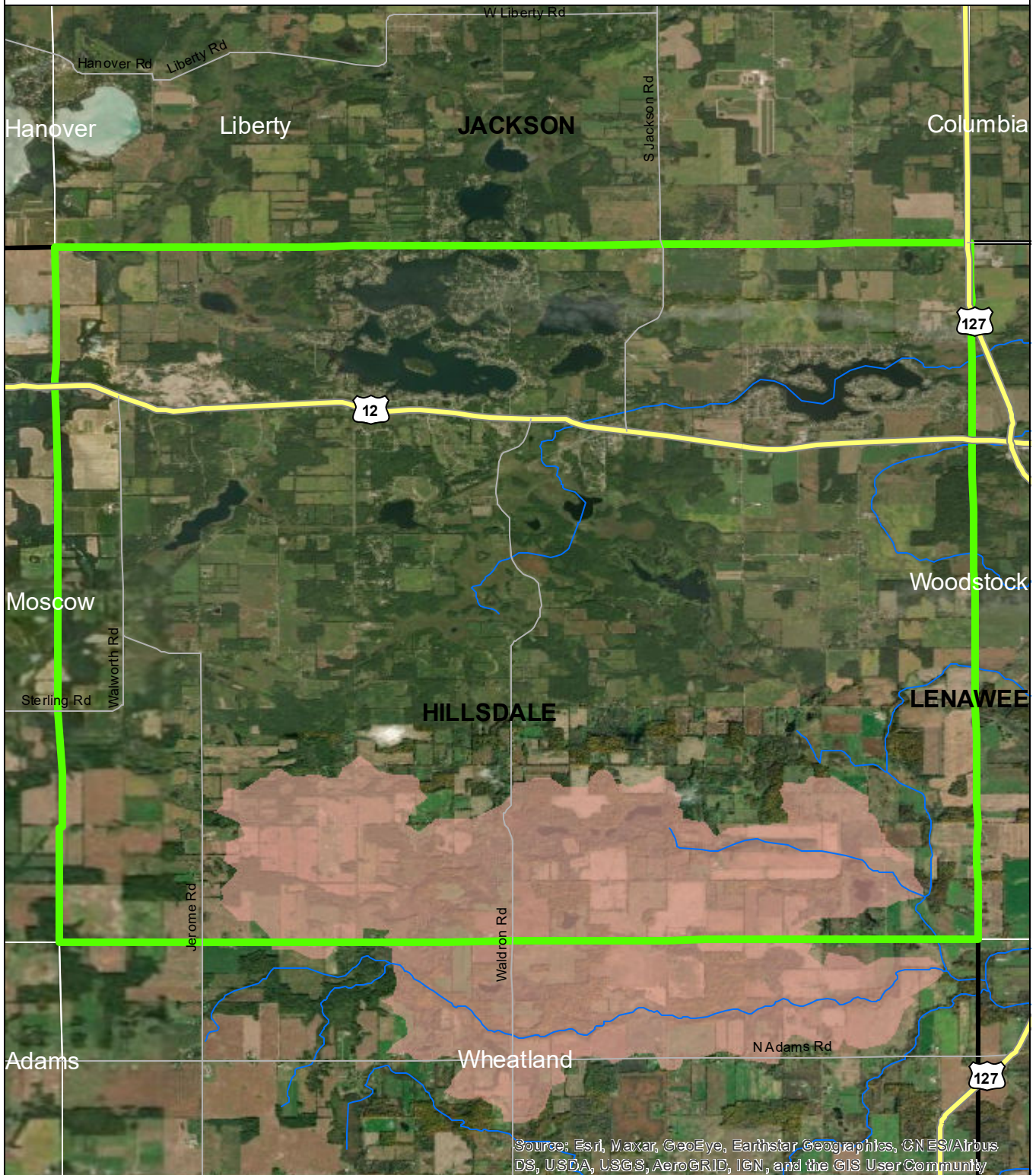






Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Sharon Township	<b>Sediment Loading Risk</b>	0	1	2 Miles	N ▲
	Counties		low			
	Rivers and Streams		moderate	<b>Data Sources</b>		
	Townships & Cities		high	State of Michigan: Counties, Townships & Cities		
			very high	USGS: Sediment Loading Risk		
				Map produced by the Institute of Water Research - Michigan State University		







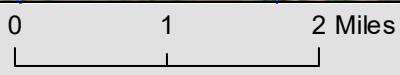
# Somerset Township



-  Somerset Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

### Sediment Loading Risk

-  low
-  moderate
-  high
-  very high



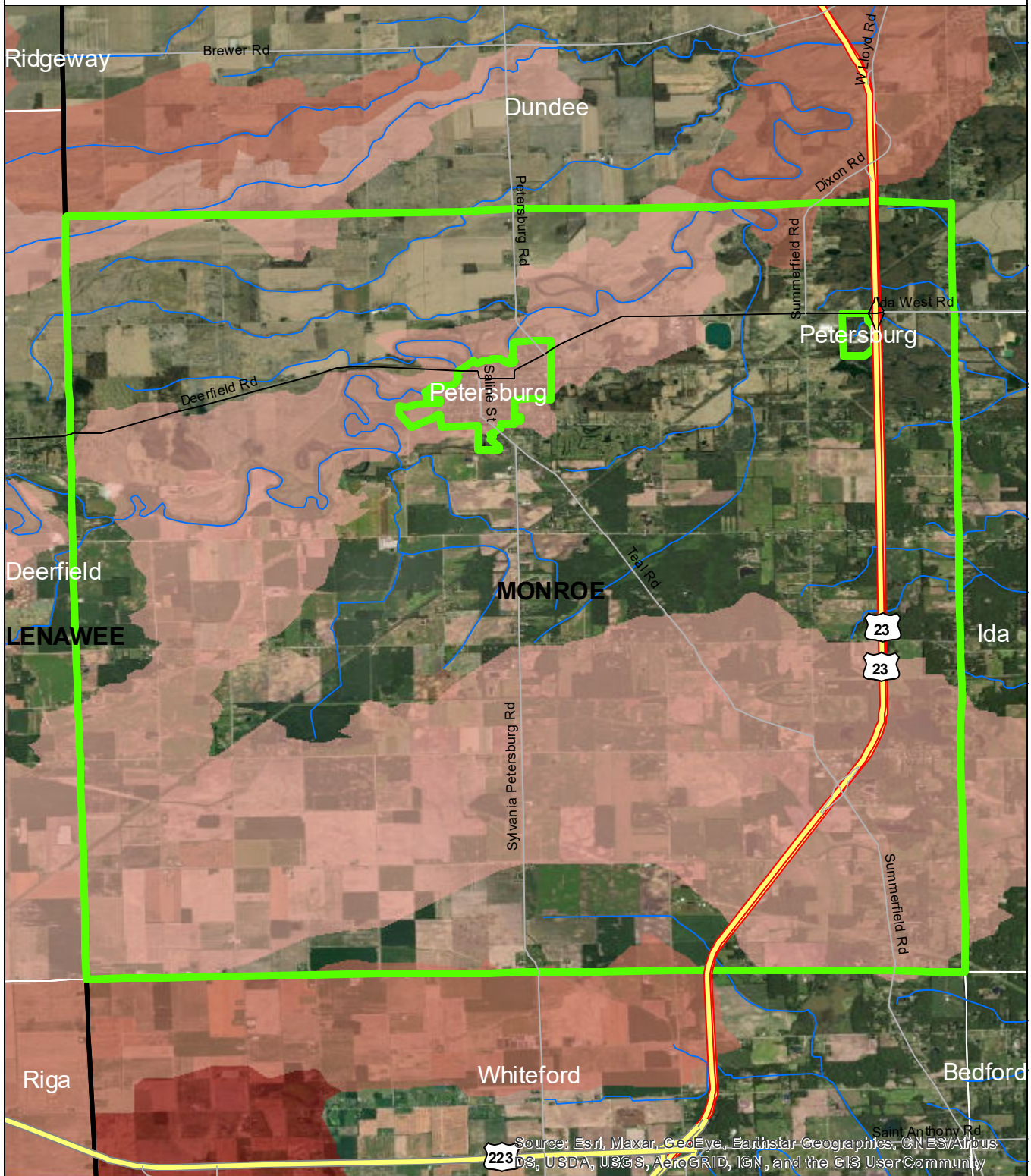
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University















# Summerfield Township



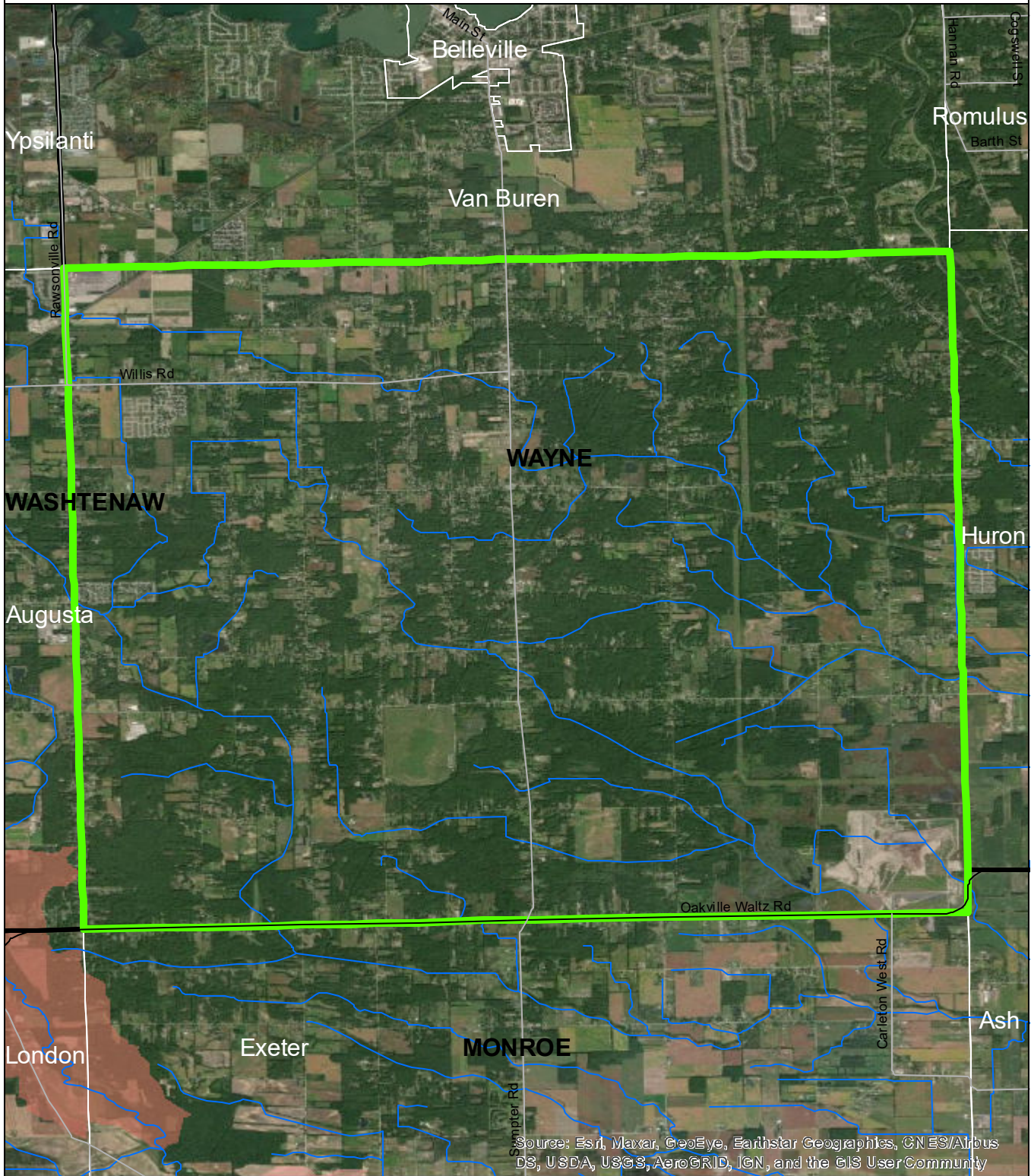
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Summerfield Township		low	<p><b>Sediment Loading Risk</b></p> <p>0 1 2 Miles</p> 	<p>N</p> 
	Counties		moderate		
	Rivers and Streams		high		
	Townships & Cities		very high		

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Sumpter Township

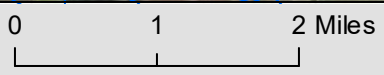


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

- Sumpter Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



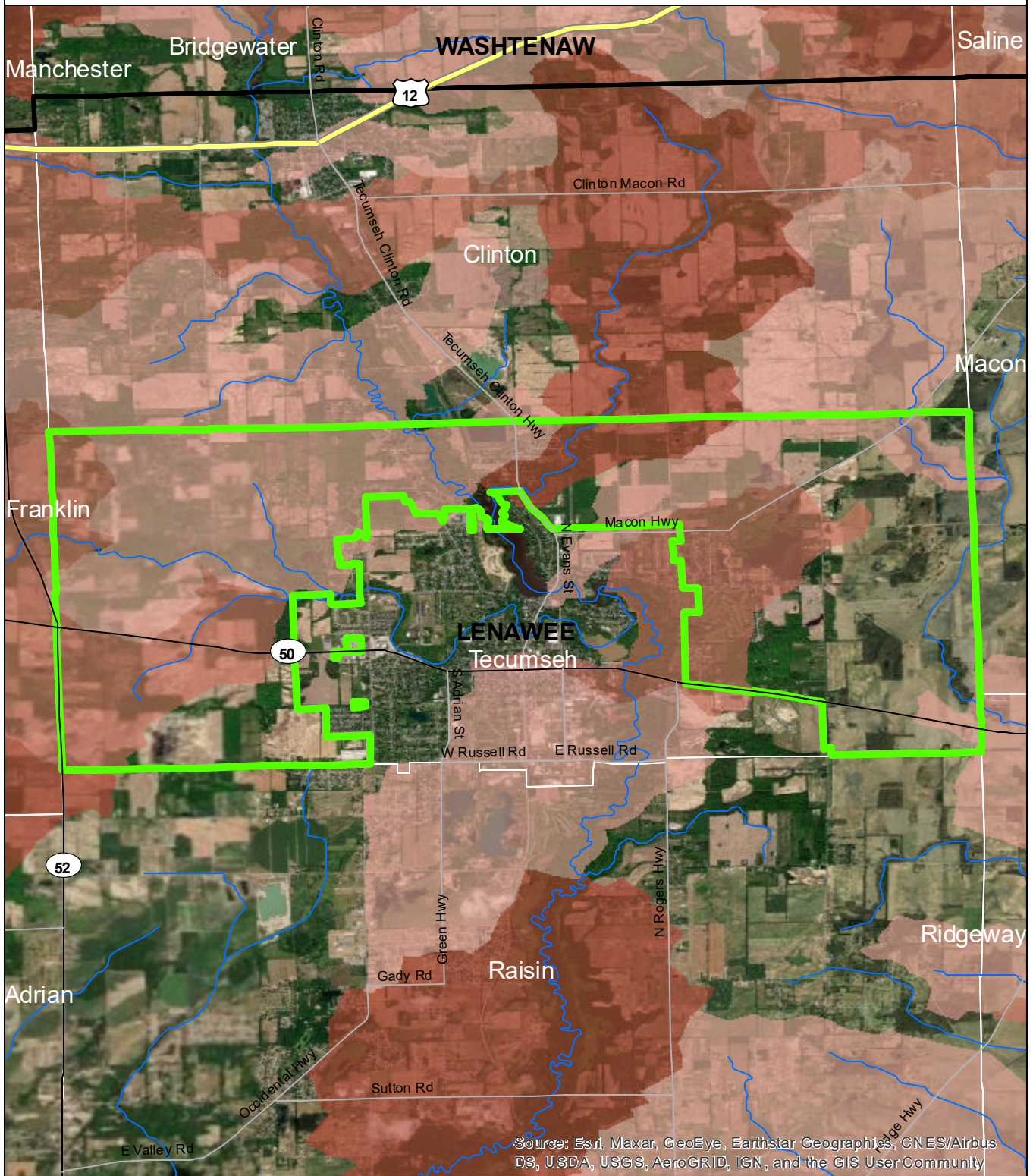
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University





# Tecumseh Township

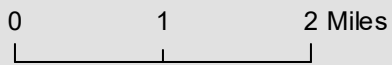


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Tecumseh Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



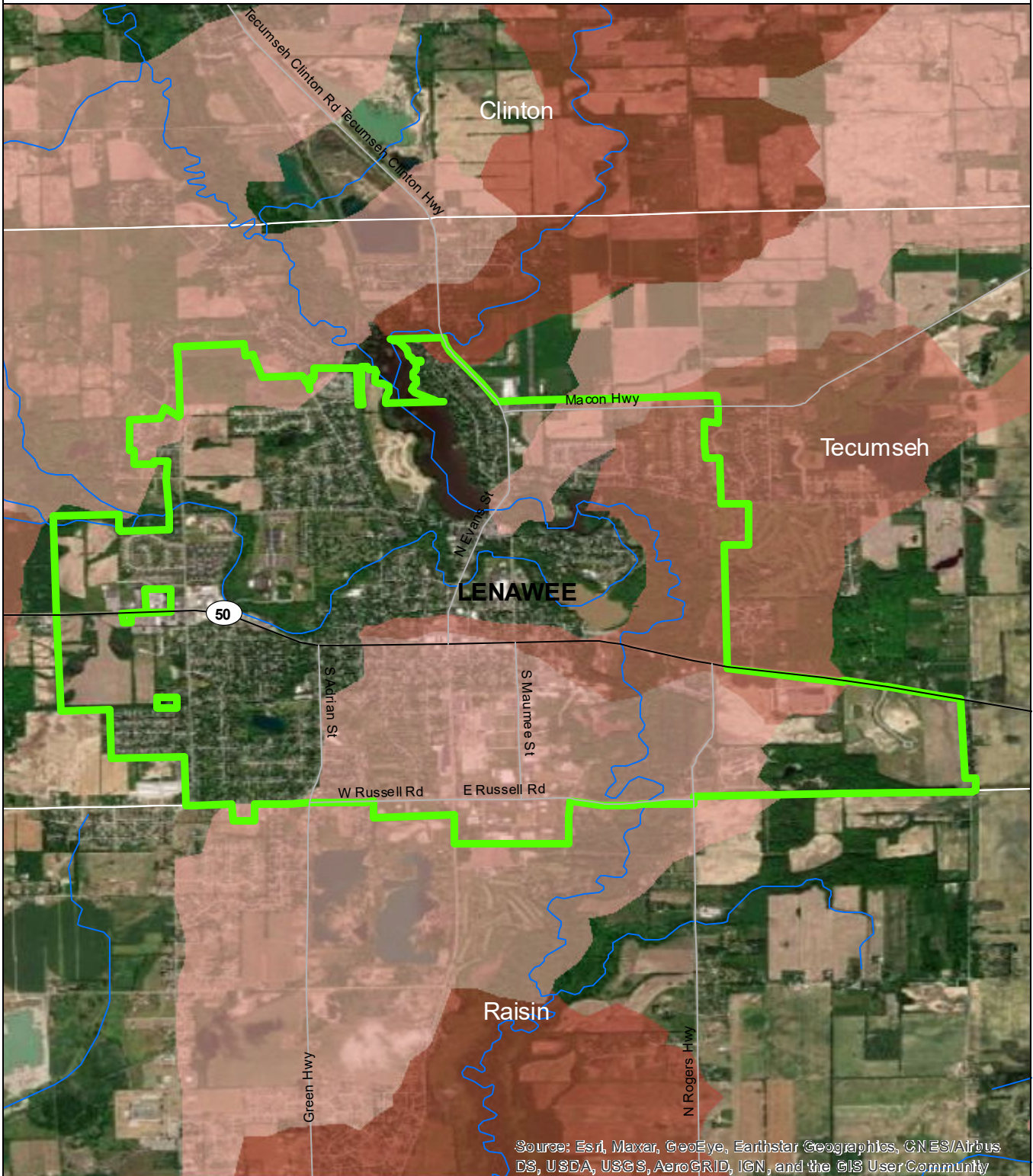
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University













# City of Tecumseh



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  City of Tecumseh
-  Counties
-  Rivers and Streams
-  Townships & Cities

- Sediment Loading Risk**
-  low
  -  moderate
  -  high
  -  very high

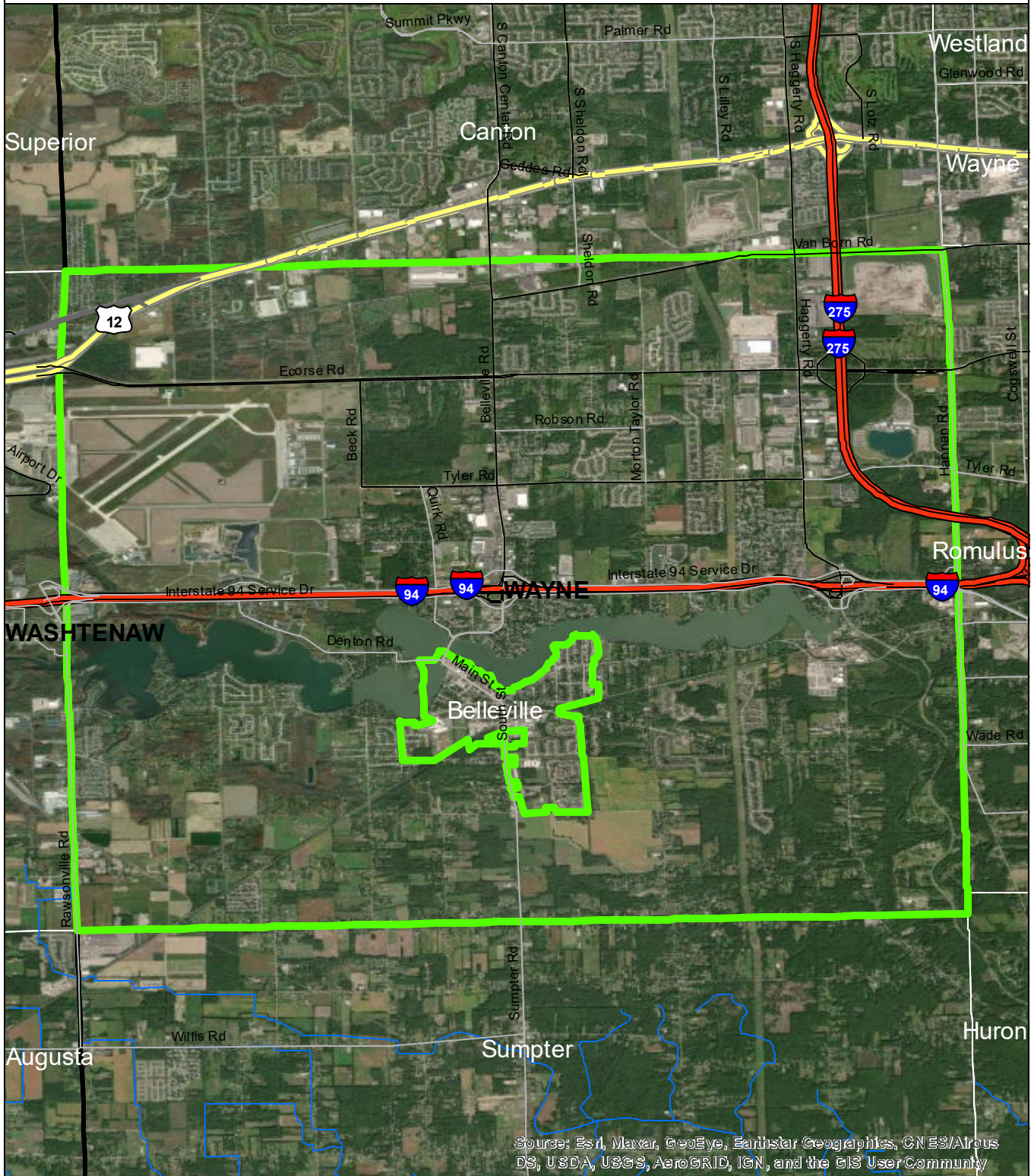
0 1 2 Miles

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk




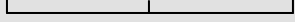






Map produced by the Institute of Water Research - Michigan State University



# Van Buren Township



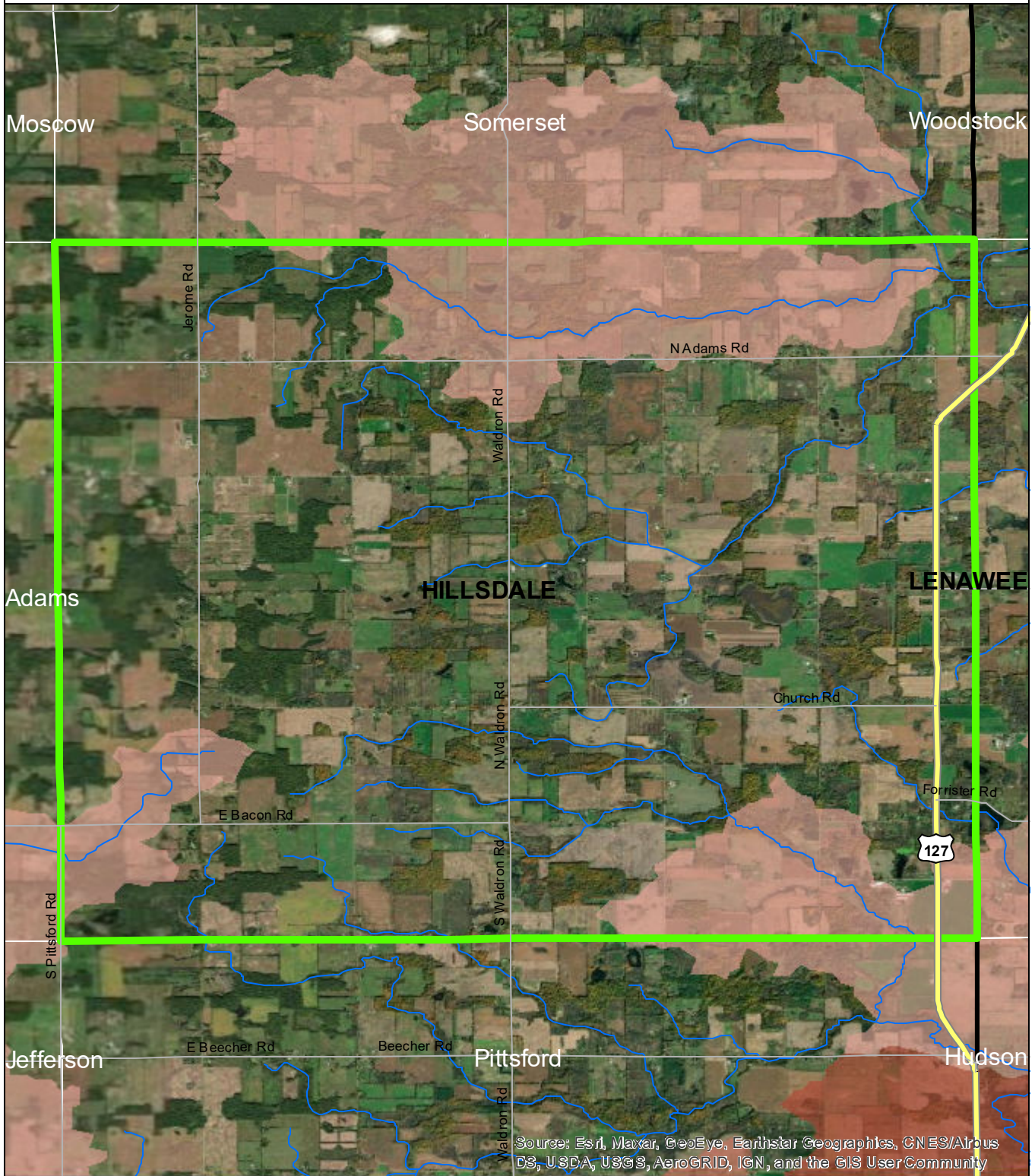
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	Van Buren Township	<b>Sediment Loading Risk</b>	0	1	2 Miles	N
	Counties		low	 		
	Rivers and Streams		moderate			
	Townships & Cities		high			
			very high			

**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



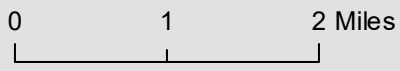
# Wheatland Township



- Wheatland Township
- Counties
- Rivers and Streams
- Townships & Cities

**Sediment Loading Risk**

- low
- moderate
- high
- very high



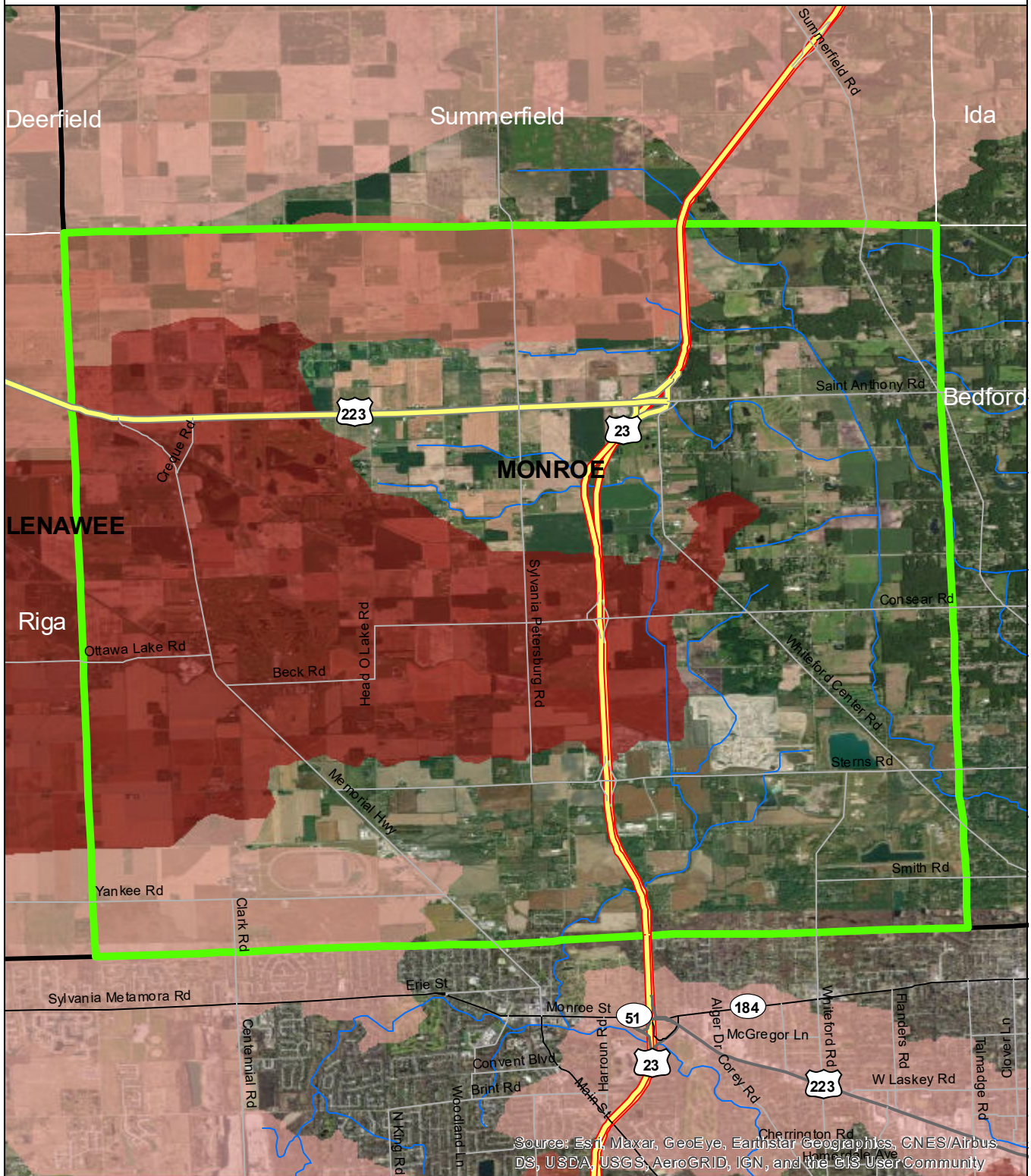
Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University





# Whiteford Township

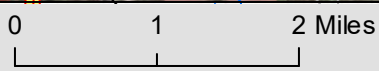


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Whiteford Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



### Data Sources

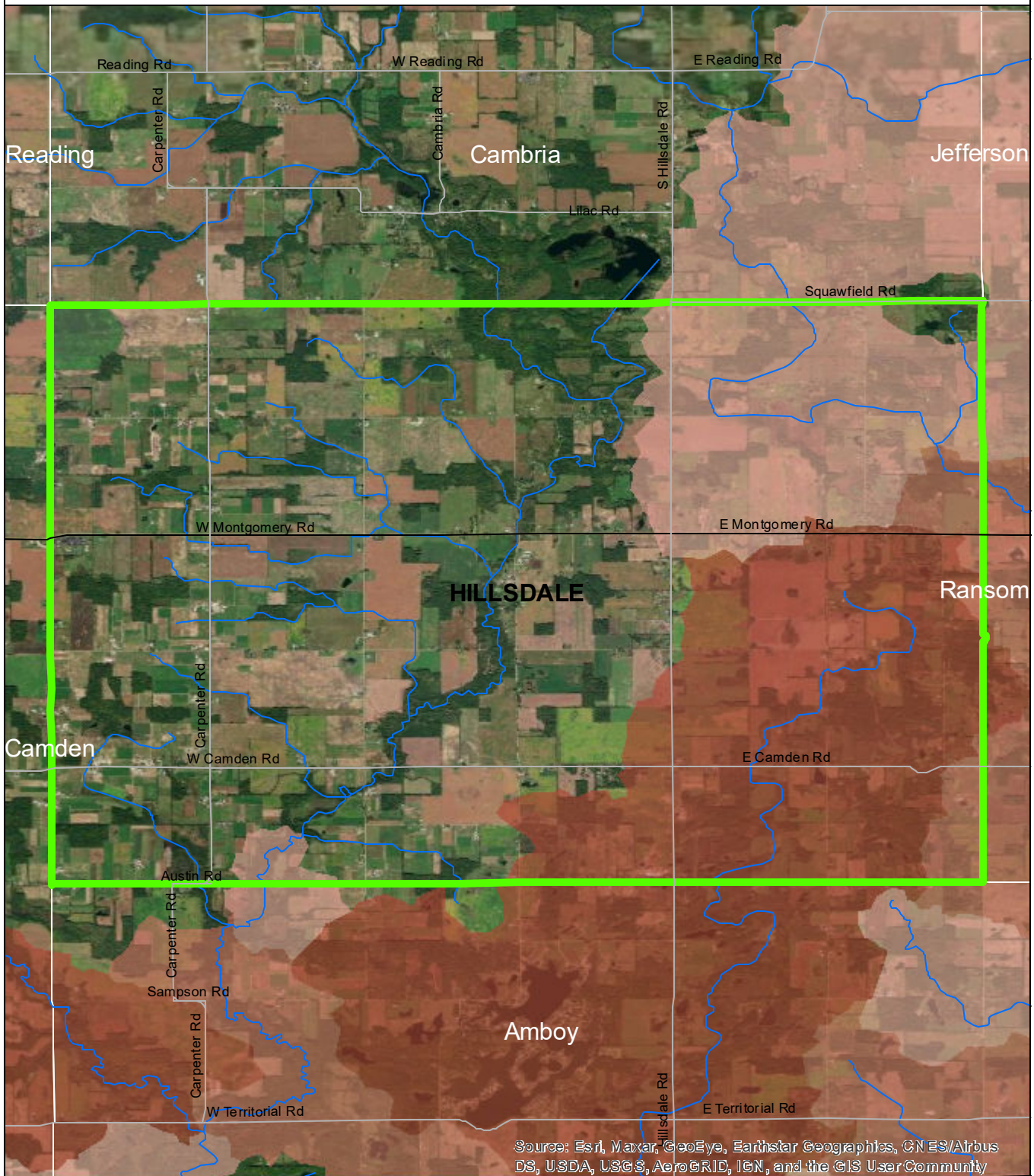
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University











# Woodbridge Township



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Woodbridge Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

### Sediment Loading Risk

-  low
-  moderate
-  high
-  very high



### Data Sources

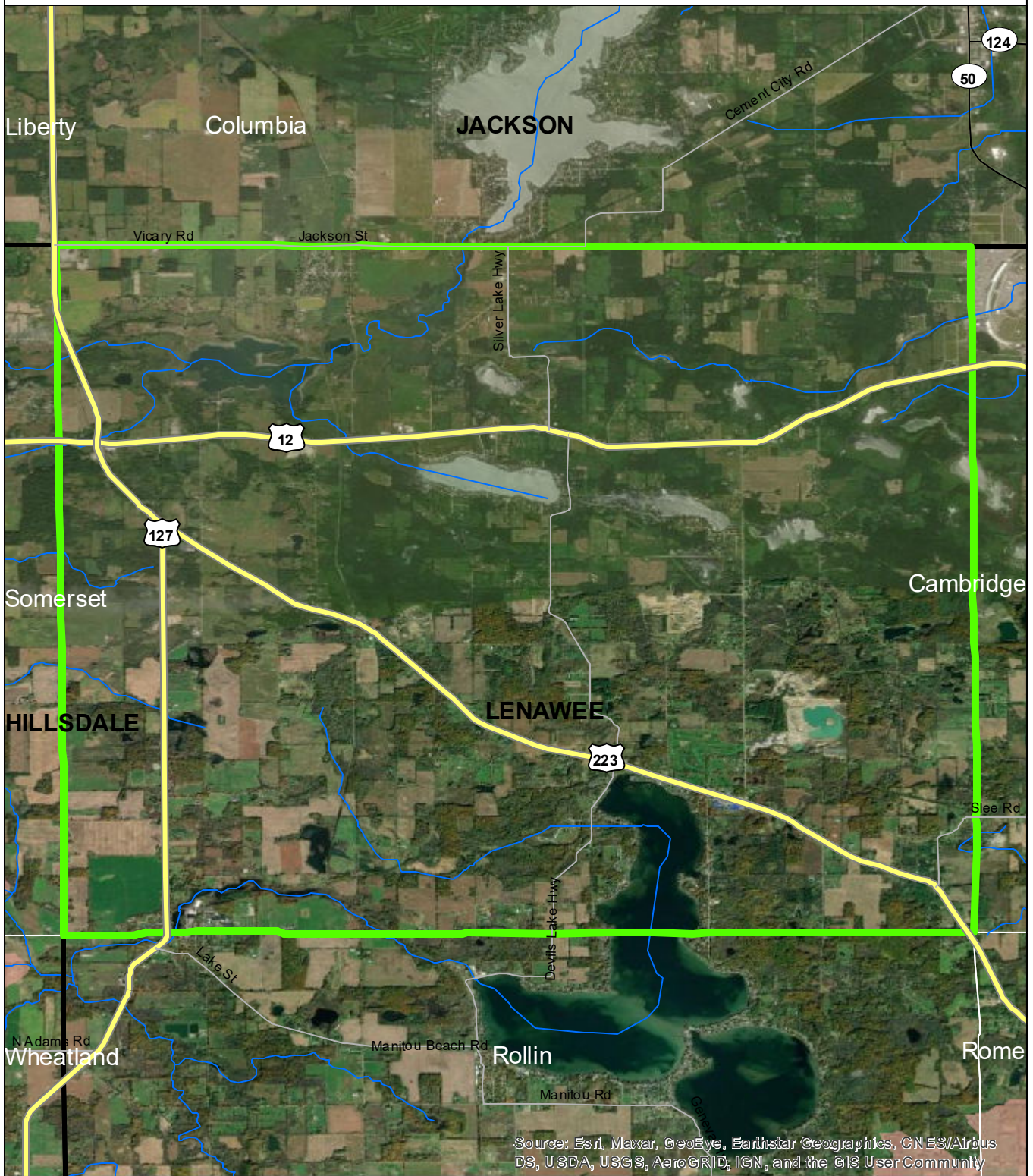
State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk

Map produced by the Institute of Water Research - Michigan State University





# Woodstock Township

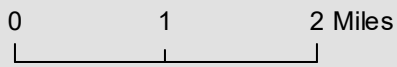


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Woodstock Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



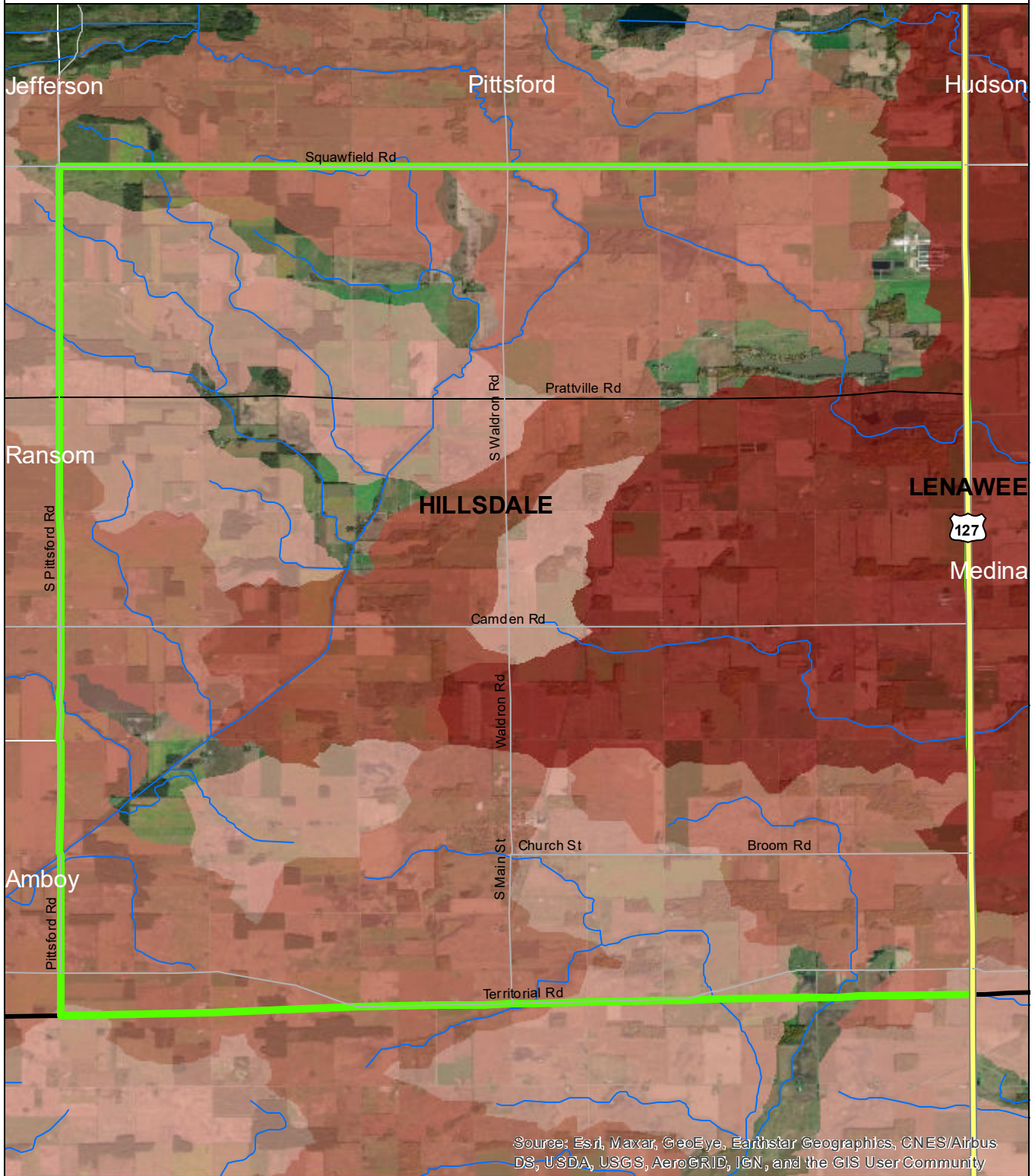
### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University













# Wright Township

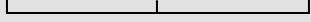


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  Wright Township
-  Counties
-  Rivers and Streams
-  Townships & Cities

- Sediment Loading Risk**
-  low
  -  moderate
  -  high
  -  very high

0 1 2 Miles

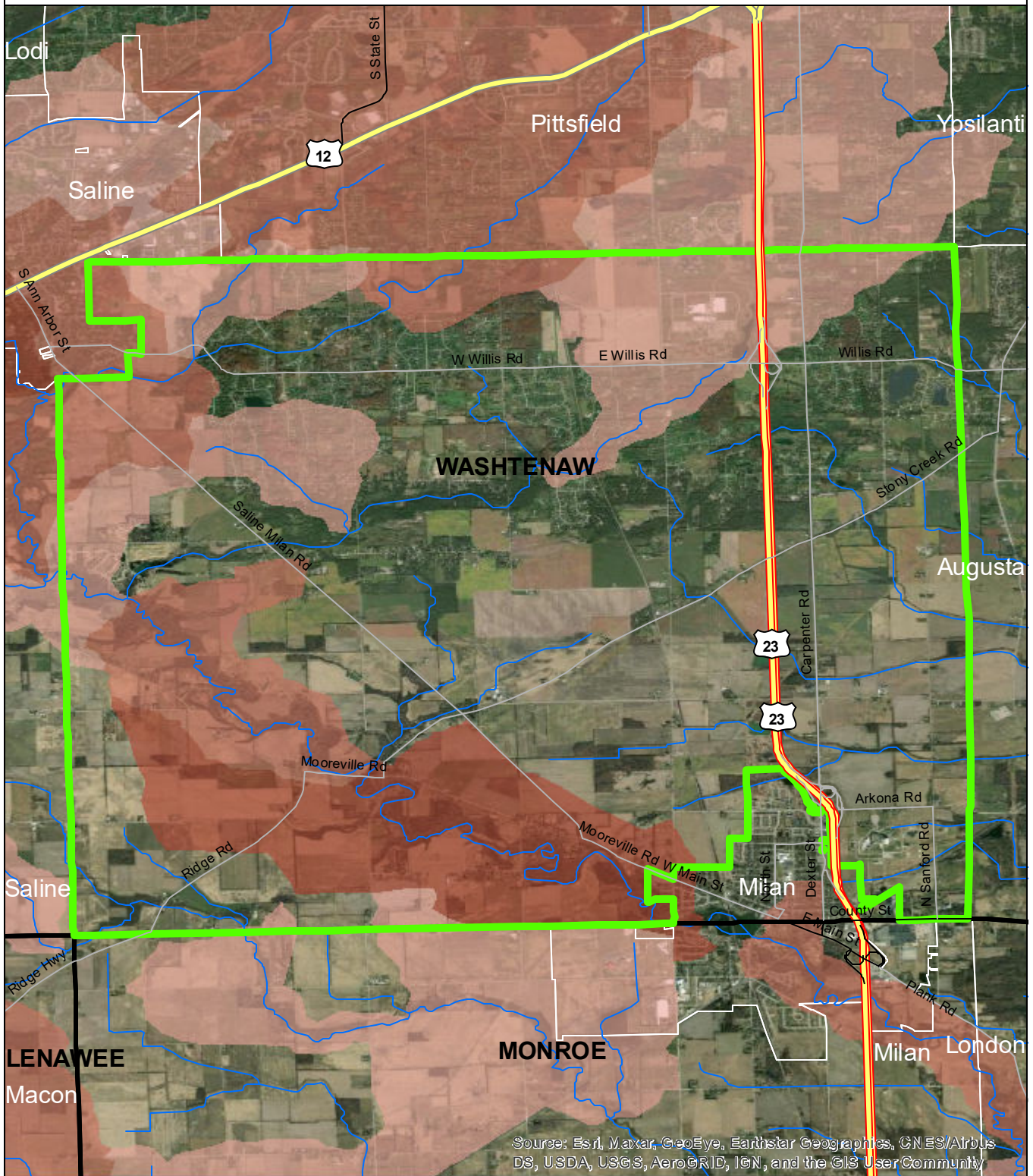


**Data Sources**  
 State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk




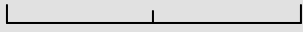





Map produced by the Institute of Water Research - Michigan State University



# York Township

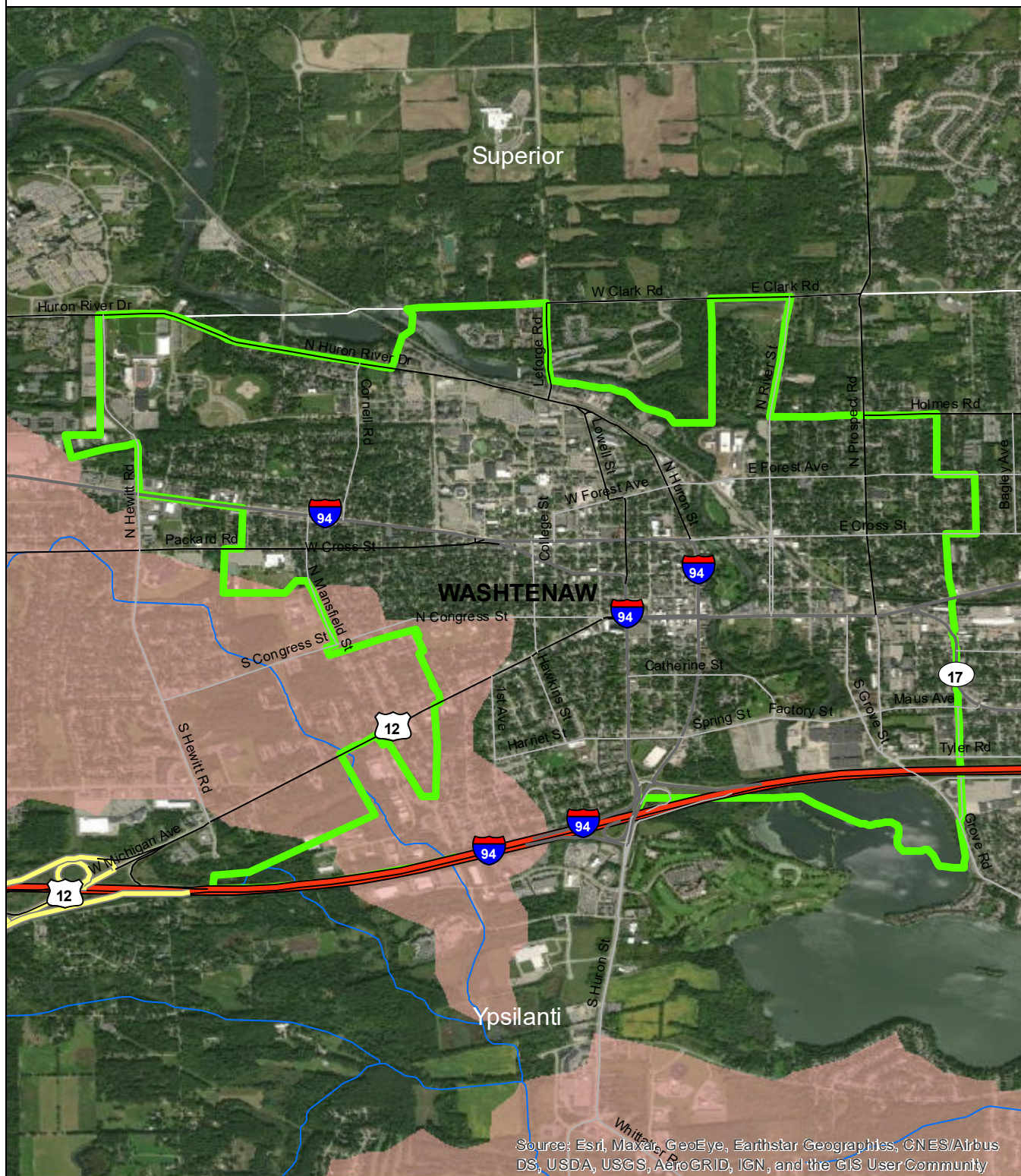


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN ES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

	York Township	<b>Sediment Loading Risk</b>	0	1	2 Miles	N ↑
	Counties		low			
	Rivers and Streams		moderate	<b>Data Sources</b>		
	Townships & Cities		high	State of Michigan: Counties, Townships & Cities		
			very high	USGS: Sediment Loading Risk		
				Map produced by the Institute of Water Research - Michigan State University		



# City of Ypsilanti

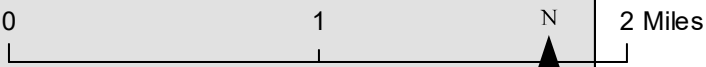


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- City of Ypsilanti
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high

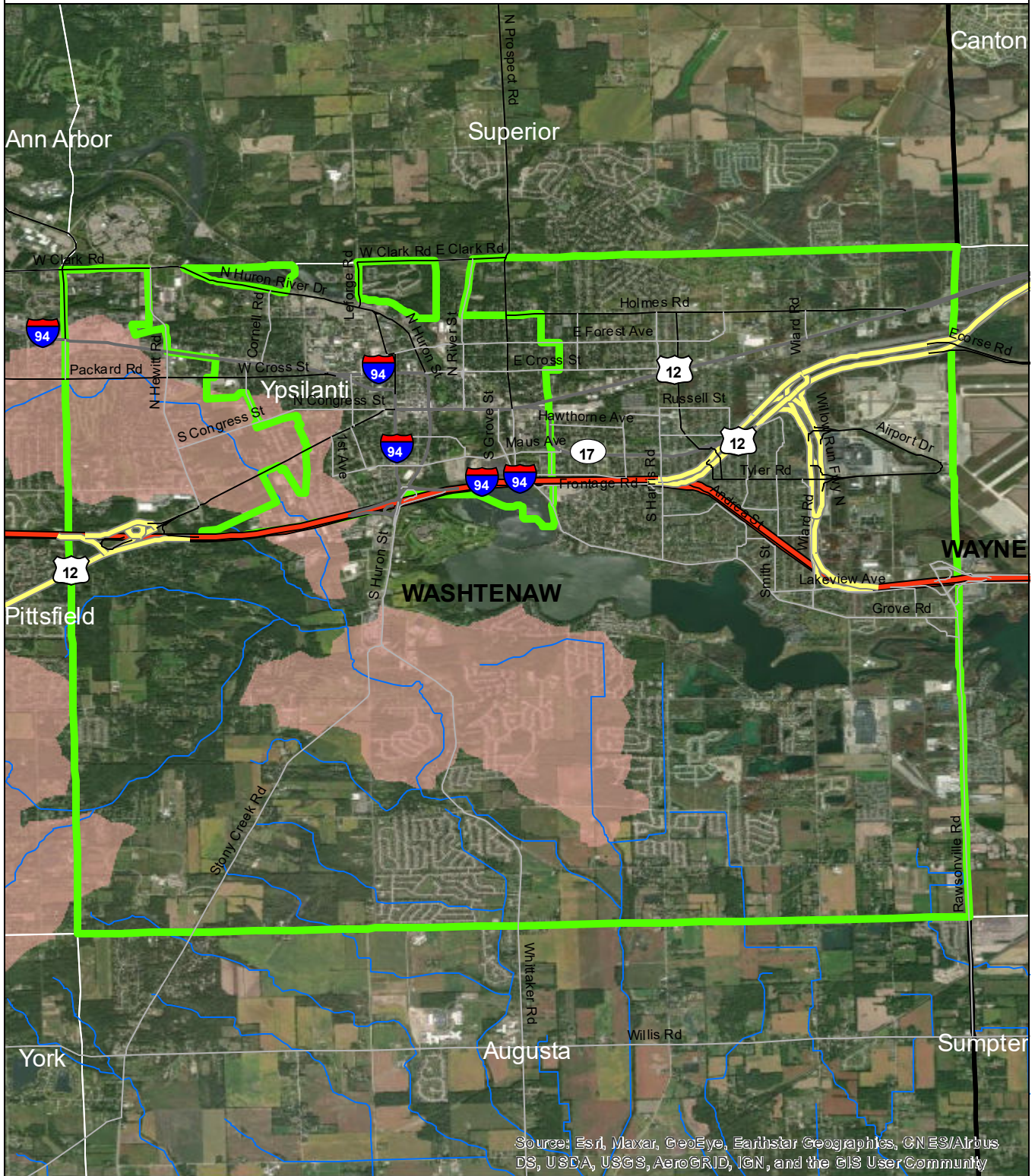


### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University



# Ypsilanti Township

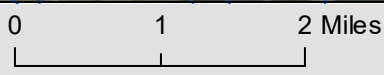


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Ypsilanti Township
- Counties
- Rivers and Streams
- Townships & Cities

### Sediment Loading Risk

- low
- moderate
- high
- very high



### Data Sources

State of Michigan: Counties, Townships & Cities  
 USGS: Sediment Loading Risk  
 Map produced by the Institute of Water Research - Michigan State University

