Ave. Annual Phosphorus Load = 51.5 tons
Adams, Columbia, Dane and Sauk Counties | 775.9 square miles

Ecological Landscape
- Western Coulees and Ridges
- Central Sand Plains
- Central Sand Hills

Sources of Phosphorus
- Wood
- Portage
- Lower Wisconsin River Corridor

Land Use
- Dairy
- Cash Grain
- Potato/Veg
- Background
- Other Urban
- Other

IMPAIRED WATERS

NONPOINT SOURCE
Ave. Annual Phosphorus Load = 51.5 tons
Adams, Columbia, Dane and Sauk Counties | 775.9 square miles

PHOSPHORUS POINT SOURCES

**Sources of Phosphorus**

- **Ecological Landscape**
  - Western Coulee and Ridges
  - Central Sand Plains

- **Land Use**
  - Grassland
  - Dairy
  - Cash Grain
  - Potato/Veg

**Impaired Waters**

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/ Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Creek</td>
<td>75</td>
<td>31-33</td>
</tr>
<tr>
<td>Duck Creek</td>
<td>75</td>
<td>3</td>
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<tr>
<td>Duck Creek, North Branch</td>
<td>75</td>
<td>2, 177</td>
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<tr>
<td>Hulbert Creek</td>
<td>75</td>
<td>243</td>
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<tr>
<td>Lyndon Creek</td>
<td>75</td>
<td>34, 35, 192</td>
</tr>
<tr>
<td>Lake Delton</td>
<td>40</td>
<td>30</td>
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<tr>
<td>Lake Wisconsin</td>
<td>100</td>
<td>1</td>
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<tr>
<td>Mirror Lake</td>
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<td>31</td>
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**Municipal WWTFs**

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
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<tbody>
<tr>
<td>Cambria</td>
<td>0023323</td>
<td>1</td>
<td>LW-1</td>
</tr>
<tr>
<td>Crockett's Resort</td>
<td>0061263</td>
<td>1</td>
<td>LW-2</td>
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<tr>
<td>Lodi</td>
<td>0022918</td>
<td>1</td>
<td>LW-3</td>
</tr>
<tr>
<td>Lyndon Station</td>
<td>0060488</td>
<td>1</td>
<td>LW-4</td>
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<tr>
<td>Portage</td>
<td>0020427</td>
<td>1</td>
<td>LW-5</td>
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<tr>
<td>Paynette</td>
<td>0021091</td>
<td>1</td>
<td>LW-6</td>
</tr>
<tr>
<td>Rio</td>
<td>00200117</td>
<td>1</td>
<td>LW-7</td>
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<tr>
<td>Wisconsin Dells/Lake Delton</td>
<td>0031402</td>
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<td>LW-8</td>
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**Industrial WWTFs**

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<th>No. Outfalls</th>
<th>Map ID</th>
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<tbody>
<tr>
<td>Del Monte Foods Cambria Plant</td>
<td>0026620</td>
<td>1</td>
<td>LW-9</td>
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<tr>
<td>Grande Cheese Corp Wyocena</td>
<td>0051764</td>
<td>1</td>
<td>LW-10</td>
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<tr>
<td>Lodi Canning Co</td>
<td>0002658</td>
<td>1</td>
<td>LW-11</td>
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<tr>
<td>Seneca Foods Corp Cambria</td>
<td>0003891</td>
<td>1</td>
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<tr>
<td>United Wisconsin Grain Producers LLC</td>
<td>0062502</td>
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<td>LW-13</td>
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<tr>
<td>Wisconsin Power &amp; Light Co Columbia</td>
<td>002780</td>
<td>2</td>
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**CAFOs**

<table>
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<td>New Chester Dairy LLC</td>
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**Permitted MS4s**

- Covered by WPDES Gen. Permit WI-S050075-2

<table>
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<tr>
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<th>Permit No.</th>
<th>Map ID</th>
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<tbody>
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<td>Portage, City</td>
<td>0050181</td>
<td>LW-16</td>
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</tbody>
</table>

**Map**

- CAFO
- WWTF Outfalls
- Permitted MS4s
**ECOLOGICAL**

- Central Sand Plains
- Central Sand Hills

**Sources of Phosphorus**

- Dairy
- Potato/Veg
- Cash Grain
- Other Urban
- WWTF

**Land Use**

- Forest
- Grassland
- Water/Wetland
- Other Urban

**IMPAIRED WATERS**

**Subbasin/Reach ID**

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baraboo River</td>
<td>100</td>
<td>4, 5, 27, 28, 137, 179, 180, 184-187, 189, 227, 231, 274</td>
<td>East Br Big Cr</td>
<td>75</td>
<td>15</td>
<td>Seymour Cr</td>
<td>75</td>
<td>23-25</td>
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<tr>
<td>W. Br. Baraboo</td>
<td>75</td>
<td>20, 138, 188</td>
<td>Hoys Creek</td>
<td>75</td>
<td>9</td>
<td>Silver Creek</td>
<td>75</td>
<td>12</td>
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<tr>
<td>Cazenovia Br</td>
<td>75</td>
<td>310</td>
<td>Hills Creek</td>
<td>75</td>
<td>21</td>
<td>South Br Creek</td>
<td>75</td>
<td>22</td>
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<tr>
<td>Cleaver Creek</td>
<td>75</td>
<td>26</td>
<td>Little Baraboo R.</td>
<td>75</td>
<td>14, 301</td>
<td>Twin Creek</td>
<td>75</td>
<td>11</td>
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<tr>
<td>Copper Creek</td>
<td>75</td>
<td>8</td>
<td>Narrows Cr</td>
<td>75</td>
<td>7, 181, 183</td>
<td>West Br Big Cr</td>
<td>75</td>
<td>13, 16</td>
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<tr>
<td>Crossman Cr</td>
<td>75</td>
<td>17, 19</td>
<td>Plum Creek</td>
<td>75</td>
<td>18</td>
<td>Hemlock Slough</td>
<td>40</td>
<td>227</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Seeley Creek</td>
<td>75</td>
<td>6</td>
<td>Redstone Lake</td>
<td>30</td>
<td>13</td>
</tr>
</tbody>
</table>

**Baraboo River Watershed**

- Ave. Annual Phosphorus Load = 118.5 tons
- Columbia, Juneau, Monroe, Richland, Sauk and Vernon Counties
- 659.3 square miles
Ave. Annual Phosphorus Load = 118.5 tons | Columbia, Juneau, Monroe, Richland, Sauk and Vernon Counties | 659.3 square miles

**PHOSPHORUS POINT SOURCES**

- Baraboo River Watershed
- Municipal WWTFs
- Permittee: Foremost Farms
  - Permit No.: 0031420
  - Map ID: B-20

- Industrial WWTFs
  - Foremost Farms
  - Permit No.: 0031420
  - Map ID: B-16

- Permitted MS4s
  - City of Baraboo
    - Permit No.: 0031420
    - Map ID: B-20

**NONPOINT SOURCE PHOSPHORUS YIELD**

- Subbasin TP Yield (lbs/acre/yr)

**Sources of Phosphorus**

- Ecological
- Land Use
- Municipal WWTFs
  - Permittee: Foremost Farms
    - Permit No.: 0031420
    - Map ID: B-20

- Industrial WWTFs
  - Foremost Farms
    - Permit No.: 0031420
    - Map ID: B-16

- Permitted MS4s
  - City of Baraboo
    - Permit No.: 0031420
    - Map ID: B-20

**Permittee**

- Permit No.
- Map ID

**Permit No.**

- Permit No.
- Map ID

**CAFOs**

- Permittee: Foremost Farms
  - Permit No.: 0031420
  - Map ID: B-20

- Hills Prairie Dairy LLC
  - Permit No.: 0062634
  - Map ID: B-21

- Kinnamon Ridge Dairy LLC
  - Permit No.: 0065129
  - Map ID: B-22

- O’Harrow’s Family Farm LLC
  - Permit No.: 0036047
  - Map ID: B-23
Ave. Annual Phosphorus Load = 74.7 tons | Jackson, Juneau and Monroe Counties | 679.5 square miles |

**Lemonweir River Watershed**

**Sources of Phosphorus**

- WWTF
- Background
- Dairy
- Cash Grain
- Other Urban
- Other

**Land Use**

- Grassland
- Forest
- Dairy
- Cash Grain
- Water/Wetland
- Other Urban

**Ecological Landscape**

- Western Lowlands and Ridges
- Central Sand Plains

**Impaired Waters**

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bear Creek</td>
<td>75</td>
<td>51, 52</td>
<td>Little Lemonweir</td>
<td>75</td>
<td>47-50, 196</td>
</tr>
<tr>
<td>Beaver Creek</td>
<td>75</td>
<td>53</td>
<td>Mill Creek</td>
<td>75</td>
<td>58, 305</td>
</tr>
<tr>
<td>Brewer Creek</td>
<td>75</td>
<td>44, 45</td>
<td>Onemile Creek</td>
<td>75</td>
<td>38, 39, 41, 42</td>
</tr>
<tr>
<td>Council Creek</td>
<td>75</td>
<td>55</td>
<td>Sevemile Creek</td>
<td>75</td>
<td>37</td>
</tr>
<tr>
<td>Lemonweir River</td>
<td>100</td>
<td>36, 194, 244, 245, 45, 195, 197, 306</td>
<td>South Fork Lemonweir River</td>
<td>75</td>
<td>34-57</td>
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<tr>
<td>Little Holten Creek</td>
<td>75</td>
<td>48</td>
<td>Tomah Lake</td>
<td>40</td>
<td>56</td>
</tr>
</tbody>
</table>

**PHOSPHORUS POINT SOURCES**

- CAFOs
- WWTF Outfalls
- Permitted MS4

**Municipal WWTFs**

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hustler WWTF</td>
<td>0032085</td>
<td>1</td>
<td>LNM-1</td>
</tr>
<tr>
<td>Mouatton WWTF</td>
<td>0024635</td>
<td>1</td>
<td>LNM-2</td>
</tr>
<tr>
<td>New Lisbon WWTF</td>
<td>0020699</td>
<td>1</td>
<td>LNM-3</td>
</tr>
<tr>
<td>Oakdale WWTF</td>
<td>0031259</td>
<td>1</td>
<td>LNM-4</td>
</tr>
<tr>
<td>Tomah WWTF</td>
<td>0021318</td>
<td>1</td>
<td>LNM-5</td>
</tr>
<tr>
<td>Warrens WWTF</td>
<td>0060259</td>
<td>1</td>
<td>LNM-6</td>
</tr>
<tr>
<td>Chapman Brothers Farms</td>
<td>0062774</td>
<td>1</td>
<td>LNM-8</td>
</tr>
</tbody>
</table>

**IMPAIRED WATERS**

**NONPOINT SOURCE, PHOSPHORUS YIELD**

- Impaired Waters
- Subbasin/Reach ID

**Lettuce River Watershed**

**IMPAIRED WATERS**

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bear Creek</td>
<td>75</td>
<td>51, 52</td>
</tr>
<tr>
<td>Beaver Creek</td>
<td>75</td>
<td>53</td>
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<tr>
<td>Brewer Creek</td>
<td>75</td>
<td>44, 45</td>
</tr>
<tr>
<td>Council Creek</td>
<td>75</td>
<td>55</td>
</tr>
<tr>
<td>Lemonweir River</td>
<td>100</td>
<td>36, 194, 244, 245, 45, 195, 197, 306</td>
</tr>
<tr>
<td>Little Holten Creek</td>
<td>75</td>
<td>48</td>
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</tbody>
</table>

**PHOSPHORUS POINT SOURCES**

- CAFOs
- WWTF Outfalls
- Permitted MS4

**Municipal WWTFs**

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hustler WWTF</td>
<td>0032085</td>
<td>1</td>
<td>LNM-1</td>
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<tr>
<td>Mouatton WWTF</td>
<td>0024635</td>
<td>1</td>
<td>LNM-2</td>
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<tr>
<td>New Lisbon WWTF</td>
<td>0020699</td>
<td>1</td>
<td>LNM-3</td>
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<tr>
<td>Oakdale WWTF</td>
<td>0031259</td>
<td>1</td>
<td>LNM-4</td>
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<tr>
<td>Tomah WWTF</td>
<td>0021318</td>
<td>1</td>
<td>LNM-5</td>
</tr>
<tr>
<td>Warrens WWTF</td>
<td>0060259</td>
<td>1</td>
<td>LNM-6</td>
</tr>
<tr>
<td>Chapman Brothers Farms</td>
<td>0062774</td>
<td>1</td>
<td>LNM-8</td>
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</table>
Ave. Annual Phosphorus Load = 94.6 tons | Adams, Juneau, Marathon, Marquette, Portage and Wood Counties | 536.1 square miles

### Sources of Phosphorus

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Sources of Phosphorus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest</td>
<td>Dairy</td>
</tr>
<tr>
<td>Central Sand Plains</td>
<td>WWTF</td>
</tr>
<tr>
<td>Central Sand Hills</td>
<td></td>
</tr>
<tr>
<td>Forest Transition</td>
<td></td>
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</tbody>
</table>

### Ecological Landscape

- Central Sand Plains
- Forest
- Water/Wetland
- Grasland
- Other Urban
- Other Urban
- Cash
- Grain
- Cash
- Grain
- WWTF

### Impaired Waters

<table>
<thead>
<tr>
<th>Name</th>
<th>Subbasin/Reach ID</th>
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<tbody>
<tr>
<td>Wisconsin River above</td>
<td>59, 73</td>
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<tr>
<td>Castle Rock Lake</td>
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<tr>
<td>Castle Rock Flowage</td>
<td>59</td>
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<tr>
<td>Petenwell Flowage</td>
<td>74</td>
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### Municipal WWTFs

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<tbody>
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<tr>
<td>O’Dell Bay SD 1</td>
<td>0036536</td>
<td>1</td>
<td>C-2</td>
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<tr>
<td>Plover</td>
<td>0027995</td>
<td>1</td>
<td>C-3</td>
</tr>
<tr>
<td>Port Edwards</td>
<td>0020451</td>
<td>1</td>
<td>C-4</td>
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<tr>
<td>Stevens Point</td>
<td>0029572</td>
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<td>C-5</td>
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<tr>
<td>Wisconsin Rapids</td>
<td>0025844</td>
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### Industrial WWTFs

<table>
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<tr>
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<tbody>
<tr>
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</tr>
<tr>
<td>Erco Worldwide</td>
<td>0003565</td>
<td>1</td>
<td>C-8</td>
</tr>
<tr>
<td>Foremost Farms USA Plover</td>
<td>0003859</td>
<td>2</td>
<td>C-9</td>
</tr>
<tr>
<td>McCain Foods USA, Inc. Plover</td>
<td>0054518</td>
<td>1</td>
<td>C-10</td>
</tr>
<tr>
<td>Neenah Paper Inc. Whiting Mill</td>
<td>0003611</td>
<td>1</td>
<td>C-11</td>
</tr>
<tr>
<td>Newpage Corp Water Quality Center</td>
<td>0037991</td>
<td>16</td>
<td>C-12</td>
</tr>
<tr>
<td>Verso Minnesota Wisconsin LLC—Water Renewal Center</td>
<td>0003468</td>
<td>7</td>
<td>C-13</td>
</tr>
<tr>
<td>Wisconsin Dairy State Cheese, Inc.</td>
<td>0055751</td>
<td>1</td>
<td>C-14</td>
</tr>
</tbody>
</table>

### Permitted MS4s

(Covered by WPDES Gen. Permit WI-50500075-2)

<table>
<thead>
<tr>
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<th>Map ID</th>
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<tbody>
<tr>
<td>Stevens Point, City</td>
<td>0031432</td>
<td>C-15</td>
</tr>
<tr>
<td>UW-Stevens Point</td>
<td>0037193</td>
<td>C-16</td>
</tr>
<tr>
<td>Wisconsin Rapids, City</td>
<td>0031440</td>
<td>C-17</td>
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### Permitted CAFOs

<table>
<thead>
<tr>
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<th>Map ID</th>
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<tbody>
<tr>
<td>Central Sands Dairy LLC</td>
<td>0063533</td>
<td>C-18</td>
</tr>
</tbody>
</table>

### PHOSPHORUS POINT SOURCES

- Wisconsin River above Castle Rock Lake
- Petenwell Flowage
- Wisconsin Rapids

- Municipal WWTFs
  - Nekoosa
  - O’Dell Bay SD 1
  - Plover
  - Port Edwards
  - Stevens Point
  - Wisconsin Rapids

- Industrial WWTFs
  - Domtar
  - Erco Worldwide
  - Foremost Farms USA Plover
  - McCain Foods USA, Inc. Plover
  - Neenah Paper Inc. Whiting Mill
  - Newpage Corp Water Quality Center
  - Verso Minnesota Wisconsin LLC—Water Renewal Center
  - Wisconsin Dairy State Cheese, Inc.

- Permitted MS4s
  - Stevens Point, City
  - UW-Stevens Point
  - Wisconsin Rapids, City

- Permitted CAFOs
  - Central Sands Dairy LLC
Ave. Annual Phosphorus Load = 94.6 tons | Adams, Juneau, Marathon, Marquette, Portage and Wood Counties | 536.1 square miles

Sources of Phosphorus:
- WWTF
- Dairy
- Potato/Veg
- Cash Grain
- Other Urban
- MS4

Land Use:
- Forest
- Grassland
- Water/Wetland

Ecological Landscape:
- Central Sand Plains
- Forest Transition
- Central Sand Hills

IMPAIRED WATERS

NONPOINT SOURCE PHOSPHORUS YIELD

Subbasin YP Yield (lbs/acre/yr)

Legend:
- Impaired Waters
- Subbasins
- Subbasin/Reach ID
### Ecological

#### Sources of Phosphorus

- **Forest Transition**
- **Central Sand Plains**
- **Forest**
- **Dairy**
- **Grassland**
- **Other Urban**
- **Cash Grain**
- **Potato/Veg**

### Land Use

- **Grassland**
- **Dairy**
- **Cash Grain**
- **Other Urban**
- **MS4**
- **Water/Wetland**

### Yellow River Watershed

#### Ave. Annual Phosphorus Load = 46.6 tons
<table>
<thead>
<tr>
<th>County</th>
<th>Area (square miles)</th>
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<tbody>
<tr>
<td>Clark</td>
<td>658.2</td>
</tr>
</tbody>
</table>

#### Impaired Waters

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beaver Creek</td>
<td>75</td>
<td>307</td>
</tr>
<tr>
<td>Cat Creek</td>
<td>75</td>
<td>65</td>
</tr>
<tr>
<td>Dovers Creek</td>
<td>75</td>
<td>62</td>
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<tr>
<td>Little Hemlock Creek</td>
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<tr>
<td>Hemlock Creek</td>
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<td>62, 201</td>
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<tr>
<td>Puff Creek</td>
<td>75</td>
<td>307</td>
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<td>Rocky Creek</td>
<td>75</td>
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<tr>
<td>Unnamed Creeks</td>
<td>75</td>
<td>67, 68, 70–72, 275, 313</td>
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<tr>
<td>Yellow River</td>
<td>75</td>
<td>60, 61, 64, 140, 199, 200, 250, 275, 307</td>
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<tr>
<td>Yellow River, S. Branch</td>
<td>75</td>
<td>69, 71</td>
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<tr>
<td>Dexter Lake</td>
<td>40</td>
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#### Municipal WWTFs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
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<tbody>
<tr>
<td>Arpin</td>
<td>0020605</td>
<td>1</td>
<td>Y-1</td>
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<tr>
<td>Exceptional Living Centers—Bethel</td>
<td>0031801</td>
<td>1</td>
<td>Y-2</td>
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<tr>
<td>Chilic</td>
<td>0023921</td>
<td>1</td>
<td>Y-3</td>
</tr>
<tr>
<td>Nededah</td>
<td>0035483</td>
<td>1</td>
<td>Y-4</td>
</tr>
<tr>
<td>Pittsville</td>
<td>0020583</td>
<td>1</td>
<td>Y-5</td>
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<tr>
<td>Vesper</td>
<td>0020516</td>
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#### Industrial WWTFs

<table>
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<th>Permit No.</th>
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<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasonville Dairy</td>
<td>0040312</td>
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<td>Y-7</td>
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#### Permitted MS4s (Covered by WPDES Gen. Permit WI-5050075-2)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>City of Marshfield</td>
<td>0031425</td>
<td>Y-8</td>
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</table>

#### CAFOs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
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<tbody>
<tr>
<td>Destiny Farms LLC</td>
<td>0064343</td>
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</tr>
<tr>
<td>Dietsche Dairy LLC</td>
<td>0059277</td>
<td>Y-10</td>
</tr>
<tr>
<td>Elusive Hill Dairy LLC</td>
<td>0062022</td>
<td>Y-11</td>
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<tr>
<td>Norm-E-Lone Inc.</td>
<td>0059421</td>
<td>Y-12</td>
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</table>

#### Yellow River Watershed Map

- Yellow River Watershed
- Portage
- Juneau
- Marathon
- Wood
- Arpin
- Exceptional Living Centers—Bethel
- Chilic
- Nededah
- Pittsville
- Vesper
- Nasonville Dairy
- City of Marshfield
- Destiny Farms LLC
- Dietsche Dairy LLC
- Elusive Hill Dairy LLC
- Norm-E-Lone Inc.
Mill Creek Watershed

Ecological Landscape
- Central Sand Plains
- Forest Transition

Sources of Phosphorus
- Municipal WWTFs
- Industrial WWTFs
- Permitted MS4s
- CAFOs

Land Use
- Forest
- Grassland
- Cash Grain
- Dairy
- Water/Wetland

Impaired Waters
- Bear Creek
- Mill Creek

Land Use

Sources of Phosphorus

Impaired Waters

Land Use

Sources of Phosphorus

Impaired Waters

Land Use
Ave. Annual Phosphorus Load = 3.3 tons | Adams, Marquette and Waushara Counties | 137.2 square miles | Little Roche a Cri Watershed

**Ecological**

Central Sand Plains

**Sources of Phosphorus**

- WWTF
- Other Urban
- Background
- Potato/Veg
- Dairy

**Land Use**

- Grassland
- Forest
- Cash Grain
- Other Urban
- Water/Wetland

**Impaired Waters**

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friendship Lake</td>
<td>40</td>
<td>75</td>
</tr>
</tbody>
</table>

**Municipal WWTFs**

- Permittee: Adams
- Permit No.: 0023159
- No. Outfalls: 1
- Map ID: LR-1

**Industrial WWTFs**

- Grande Cheese Company, Custom Ingredient Div.
- Permittee: Permit No.: 0050547
- No. Outfalls: 1
- Map ID: LR-2

**CAFOs**

- Burr Oak Heifers
- Permittee: Permit No.: 0061824
- Map ID: LR-3

- Richfield Dairy
- Permittee: Permit No.: 0064815
- Map ID: LR-4

**PHOSPHORUS POINT SOURCES**

- Wood
- Portage

**NONPOINT SOURCE PHOSPHORUS YIELD**

**Subbasin TP Yield (lbs/acre/yr)**

- 0.00 - 0.19
- 0.20 - 0.39
- 0.40 - 0.59
- 0.60 - 0.79
- 0.80 - 0.99
- 1.00 - 1.19
- 1.20 - 1.39
- 1.40 - 1.59
- 1.60 - 1.79
- 1.80 - 1.99
- ≥ 2.00
**Ave. Annual Phosphorus Load = 3.7 tons | Adams and Waushara Counties | 154.5 square miles**

**Ecological Landscape**
- Central Sand Hills
- Central Sand Plains

**Sources of Phosphorus**
- Cash Grain
- Other Urban
- Background
- Potato/Veg
- Dairy

**Land Use**
- Grassland
- Dairy
- Forest
- Water/Wetland
- Cash Grain
- Other Urban

**Impaired Waters**

**Phosphorus Point Sources**

**Nonpoint Source Phosphorus Yield**

**Big Roche a Cri Creek Watershed**
Ave. Annual Phosphorus Load = 4.2 tons
Adams, Portage, Waushara and Wood Counties | 102.2 square miles

PHOSPHORUS POINT SOURCES

IMPAIRED WATERS

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Arrowhead</td>
<td>30</td>
<td>76</td>
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<tr>
<td>Lake Sherwood</td>
<td>30</td>
<td>77</td>
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NONPOINT SOURCE

PHOSPHORUS YIELD

Land Use

Sources of Phosphorus

Ecological Landscape

Central Sand Plains

Central Sand Hills

Other Urban

Dairy

Potato/Veg

Background

Cash Grain

Subbasin/ID: Fourteenmile Creek Watershed

IMPAIRED WATERS

Wood

Portage

Adams

Waushara

CAFO

WWTF Outfalls

Permitted MS4

Subbasin TP Yield (lbs/acre/yr)

0.00-0.09

0.10-0.29

0.30-0.49

0.50-0.69

> 0.69
Ave. Annual Phosphorus Load = 3.5 tons | Adams, Portage, Waushara and Wood Counties | 83.9 square miles |

Tenmile Creek Watershed

### Sources of Phosphorus

- Dairy
- Potato/Veg
- Background
- Other Urban
- Wood

### Land Use

- Forest
- Grassland
- Dairy
- Potato/Veg
- Water/Wetland
- Other Urban

### Ecological

- Central Sand Plains
- Central Sand Hills

### IMPAIRED WATERS

- Subbasins
- Subbasin/Reach ID

### PHOSPHORUS POINT SOURCES

- CAFOS
- WWTF Outfalls
- Permitted MS4

### NONPOINT SOURCE PHOSPHORUS YIELD

- Subbasin TP Yield (lbs/acre/yr)
  - 0.0-0.3
  - 0.3-0.9
  - 0.9-2.0
  - 2.0-3.9
  - 3.9-6.0
  - 6.0-9.0
  - > 9.0

### Tenmile Creek Watershed Map

- Adams
- Portage
- Waushara

### Permits

- Permittee: Golden Sands Dairy LLC
- Permit No.: 0064980
- Map ID: TM-1
Ave. Annual Phosphorus Load = 9.0 tons  | Portage and Wood Counties | 162.6 square miles

**ECOLOGICAL LANDSCAPE**

**Sources of Phosphorus**

**Permitted MS4s (Covered by WPDES Gen. Permit WI-5050075-2)**

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wisconsin Rapids</td>
<td>0031046</td>
<td>F-1</td>
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</tbody>
</table>

**PHOSPHORUS POINT SOURCES**

**NONPOINT SOURCE**

**IMPAIRED WATERS**

**Land Use**
Ave. Annual Phosphorus Load = 6.0 tons | Langlade, Portage, Shawano and Wood Counties | 181.2 square miles

**Sources of Phosphorus**

- Wood
- Municipal WWTFs
- Permittee
- Permit No.
- Map ID

**Permitted MS4s**
(Covered by WPDES Gen. Permit WI-5050075-2)

**CAFOs**

<table>
<thead>
<tr>
<th>Name</th>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fischer Clark Dairy</td>
<td>City of Stevens Point</td>
<td>0031432</td>
<td>1</td>
<td>P-2</td>
</tr>
<tr>
<td>Lost Lake</td>
<td>Whiting</td>
<td>0021636</td>
<td>1</td>
<td>P-1</td>
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</table>

**Langlade, Portage, Shawano and Wood Counties**

**Impaired Waters**

- Lost Lake

**Land Use**

- Grassland
- Forest
- Dairy
- Cash Grain
- Potato/Veg
- Other Urban
- MS4
- Water/Wetland

**Ecological Landscape**

- Central Sand Hills
- Forest Transition
- Central Sand Plains

**Nonpoint Source Phosphorus Yield**

- Subbasin TP Yield (lbs/acre/yr)

**Phosphorus Point Sources**

- Impaired Waters
- Subbasins/Reach ID

**Subbasins**

- Marathon
- Portage
- Langlade
- Shawano

**Permitted MS4s**

- Fischer Clark Dairy
  - Permittee
  - Permit No.
  - Map ID
### Upper Wisconsin River Corridor

Ave. Annual Phosphorus Load = 65.3 tons

Lincoln, Marathon, and Portage County  |  539.0 square miles

---

#### Sources of Phosphorus

- **Ecological**
- **Land Use**
- **Sources of Phosphorus**

---

#### Impaired Waters

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Eau Pleine River</td>
<td>75</td>
<td>86</td>
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<tr>
<td>Little Eau Pleine River</td>
<td>75</td>
<td>81</td>
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<tr>
<td>Lake Delagey</td>
<td>100</td>
<td>81</td>
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#### Municipal WWTFs

<table>
<thead>
<tr>
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<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
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<tbody>
<tr>
<td>Brokaw</td>
<td>0022136</td>
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<td>U-1</td>
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<tr>
<td>Merrill</td>
<td>0020150</td>
<td>1</td>
<td>U-2</td>
</tr>
<tr>
<td>Rib Mountain</td>
<td>0035581</td>
<td>1</td>
<td>U-3</td>
</tr>
<tr>
<td>Tomahawk</td>
<td>0021946</td>
<td>1</td>
<td>U-4</td>
</tr>
<tr>
<td>Wausau</td>
<td>0025739</td>
<td>1</td>
<td>U-5</td>
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#### Industrial WWTFs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
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<tbody>
<tr>
<td>Domtar Paper Inc.</td>
<td>0026042</td>
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<tr>
<td>Expera Specialty Solutions LLC</td>
<td>0003671</td>
<td>5</td>
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<td>Formost Farms USA Rothschild</td>
<td>0003875</td>
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<td>U-8</td>
</tr>
<tr>
<td>Lignotech USA Inc</td>
<td>003450</td>
<td>2</td>
<td>U-9</td>
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<tr>
<td>Mullin Cheese Inc</td>
<td>0054127</td>
<td>1</td>
<td>U-10</td>
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<tr>
<td>Wisconsin Public Service Corp Weston 1 &amp; 2</td>
<td>0003131</td>
<td>3</td>
<td>U-12</td>
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<td>Wisconsin Public Service Corp Weston 3 &amp; 4</td>
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#### Permitted MS4s

(Covered by WPDES Gen. Permit WI-S0500075-2)

<table>
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<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kronenwetter, Village</td>
<td>0031046</td>
<td>U-14</td>
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<tr>
<td>Merrill, City of</td>
<td>0031427</td>
<td>U-15</td>
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<tr>
<td>Mosinee, City of</td>
<td>0031050</td>
<td>U-16</td>
</tr>
<tr>
<td>Rib Mountain, Town</td>
<td>0031053</td>
<td>U-17</td>
</tr>
<tr>
<td>Rothschild, Village</td>
<td>0031055</td>
<td>U-18</td>
</tr>
<tr>
<td>Schofield, City of</td>
<td>0031056</td>
<td>U-19</td>
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<td>Wausau, City of</td>
<td>0031058</td>
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</tr>
<tr>
<td>Weston, Village</td>
<td>0031060</td>
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#### CAFOs

<table>
<thead>
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<tbody>
<tr>
<td>Van Der Geest Dairy Cattle, Inc.</td>
<td>0059293</td>
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</table>

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**PHOSPHORUS POINT SOURCES**

- CAFO
- WWTF Outfalls
- Permitted MS4
### Upper Wisconsin River Corridor

- **Ave. Annual Phosphorus Load**: 65.3 tons
- **Lincoln, Marathon, and Portage County**: 539.0 square miles

#### Ecological Landscape
- North Central Forest
- Central Sand Plains
- Northern Highland
- Forest Transition

#### Sources of Phosphorus
- **PHOSPHORUS POINT SOURCES**: Impaired Waters
  - Subbasin/Reach ID: Portage, Marathon, Lincoln

#### Land Use
- Background
- Dairy
- MS4
- Cash Grain
- Other Urban
- Grassland
- Water/Wetland
- Forest

**Impaired Waters**
- Subbasin 1D Yield (lbs/acre/yr)
  - Values range from 0.0 to 1.0 lbs/acre/yr
Ave. Annual Phosphorus Load = 38.3 tons | Clark, Marathon, Portage and Wood Counties | 250.0 square miles

**Ecological Landscape**
- Forest Transition

**Sources of Phosphorus**
- Other: Urban
- MS4
- WWTF
- Background
- Cash Grain
- Dairy

**Land Use**
- Forest
- Grassland
- Water/Wetland
- MS4
- Other Urban

**Impaired Waters**

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Little Bear Creek</td>
<td>75</td>
<td>79, 82, 211</td>
</tr>
<tr>
<td>Little Eau Pleine River</td>
<td>75</td>
<td>80, 85, 150, 212, 213</td>
</tr>
<tr>
<td>Squaw Creek</td>
<td>75</td>
<td>84</td>
</tr>
<tr>
<td>Wild Creek</td>
<td>75</td>
<td>83, 328</td>
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**Municipal WWTFs**

<table>
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<tr>
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<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aubumdale</td>
<td>0022411</td>
<td>1</td>
<td>LEP-1</td>
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<tr>
<td>Rozelleville</td>
<td>0029076</td>
<td>1</td>
<td>LEP-2</td>
</tr>
<tr>
<td>Spencer</td>
<td>0021521</td>
<td>1</td>
<td>LEP-3</td>
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<tr>
<td>Unity</td>
<td>0060526</td>
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<td>LEP-4</td>
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**Industrial WWTFs**

<table>
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<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mullins Cheese</td>
<td>0053694</td>
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</table>

**Permitted MS4s** *(Covered by WPDES Gen. Permit WI-5005075-2)*

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Marshfield</td>
<td>0031425</td>
<td>LEP-6</td>
</tr>
</tbody>
</table>

**CAFOs**

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Night Hawk Dairy LLC</td>
<td>0065609</td>
<td>LEP-7</td>
</tr>
</tbody>
</table>
**Rib River Watershed**

**Ave. Annual Phosphorus Load = 52.2 tons | Langlade, Marathon and Taylor Counties | 488.2 square miles**

### Ecological

**Sources of Phosphorus**

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Background</th>
<th>Dairy</th>
<th>Cash Grain</th>
<th>Forest</th>
<th>Other Urban</th>
<th>Water/Wetland</th>
</tr>
</thead>
</table>

### Impaired Waters

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Rib River</td>
<td>75</td>
<td>276</td>
</tr>
<tr>
<td>Black Creek</td>
<td>75</td>
<td>101, 104, 215</td>
</tr>
<tr>
<td>Mink Creek</td>
<td>75</td>
<td>276</td>
</tr>
<tr>
<td>Scotch Creek</td>
<td>75</td>
<td>101, 105, 106</td>
</tr>
</tbody>
</table>

### Municipal WWTFs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
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<tbody>
<tr>
<td>Athens</td>
<td>0022365</td>
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<td>R-1</td>
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<tr>
<td>Edgar</td>
<td>0021784</td>
<td>1</td>
<td>R-2</td>
</tr>
<tr>
<td>Marathon</td>
<td>0020273</td>
<td>1</td>
<td>R-3</td>
</tr>
<tr>
<td>Rib Lake</td>
<td>0029017</td>
<td>1</td>
<td>R-4</td>
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</table>

### Permitted MS4s

(Covered by WPDES Gen. Permit WI-5050075-2)

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
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<tbody>
<tr>
<td>City of Wausau</td>
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</table>

### CAFOs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kingdom Haven Dairy</td>
<td>0062391</td>
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</tr>
<tr>
<td>Miltrim Dairy</td>
<td>0061638</td>
<td>R-7</td>
</tr>
<tr>
<td>Rausch Family Farms</td>
<td>0062405</td>
<td>R-8</td>
</tr>
<tr>
<td>Double P Dairy LLC</td>
<td>0062031</td>
<td>R-9</td>
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</tbody>
</table>
Ave. Annual Phosphorus Load = 6.7 tons | Lincoln and Marathon Counties | 97.5 square miles

Copper River Watershed

Ecological Landscape

Sources of Phosphorus

Land Use

IMPAIRED WATERS

PHOSPHORUS POINT SOURCES

NONPOINT SOURCE PHOSPHORUS YIELD

Land Use

- Grassland
- Forest
- Other
- Urban
- Water/Wetland
- Dairy

Sources of Phosphorus

- Copper River Watershed
- IMPAIRED WATERS
- Nonpoint source phosphorus yield
- Point sources of phosphorus
- Lincoln
- Marathon

Subbasin ID

- 293

CAFO
- WWTF Outfalls
- Permitted MS4
### Ecological

<table>
<thead>
<tr>
<th>Impaired Waters</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Brook Creek</td>
<td>75</td>
<td>107, 216</td>
</tr>
<tr>
<td>West Branch Eau Claire River</td>
<td>75</td>
<td>108</td>
</tr>
</tbody>
</table>

### Sources of Phosphorus

**Land Use**
- North Central Forest
- Forest Transition
- WWTF
- Dairy
- Grassland
- Other Urban

**Phosphorus Point Sources**

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antigo</td>
<td>0022144</td>
<td>EC-1</td>
</tr>
<tr>
<td>Sartori Company</td>
<td>0032794</td>
<td>EC-2</td>
</tr>
<tr>
<td>City of Schofield</td>
<td>0031056</td>
<td>EC-3</td>
</tr>
<tr>
<td>City of Wausau</td>
<td>0031058</td>
<td>EC-4</td>
</tr>
<tr>
<td>City of Weston</td>
<td>0031060</td>
<td>EC-5</td>
</tr>
<tr>
<td>Nagel Dairy Farm LLC</td>
<td>0063819</td>
<td>EC-6</td>
</tr>
<tr>
<td>Spring Breeze Dairy LLC</td>
<td>0066281</td>
<td>EC-7</td>
</tr>
</tbody>
</table>

### Municipal WWTFs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antigo</td>
<td>0022144</td>
<td>EC-1</td>
</tr>
</tbody>
</table>

### Industrial WWTFs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sartori Company</td>
<td>0032794</td>
<td>EC-2</td>
</tr>
</tbody>
</table>

### Permitted MS4s

(Covered by WPDES Gen. Permit WI-5050075-2)

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit ID No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Schofield</td>
<td>0031056</td>
<td>EC-3</td>
</tr>
<tr>
<td>City of Wausau</td>
<td>0031058</td>
<td>EC-4</td>
</tr>
<tr>
<td>City of Weston</td>
<td>0031060</td>
<td>EC-5</td>
</tr>
</tbody>
</table>

### CAFOs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nagel Dairy Farm LLC</td>
<td>0063819</td>
<td>EC-6</td>
</tr>
<tr>
<td>Spring Breeze Dairy LLC</td>
<td>0066281</td>
<td>EC-7</td>
</tr>
</tbody>
</table>
Ave. Annual Phosphorus Load = 25.4 tons | Langlade and Marathon Counties | 455.2 square miles

**Sources of Phosphorus**

- **Dairy**
- **Cash Grain**
- **Potato/Veg**
- **Other Urban**
- **MS4**
- **Background**

**Land Use**

- **Forest**
- **Grassland**
- **Dairy**
- **Potato/Veg**
- **Cash Grain**
- **Other Urban**
- **Water/Wetland**

**Ecological**

**Eau Claire River Watershed**

**IMPAIRED WATERS**

**NONPOINT SOURCE PHOSPHORUS YIELD**

**Subbasin TP Yield (lbs/acre/yr)**

- **Eau Claire River Watershed**
- **Impaired Waters**
- **Subbasins**
- **Reach ID**
Ave. Annual Phosphorus Load = 7.6 tons | Langlade, Lincoln and Marathon Counties | 90.3 square miles

**Sources of Phosphorus**
- Dairy
- Cash Grain
- Background
- Other
- Urban

**Land Use**
- Grassland
- Dairy
- Cash Grain
- Other
- Urban
- Water/Wetland

**Ecological**
- Forest Transition

**IMPAIRED WATERS**
- Impaired Waters
- Subbasins
- Subbasin/Reach ID

**PHOSPHORUS POINT SOURCES**
- CAFO
- WWTF Outfalls
- Permitted MS4

**NONPOINT SOURCE PHOSPHORUS YIELD**
- Subbasin TP Yield (Bz/acre/yr)

**Trappe River Watershed**
- Marathon
- Langlade
- Lincoln
Ave. Annual Phosphorus Load = 6.0 tons | Langlade and Lincoln Counties | 121.4 square miles

PHOSPHORUS POINT SOURCES

PHOSPHORUS YIELD

NONPOINT SOURCE

Pine River Watershed

Ecological Landscape

Sources of Phosphorus

Land Use

Impaired Waters

Subbasin/Reach ID

CAFO

WWTF Outfalls

Permitted MS4

Subbasin TP Yield (lbs/acre/yr)
Ave. Annual Phosphorus Load = 12.9 tons | Langlade, Lincoln, and Oneida Counties | 230.4 square miles |

**ECOLOGICAL LANDSCAPE**

- North Central Forest
- Forest Transition
- Other Urban
- Background

**SOURCES OF PHOSPHORUS**

- Wood
- Municipal WWTFs
- Permitted MS4s

**LAnd USE**

- Dairy
- Cash Grain
- Other Urban
- MS4
- Grassland
- Wetland
- Water/Wetland

**IMPAIRED WATERS**

**PHOSPHORUS POINT SOURCES**

**NONPOINT SOURCE PHOSPHORUS YIELD**

**MUNICIPAL WWTFs**

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russell Sanitary District #1</td>
<td>0029319</td>
<td>1</td>
<td>PR-1</td>
</tr>
<tr>
<td>WI DOC Lincoln Hills School</td>
<td>0026701</td>
<td>2</td>
<td>PR-2</td>
</tr>
</tbody>
</table>

**PERMITTED MS4s**

(Covered by WPDES Gen. Permit WI-5050075-2)

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit ID No.</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merrill, City</td>
<td>0031427</td>
<td>PR-3</td>
</tr>
</tbody>
</table>
**Ave. Annual Phosphorus Load = 43.2 tons | Lincoln, Oneida and Vilas Counties | 737.5 square miles**

### Ecological Landscape
- North Central Forest
- Northern Highland

### Sources of Phosphorus
- Background
- Dairy
- WWTF
- Other Urban

### Land Use
- Grassland
- Forest
- Other Urban
- Water/Wetland

### Impaired Waters
<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
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</thead>
<tbody>
<tr>
<td>Boot Lake</td>
<td>40</td>
<td>285</td>
</tr>
<tr>
<td>Dom Lake (Sugar Camp Chain)</td>
<td>15</td>
<td>126</td>
</tr>
<tr>
<td>Lower Buckatabon Lake</td>
<td>15</td>
<td>129</td>
</tr>
<tr>
<td>Muskellunge Lake</td>
<td>40</td>
<td>127</td>
</tr>
<tr>
<td>Myrtle Lake</td>
<td>20</td>
<td>283</td>
</tr>
<tr>
<td>Sand Lake (Sugar Camp Chain)</td>
<td>15</td>
<td>125</td>
</tr>
<tr>
<td>Twin Lakes</td>
<td>15</td>
<td>283</td>
</tr>
<tr>
<td>Upper Buckatabon Lake</td>
<td>15</td>
<td>130</td>
</tr>
</tbody>
</table>

### Municipal WWTFs
<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Tomahawk SD</td>
<td>0036374</td>
<td>1</td>
<td>HW-1</td>
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<tr>
<td>Rhinelander</td>
<td>0020044</td>
<td>1</td>
<td>HW-2</td>
</tr>
<tr>
<td>Three Lakes SD</td>
<td>0022853</td>
<td>1</td>
<td>HW-3</td>
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</table>

### Industrial WWTFs
<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expera Specialty Solutions</td>
<td>0003026</td>
<td>7</td>
<td>HW-4</td>
</tr>
<tr>
<td>Packaging Corporation of America</td>
<td>0002810</td>
<td>2</td>
<td>HW-5</td>
</tr>
</tbody>
</table>

---

**PHOSPHORUS POINT SOURCES**

- Wisconsin River Headwaters
- Portage
- Portage Headwaters
- Lincoln
- Oneida
- Vilas
- Lake Tomahawk SD
- Rhinelander
- Three Lakes SD
- Expera Specialty Solutions
- Packaging Corporation of America
Ave. Annual Phosphorus Load = 43.2 tons | Lincoln, Oneida and Vilas Counties | 737.5 square miles

Sources of Phosphorus

- Portage
- Lincoln
- Oneida
- Vilas

PHOSPHORUS POINT SOURCES

IMPAIRED WATERS

Land Use

- Grassland
- Dairy
- Other Urban
- Forest
- Water/Wetland

Ecological Landscape

- Northern Highland
- North Central Forest
Ave. Annual Phosphorus Load = 8.4 tons | Lincoln, Price and Taylor Counties | 159.7 square miles

**Impaired Waters**

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Spirit Lake</td>
<td>40</td>
<td>110</td>
</tr>
<tr>
<td>Spirit Lake</td>
<td>30</td>
<td>109</td>
</tr>
<tr>
<td>Spirit River Flowage</td>
<td>40</td>
<td>111</td>
</tr>
</tbody>
</table>

**Sources of Phosphorus**

- North Central Forest
- Northern Highland
- Background
- Other
- Urban

**Land Use**

- Forest
- Grassland
- Water/Wetland
- Other
- Urban

**Ecological**

**Nonpoint Source Phosphorus Yield**

**Impaired Waters**

**Phosphorus Point Sources**

CAFO
WWTF Outfalls
Permitted MS4
Ave. Annual Phosphorus Load = 6.4 tons  |  Lincoln, Oneida and Price Counties  |  135.6 square miles

PHOSPHORUS POINT SOURCES

Somo River Watershed

IMPAIRED WATERS

Sources of Phosphorus

Ecological Landscape

Land Use

PHOSPHORUS YIELD

NONPOINT SOURCE PHOSPHORUS YIELD
**Tomahawk River Watershed**

**Ave. Annual Phosphorus Load = 11.7 tons** | **Lincoln, Price, Oneida and Vilas Counties** | **557.1 square miles**

### Ecological Landscape
- North Central Forest
- Northern Highland
- Sources of Phosphorus
  - Municipal WWTFs
  - Permittee
  - Permit No.
  - Map ID
  - Outfalls

### Impaired Waters
![Impaired Waters Map]

### Phosphorus Point Sources
![Phosphorus Point Sources Map]

### Nonpoint Source Phosphorus Yield
![Nonpoint Source Phosphorus Yield Map]

### Sources of Phosphorus
- Other Urban
- Background
- Lakes
- Water/Wetland
- Forest

### Land Use
- Other Urban
- Water/Wetland
- Forest

### Impaired Waters

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Arbor Vitoe Lake</td>
<td>30</td>
<td>133</td>
</tr>
<tr>
<td>Bearskin Lake</td>
<td>40</td>
<td>115</td>
</tr>
<tr>
<td>Hancock Lake</td>
<td>40</td>
<td>113</td>
</tr>
<tr>
<td>Kowaguesago Lake</td>
<td>15</td>
<td>135</td>
</tr>
<tr>
<td>Little Arbor Vitoe Lake</td>
<td>30</td>
<td>133</td>
</tr>
<tr>
<td>Little Bearskin Lake</td>
<td>30</td>
<td>309</td>
</tr>
<tr>
<td>Minocqua Lake</td>
<td>15</td>
<td>134</td>
</tr>
</tbody>
</table>

### Municipal WWTFs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lokeland SD</td>
<td>0022837</td>
<td>1</td>
<td>T-1</td>
</tr>
</tbody>
</table>

### Industrial WWTFs

<table>
<thead>
<tr>
<th>Permittee</th>
<th>Permit ID No.</th>
<th>No. Outfalls</th>
<th>Map ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>WI DNR Art</td>
<td>0058271</td>
<td>2</td>
<td>T-2</td>
</tr>
</tbody>
</table>

### Impaired Subbasins
- Big Arbor Vitoe Lake
- Bearskin Lake
- Hancock Lake
- Kowaguesago Lake
- Little Arbor Vitoe Lake
- Little Bearskin Lake
- Minocqua Lake

### TP Standard (ug/L)
- Big Arbor Vitoe Lake: 30
- Bearskin Lake: 40
- Hancock Lake: 40
- Kowaguesago Lake: 15
- Little Arbor Vitoe Lake: 30
- Little Bearskin Lake: 30
- Minocqua Lake: 15

### Subbasin/Reach ID
- Big Arbor Vitoe Lake: 133
- Bearskin Lake: 115
- Hancock Lake: 113
- Kowaguesago Lake: 135
- Little Arbor Vitoe Lake: 133
- Little Bearskin Lake: 309
- Minocqua Lake: 134
Ave. Annual Phosphorus Load = 5.7 tons | Forest, Oneida and Vilas Counties | 236.7 square miles

**Sources of Phosphorus**

- Land Use
  - Forest
  - Grassland
  - Water/Wetland
  - Dairy
  - Other Urban

**Ecological**

- Northern Highland
- North Central Forest
- Background

**Impaired Waters**

- Big Fork Lake: 15, 119
- Big Lake: 15, 116
- Big Sand Lake: 15, 136
- Big Stone Lake: 15, 118
- Cranberry Lake: 40, 122
- Deer Lake: 15, 117
- Dog Lake: 15, 117
- Eagle Lake (Eagle Chain): 15, 123
- Laurel Lake: 15, 118
- Medicine Lake: 15, 118
- Mud Lake: 40, 117
- Sevenmile Lake: 15, 151

**Phosphorus Point Sources**

- Eagle River
- Phelps SD #1

**Nonpoint Source Phosphorus Yield**

- Eagle River Watershed

**Municipal WWTFs**

- Eagle River: Permit No. 0022004, Outfalls 1, Map ID BEP-1
- Phelps SD #1: Permit No. 0029050, Outfalls 1, Map ID BEP-2
Ave. Annual Phosphorus Load = 6.4 tons | Langlade, Lincoln, and Oneida Counties | 264.9 square miles

**Ecological Landscape**

- Northern Highland
- North Central Forest
- Forest
- Water/Wetland
- Other Urban
- Dairy
- Cash Grain

**Sources of Phosphorus**

- Forest
- Other Urban
- Dairy
- Cash Grain

**Land Use**

- Dairy
- Cash Grain
- Other Urban
- Forest
- Water/Wetland

**IMPAIRED WATERS**

<table>
<thead>
<tr>
<th>Name</th>
<th>TP Standard (ug/L)</th>
<th>Subbasin/Reach ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Lake</td>
<td>40</td>
<td>112</td>
</tr>
<tr>
<td>Moen Lake</td>
<td>40</td>
<td>114</td>
</tr>
<tr>
<td>Pelican Lake</td>
<td>40</td>
<td>282</td>
</tr>
<tr>
<td>Thompson Lake</td>
<td>30</td>
<td>273</td>
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</tbody>
</table>

**PHOSPHORUS POINT SOURCES**

- Langlade, Lincoln, and Oneida Counties
- 264.9 square miles

**NONPOINT SOURCE PHOSPHORUS YIELD**

- Pelican River Watershed
- Clark

- IMPAIRED WATERS
  - Name: Moen Lake
  - TP Standard: 40 ug/L
  - Subbasin/Reach ID: 114

- PHOSPHORUS POINT SOURCES
  - Langlade, Lincoln, and Oneida Counties
  - 264.9 square miles

- NONPOINT SOURCE PHOSPHORUS YIELD
  - Pelican River Watershed
  - Clark