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B1. Facts and Figures

Ohio is a water-rich state, bounded on the south by the Ohio River and the north by Lake Erie. These water bodies, as well as thousands of miles of inland streams and rivers and thousands of acres of lakes and wetlands, contribute to the quality of life of Ohio’s citizens. The size and scope of Ohio’s water resources are outlined in Table B-1.

Table B-1 — Ohio’s water resource statistics.

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
<th>Source</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>State population</td>
<td>11,536,504</td>
<td>2010 Census (^1)</td>
<td></td>
</tr>
<tr>
<td>Land area (square miles)</td>
<td>40,861</td>
<td>2010 Census (^3)</td>
<td></td>
</tr>
<tr>
<td><strong>Rivers and streams</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miles of named and designated streams</td>
<td>&gt;23,000</td>
<td>ODNR (^3)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Total miles</td>
<td>58,343</td>
<td>NHD (^4)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Miles of perennial streams</td>
<td>29,412</td>
<td>NHD (^4)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Miles of intermittent streams</td>
<td>28,931</td>
<td>NHD (^4)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Miles of primary headwater streams</td>
<td>&gt;115,000</td>
<td>Ohio EPA (^5)</td>
<td></td>
</tr>
<tr>
<td>Miles of large rivers (draining more than 500 square miles)</td>
<td>1,248</td>
<td>NHD (^4)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Miles of principal streams (draining 50 to 500 square miles)</td>
<td>4,453</td>
<td>NHD (^4)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Border miles: Ohio River</td>
<td>451</td>
<td>USGS 7(1/2) Maps</td>
<td>1:24K</td>
</tr>
<tr>
<td><strong>Lakes/Reservoirs</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of significant publicly owned lakes</td>
<td>447</td>
<td>ODNR (^6)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Total acreage of significant publicly owned lakes</td>
<td>118,963</td>
<td>ODNR (^6)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Border miles: Lake Erie shoreline</td>
<td>290</td>
<td>USGS 7(1/2) Maps</td>
<td>1:24K</td>
</tr>
<tr>
<td>Total acreage of Ohio’s Lake Erie waters</td>
<td>2,283,680</td>
<td>NHD (^5)</td>
<td>1:24K</td>
</tr>
<tr>
<td><strong>Wetlands</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Acreage</td>
<td>507,057</td>
<td>Ohio EPA (^7)</td>
<td>1:24K</td>
</tr>
<tr>
<td>Percent of original wetlands</td>
<td>10 percent</td>
<td>Dahl (^8)</td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) Source: [factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml](https://factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml)

\(^2\) Source: [census.gov/geo/reference/state-area.html](https://census.gov/geo/reference/state-area.html)

\(^3\) Mileage for waters listed by Ohio Department of Natural Resources in *Gazetteer of Ohio Streams, 2nd edition* (ODNR 2001).

\(^4\) An estimate prepared from a computer-digitized map of U.S. streams and rivers produced by the U.S. Geological Survey (USGS) known as the National Hydrography Dataset (NHD). The NHD is based upon the content of USGS Digital Line Graph (DLG) hydrography data integrated with reach-related information from the U.S. EPA Reach File Version 3 (RF3). [nhd.usgs.gov/index.html](https://nhd.usgs.gov/index.html)

\(^5\) An estimate prepared by Ohio State University for Ohio EPA and reported in *Field Evaluation Manual for Ohio’s Primary Headwater Habitat Streams* (Ohio EPA 2009).

\(^6\) Acreage for significant publicly owned lakes (> 5 acres) listed by Ohio Department of Natural Resources in *Inventory of Ohio’s Lakes* (ODNR 1980).

\(^7\) Acreage for wetlands listed by Ohio EPA in *Intensification of the National Wetland Condition Assessment for Ohio: Final Report* (Ohio EPA 2015).

\(^8\) Loss of historic wetlands in Ohio estimated to be 90 percent (Dahl, 1990).
The larger water bodies included in Table B-1 comprise the major aquatic resources that are used and enjoyed by Ohioans for water supplies, recreation and other purposes. The quality of these perennial streams and other larger water bodies is strongly influenced by the condition and quality of the small feeder streams, often called the headwaters.

Approximately 28,900 miles of the more than 58,000 miles of stream channels digitally mapped in Ohio are headwater streams. However, the digital maps currently available for Ohio do not include the smallest of headwater channels. Results of a special study of primary headwater streams (drainage areas less than one square mile) place the estimate of primary headwaters between 146,000 to almost 250,000 miles (Ohio EPA 2009). Some of these primary headwater streams are, in fact, perennial habitats for aquatic life that supply base flow in larger streams. This illustrates the importance of taking a holistic watershed perspective in water resource management.

The named streams and rivers that are readily recognized by the public are mostly those that drain more than 50 mi². These 254 principal streams and large rivers in Ohio (comprising 5,679 linear stream miles) are listed by major Ohio watershed in Table B-2. Figure B-1 graphically depicts the extent of these stream and river miles within Ohio.

Ohio is an economically important and diverse state with strong manufacturing and agricultural industries. Many of the historical patterns of environmental impact in Ohio are related to the geographical distribution of basic industries, land use, mineral resources and population centers. Equally important, however, is an understanding of Ohio’s geology, landform, land use and other natural features as these determine the basic characteristics and ecological potential of streams and rivers.

Figure B-1 — Map of Ohio’s principal streams and large rivers.
Ohio EPA bases the selection, development and calibration of ecological, toxicological and chemical/physical indicators on these factors. These indicators are then used via systematic ambient monitoring to provide information about existing environmental problems; threats to existing high-quality waters; and successes in abating water pollution problems in Ohio’s surface waters.

In Ohio, 15 river systems are included in the State Scenic Rivers Program, administered by the Ohio Department of Natural Resources (see Figure B-2). Between 1970 and 2018, a little more than 676 miles were designated Scenic; 102 miles in four systems were designated Wild; and 79 miles in two systems were designated Recreational. Portions of three stream systems—the Little Miami, Little Beaver Creek and Big and Little Darby Creek—are also included in the National Wild and Scenic System. The total Ohio stream miles included in the national designation is 207 miles. The streams and rivers included in the State Scenic Rivers Program are some of the most highly recreated waters in the state. The majority of these streams and rivers have also been identified in Ohio’s Antidegradation Rule as either a superior high quality water or outstanding state water, thereby receiving additional protections under the rule. More information on Ohio’s scenic rivers can be found at watercraft.ohiodnr.gov/scenicrivers.

Figure B-2—Ohio Scenic River System.

Source: watercraft.ohiodnr.gov/scenicriversmap
### Table B-2 — List of Ohio’s principal streams and large rivers.

<table>
<thead>
<tr>
<th>Basin</th>
<th>Large Rivers (draining &gt; 500 mi²)</th>
<th>Principal Streams (draining &gt; 50 mi² but less than 500 mi²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas Draining to Lake Erie</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maumee Basin</strong></td>
<td>Maumee River</td>
<td>Sugar Creek</td>
</tr>
<tr>
<td></td>
<td>Auglaize River</td>
<td>Hog Creek</td>
</tr>
<tr>
<td></td>
<td>Blanchard River</td>
<td>Jennings Creek</td>
</tr>
<tr>
<td></td>
<td>Tiffin River</td>
<td>Ottawa River</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tenmile Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>St. Joseph River</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish Creek</td>
</tr>
<tr>
<td></td>
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<td>Nettle Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>West Branch St. Joseph River</td>
</tr>
<tr>
<td></td>
<td></td>
<td>East Branch St. Joseph River</td>
</tr>
<tr>
<td></td>
<td></td>
<td>St. Marys River</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Black Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mud Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lick Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Brush Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bean Creek</td>
</tr>
<tr>
<td><strong>Portage Basin</strong></td>
<td>Portage River</td>
<td>South Branch Portage River</td>
</tr>
<tr>
<td></td>
<td>Sugar Creek</td>
<td>Middle Branch Portage River</td>
</tr>
<tr>
<td></td>
<td>North Branch Portage River</td>
<td>Rocky Ford</td>
</tr>
<tr>
<td></td>
<td>Toussaint Creek</td>
<td></td>
</tr>
<tr>
<td><strong>Sandusky Basin</strong></td>
<td>Sandusky River</td>
<td>Wolf Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>East Branch Wolf Creek</td>
</tr>
<tr>
<td></td>
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<td>Sycamore Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Broken Sword Creek</td>
</tr>
<tr>
<td><strong>Huron Basin</strong></td>
<td>Huron River</td>
<td>Green Creek</td>
</tr>
<tr>
<td></td>
<td>East Branch Huron River West</td>
<td>Honey Creek</td>
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<td>Branch Huron River</td>
<td>Muddy Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tymochtee Creek</td>
</tr>
<tr>
<td><strong>Vermilion Basin</strong></td>
<td>Vermilion River</td>
<td></td>
</tr>
<tr>
<td>Basin</td>
<td>Large Rivers (draining &gt; 500 mi²)</td>
<td>Principal Streams (draining &gt; 50 mi² but less than 500 mi²)</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
</tbody>
</table>
| **Black Basin** | ![Map](image) | Black River  
East Branch Black River  
West Branch Black River                                                                 |
| **Rocky Basin** | ![Map](image) | Rocky River  
East Branch Rocky River  
West Branch Rocky River                                                                 |
| **Cuyahoga Basin** | ![Map](image) | Cuyahoga River  
Tinkers Creek  
Breakneck Creek  
Little Cuyahoga River                                                                 |
| **Chagrin Basin** | ![Map](image) | Chagrin River  
Aurora Branch                                                                 |
| **Grand Basin** | ![Map](image) | Grand River  
Mill Creek  
Rock Creek                                                                 |
| **Ashtabula Basin** | ![Map](image) | Ashtabula River  
Conneaut Creek                                                                 |
<table>
<thead>
<tr>
<th>Basin</th>
<th>Large Rivers (draining &gt; 500 mi²)</th>
<th>Principal Streams (draining &gt; 50 mi² but less than 500 mi²)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Areas Draining to the Ohio River</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mahoning Basin</td>
<td>Mahoning River</td>
<td>Meander Creek</td>
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<tr>
<td></td>
<td></td>
<td>Mill Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mosquito Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eagle Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>West Branch Mahoning River</td>
</tr>
<tr>
<td></td>
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<td>Pymatuning Creek</td>
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<td>Little Beaver Basin</td>
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<td>Little Beaver Creek</td>
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<td></td>
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<td>Bull Creek</td>
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<td></td>
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<td>Middle Fork Little Beaver Creek</td>
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<tr>
<td></td>
<td></td>
<td>West Fork Little Beaver Creek</td>
</tr>
<tr>
<td>Central Ohio Tributaries</td>
<td>Captina Creek</td>
<td>McMahon Creek</td>
</tr>
<tr>
<td></td>
<td>Cross Creek</td>
<td>Short Creek</td>
</tr>
<tr>
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<td>Duck Creek</td>
<td>Sunfish Creek</td>
</tr>
<tr>
<td></td>
<td>East Fork Duck Creek</td>
<td>Wheeling Creek</td>
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<tr>
<td></td>
<td>West Fork Duck Creek</td>
<td>Yellow Creek</td>
</tr>
<tr>
<td></td>
<td>Little Muskingum River</td>
<td>North Fork</td>
</tr>
<tr>
<td>Muskingum Basin</td>
<td>Muskingum River</td>
<td>Wolf Creek</td>
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<td></td>
<td>Licking River</td>
<td>South Branch Wolf Creek</td>
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<td>Tuscarawas River</td>
<td>West Branch Wolf Creek</td>
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<td>Walhonding River</td>
<td>Olive Green Creek</td>
</tr>
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<td>Mohican River</td>
<td>Conotton Creek</td>
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<tr>
<td></td>
<td>Wills Creek</td>
<td>Indian Fork</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Killbuck Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Doughty Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apple Creek</td>
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<tr>
<td></td>
<td></td>
<td>Rocky Fork Licking River</td>
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<td></td>
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<td>South Fork Licking River</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Raccoon Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>North Fork Licking River</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Moxahala Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jonathan Creek</td>
</tr>
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<td></td>
<td></td>
<td>Stillwater Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Little Stillwater Creek</td>
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<tr>
<td></td>
<td></td>
<td>Brushey Fork</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sugar Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>South Fork Sugar Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sandy Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nimishillen Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Still Fork</td>
</tr>
<tr>
<td></td>
<td></td>
<td>White Eyes Creek</td>
</tr>
<tr>
<td>Basin</td>
<td>Large Rivers (draining &gt; 500 mi²)</td>
<td>Principal Streams (draining &gt; 50 mi² but less than 500 mi²)</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------</td>
<td>-------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Hocking Basin</strong></td>
<td>Hocking River</td>
<td>Margaret Creek, Federal Creek, Sunday Creek, Monday Creek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clear Creek, Rush Creek, Little Rush Creek</td>
</tr>
<tr>
<td><strong>Southeast Ohio Tributaries</strong></td>
<td>Raccoon Creek</td>
<td>Indian Guyan Creek, Leading Creek, Little Scioto River, Rocky Fork Little Scioto River, Pine Creek, Little Raccoon Creek</td>
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<td></td>
<td></td>
<td>Elk Fork, Shade River, East Branch Shade River, Middle Branch Shade River, West Branch Shade River, Symmes Creek, Black Fork</td>
</tr>
<tr>
<td><strong>Scioto Basin</strong></td>
<td>Scioto River, Paint Creek</td>
<td>Big Beaver Creek, Peepee Creek, Walnut Creek, Scippo Creek, Walnut Creek, Big Walnut Creek, Mill Creek, Alum Creek, Blacklick Creek, Bokes Creek, Little Scioto River, Rush Creek, Big Darby Creek, Little Darby Creek, Deer Creek, Sugar Run, Olentangy River</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Whetstone Creek, North Fork Paint Creek, Compton Creek, Rocky Fork Paint Creek, Rattlesnake Creek, Lees Creek, West Branch Rattlesnake Creek, Sugar Creek, East Fork Paint Creek, Salt Creek, Salt Lick Creek, Middle Fork Salt Creek, Laurel Run, Scioto Brush Creek, South Fork Scioto Brush Creek, Sunfish Creek</td>
</tr>
<tr>
<td><strong>Southwest Ohio Tributaries</strong></td>
<td>Bullskin Creek</td>
<td>Eagle Creek, West Fork Eagle Creek, Ohio Brush Creek, Baker Fork</td>
</tr>
<tr>
<td></td>
<td></td>
<td>West Fork Ohio Brush Creek, Straight Creek, White Oak Creek, East Fork White Oak Creek, North Fork White Oak Creek</td>
</tr>
<tr>
<td><strong>Little Miami Basin</strong></td>
<td>Little Miami River</td>
<td>O’Bannon Creek, Turtle Creek, East Fork Little Miami River, Stonelick Creek, Todd Fork</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cowan Creek, Caesar Creek, Anderson Fork, Massies Creek</td>
</tr>
<tr>
<td>Basin</td>
<td>Large Rivers (draining &gt; 500 mi²)</td>
<td>Principal Streams (draining &gt; 50 mi² but less than 500 mi²)</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>Great Miami Basin</td>
<td>Great Miami River&lt;br&gt;Mad River&lt;br&gt;Stillwater River&lt;br&gt;Whitewater River</td>
<td>Indian Creek&lt;br&gt;Clear Creek&lt;br&gt;Bear Creek&lt;br&gt;Wolf Creek&lt;br&gt;Honey Creek&lt;br&gt;Lost Creek&lt;br&gt;Tawawa Creek&lt;br&gt;Stony Creek&lt;br&gt;Buck Creek&lt;br&gt;Ludlow Creek&lt;br&gt;Greenville Creek&lt;br&gt;Swamp Creek&lt;br&gt;Dry Fork&lt;br&gt;Fourmile Creek&lt;br&gt;Sevenmile Creek&lt;br&gt;Twin Creek&lt;br&gt;Loramie Creek&lt;br&gt;Muchinippi Creek&lt;br&gt;South Fork Great Miami River</td>
</tr>
<tr>
<td>Mill Basin</td>
<td></td>
<td>Mill Creek</td>
</tr>
<tr>
<td>Wabash Basin</td>
<td></td>
<td>Wabash River&lt;br&gt;Beaver Creek</td>
</tr>
</tbody>
</table>