



State governments have proposed and implemented a number of successful strategies for healthy rivers.

Nutrient Monitoring and Reduction



Monitoring and reduction of nutrients such as phosphorus and nitrogen from agricultural runoff is key to improving water quality in the Mississippi River. Efforts to limiting nutrient pollution include limits on pesticide and fertilizer application within the Mississippi River watershed as well as the creation of nutrient trading systems, each of which require improved monitoring of water pollution levels.

- Minnesota [SF 297](#) (2017) protects the upper Mississippi River as a drinking water source through water testing for contaminants including pesticides, nitrates, and pathogens and review of current best practices for agricultural pesticide and fertilizer application.
- Arkansas [HB 1067](#) (2015) provides state environmental agencies the authority to establish and regulate nutrient water quality trading programs for nitrogen and phosphorus.
- Wisconsin Phosphorus [Water Quality Standards](#) create water quality standards for phosphorus in surface waters ([Chapter NR 102](#)), regulate point-source phosphorus pollution through a state permitting and nutrient water quality trading system ([Chapter NR 217](#)), and tighten agricultural performance standards ([Chapter NR 151](#)).
- Ohio [Senate Bill 1](#) (2015) prohibits the application of agricultural fertilizer and manure on frozen and snow-covered soil and when local weather forecasts predict heavy rain.



Buffer Zone Protection

Conservation buffer zones are small areas or strips of land with permanent vegetation adjacent to ecologically sensitive areas, such as rivers. Riparian buffer zones have many benefits for river health, including decreased surface water pollution and erosion as well as the provision of continuous shoreland habitat.

- Minnesota Statutes 2016, [Section 103F.48](#), amended by [SF 844](#) (2017), requires a 50-foot average width, 30-foot minimum width, continuous buffer of perennially rooted vegetation adjacent to all designated public waters.
- Maine [Mandatory Shoreland Zoning Act](#) requires land use controls for all land areas within 250 feet of ponds and non-forested freshwater wetlands that are 10 acres or larger; rivers with watersheds of at least 25 square miles in drainage area; and all land areas within 75 feet of certain streams.



More Information

NCEL has developed a Mississippi River Legislative Caucus to better coordinate legislators in river districts to more effectively address river health and water quality issues.

Find out more or get involved at:
<http://ncel.net/mississippi>

