

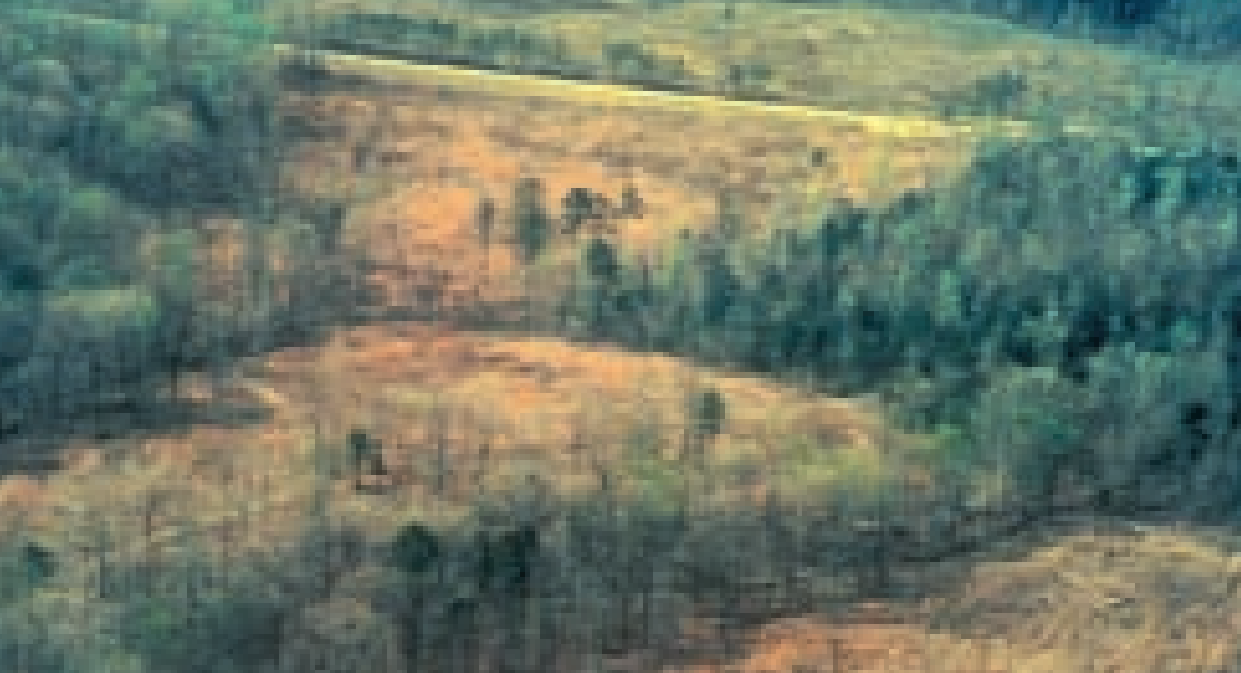
# Streamside Management Zones & Forest Landowners



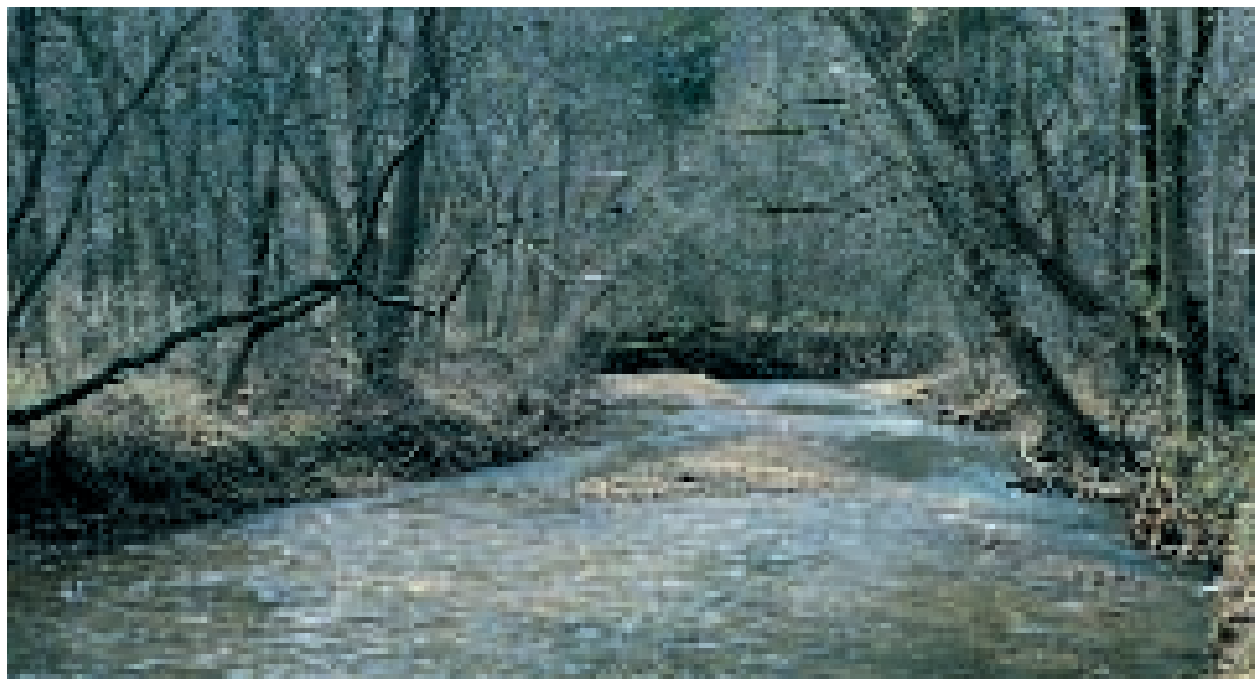
Protecting water quality in Mississippi is everyone's responsibility. As a forest landowner, you can make sure any activity, such as harvesting your trees, does not negatively affect the quality of Mississippi's water supply.

Forestry experts throughout the state have developed strategies and management practices to reduce the amount of nonpoint source pollution from forest management. These practices are called Best Management Practices, sometimes referred to as BMPs.

Nonpoint source pollution (NPS) can take many forms and often cannot be traced to one source or point. Increased sediment, organic matter, and temperature are just a few possible forms of NPS pollution. Landowners, foresters, and loggers can use streamside management zones—areas of vegetation along streams and other bodies of water—to protect against NPS pollution caused by land-management practices.



*Aerial view of streamside management zones after a harvest*



*A well-managed perennial stream has streamside management zones that contain trees for shade and underbrush for sediment control.*

## HOW DO STREAMSIDE MANAGEMENT ZONES WORK?



*This stream is clogged with sediment because of poor streamside management.*

Effective streamside management zones have trees, brush, grass, and groundcover that help stabilize the soil next to a stream. These trees, brush, grass, or groundcovers slow surface runoff and serve as filters. The streamside management zone lets NPS pollution settle out before reaching the stream.

Another benefit of streamside management zones is the shade they provide. Aquatic plants and animals have adapted to the “natural” temperature of a stream. Over time, vegetation along each stream has regulated this temperature by restricting the amount of sunlight reaching the stream. Forestry and agricultural practices that expose the stream to above-average amounts of sunlight raise the average temperature of the stream. The increased temperature can affect plants and animals that rely on the stream.

## MANAGEMENT

Using streamside management zones does not mean you cannot harvest any of the marketable timber along your streams. The stream type tells you the amount of harvest that is best within these areas. Mississippi has two basic categories of streams: perennial and intermittent.

Perennial streams flow all or most of the year and support many organisms. NPS pollution is most damaging to this stream type.

Intermittent streams need less protection than perennial streams. Water flows only part of the year, so regulating temperature is not as critical.

Each type of stream has a unique set of management measures. You may harvest some or all of the timber within a streamside management zone if you follow certain guidelines. These guidelines are in Mississippi's Best Management Practices Handbook, available from the Mississippi Forestry Commission and the Mississippi State University Extension Service.

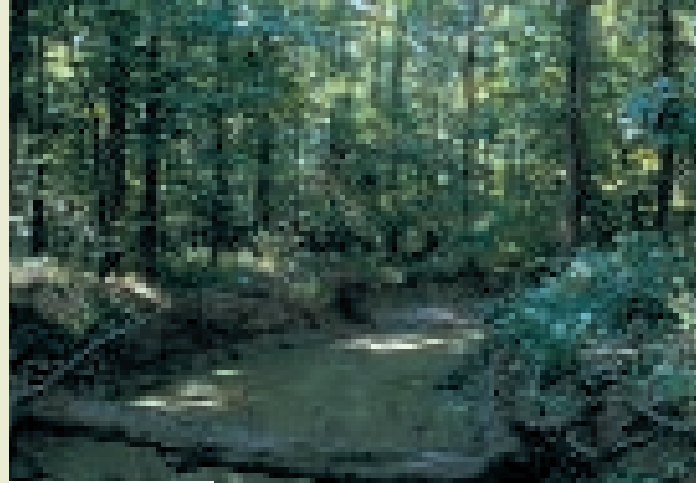
## DRAINS

Drains, also known as ephemeral streams, are areas that have water only after a storm, and they are not classified as streams. But protection is still important. Forest-management activities within drains are limited. The Mississippi Best Management Practices Handbook lists important restrictions that ensure storm flow doesn't contaminate streams.

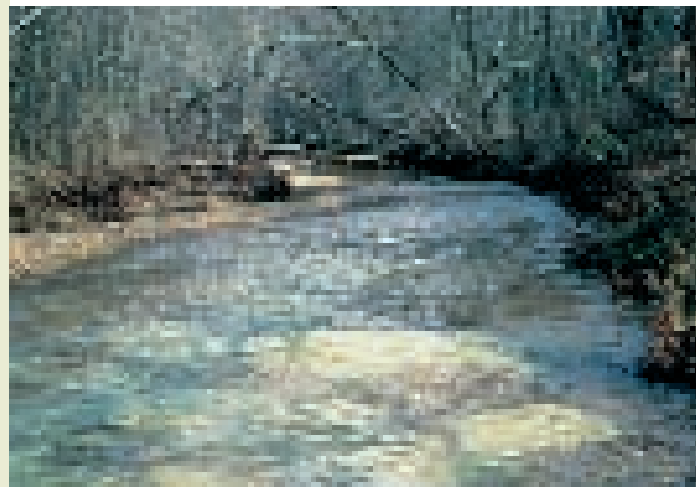
## WHY SHOULD I WORRY?

Even though you don't have to have streamside management zones, you do have to protect water quality. Federal and state laws have been enacted to protect water quality. The Clean Water Act is a federal law enforced by the Environmental Protection Agency. Mississippi enacted the Air and Water Pollution Control Law, which is monitored by the Department of Environmental Quality. Anyone polluting water may be fined up to \$25,000 per day and be required to pay for all cleanup. In Mississippi, that responsibility falls to the timber owner.

Proper use of BMPs helps landowners, foresters, and loggers avoid breaking these laws. Working together can help define management objectives and reduce accidental violations of water-quality laws.



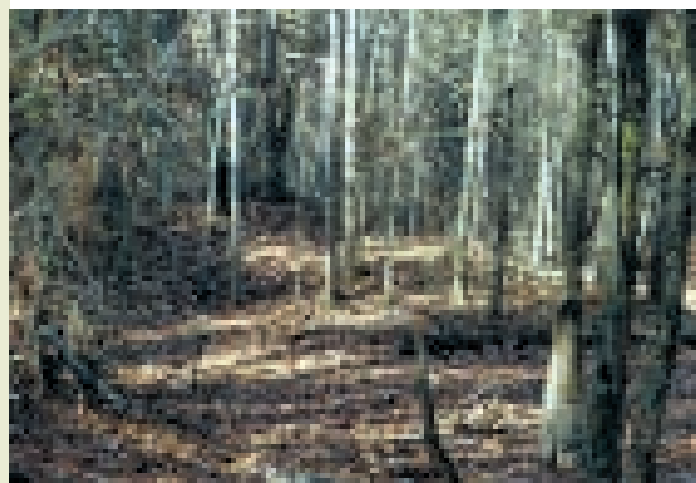
*Shaded Stream*



*Perennial Stream*



*Intermittent Stream*



*Drain or Ephemeral Stream*

If you need assistance, please contact any of the following organizations:

Department of Forestry  
Mississippi State University  
Extension Service Mississippi State University  
(662) 325-3905

The Mississippi Department of Environmental Quality  
(601) 961-5149

The Mississippi Forestry Commission  
(601) 359-1386

The Mississippi State University Department of Forestry has an Extension Forestry Web Page!!  
Please visit us at <http://ext.msstate.edu/anr/forestry/>



[msucare.com](http://msucare.com)

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**Publication 2233**

Extension Service of Mississippi State University, cooperating with U.S. Department of Agriculture. Published in furtherance of Acts of Congress, May 8 and June 30, 1914. Vance H. Watson, Interim Director (1M-02-06)