













Powerful meltwater

The bluffland karst landscape is the scenic area where the Root River completes its 80-mile course to the Mississippi River. Long ago, powerful meltwater from distant glaciers carved large valleys and bluffs in the softer sandstone and shale bedrock layers.



Groundwater movement in the uppermost bedrock layers and near the fractured valley edges can be very fast.



Disappearing stream

In some locations, streams can disappear underground in the shale and sandstone layers, and then reappear downstream or in a completely different valley.



Watch the Video!







Fast movement of water

Moderate movement of water

Slow movement of water

Mixing of younger and older water







600' Elevation Mississippi River



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Root River Field to Stream Partnership



Minnesota Department of Agriculture Minnesota Agricultural Water Resource Center The Nature Conservancy

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