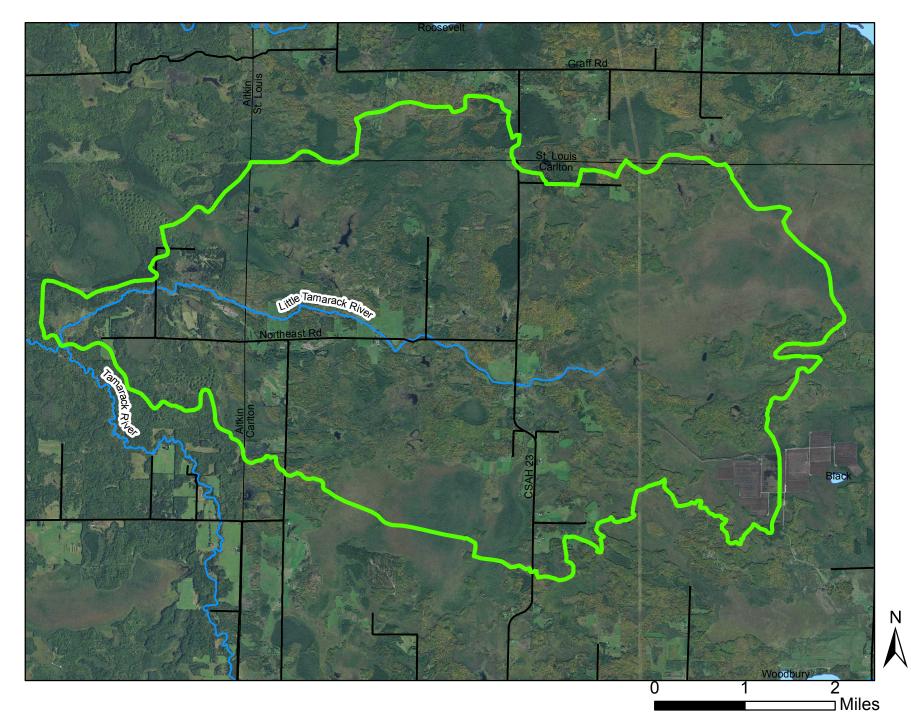
9004 Little Tamarack Creek Subwatershed



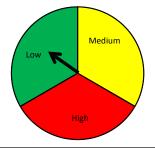
Protection



Public lands are considered protected because they are typically managed to protect and preserve natural resources. Carlton County has an abundance of federal, state and county lands that provide habitat to a diversity of species and protect sensitive areas.

Lands can be protected in many ways. Forest management plans, conservation easements and land trusts help ensure natural resources are protected for future generations.

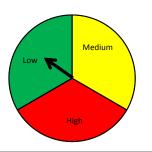
 This watershed is moderately protected (21-40%). Additional protection would help ensure Soil Risk



Some soils are more prone to erosion than others. The small particles of clay are easily carried by water. Clay soils are also prone to slumps and slides during high run-off events. The soils of Carlton County are diverse, with the eastern side of the county having more clay and therefore more erosion problems. Different tree and other plant species prefer different soils, so it's important to consider soil type before you plant.

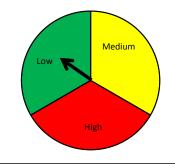
• This watershed has less erodible soils.

If you have problems with erosion on your property or need some tree planting assistance, contact the Carlton SWCD. Risk



Risks to water quality can come from many different sources. Development, land use, invasive species, soil type and slope are all possible contributors. Watersheds with higher risks require more restoration measures to improve water quality. Depending on the stressors involved, that could be accomplished in a variety of ways, from fencing livestock out of impaired waters to creating rain gardens in urban watersheds. For lower risk watersheds, protection methods can help maintain





Changes in land use can have large effects on water quality. Roads and parking lots are impervious to water. They allow water to run off the land more quickly, increasing the speed and amount of water flowing over the land. This leads to increased erosion. Farm land can also increase run off and erosion during certain times of the year. Luckily, Carlton County has an abundance of natural land uses, including forests and wetlands.

 This watershed has low land use changes (less than 8%). In general, the watershed is made up of natural environments like forests and wetlands. Methods should be used to protect this watershed from land use changes such as forestry plans and easements.

water quality is preserved.

If you are interested in learning about way you can protect your property, contact the Carlton SWCD to learn about options.

> Outstanding Resources Golden Winged Warbler Sharp-tail Grouse Water Quality Concerns

None



808 3rd Street Carlton, MN 55718 218-384-3891 water quality. Protection can come from conservation easements or forestry planning.

 This Watershed has low risk. Protection methods such as forest management plans and easements will help maintain water quality.

The Carlton SWCD is here to help you improve water quality on your property, whether it is protection or restoration. Contact us with your questions!

Major Watershed: Upper Mississippi-Grand Rapids River

The Mississippi River - Grand Rapids watershed covers 1,316,071 acres and contains 1,908 miles of stream/rivers and 552 lakes greater than 10 acres. The watershed drainage comprises parts of Aitkin, Carlton, Cass, Itasca, and St. Louis Counties. Some of the major cities are Grand Rapids, McGregor, Remer.



