

# Appendix I

## *Critical Soil Loss Analysis*





# Bois de Sioux – Mustinka

## Comprehensive Watershed Management Plan

### Critical Soil Loss

The critical soil loss analysis is used to identify areas on the landscape that have the highest soil erosion taking place. By locating these areas, planning partners can better identify areas to prioritize for protection and or restoration focused on soil health.

The critical soil loss analysis runs through a set of calculations on raster data output from the Prioritize, Target, and Measure Application (PTMApp). Sediment loss from the landscape is calculate in PTMApp and the critical soil loss analysis takes that information and attributes sediment loss from the landscape to common land units (CLUs). Soil loss is only calculated on land that is identified as pasture and agriculture from the NLCD landuse layer. For the Bois de Sioux-Mustinka CWMP area, the critical soil loss analysis was performed by planning region to provide the CLUs that contain the top 25% of the soil loss within each planning region.

