



70 Years of Vegetation Change:

Pipestone National Monument Vegetation Change 1938-2008



Missouri Resource Assessment Partnership (MoRAP) mapped historical and current vegetation at Pipestone National Monument, Pipestone County, Minnesota, for management planning by the National Park Service. MoRAP used historical photos to determine past land use. In order to map current vegetation, image objects that circumscribe visually homogeneous polygons were hand digitized from stacked, 1-meter resolution leaf-on and leaf-off NAIP imagery.

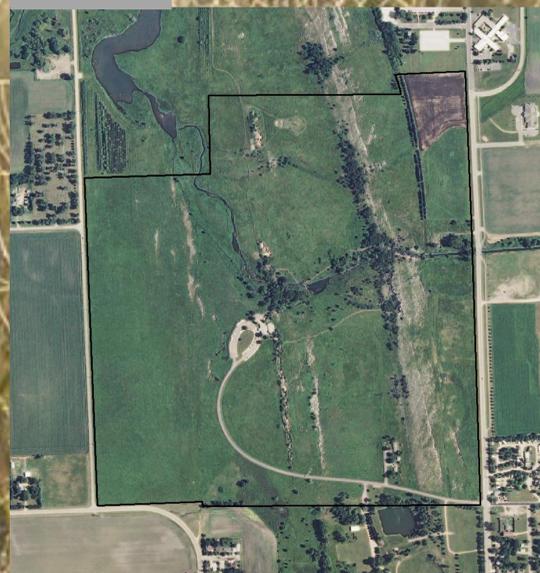
1938



1968

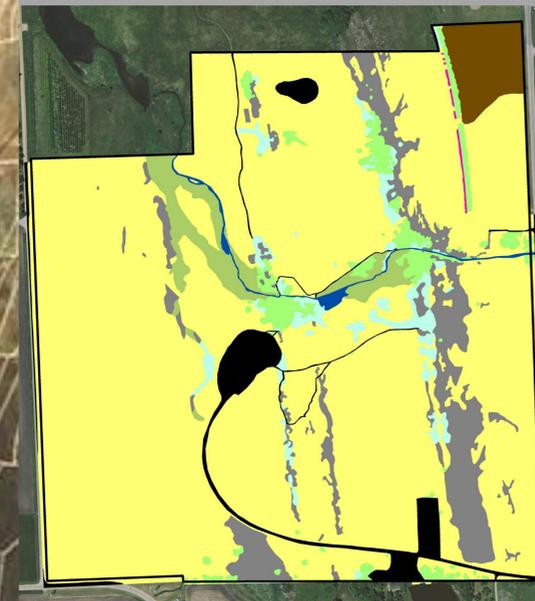


2008



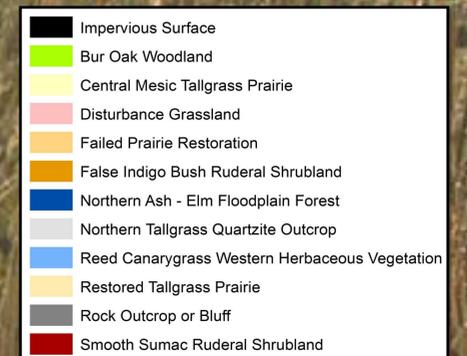
2012*

Based on 2008 imagery



2013*

Based on 2008 imagery



The 2,000+ objects were visually inspected at a scale of 1:1,500 and attributed into one of 16 land cover classes. Areas of cultural or historical significance were delineated. Vegetation data was collected at plots distributed throughout the park and maps were developed based on the analysis of the plot data. These results allow a comparison between current and historic vegetation, providing a framework for future park management planning.