

Quarterly Meeting
GIS Users Group in Southwest Minnesota

When: Wednesday - January 16, 2008 -- 10 am

Where: Lyon County Public Works Building
Marshall, MN 56258

Agenda:

- Introductions
- Discussion Items - share your news
- Presentations -

Battle Creek Watershed: National Wetlands Inventory Update in Lake County, South Dakota

Emma Volz, South Dakota State University, Master's Thesis

The National Wetlands Inventory (NWI) is a comprehensive map of the wetlands within the United States. Mapping began in 1976 and continues today, with areas in Alaska, Utah, and Wyoming remaining incomplete. Mapping for South Dakota was completed in 1984. More than twenty years have passed without an update to the map for this area. The goal of this study was to update the NWI for a watershed within South Dakota. Battle Creek Watershed (BCW) is located in eastern South Dakota 35 miles north of Sioux Falls, SD. BWC covers 160 square miles of area and is approximately 23 miles in length. Once the mapping was completed, the two inventories, NWI and BCW, were compared using Spatial Analyst to determine whether there had been change within the watershed and to quantify that change and possibly identify causes of change. The results found that there had been a loss of 1.64 square miles of wetland area. These losses resulted mainly from agricultural sources, but there was some loss from urban growth from the city of Madison, SD.

- Plan the next meeting
 - Date
 - Presentation topic for the next meeting

Who: Anyone with an interest in GIS is invited to attend.