



[The Devils Lake Flood Impact Study North Dakota](#)

A database was developed for Devils Lake at different lake elevations and their impact on the lake's vicinity infrastructures. The project was studied for FEMA Region VIII under the Technical Evaluation Program, TAC, and it is intended to serve as a tool to aid in policy development and to assess the need for a future in more detailed cost analysis. The lake is 100,000-acre closed basin that drains an area of 3810 mi².

The ATCS Team provides the regional office with engineering, a complete database management, project management, and mapping works, implementing LIDAR digital mapping of elevation data, aerial photographs, and GIS technologies in defining different lake elevations that impact the residential, commercial, and public structures in the vicinity of the closed basin. The project tasks have been completed within the budget and schedule. GIS shape files and Microsoft Access database were developed to present the result data that includes information and analysis requested by FEMA Region VIII. This database shows structures, roads and utilities locations as well as cost estimation associated with maintaining infrastructure at four different lake elevations. The Access database was developed to identify the impacted structures for 43 townships. Performed complete QA/QC for the accuracy of the products. The database helps the decision makers in making new policies regarding the lakes flooding impact.