

Case Study: Web Development
August 2008 – March 2010

Department of Natural Resources

Animal Feedlot Operation Database

Original Challenge

The Iowa Department of Natural Resources (DNR) contracted with Genova to rewrite its online Animal Feedlot Operation Application. This web application tracks information across the entire state, which includes specific data about types of animals, numbers of heads, and both the construction and expansion of each open feedlot and confinement.

Genova Solution

Six Genova employees expended a total of 3,470 hours to radically update the existing software. The scope of our software development entailed redesigning a standing DNR SQL Server database and migrating statewide historical data.

Although initial requirements were provided by the DNR staff, Genova performed all development tasks on the project including schedule and budget management. Genova also was responsible to document and complete testing according to an established project test plan. Our team handled the installation and data migration, trained DNR staff, and performed support duties.

Genova designed and developed an ASP.NET solution written in C# utilizing AJAX, JavaScript, Microsoft SQL Server, and Microsoft SQL Reporting Services. We worked with the DNR to install and integrate the software solution on the client's servers. Genova's development staff controlled the impact of late project changes to deliver a product that effectively met user needs.

Future Benefits

The original DNR web application was no longer in touch with best practices for managing Animal Feedlot Operations across the state of Iowa. Our newly refined software application supplied by Genova, however, enabled the Iowa DNR to manage Feedlots and Confinements better as well as to relay pertinent information across the state.

New reports and letters generated because of this effort have equipped DNR staff to be more efficient by eliminating the need to prepare cumbersome manual reports. Additionally, to enhance mapping of Feedlots and Confinements, our Genova software team developed the ability to interact with several other existing internal DNR applications.