

## Project Description

Following the successful completion of the Mills Township Parcel Conversion pilot project, Ogemaw County contracted IGRÉ to complete the parcel conversion for the remaining 13 townships. In addition to the parcel conversion project, Ogemaw County requested that IGRÉ configure their web server and develop web applications that could utilize MapServer (**Copyright © 1996-2005 Regents of the University of Minnesota**). MapServer© is an open source, Internet, map publishing software application similar in many ways to ESRI's ArcIMS.

In order to guarantee that the software developed and the parcel data worked as designed, Ogemaw shipped their new server purchased for this purpose, directly to IGRÉ for configuration. In this manner, we were able to test all the functions developed for the MapServer© template and test the data with the server configuration.

IGRÉ develop several parcel query applications as described below and set up the parcel data file structure, so that one County representative, could maintain the parcel shapes, attribute data and update the server files.

The customizations we designed for the Ogemaw County MapServer© Template application contains the following tools and functions:

1. Help – Displays a help file that explains the use and functions of the tools.
2. Show Legend or Layer List – Switches back and forth between the Legend or the Layer List.
3. Zoom In & Zoom Out - The zoom in & out tools allow you to change the map extent.
4. Zoom to Full Extent - Zoom to the full extent of the map
5. Zoom to Previous Extent - Zoom to the last extent viewed.
6. Pan - Pan the map around by clicking the map and dragging it.
7. Identify a Feature – click on a feature and identify information about the feature based on the attribute table for that layer. Attributes that display are selected when the map file is created for each layer. IGRÉ will use all the attributes for each layer or the County must tell us which attributes you want displayed.
8. Select by Polygon or Rectangle - Selects features within the boundary of the selection box.
9. Measure Tool – Measures distances on the map
10. Clear Selection or Drawings – Removes selected feature highlights.
11. Buffer Query – Select a feature; buffer function will identify parcels that fall within the buffer distance. This function does not create a buffer ring around the selected feature like ArcIMS.

12. Mailing Labels – If the buffer function is used to identify parcels, a list of parcels falling within the buffer distance will be presented. This list, by Owner Name and Address can be printed on 5160 Style Avery Labels.
13. Home – Takes the User back to the County's Home Page.

In addition to these tools and functions, a Query Function was developed that can:

1. Query By Parcel Number – Search parcels by ID
2. Query By Owner – Search parcels by Owner Name
3. Query By Owner Address – Search parcels by Owner Address
4. Query By Parcel Value - Search parcels by Value Ranges
5. Property Report - View and print a hard copy report of selected parcels with selected attribute data

The **OGEMAW COUNTY REAL PROPERTY INQUIRY SYSTEM** can be viewed at <http://www.ogemawgis.com/parcelquery/website/>

The final step of the project was the delivery of the configured server and data to Ogemaw County. The server was plugged in and configured to the Ogemaw domain and has worked without failure, since October of 2005.