



LIVINGSTON COUNTY, MICHIGAN
DEPARTMENT OF INFORMATION TECHNOLOGY / GIS DIVISION

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Livingston County GIS Layer Metadata

The digital orthophotography is provided in TIFF or MrSID format depending on extent requested. The basemap layers are provided in ESRI shapefile format or in an ESRI File Geodatabase. All datasets are in **State Plane Coordinate System, Michigan - South Zone, NAD83, HARN, International Feet**. The following sections provide some details about the data since many layers do not have metadata yet.

Orthophotography

Starting in March 2000, orthoimagery is available for Livingston County in true color with pixel resolutions varying from 12-inch to 6-inch; depending on development area and year acquired. Imagery was typically captured during the spring when vegetation is in its leaf-off state when possible.

Countywide orthophotography is available for the following years unless noted otherwise,

- 2000
 - 6" pixel resolution (Urban/Suburban)
 - 9" pixel resolution (Rural)
- 2002
 - 6" pixel resolution
 - **SE Corner ONLY**
 - City of Brighton
 - Brighton Twp.
 - Genoa Twp.
 - Hamburg Twp.
 - Green Oak Twp.
- 2003
 - 6" pixel resolution
 - **NE Corner ONLY**
 - Tyrone Twp.
 - Hartland Twp.
 - Deerfield Twp.
 - Oceola Twp.
- 2005
 - 6" pixel resolution
- 2008
 - 12" pixel resolution
- 2010
 - 12" pixel resolution
- 2015
 - 6" pixel resolution

Historical Aerial Imagery

Historical aerial imagery is available for much of the county. This imagery is black and white and was georeferenced against base map data, existing orthophotography, and aerial photo interpretation. General accuracy against parcel lines and other base data does not match the accuracy standards set with newer imagery products. Historical Aerial Imagery is available for the following years,

- 1950
- 1966
- 1970
- 1975
- 1980
- 1985
- 1990
- 1995

Address Points

This layer contains a point for each issued and retired address throughout the county. Use the STATUS field to determine if the address is current or retired. Address Points include all residential, commercial, and meter addresses. The PRIM_TYPE field is coded with the type of address.

Hydrology

The Hydrology dataset includes lakes, rivers, and drains. Names of the County Drains were obtained from maps provided by the Drain Commissioner's Office; no tile drains have been included in the hydrology dataset. Private drains have a unique naming scheme composed of the township and section where the drains are located.

Roads

The Road Centerline layer was originally created in 1998, but is updated each month to add new roads constructed throughout the County. Road centerlines are maintained by Livingston County GIS Department. Road Names can be auto-labeled or can be added to a map as annotation. The road names were verified in 2004. However, road name changes are occasionally entered into the database. Address ranges are occasionally updated to accommodate new road segments and/or new intersections.

GIS Dept. staff has cleaned the Edge of Pavement layer, which was originally digitized from the 2000 orthophotography. This shapefile provides an outline of the road surface from one edge to the other. The road centerlines should fit between the edges of pavement. The Edge of Pavement has not been updated since the original data delivery.

Elevation Contours

The 5' Contours are derived from a Digital Elevation Model (DEM), which was created for the 2000 orthophotography flight. The orthophotography vendor generated the contours in the eastern half of the County. The contours for the western half of the County were generated in-house using the ESRI 3D Analyst Extension. The accuracy of the contours has never been verified.

The 2' Contours are derived from a Digital Elevation Model (DEM), which was created from the 2010 LiDAR flight. The LiDAR vendor generated the contours for the entire county. County staff have not verified the accuracy of the contours.

The 1' Contours are derived from a Digital Elevation Model (DEM), which was created from the 2018 LiDAR flight. The LiDAR vendor generated the contours for the entire county. County staff have not verified the accuracy of the contours.

Municipal Boundary and Section Lines

The municipal boundary file is periodically updated by the GIS Department. Changes are made when annexations occur. As part of the parcel conversion, LCGIS generated new section lines based on information from the County Remonumentation Program. The section lines are included as a polygon layer that can be labeled with section number. The section lines are updated as more accurate information is obtained from the County's Remonumentation Program.

Parcels, Subdivisions/Condominiums & Dimensions

Tax parcels are available for all municipalities in Livingston County. Each parcel has long tax id number (LONG_PID) and short tax id number (SHORT_PID) for use in labeling and identifying parcel polygons. The parcel polygons have been linked to the BS&A assessment database to obtain owner information, addresses, assessment values, etc. The GIS_ACRES field contains the acreage calculated by the GIS; it is not the acreage included in the tax description. Legal descriptions can be obtained at the Register of Deeds.

Subdivision/Condominium polygons with names and block numbers are also available. This layer also includes the liber/page for each subdivision and the plan number for each condominium. Additionally, each development is coded by type: 1) Subdivision, 2) Site Condominium, and 3) Building Condominium.

Property dimensions are included as part of a line feature class/shapefile. The DISTANCE field can be used to label each line with its dimension value. Lines are auto-generated from the parcel polygon dataset. While most dimensions are consistent with the parcel boundaries, the DISTANCE values have not been verified countywide. The County-wide parcel-related data layers are edited on a daily basis to add new parcels and improve the layer accuracy.

Flood Risk Zones

The Federal Emergency Management Agency (FEMA) finished updating the county's floodplain data in 2008. The GIS data layer matches the paper maps submitted by FEMA for use in managing the Flood Insurance Program.

Land Use/Land Cover

Livingston County GIS and the Livingston County Planning Department maintain a Countywide Zoning layer. The zoning layer was developed in 2018 with the assistance of the Livingston County Planning Department with input from the local units. The zoning layer includes a generalized zoning classification for symbology as well as the local zoning code, and zoning description. The layer is split by zoning boundaries as well as parcel boundaries.

SEMCOG created the 2000 and 2008 Land Use shapefiles.

SEMCOG also created a 2010 Land Cover and Tree Canopy layer through image classification from the 2010 Orthoimagery that was resampled at 1-meter pixel resolution.

Additional Land Use layers (Pre-Settlement & 1973 versions) were downloaded from the Michigan Center for Geographic Information website. Additional metadata for these layers are available at https://www.michigan.gov/som/0,4669,7-192-78943_78944---,00.html from the State of Michigan GIS.

These layers have not been cleaned to match the orthophotography.

Wetlands

The NWI Wetlands layer is a digital version of the National Wetlands Inventory. These data were compiled in the mid-1970s and have not been updated recently. Metadata can be viewed at http://www.dnr.state.mi.us/spatialdatalibrary/metadata/nwi_data.htm and descriptions of the wetland classes are in a document published by the U.S. Fish & Wildlife Service (Cowardin, L.M., V. Carter, F. Golet, and E. LaRoe, 1979, Classification of Wetlands and Deepwater Habitats of the United States, U.S. Fish & Wildlife Service, 103 pp.).

In 2006, the Michigan Department of Environmental Quality published a wetlands layer. The DEQ Wetlands data includes a description and acreage of each wetland area. Areas were determined to be wetlands based on their presence in the historic NWI or MIRIS data and the location of hydric soils.

Neither wetlands layer should be used to determine wetland regulation or building restrictions. The wetlands layer should be used as a guideline to suggest that wetlands may be found in the area and a wetlands delineation or study is required.

Soils

The soils layer was also downloaded from the Michigan Center for Geographic Information Website (Michigan GIS Data Portal). The soil type and name are available for each soil polygon. These data have not been cleaned or updated.

Apartment Complex

This dataset represents the location of apartment complexes in each community. The complex name and address can be found in the attribute table. Data were compiled from a variety of sources: Addressing maps, phone book, and local knowledge.

Cemetery

This dataset represents the location of cemeteries in each community. The name of each cemetery is indicated in the attribute table. Data were compiled from a variety of sources: Addressing maps, BS&A database, websites, and local knowledge.

Church

This dataset represents the location of churches in each community. The name, address and denomination of each church are indicated in the attribute table. Each point was placed on the building in which services are regularly held, which includes schools, etc. Data were compiled from a variety of sources: websites and local knowledge.

Emergency Station

This dataset represents the location of emergency service stations in each community. The name, address and type of each station are indicated in the attribute table. Data were compiled from a variety of sources: websites and local knowledge.

Government Office Building

This dataset represents the location of government offices located in each community. The name, address and type of each building are indicated in the attribute table. Data were compiled from a variety of sources: websites and local knowledge.

Library

This dataset represents the location of libraries located in each community. The name and address of each library are indicated in the attribute table. Data were compiled from a variety of sources: websites and local knowledge.

Lodging

This dataset represents the location of hotels and motels located in each community. The name and address of each hotel/motel are indicated in the attribute table. Data were compiled from a variety of sources: websites and local knowledge.

Manufactured Home Community

This dataset represents the location of manufactured housing developments located in each community. The name and address of each manufactured home community are indicated in the attribute table. Data were compiled from a variety of sources: Planning Dept., addressing maps and local knowledge.

Parks

This dataset represents city, county, state and regional parks within each community. This is a two-piece dataset with a polygon layer for park type and area while the point layer details activity offerings and contact information within the attribute tables. Data were last updated summer 2018 from a variety of sources: Livingston County Planning Dept., websites and local knowledge.

Recreation Activity

This dataset represents the recreation activities such as golf courses, skate parks, etc. located in each community. The name, address and type of each activity are indicated in the attribute table. Data were compiled from a variety of sources: Planning Dept., websites and local knowledge.

Retail Store

This dataset represents the location of major retailers such as big box, grocery, electronics, etc. stores in each community. The name, address and type of store are indicated in the attribute table. Data were compiled from a variety of sources: Addressing maps, websites, and local knowledge.

School

This dataset represents the location of schools within each community. The name, address and type of school are indicated in the attribute table. Data were compiled from a variety of sources: Addressing maps, websites, and local knowledge. This data was last reviewed and updated in August 2014 with assistance from the Livingston County Health Department.

Sirens

Locations of sirens used to notify residents of severe weather conditions. Siren locations collected using GPS in these communities: Green Oak Twp. Weather siren locations for other communities may not be spatially accurate.

Towers

This dataset represents the location of towers in each community. Most tower points are cellular towers, but the layer also includes water towers and radio towers. The type of tower is indicated in the attribute table. Data were compiled from a variety of sources: Addressing maps, FCC database, and local knowledge.