Davie County GIS Map Gallery Tutorial

Contents
Introduction to Map Gallery .......................................................................................................................................... 1
Understanding the Map Gallery ................................................................................................................................. 2
Understanding the Application Layout .................................................................................................................. 3
Understanding the Dashboard Layout ................................................................................................................... 6
Aerial Image Viewer ............................................................................................................................................... 8
Parcel Viewer ................................................................................................................................................... 9
Planning and Development ................................................................................................................................... 10
School District Viewer ......................................................................................................................................... 12
Voting Precinct Finder ......................................................................................................................................... 13
Introduction to Map Gallery

Welcome to Davie County’s GIS Map Gallery! The Map Gallery refers to a series of map applications intended to provide the public with simple, single-purpose applications to answer questions you may have. GIS, short for Geographic Information Systems, has the capability of converting complex data into easy-to-use applications. Applications can include locating voting sites, school districts, parcels, or addresses. More complex services include comparing land cover change over time, locating permits according to address, or visualizing census data within a map. We hope these services can be a resource to resolve questions you may have about Davie County and welcome feedback to improve our services. If you notice any errors, please submit a ticket at HelpDesk@daviecountync.gov.

Please use this tutorial to better understand the applications and dashboards we have provided in the Map Gallery. To access the Map Gallery, navigate to https://www.daviecountync.gov/. Locate Departments at the top of the screen and select Technology Solutions. In the blue panel, select New GIS Applications to open the Map Gallery window showcasing applications and dashboards.

The Map Gallery can also be accessed at the following: https://gis.daviecountync.gov/portal/apps/MinimalGallery/index.html?appid=5618696fc11a4ef0b23495bdda52585#
The Map Gallery is made of gallery cards. Gallery cards contain maps, layers, and tools to visualize GIS data and enable you to locate features. The Map Gallery Tutorial link in the upper right corner of the screen will direct you to this page. Davie County GIS will direct you to the County GIS webpage.

Within each card, we offer a suite of applications referred to as Web Mapping Applications and Dashboards. Applications are intended to provide information that is searchable for interactive analysis. Dashboards are intended to provide statistical data such as demographics.

We highly recommend using a desktop or laptop computer to access the Map Gallery.

All data is provided by Davie County Technology Solutions GIS. Additionally, data is provided by the Davie County School System, Institute of Education Sciences, National Center for Education Statistics, Common Core of Data, and U.S. Census Bureau.
Understanding the Application Layout

Each layout is composed of four major parts: map viewer, layer list, legend, and tools for analysis, also referred to as widgets. The map viewer is the window displaying all spatial information and features. The layer list allows you to view the available layers in the map. Each layer can be toggled on/off as needed by checking the appropriate box. Notice some layers appear gray and become viewable when zoomed in to an area. The legend shows all symbology for layers and shows only selected layers.

Within the Layer List, the ellipsis enables you to access tools such as Zoom to, Transparency, Attribute Tables (showing all records within that layer), and others.
The zoom, home, and target functions are accompanied by the search bar, and different tools called widgets. Widgets can be found below the search bar and vary across applications based on the map’s content and purpose. All widget definitions can be found at https://doc.arcgis.com/en/web-appbuilder/create-apps/widget-overview.htm.

The search bar drop down allows you to search within layers. Select All or one of the provided layers to begin your search. The field will auto-populate as you type, so be sure to select one of the provided entries.
When you first open an application, there may be a text field on the left side of the screen. This panel provides helpful tips to use the application. The panel can be expanded and collapsed by selecting the side arrow. At the bottom of the screen, you can expand the attribute table which displays all associated records within a layer. For example, address information for address points. Please note that in some instances, the attribute table filters as you zoom in and out of areas. This table can be expanded and collapsed.
Understanding the Dashboard Layout

The dashboard (below) provides both spatial and statistical data in an easy-to-use, visual way. Dashboards are composed of three major parts: map viewer, tools, and data panels.

Users can search by address \(*\) to locate a specific area. The home button \(\square\) resets the map view. The layer list \(\square\) allows you to view the available layers in the map. Each layer can be toggled on/off as needed by checking the appropriate box. Notice some layers appear gray and become viewable when zoomed in to an area. The map viewer is the window displaying all spatial information and features. The legend \(\square\) shows all symbology for layers and shows only selected layers. The basemap gallery \(\square\) allows you to select a basemap to suit your analysis needs.
Dashboard offer visuals to reflect statistical data and include graphs, charts, and text. As a user locates a specified area in the map, the data changes to represent what is currently in the map viewer window. Alternatively, some dashboards may offer a list to select from. The map viewer will locate and highlight the selected area. The selection also changes the data. To expand a data panel, select 📊 in the upper right corner of each panel. Some data panels are interactive and can be adjusted to meet your needs.
Aerial Image Viewer

The Aerial Image Viewer application is intended to provide aerial imagery to compare land cover changes over time. The application includes the following layers: Address, 2004 aerials, 2007 aerials, 2010 aerials, 2014 aerials, and 2018 aerials. Additionally, the application includes a swipe widget, searchable address points, and draw/measure tools.
Use the search bar to locate an address or area and select an aerial image layer from the Layer List located in the right side panel. This layer will serve as the base layer to swipe on. Next, select the Swipe widget and select a second aerial image layer to compare. The Swipe widget will give you the option to choose which layer to swipe on. Use the Swipe toggle, side to side, to compare land cover. You also have the option to draw and measure.

Parcel Viewer
The Parcel Viewer application is intended to provide information for land parcels in Davie County. The application includes the following layers: Address, Streets, Parcels, Parcel Dimensions, Septic Sites, Boundaries, 2004 aerials, 2007 aerials, 2010 aerials, 2014 aerials, and 2018 aerials. Additionally, the application includes the following tools: Search, Basemap, Select, Draw, Measure, Print, and links to Davie County databases and websites.

The Parcel Viewer application enables you to search by address, owner name, county ID, or NC PIN. After locating a parcel, you may opt to select desired layers from the Layer List. By clicking in the parcel boundaries, a pop-up window appears containing information about the specified parcel. At the top of the pop-up, you can access the property’s appraisal card. Additionally, you can select the parcel dimensions layer to observe annotated dimensions of the property. Please contact Davie County Tax Administration with all questions pertaining to parcel dimensions. Additionally, visit the Parcel Demographics Dashboard in the Map Gallery for more information.
The Planning and Development Application is intended to provide information for zoning, septic sites, flood hazards, and voluntary agricultural districts in Davie County. The application includes the following layers: Septic Sites, Address, Streets, Parcels, Flood Hazards, Voluntary Agricultural Districts, Zoning, Zoning Overlay, 2004 aerials, 2007 aerials, 2010 aerials, 2014 aerials, and 2018 aerials. Additionally, the application includes the following tools: Search, Draw, Measure, and Print.

The Zoning layer offers viewers the ability to visualize zoning in Davie County and can identify zoning type according to the legend when expanded.

This application also enables users to search for addresses or parcel (owner, County ID, NC PIN) to locate zoning types, septic sites, voluntary agricultural districts, or flood hazards. Notice some layers are grayed out and need to be zoomed in to appear in the map viewer.

To locate septic sites, select the Septic Sites layer in the Layer List. Search by address or parcel ID or PIN to locate the desired area. Note the Permit entry ID/notes and Permit Link at the bottom of the pop-up window. This link will direct you to the digitized permit including original
notes, drawings, and other information. Voluntary Agricultural Districts has the same function when searched.

The text window on the left side of the map viewer includes steps and tips to locate resources. Septic Sites may be found by using the search tool, but if a site cannot be located, search by parcel ID or PIN. If no results are returned, zoom into the area of interest and open the attribute table next to the Septic Sites layer by clicking the ellipsis and View in Attribute Table. The records in the table filter according to the area shown in the map viewer. A septic site may be associated with a nearby address and can be located by visiting the surrounding permit links. If no result is returned after viewing the attribute table, a permit may not exist or has not been digitized.

School District Viewer
The School District Viewer application is intended to provide information about school districts in Davie County. The application includes the following layers: Schools, Elementary, and Middle School Districts. By searching for an address, you can locate the surrounding elementary and middle school districts. In the resulting pop-up window, you can view both elementary and middle school districts that the address falls in. Optionally, select the links to visit the school’s website and learn more. Additionally, visit the School Demographics Dashboard in the Map Gallery to learn about school demographics and other information.
The Voting Precinct Finder Application is intended to provide information about voting precincts in Davie County. Users can search by address to locate the voting precinct for that address. Once an address is located, users can view the precinct, precinct ID, and voting location in the pop-up window. Additionally, the pop-up window provides contact information for elected officials in Davie County, North Carolina, and Washington, D.C. Please visit the Voter Statistics and Elected Official Information Dashboard to learn more about Davie County voting demographics and statistics.