

NCDOT GeoData Export Tool

User Guide

Draft



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Overview

The **NCDOT GeoData Export Tool** is an interactive map-based tool that allows users to export NCDOT enterprise data based on a user defined map area, selected county, or selected city.

The tool returns a link to a zip file containing clipped data in a variety of proprietary data formats, including Esri, Microstation, and AutoCAD.

The Data

The data available for download is from NCDOT publication products and is current as of the following update schedule:

- Route Arcs – Updated quarterly; February, May, August, and November
- Route Characteristics – Updated quarterly; February, May, August, and November
- Structures – Updated quarterly; February, May, August, and November
- County Boundary – Updated yearly in February
- Municipal Boundary – Updated yearly in February

Metadata for these data products can be found by clicking on the links below:

- [Route Arcs](#)
- [Route Characteristics](#)
- [Structures](#)
- [County Boundary](#)
- [Municipal Boundary](#)

Application Tips

The following are Tips for using the tool:

- If a large area is needed, consider downloading the full dataset from the NCDOT “GIS Data Layers” web site at <https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx>.

Exporting data for a large area, such as several counties, can take a long time and may even time out.

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- Exporting data for multiple disconnected areas is possible. Prior to executing the tool draw all areas or select all cities or counties by using the shift key. The exported data will be clipped to all areas.
- Remember to use the tool's clear button when defining an area of interest to ensure you don't end up clipping data for areas that are not of interest.

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Key Functions

The screenshot shows the NCDOT GeoData Exporter web application. The browser address bar displays the URL: `ncdot.maps.arcgis.com/apps/webappviewer/index.html?id=0232a469d5994f3287885c35a31ae840`. The page title is "NCDOT GeoData Exporter".

Callout boxes provide the following information:

- Export by Selected Boundary:** Switch to this tool to set a county or city boundary as the selection area.
- Export by Defined Area:** The application opens with the focus on this tool.
- County boundaries and city boundaries are available for reference and to define an area.
- Click on the map to view a popup of information for a county or city boundary.
- Click on the Help link in either tool to view this document.

The interface includes a map of North Carolina with county and city boundaries. A popup window for "County Boundary" (1 of 2) displays the following information:

County Boundary	
County Name	Davie
County Number	030
DOT Division ID	9
Zoom to	

The right-hand panel shows the "Export by Defined Area" tool. It has tabs for "Input" and "Output". Under "Layers to Clip*", there are checkboxes for "Route Arcs" (checked), "Route Characteristics", "Structures", "County Boundary", and "Municipal Boundary". Under "Area of Interest*", there are icons for various shapes: a triangle, a square, a circle, an oval, a polygon, and a star. Below these is a red square icon with a white outline. Under "Output Format*", a dropdown menu is set to "File Geodatabase - GDB - .gdb". A "Help" link is visible, and an "Execute" button is at the bottom right.

Export by Defined Area

Use this tool to clip data based on defined shapes.

1. Enter/select the information to define the export product.

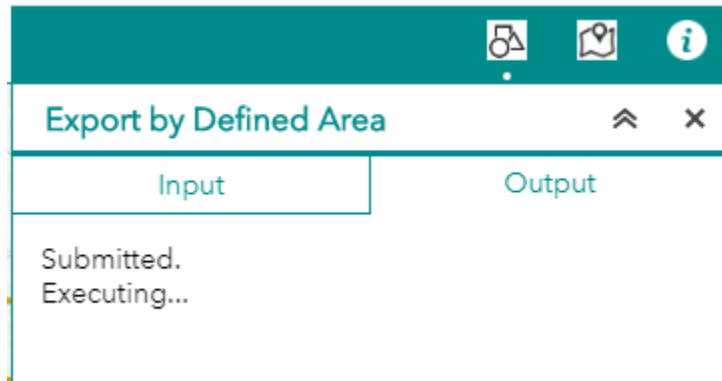
The screenshot shows the 'Export by Defined Area' tool interface. It features a teal header with the tool name and a close button. Below the header are two tabs: 'Input' and 'Output'. The 'Input' tab is active and contains the following sections:

- Layers to Clip*:** A list of checkboxes for selecting layers to clip. 'Route Arcs' is checked, while 'Route Characteristics', 'Structures', 'County Boundary', and 'Municipal Boundary' are unchecked.
- Area of Interest*:** A row of six icons representing different shapes: a triangle, a square, a circle, an oval, a polygon, and a star.
- Clear:** A red square icon with a white trash can symbol, used to clear the current area of interest.
- Output Format*:** A dropdown menu currently set to 'File Geodatabase - GDB - .gdb'.
- Buttons:** A purple 'Help' link and a dark blue 'Execute' button.

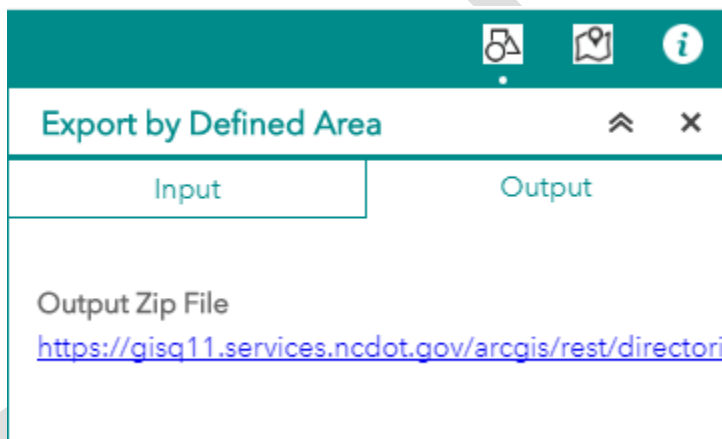
Callout boxes provide the following instructions:

- 'Check on the layers you want to clip and' points to the 'Layers to Clip*' section.
- 'Define the area to clip. Draw multiple shapes to clip multiple areas at once.' points to the 'Area of Interest*' icons.
- 'Clear the currently drawn areas to start over.' points to the red trash icon.
- 'Select an output format' points to the 'Output Format*' dropdown.
- 'Click Execute to run the tool.' points to the 'Execute' button.
- 'Click Help to view this document.' points to the 'Help' link.

2. While the tool is executing, the “Output” tab is opened and messages are displayed.



3. After the tool completes successfully, a link to the zip file is displayed. Click on the link and download the file using the browser’s functionality.



Export by Selected Boundary

Use this tool to clip data based on defined shapes.

4. Enter/select the information to define the export product.

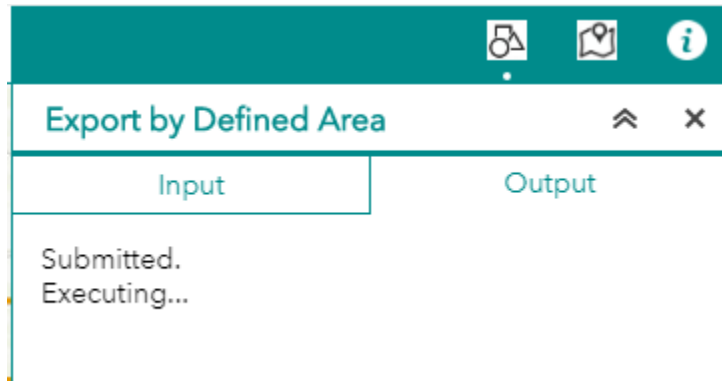
The screenshot shows the 'Export by Selected Boundary' tool interface. It features a teal header with the tool name and standard window controls. Below the header are two tabs: 'Input' and 'Output'. The 'Input' tab is active and contains the following sections:

- Layers to Clip***: A list of layers with checkboxes. 'Route Arcs' is checked, while 'Route Characteristics', 'Structures', 'County Boundary', and 'Municipal Bo' are unchecked.
- Area of Interest***: A section with a dropdown menu currently set to 'County Boundary', a black square icon, and a red square icon with a white eraser.
- Output Format**: A list of output options with checkboxes. 'Municipal Boundary' and 'County Boundary' are checked. Below this list is the text 'File Geodatabase - GDB - .gdb'.
- Buttons**: A 'Help' link and a dark blue 'Execute' button.

Callout boxes provide the following instructions:

- 'Check on the layers you want to clip and' points to the 'Layers to Clip*' section.
- 'Define the area to clip by first selecting the overlay layer.' points to the 'Area of Interest*' dropdown.
- 'Activate the selection tool and click the map to select' points to the red square icon.
- 'Select an output format.' points to the output format list.
- 'Click Help to view this document.' points to the 'Help' link.
- 'Click Execute to run the tool.' points to the 'Execute' button.
- 'Clear the currently drawn areas to start over.' points to the red square icon.

5. While the tool is executing, the “Output” tab is opened and messages are displayed.



6. After the tool completes successfully, a link to the zip file is displayed. Click on the link and download the file using the browser's functionality.

