Denver Manufacturing Map Tool User Guide

www.denvergov.org/oed

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Manufacturing in Denver

With over 20,000 employees and nearly 1,000 businesses, Denver’s manufacturing sector is a critical component of the regional economy. Manufacturing employment in Denver has grown significantly in the past several years, with Denver manufacturers increasing employment an average of 6% since 2010. *(Data source: US Bureau of Labor Statistics, 2014 Quarterly Census of Employment and Wages)*

Through our business development and workforce programs, OED seeks to support Denver’s existing manufacturers and encourage the development of additional opportunities.

The [Denver Manufacturing Map Tool](#) provides useful information on multiple aspects of the manufacturing sector in the Denver area. Manufacturers can find suppliers; job seekers can find manufacturing education and training programs in the region; and industry associations can find concentrations of manufacturers by subsector. For a statewide mapping tool please visit [Manufacturer’s Edge CONNECT Tool](#).
About

Why would a manufacturer use the map tool?
- Find suppliers in proximity to manufacturing facility
- Identify nearby transportation providers and warehousing opportunities
- Select a strategic location for a new facility
- Locate educators and training providers to train workforce
- Connect with trade associations to enhance connections and access innovative business practices

How was this tool developed?
- Software: ESRI ArcMap 10.2, ArcGIS Online, Web AppBuilder for ArcGIS.
- Data: InfoGroup 2014 purchased and licensed by Denver Office of Economic Development, ESRI base maps, Colorado Department of Transportation, Denver Office of Economic Development, DenverGIS.
  - Businesses that have NAICS code 31, 32, 33 (Manufacturing) or 48, 49 (Transportation and Warehousing) in their primary, secondary or tertiary NAICS listing are included in the map tool.
- Resources data set updated as needed.
- Subject matter experts: Denver Office of Economic Development Manufacturing Business Development Representatives, focus group with manufacturers and logistics businesses.

Contacts
- Manufacturing business services: oed@denvergov.org
- Map and data contact: Katherine.OConnor@denvergov.org
- Please contact us if data is incorrect or missing.

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Quick Start

Buttons and their functions

- Search for Manufacturing Businesses
- Search for Transportation & Warehousing Businesses
- Search for Resources (Education & Training, Industry Associations, Business Assistance)
- Draw Point or Shape on Map
- Map Zoom In
- Map Zoom Out
- Return to Full Map Extent
- Use Your Current Location to Center Map
- View Map Legend
- Turn On/Off Map Layers
- Print Map to PDF
- Information about Map Tool
## Basic Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Map Zoom In</td>
<td>Get a closer view of the map</td>
</tr>
<tr>
<td>Map Zoom Out</td>
<td>Get a wider view of the map</td>
</tr>
<tr>
<td>Return to Full Map Extent</td>
<td>Return to the original map view</td>
</tr>
<tr>
<td>Use Your Current Location to Center Map</td>
<td>Location feature of your device must be on</td>
</tr>
<tr>
<td>Draw Point, Line, Shape or Text on Map</td>
<td>Select custom colors and transparency before drawing. Clear will erase current drawing and all previous drawings.</td>
</tr>
</tbody>
</table>

![Draw Panel](image)
View Map Legend

**Legend**

- **Manufacturing Resources**
  - Education
  - Resource
  - Association

- **Manufacturing Firms (NAICS 31-33)**
  - 31 - Non-Durable Goods
  - 32 - Durable Goods
  - 33 - Advanced Manufacturing

- **Transportation & Warehousing Firms (NAICS 48-49)**
  - 48 - Transportation
  - 49 - Warehousing & Distribution

Turn On/Off Map Layers

Click on down arrow next to layer name for more layer control options.
Print Map

Use Map Title box to type your custom map title. Click Print to create PDF file of map. Click on PDF file name link to open.

Information about Map Tool

View basic information about map tool, data sources, and contacts.
Window Controls

These buttons allow you to control the windows within the map tool such as the legend and location information pop-up. Some buttons may look different on a mobile device.

- Show/Hide Window
- Maximize/Minimize Window
- Close Window
- Show Entire Pop-Up Window
- Hide Pop-Up Window
- Next/Previous Record
Layer Controls

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn On/Off Map Layers</td>
<td>Click on down arrow next to layer name for more layer control options.</td>
</tr>
<tr>
<td>Zoom to Full Extent of Layer</td>
<td>Reset map extent to show entire layer on map</td>
</tr>
<tr>
<td>Change Transparency of Layer</td>
<td>Turn on/off information pop-up windows for that layer</td>
</tr>
<tr>
<td>Disable/Enable Pop-Up</td>
<td>Change the order in which the layers are drawn on the map</td>
</tr>
<tr>
<td>Open Attribute Table</td>
<td>Open layer’s data table</td>
</tr>
<tr>
<td>View Layer Description</td>
<td>Open link with layer description (metadata)</td>
</tr>
</tbody>
</table>

Layer List

Operational Layers
- Manufacturing Resources
- Manufacturing Firms (NAICS 31-33)
- Transportation & Warehousing (NAICS 48-49)
- Non-Durable Goods Manufacturing (NAICS 31)
- Durable Goods Manufacturing (NAICS 33)
- Advanced Manufacturing (NAICS 35)
- Transportation (NAICS 48)
- Warehousing & Distribution (NAICS 49)
Table Functions

There are two ways to open a layer’s data table.

1) In the Layer Control window, click on the arrow to the right of the layer name and select Open Attribute Table.
2) Click on the small arrow at the bottom of the map window to view tables for the layers that are currently displayed on the map.
Once the table is open, the following functions are available:

- **Click table row**
- **Select Records(s)**: Click on a record (table row) to select that item in the table and on the map. Hold down the Shift key and click on additional rows to select multiple records.
- **Access Table Options**
- **Show Selected Records**
- **Show Related Records**
- **Filter Data Tool**: Create a custom data filter based on layer’s attributes. *(Tip: Use the query tools for most commonly used data filters.)*
- **Show/Hide Columns**
- **Filter Table by Map Extent**
- **Zoom to Selection**
- **Clear Selected Records**
- **Refresh Table**
# Data Queries

## Query Types

**Search**

- **Find record by attribute search**
  - Type search term in box (replace any text or symbols already there).

**Dropdown Menu**

- **Find record by selecting from list of attributes**
  - Scroll through dropdown menu and click on selection.
Query Options

**Use Spatial Filter to Limit Features**

*Add geographic filter to original query*

To see only records that appear in the current map view, choose *Only features intersecting the current map area.*

To create a custom spatial filter, choose *Only features intersecting the user-defined area* and use the tool provided to draw on the map.

**Add Result as Operational Layer**

*Add query results to the map as a new layer*

The new layer will show up in the Legend and Layer List (with a generic query name).

If this option is *not* selected, query results will disappear from map when query window is closed.
Results Options

Select Record

Click on record to select from results list
Click on Zoom To link to get closer view of selected record.

Click on point location to view full information pop-up window.

Clear Results

Clear Results
Removes query result selections from map.