

ARTEDS USER MANUAL

Appalachian Regional Transportation and Export Data System User Manual

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1. General Information

The objectives of this manual are

- To navigate users to how to log into the online mapping application, ARTEDS, for the Appalachian Development Highway System (ADHS) GIS for Cost to Complete Estimate.
- To familiarize users with the website interface and tools which allow for searching, identifying and determining the location of companies within all thirteen Appalachian States.

2. Feature

By using the "ARTEDS Maps" feature, you can plot individual addresses, routes, or areas on a map, and describe them. Visitors can zoom and pan in the maps, allowing analysis from different viewpoints. The system is easy to learn and use, offering basic map rendering with no training in data analysis required. ARTEDS will be a great fit for people seeking a simple way to visually display a collection of information on the Appalachian Development Highway Cost to Complete Estimate.

3. Browser Specifications

To use all of the features and functions, we recommend the latest version of Internet Explorer, Mozilla Firefox, or Google Chrome.

4. Launching the Mapping System

- 1. Go to <u>www.eadhs.org</u>, the Appalachian Development Highway System (ADHS) GIS for Cost to Complete Estimate web site.
- 2. Click the ARTEDS link. This will bring you to the ARTEDS home page.



3. Login using your Username and Password.

ARTEDS		Â
Home Map		
User Login	Access denied	
Username * Password * Request new password Log in	You are not authorized to access this page.	
	Copyright 2012, Nick J. Rahall, II Appalachian Transportation Institute	

4. Click the Map from the menu to access the online mapping system.



5. The map view will appear as an image shown below.



The legend below shows the information which represented by graphics on the map.



5. Map Layout



- 1. Zoom Control
- 2. Scale Bar
- 3. Switch Basemap Tool
- 4. Search Tool
- 5. Show / Hide Results
- 6. Show / Hide Details
- 7. Layers Tool
- 8. Log Out

6. Instructions

1) Zoom Control

Zoom control enables you to change the map perspectives. There are 20 zoom levels from the closest to the farthest.



There are also three different methods available to change the map scale.

- Scroll up on your mouse wheel to zoom in.
- Scroll down on your mouse wheel to zoom out.
- Double click on an area of the map for a fixed zoom in.

2) Scale Bar

The Scale Bar is located on the right bottom of the map and represents the map scale. When the scale of the map is changed, the scale bar will automatically get updates to the new scale.



3) Switch Basemap Tool

The **Switch Basemap Tool** gives you options to change the background of the map.

Switch Basemap

By selecting the **Switch Basemap Tool**, nine individual map views will appear in the expanded area. To observe all map views, use the scroll bar on the right side. To hide the Switch Basemap Tool, click anywhere within the **Switch Basemap** bar again.

Each map has different scale availabilities and only displays at certain map scales.

✓ Switch Basemap			
Imagery	Imagery with Labels	roate Area very to the set	
			E
Topographic	Terrain with Labels	Light Gray Canvas	•
THE AT LEAST AND A DECEMBER OF	Anno Anno Anno Anno Anno Anno Anno Anno		•

By clicking on a desired basemap, the background layer will be changed. For example, if the Imagery basemap is selected and changed to the Topographic basemap, the map view would be changed from Figure A to Figure B.



Figure B

4) Search Tool

Click the **Search** tool on the top left of the map.

Search	Layers

The **Company Search** dialog box will pop up.

	Company Search	Click X to close the Company
Search options	 All Appalachian States All Appalachian States In Within miles of 	Search dialog box After the search option is selected, Click the Search button to get the Company Search
	Company Name and Type Port, Country, Sales and Employees Data Sources	Click Posot
_	Search Reset	button to clear the previous selections.

There are four different search options.

- Location
- Company Name and Type,
- Port, Country, Sales and Employees
- Data Sources

Please refer to page 11 to 22 for further details on search options.

By clicking search , a search result appears at the bottom as shown below.

To start a new search, click reset to clear the criteria from a previous search.

ARTEDS								> Log ou	Jt
Home Map									
Company Search Location All Appalachian State © In Within miles on State Company Name and Type Port, Country, Sales and En Deta Sources	s State: West Virginia v f nployees Search Reset							• Switch Basemap	
Company	Address	Phone	DUNS	Sales	Export Value	Shipments	TEUs	SIC	
3M Company	Jacobson DráPoca,áWV/á25159	3047550719		0	(null)	(null)	(null)	2869	*
Bright Of America Llc	300 Greenbrier Rd, Summersville, WV 26651	3048723000		10000000	(null)	(null)	(null)	3999	E
Newell C-E Inc	257 Kennedy Park Marina Rd, Newell, WV 26050	3043871160		3700000	(null)	(null)	(null)	3295	
Brentwood Industries Inc	793 Corning Way, Martinsburg, WV 25428	3042649190	958745739	0	1545.56	1	0	3089	
Channel Creasing Matrix Inc	531 Corning Way, Martinsburg, WV 25428	3042678932	3104387	1400000	51500.41	1	2.25	2631	
Chem-Pak Inc	242 Corning Way, Martinsburg, WV 25405	3042621880		3400000	(null)	(null)	(null)	2992	
Century Aluminum Of West Virginia Inc	34 McMechan St, Ravenswood, WV 26164	3042736000		0	(null)	(null)	(null)	3334	
•								÷	

Even after the reset button is selected, the expanded search result will remain unless you click the **Hide Results** tab. (For more instructions on the **Results** window, please refer to the Show / Hide Results section of this manual on page 23.)

When you finish with your search, you can close the dialog box by clicking **×** on the upper right corner.

a. Location

The **Location** tool enables you to find a company / companies based on their selected physical locations.

• All Appalachian States option searches the companies that fall within the boundaries of the thirteen Appalachian states.

Company Search	×	
Location		
All Appalachian States	Search for companies anywhere within the thirteen Appalachian States.	
Within miles of		
	All Appalachian States consists of	
	Alabama, Georgia, Kentucky, Maryland, Mississippi,	
	New York, North Carolina, Ohio, Pennsylvania, South	۱
	Carolina, Tennessee, Virginia, and West Virginia	

• The **In** option enables you to search for companies by desired area. By choosing this option, a drop down list will appear. There are six area options available to select.

	Company Search	×
	Location	
	All Appalachian States Select a region from the drop down list.	
	···· ▼	
Choose one of the	Entire ARC Region	
	County	
desired regions	Cí City	
from this drop	ZIP Code	
down list and click.	Select Area on Map	
	Data Sources	
	Search	t

- Entire ARC Region option allows searching in the entire Appalachian Region which includes West Virginia and the parts of the states Alabama, Georgia, Kentucky, Maryland, Mississippi, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, and Virginia.

Company Search		×
Location		
All Appalachian States	The Appalachian Region, as defined in ARC's authorizing legislation, is a 205,000- square-mile region that follows the spine of the Appalachian Mountains from southern New York to northern Mississippi.	
Entire ARC Region		
County		
Pc ZIP Code Select Area on Map	yees	
Data Sources		
	Search	t

! Since Entire ARC Region covers only part of each participated state except West Virginia, this choice may give different search results from All Appalachian State option.

- When **State** option is selected, a dropdown list will appear with state names. By clicking one of thirteen states, you can search the companies within the selected state boundary.

Company Search	×	
Location		
All Appalachian States State:	v Alabama Georgia Kentucky Maryland Mississippi New York North Carolina Ohio Pennsylvania South Carolina	Choose one of the states by clicking
Data Sources	Tennessee	
	Virginia	
	West Virginia rch Reset	

You can search the companies by county or city with a similar approach as selecting a state.

- When the **County** option is selected, two drop down lists will be shown to select a state and a county name. Using the **In** option with the **County** selection will search for companies located within the selected county's boundary. In this case, Georgia is selected as the state name in the State drop down list and the corresponding counties will appear in the County drop down list.

Location			
All Appalachian States State:	Georgia		To see all available
	Bacon		
	Baker		county names,
	Baldwin		make sure to drag
Company Name and Type	Banks		the scroll bar down
Port, Country, Sales and Employees	Barrow		
Data Sources	Bartow		to view the end of
	Ben Hill		the list.
	Berrien	Reset	
	Bibb		

- When the **City** option is selected, two drop down lists will be shown to select a state and a city name. The image below shows using "**In**" option with **City** selection which will search the companies located within the selected city boundary. In this case Mississippi is selected as state name and the corresponding cities will appear in the drop down list.

Location			
All Appalachian States State	e: Mississippi 💌		
City:			To see all available
City 👻	Aberdeen		city names,
	Ackerman		make sure to drag
	Alcorn State University	_	the scroll bar down
Company Name and Type	Alligator		to view the end of
Port, Country, Sales and Employees	Amory		the list
Data Sources	Anguilla		
	Arnold Line		
	Artesia		

 ZIP Code option enables users to type five digit postal codes in the ZIP5 Codes box and search the companies located within desired ZIP code areas. To get search results, at least one valid ZIP Code is required and you can give multiple zip codes separated by commas.

Location	
All Appalachian States ZIP5 Codes:	This value is required.
	More than one ZIP Code can be used fo
ZIP5 Codes: 25301,25302,25311	searching multiple areas by separating 5 digit ZIP Codes with a comma / commas

- Select Area on Map option enables users to search the companies by drawing polygons.

Company Search X	
Location All Appalachian States In Within miles of Select Area on Map	Click and start to draw a polygon on the map.

By selecting the **Draw Polygon** option, the **Company Search** dialog box will close automatically and you are ready to draw a polygon. You can add an angle by clicking at the desired location on the map.

The single click allows you to select the angles or sides of the polygon. Double click to end the selection and view the final polygon.



When the polygon is finished, the fill color of the polygon will change and the **Company Search** dialog box will be opened automatically.

To continue to draw another polygon, click the **Draw Polygon** button.

Draw Polygon

Before starting new search or to clear the polygon, click the **Clear Graphics** button.

Clear Graphics



• Within miles of option searches using a combination of the desired range and a selected region.

Type the number	Company Search X
how many mile of the range you wish to search from your selected region.	 All Appachian States In Within miles of Select Area on Map
The same regional options are available as the In option except the Select Area on Map menu now includes a	Entire ARC Region State County CC City Pc ZIP Code Select Area on Map Data Sources
new drawing option, Draw Point .	Search Reset

By selecting this option, the same regional options will be listed on the drop down list.

For example, if you would like to search for the companies located within three miles and including Hancock County, you can type "3" in the box and select Hancock County. By clicking the Search button, the **Results** window appears and the map shows the searched area with three mile buffers.



By selecting the Select Area on Map option, you can search by drawing polygons or points with desired buffered area.

Draw Polygon

Figure A shows the polygon drawn using the same approach as the In option.

Figure B shows the searched map view within 20 miles of the polygon drawn on the map. The polygon appears with the 20 miles of buffered area in yellow on the map and the Results window is automatically expanded.



Figure B

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r-Busch

oup Inc

oup Inc

e Lic

ne Inc

To clear the polygons on the map, click **Clear Graphics** button.

Clear Graphics

Switch Bas

map

You can search companies by the -**Company Search** × selected location using the **Draw Point** Location option with the desired numbers of All Appalachian States Draw Polygon buffer areas. 🔘 In Draw Point Within 10 niles of Clear G ohics Draw Point elect Area on Map -Type desired numbers of miles to search from the selected Company Name and Type location. Port, Country, Sales and Employees Data Sources Select the Draw Point option by Search Reset clicking. By clicking anywhere within the map, the location for the point will be selected. By clicking the Search button, the buffered area appears on the map and corresponding results are shown in the expanded Results window.

4

Company

R S M Co

W C Mc Quaide Inc

A & W Equipment

Nonlethal Technologies Inc

Specialty Tires Of America In

Results

window

ufacturing Inc

Company Search

pany Name and Type Port, Country, Sales and Em Data Sources

💿 All Ap 10 Select Area on Map 👻

Address

660 S 13th St. Indiana. PA 15701

2879 Oakland Ave, Indiana, PA 15701

101 Innovation Dr. Homer City, PA 15748

527 S 13th St, Indiana University of Pennsy 15701

9419 Rte 286 Hwy W, Homer City, PA 15748 722 Young Rd, Indiana, PA 15701

1600 Washington St. Indiana. PA 1570

Search Reset

Phone

7244638743

7243496300

7244791400

7244654381

7244795100

7247265228

7243499010

DUNS

961940426

Sales

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Switch Ba

b. Company Name and Type

Company Name and Type option enables users to find the companies matched by their name or specific codes.



	Description	Example
HS	The Harmonized Commodity Description and	7985 –
Codes	Coding System (HS) is the internationally	Miscellaneous
	standardized system of names and numbers for	Cargo
	classifying traded products by the World Custom	
	Organization.	220190 – Other
		Waters, Ice, Snow
NAICS	North American Industry Classification System	333991 - Power-
Codes	(NAICS) is used by business and government to	Driven Hand Tool
	classify business establishments according to	Manufacturing
	type of economic activity in Canada, Mexico, and	
	the United States. The NAICS numbering system	493110 - General
	employs six-digit code at the most detailed	Warehousing &
	industry level.	Storage
DUNS	The Data Universal Numbering System (DUNS®)	
Numbers	is a system developed and regulated by Dun &	
	Bradstreet (D&B) that assigns a unique numeric	
	identifier, referred to as a "DUNS number," to a	
	single business entity. The DUNS number is a	
	nine-digit number, issued by D&B.	

c. Port, Country, Sales and Employees

• Top Port and Top Country

The database includes company's trading information. If the company has **Product & shipping** information, they will be listed in the **Overview** within the expanded **Details** window.



Table A

Products & Shipping

Exports

Top Countries	Shipments
BELIZE	3
BAHAMAS	1
GUATEMALA	1
Top Ports	Shipmer ts
PT EVERGLADES	4
W PALM BCH	1
Top Commodities	Shipmer ts
8302 - HARDWARE, FIXTURES, CASTORS ETC & PARTS, BASE METL	2
392690 - ARTICLES OF PLASTICS, NESOI	2
392042 - PLATES, SHEETS ETC, NON-CELL ETC, FLEX POLY VY CHL	1

Table A shows the example of theProducts & Shipping data.

The numbers in the Shipment field show the rank order.

In this case, Bahamas and Guatemala are the two main countries to export to, and West Palm Beach is the port the company uses the most for shipments.

Top commodities are listed with HS code.

You can search companies using Products & Shipping Information.

The search approaches for both **Top Port** and **Top Country** are the same. Type the desired port name or country name in each box, and choose the rank order from the drop down list. For example, if you would like to search companies which mainly export to Guatemala, type "Guatemala" in the Top Country text box, and select the desired rank number from the drop down lists.

	Port, Country, Sales and Employees		
Type the name of the port.	Top Por : Rank	: Any 🔻	
Type the name	Top Country : Rank	Any 👻	Use the
of the country.	Sales:	1st	drop down
	Employees:	3rd 4th	list to choose the
	Data Sources	5th	rank order.

Sales

The Sales search option gives you the range of the sales amount of companies.

Port, Country, Sales and Employe	es	
Top Port:	Rank: Any 👻	
Top Country:	Rank: Any 👻	Choose the
Sales:		desired range o
		sales amount
	\$0 to \$1 Million	from the drop
	\$5 Million to \$10 Million	down list.
Data Sources	\$10 Million to \$25 Million	
	\$25 Million to \$50 Million \$50 Million+	

• Employees

The employee option allows you to search by the number of employees of the companies.

Port, Country, Sales and Employees		
Top Port:	Rank: Any 👻	
Top Country:	Rank: Any 🗸	
Sales:		
Employees	Choose the	
	desired rang	je
Data Sources	11 to 25 from the dro	р
	26 to 50 50+ down list.	

d. Data Sources

You can also choose the data sources. PIERS is a comprehensive database of U.S. waterborne trade activity around the globe. PA is the data source consists of the state of Pennsylvania.

	Company Search X
	Location
	Company Name and Type
	Port, Country, Sales and Employees
	Data Sources
or A	Our data comes from a variety of sources. Check below the sources you wish to search.
	Search Reset

The check boxes for both PIERS and PA are checked by default.

5) Show / Hide Results

By clicking the **Search** button after selecting one of the search options, the **Results** window will expand and show the results at the bottom of the map.

The results will be shown as an attribute table. Depending on the size of the internet browser window, you may need to use the scroll bar on the left and at the bottom to see the entire result.



Selecting one record in the attribute table expands the **Details** window and zooms into the geographical location in map view.



6) Show / Hide Details

The **Details** window shows the particular information for the searched company when a company location is selected on the map, or a company record is selected in the **Results** window.



7) Layers Tool

The ARTEDS interactive map starts with the traditional map as the base. The user can control what data is displayed on the map. Click on the **Layers** button on the top left hand corner of the map and a list of data will be displayed in the drop down list. Check [\square] marks indicate the data that is "turned on" on the map. Clicking on a check box will turn a data layer on or off. The map will redraw automatically. On the base map there are features turned on by default.



A layer that is not checked is available to the map but is not visible at the current zoom level of the map. For example, at the base view, the layer named Local Development Districts, 2010 is grayed out and the check box does nothing. The Exporters, Economic Status FY 2010 or Per Capita Market Income, 2007 map data is not displayed or "turned on" at the current view.