



# MIAMI VALLEY

Regional Planning Commission

## ArcGIS Online Basics

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# ArcGIS Online Basics - Agenda

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**Introductions & Basics Overview**

**Exercises** – *working within web maps*

**Exercises** – *learning more about mapping*

**Exercises** - *Application templates*

**Resources and Wrap up**



# Geographic Information System - A system to manipulate, analyze and present information that is tied to a spatial location

## ArcGIS

- A Complete System for Geographic Information



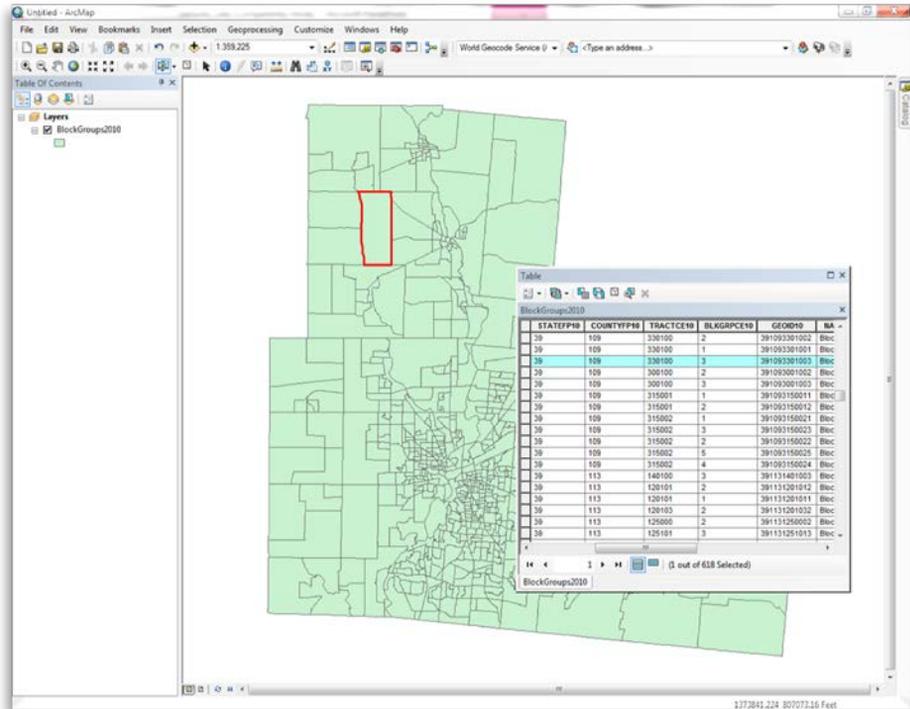
### ArcGIS Solutions

- Local Government
- State Government
- Transportation
- Environment



# GIS Connects Locational Information to Attribute Data

- Location of features are shown on the map (spatial data)
- Characteristics of each feature is stored in the data table (attribute data)
- Maps and databases are Interactive



# ArcGIS home page – Arcgis.com

ArcGIS Features Plans Gallery Map Scene Help

 Sign In



# ArcGIS



Country Population Estimates, 2015, from



Crime Rate Comparison Map



Seismic Seafloor Feature Anomalies



Southern Pine Beetle Prevention Program

## ✓ Sign-up now

Get a free ArcGIS Online account and start making web maps today.

## ✉ Make a Map

Create a map that can be viewed in a browser, desktop or mobile device. Share it on a blog, via email, or embed it in a website.

## 🔧 ArcGIS for Developers

Build custom web and mobile applications that incorporate your maps and data.

## 📖 Discover Lessons

Take hands-on lessons based on real-world problems.



# ArcGIS login page

ArcGIS [Features](#) [Plans](#) [Gallery](#) [Map](#) [Scene](#) [Help](#)

## Sign In

### Need an ArcGIS Public Account?

An ArcGIS Public Account is a personal account with limited usage and capabilities and is meant for non-commercial use only.

[CREATE A PUBLIC ACCOUNT](#)

If you have signed up for an Eri Account, you have automatically been given access to an ArcGIS Public Account and you can use the same sign-in credentials for both.

### Sign In esri

**Username**  
mvrpc

**Password**  
.....

Keep me signed in

[SIGN IN](#)

[Forgot password?](#) [Forgot username?](#)

OR

Sign in with [ENTERPRISE ACCOUNT](#)

Sign in with  



# ArcGIS - logged in

ArcGIS Features Plans Gallery Map Scene Groups **Content**

Ptom

## ArcGIS



Country Population Estimates, 2015, from



Crime Rate Comparison Map



Seismic Seafloor Feature Anomalies



Southern Pine Beetle Prevention Program

### ✓ Apps for Everyone

Use ArcGIS apps to get the job done.

### ✉ Make a Map

Create a map that can be viewed in a browser, desktop or mobile device. Share it on a blog, via email, or embed it in a website.

### 📄 ArcGIS for Developers

Build custom web and mobile applications that incorporate your maps and data.

### 🔦 Discover Lessons

Take hands-on lessons based on real-world problems.



# Your Content Page

ArcGIS Features Plans Gallery Map Scene Groups **Content** Ptom

## Content

My Content My Favorites My Groups

+ Add Item  Create

Search Training

1 - 2 of 2 in Training Sort by: Date Modified

<input type="checkbox"/>	Title	Modified
<input type="checkbox"/>	Beavercreek Training Projects Feature Layer	Nov 7, 2017
<input type="checkbox"/>	Training Web Map	Nov 7, 2017

**Folders**

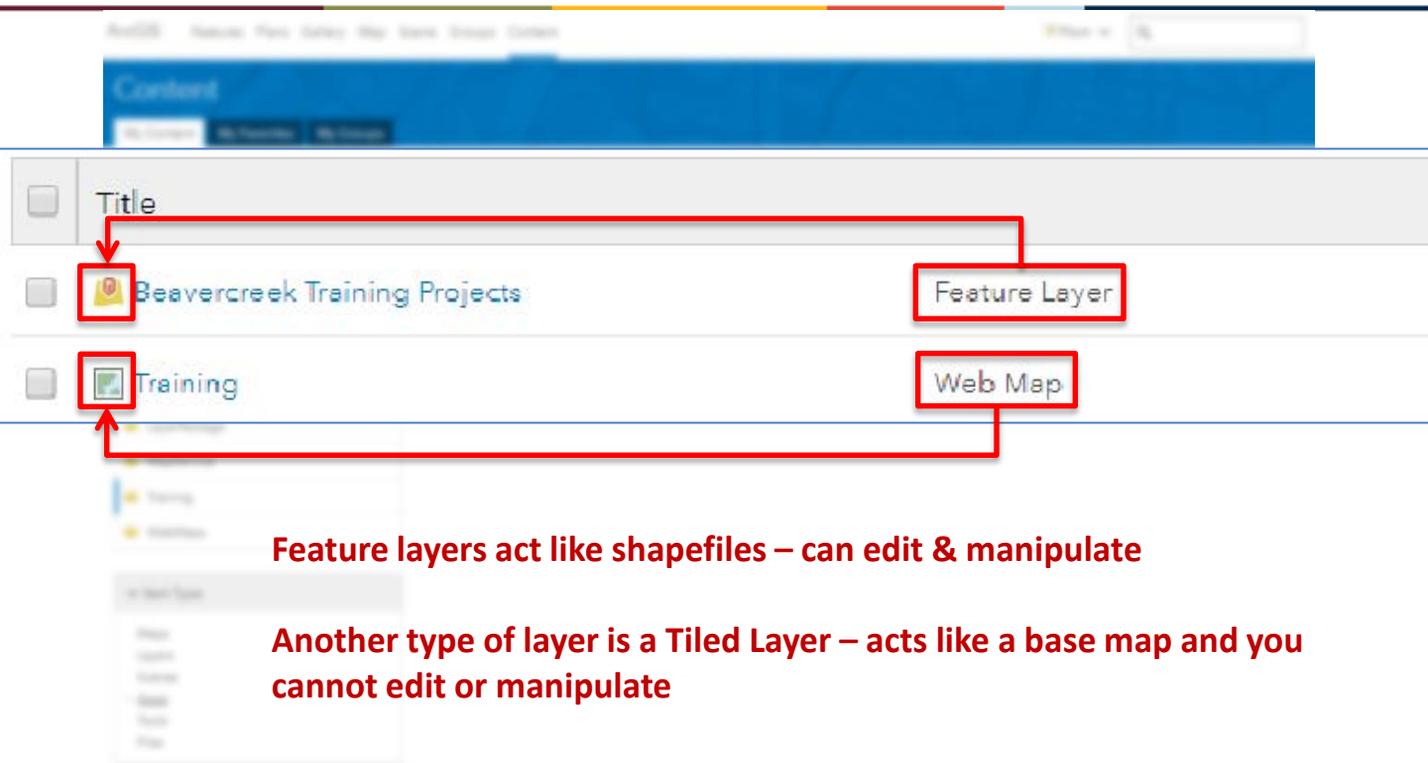
- All My Content
- mvrpc
- KML
- LayerPackage
- MapService
- Training
- WebMaps

**Item Type**

- Maps
- Layers
- Scenes
- Apps
- Tools
- Files



## Your Content Page – types of content



The screenshot shows a content management interface. At the top, there is a blue header with the word "Content" and some navigation buttons. Below this is a list of content items. The first item is "Title" with a checkbox. The second item is "Beavercreek Training Projects" with a checkbox and a red box around its icon. A red arrow points from this icon to a red box labeled "Feature Layer". The third item is "Training" with a checkbox and a red box around its icon. A red arrow points from this icon to a red box labeled "Web Map".

**Feature Layer**

**Web Map**

**Feature layers act like shapefiles – can edit & manipulate**

**Another type of layer is a Tiled Layer – acts like a base map and you cannot edit or manipulate**



# Your Content Page

## Content

My Content My Favorites My Groups

+ Add Item Create

Folders New

Filter folders

- All My Content
- mvrpc
- KML
- LayerPackage
- MapService
- Training
- WebMaps

Item Type

- Maps
- Layers
- Scenes
- Apps
- Tools
- Files

Search Training

1 - 2 of 2 in Training

Sort by: Date Modified

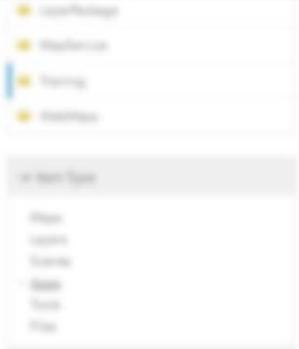
Title	Modified
Beavercreek Training Projects	Feature Layer Nov 7, 2017
Training	Web Map Nov 7, 2017



# Your Content Page



ArcGIS    Features    Plans    Gallery    **Map**    Scene    Groups    Content



# Your New Map

ArcGIS > My Maps **Layer menu**

**Main menu**

New Map > > Ptom

Details Add Basemap

Save Share Print Measure Bookmarks

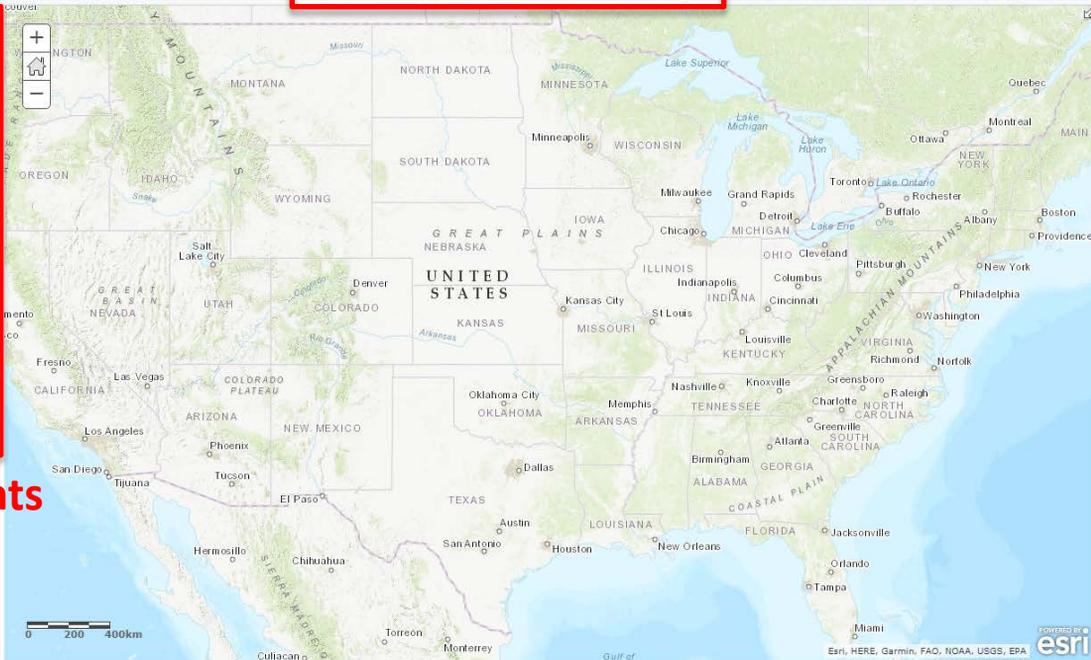
Find address or place

About Content Legend

## Make your own map

It's easy to make your own map. Just follow these steps:

- 1. Choose an area.**  
Pan and zoom the map to an area or search by its name or address.
- 2. Decide what to show.**  
Choose a Basemap then Add layers on top of it.
- 3. Add more to your map.**  
Add map notes to draw features on the map.  
Display descriptive text, images, and charts for map features in a pop-up.
- 4. Save and share your map.**  
Give your map a name and description then share it with other people.



## Table of Contents

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Esri, HERE, Garmin, FAO, NOAA, USGS, EPA



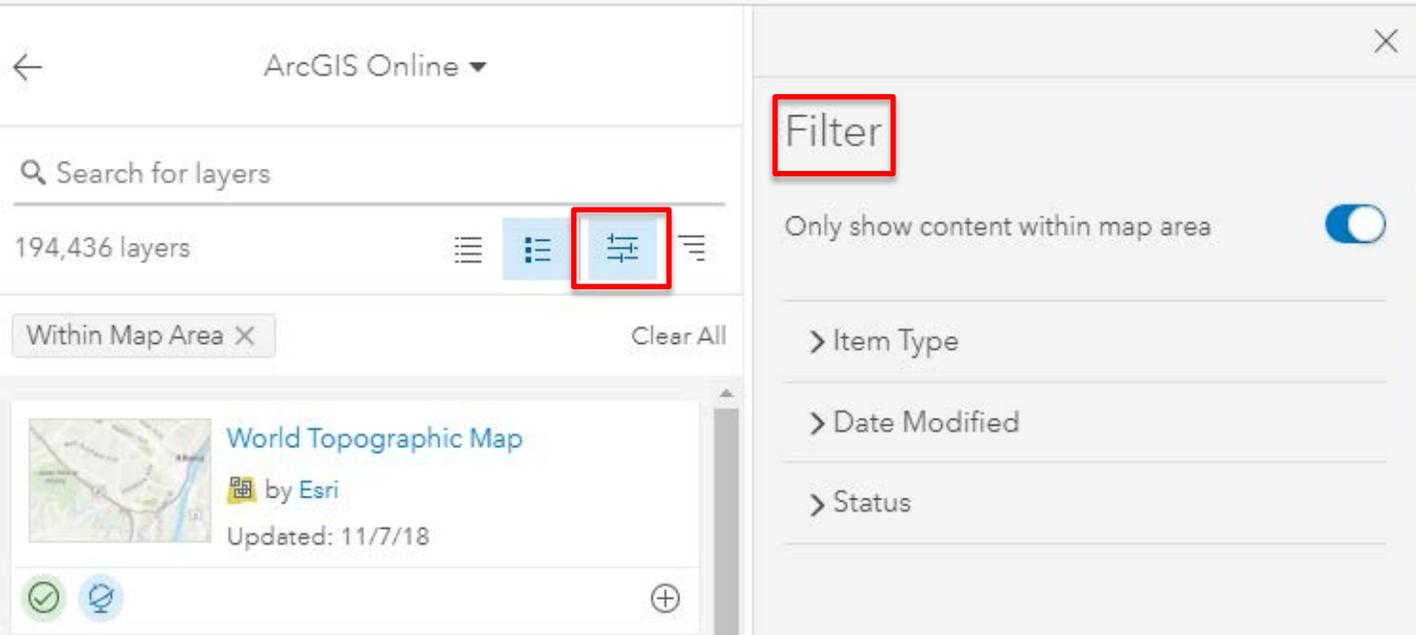
# Adding Layers to your map – by searching

ArcGIS ▼ My Map

The screenshot displays the ArcGIS Online interface. At the top, the 'Add' button is highlighted with a red box. Below it, the search bar is labeled 'Search for layers' and shows '194,445 layers'. A list of layers is visible on the left, including 'World Topographic Map', 'World Imagery (Wayback 2018-06-06)', 'Esri brand map', 'Mid-Century', '2016 USA Median Age', '2016 USA Median Home Value', '2016 USA Per Capita Income', '2016 USA Diversity Index', '2016 USA Median Household Income', '2016 USA Average Household Income', 'Modern Antique', 'Black and White Map (transparent)', 'Human Geography Dark Label', and 'World Street Map (Night - for Export)'. The main map area shows a detailed view of Beaver Creek, Tennessee, with various roads, parks, and landmarks labeled. The map includes a scale bar and a north arrow.



## Adding Layers to your map – by searching



The screenshot shows the ArcGIS Online interface. At the top, there is a search bar with the text "Search for layers" and a dropdown menu set to "ArcGIS Online". Below the search bar, it indicates "194,436 layers". A filter icon (a blue square with a white filter symbol) is highlighted with a red box. Below the search bar, there is a filter panel titled "Filter" (also highlighted with a red box). The filter panel includes a toggle switch for "Only show content within map area" which is currently turned on. Below this, there are three expandable sections: "Item Type", "Date Modified", and "Status".

ArcGIS Online ▾

Search for layers

194,436 layers

Within Map Area X Clear All

 **World Topographic Map**  
by Esri  
Updated: 11/7/18

Filter

Only show content within map area

> Item Type

> Date Modified

> Status



## Adding Layers to your map – by searching

The screenshot shows the ArcGIS Online search interface. At the top, there is a search bar with the text "Search for layers" and a magnifying glass icon. Below the search bar, it displays "194,436 layers". To the right of the search bar, there are four icons: a list icon, a list icon with a blue background, a list icon with a blue background and a plus sign, and a list icon with a blue background and a plus sign, which is highlighted with a red box. Below the search bar, there is a filter button that says "Within Map Area X" and a "Clear All" button. The search results show a map thumbnail for "World Topographic Map" by Esri, updated on 11/7/18. To the right of the search results, there is a "Sort" menu, also highlighted with a red box, which lists the following options: Relevance (selected), Title, Owner, Date Modified, and View Count.

ArcGIS Online

Search for layers

194,436 layers

Within Map Area X Clear All

World Topographic Map  
by Esri  
Updated: 11/7/18

Sort

Sort content by:

- Relevance
- Title
- Owner
- Date Modified
- View Count



## Adding Layers to your map – by adding your own file

### Add Layer from File ✕

Locate the file you want to import.

- Shapefile (ZIP archive containing all shapefile files)
- CSV or TXT files with optional address, place or coordinate locations (comma, semi-colon or tab delimited)
- GPX (GPS Exchange Format)
- GeoJSON (open standard format for simple geographical features)

File:  BeavercreekTr...Projects.zip

- Generalize features for web display  
 Keep original features

IMPORT LAYER

CANCEL



## Changing the basemap

ArcGIS ▾ My Map

 Details

 Add ▾

 Basemap

 About

 Content

 Legend

Contents

 Topographic



# Changing the basemap



# Changing how your layers look

The image shows a screenshot of the ArcGIS Online interface. The top left corner displays the text "ArcGIS" with a dropdown arrow and "My Map". Below this is a toolbar with buttons for "Details", "Add" (with a plus icon), and "Basemap". A secondary toolbar contains "About", "Content", and "Legend". The "Contents" panel on the left lists two layers: "2010 Census BlockGroup Demographics" (checked) and "Topographic" (with a right-pointing arrow and three dots). The main map area shows a topographic map with a yellowish-orange background and white outlines of roads and buildings. A navigation toolbar on the left side of the map includes zoom in (+), home, and zoom out (-) buttons. The top right of the map area has a toolbar with "Save", "Share", "Print", "Measure", and "Bookmarks".



## Changing how your layers look

ArcGIS ▾ My Map

Details

+ Add ▾

Basemap

i About

Content

Legend

Contents

2010 Census BlockGroup Demographics



▶  Topographic



# Changing how your layers look

ArcGIS ▾ My Map

Details

+ Add ▾

Basemap

About

Content

Legend

Contents

2010 Census Block Group Demographics



This opens up many other options for your layer

▶ Topographic



# Changing how your layers look



Change Style

2010 Census Block Group Demographics - 2010  
Census Block Groups, demographics

**1** Choose an attribute to show

POP

+ Add attribute

**2** Select a drawing style

Counts and Amounts (Size)

SELECT

Counts and Amounts (Color)

OPTIONS

Location (Single symbol)

SELECT

DONE CANCEL



# Changing what your layer does – pop-ups

Configure Pop-up

BeavercreekTrainingProjects

Show Pop-ups

**Pop-up Title**

{Name} ⊕

**Pop-up Contents**

Display: A list of field attributes ▾

These field attributes will display:

FID (FID)  
Id (Id)  
Descript (Descript)  
CompDate (CompDate)

[Configure Attributes](#)

**Attribute Expressions**

Adding expressions allows you to create new information from existing fields for use in pop-ups.

ADD

No expressions.  
Click 'Add' to add one.

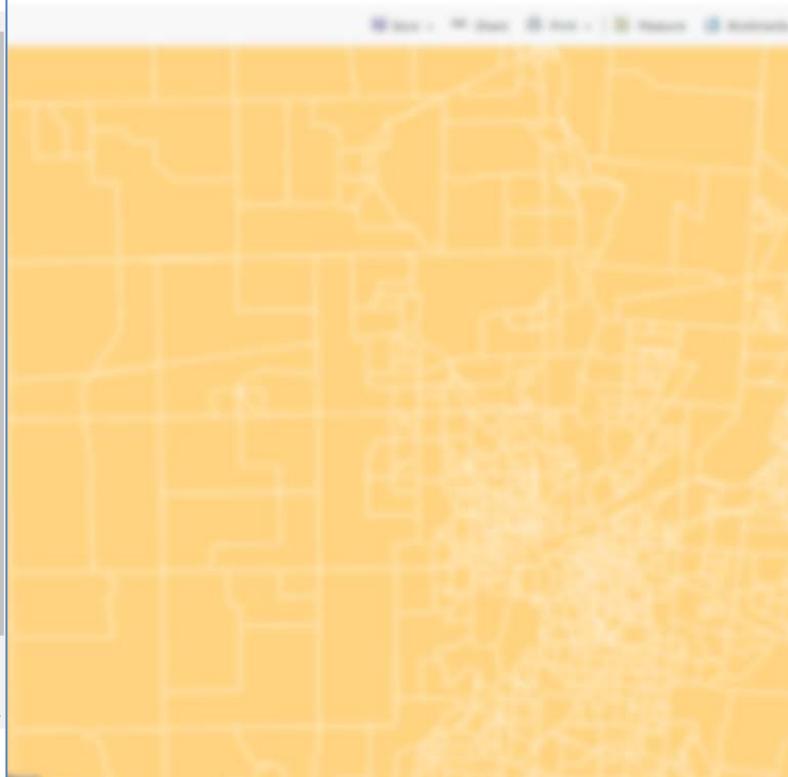
**Pop-up Media**

Display images and charts in the pop-up:

ADD ▾

No images or charts.  
Click 'Add' to add one.  
Use the arrows to order.

OK CANCEL



## Editing your layer

ArcGIS ▾ My Map

 Details

 Add ▾

 Edit

 Basemap

 About

 Content

 Legend

### Contents

Beavercreek Training Projects

 Topographic

...



# Sharing your map with others

ArcGIS Features Plans Gallery Map Scene Groups **Content**

Ptom



## GISTraining3\_webmap [Edit](#)

Overview

**Settings**

[Edit Thumbnail](#)



★ Add to Favorites

Add a brief summary about the item.

by mvrpc

Last Modified: October 20, 2017

Web Map

[Edit](#)

## Description

Add an in-depth description of the item.

## Layers

ODOT - District\_Work\_Plan\_Points

ODOT - Next\_Four\_Fiscal\_Years\_Points

ODOT - District\_Work\_Plans\_Lines

ODOT - Next\_Four\_Fiscal\_Years\_Lines

[Edit](#)

Open in Map Viewer

Open in ArcGIS Desktop

Create Presentation

Create Web App [v](#)

**Share**

## Details

★★★★★ (0) views: 9

Created: October 20, 2017

Size: 9 KB

Shared with: The item is not shared.

## Owner

mvrpc



# Sharing your map with others

## Share

**Choose who can view this map.**

Currently, only you can view your map. Before you can link to it or embed it, you need to allow others to view your map.

Everyone (public)

Members of these groups:

- MVRPC Staff
- MVRPC Staging
- MVRPC Training: AGOL Basics
- Regional Resources
- Staff Resources

**Link to this map**

<http://arcg.is/10HP9H>

Share current map extent

**Embed this map**

EMBED IN WEBSITE    CREATE A WEB APP

DONE

Open in Map Viewer

Open in ArcGIS Desktop

Create Presentation

Create Web App v

Share

Details

Created: October 20, 2017

Size: 1 KB

Shared with: The item is not shared.

Owner

 image



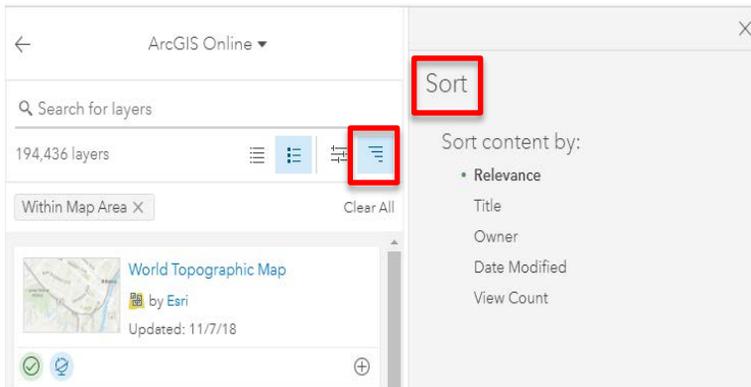
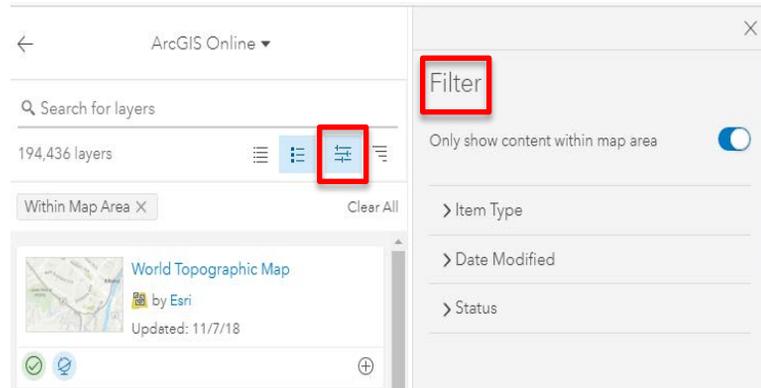
**WiFi: 260**

**Password: regionalplanning**



# Searching for Layers

- Search terms to try:
  - MVRPC Roads
  - MVRPC Crashes
  - MVRPC Recreation





## Resources

