



MIAMI VALLEY

Regional Planning Commission

ArcGIS Online Basics

November 14, 2018

Martin Kim, AICP, GISP (mkim@mvrpc.org)

Tom Harner, GISP (tharner@mvrpc.org)

Kathryn Youra Polk, GISP (kyoura.polk@mvrpc.org)

ArcGIS Online Basics - Agenda

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



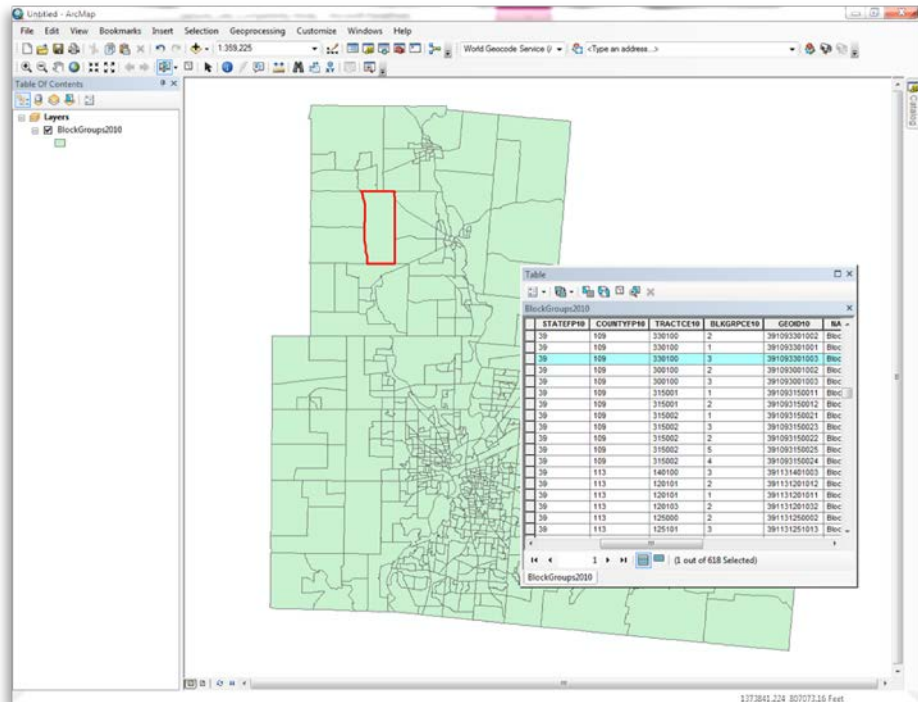
ArcGIS Solutions

- 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 [Esri 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  

[Esri.com](#) | [Help](#) | [Terms of Use](#) | [Privacy](#) | [Contact Esri](#) | [Report Abuse](#)



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.


[Esri.com](#) | [ArcGIS Marketplace](#) | [Help](#) | [Terms of Use](#) | [Privacy](#) | [Contact Esri](#) | [Report Abuse](#)




Your Content Page

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

Content My Content My Favorites My Groups




+ Add Item  Create


Folders  New





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

Item Type

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

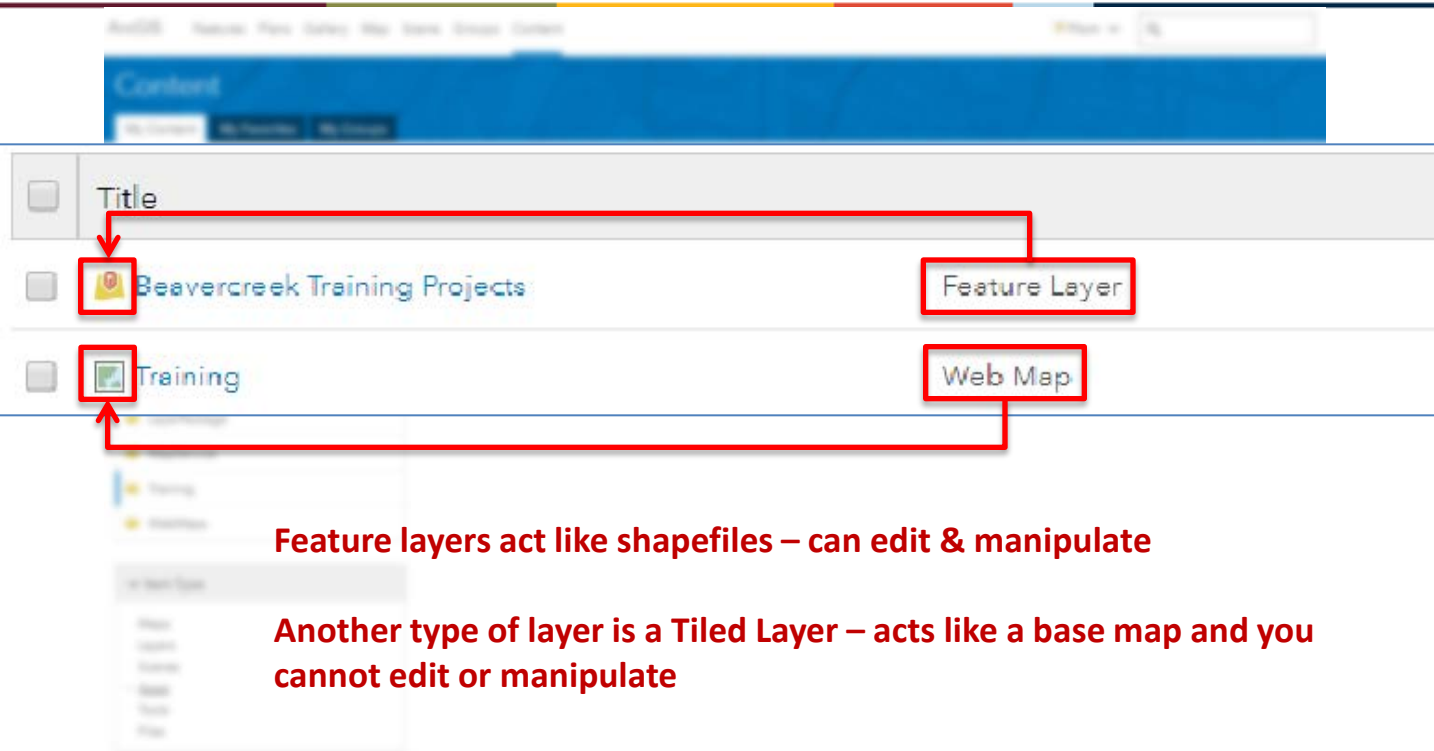
  

1 - 2 of 2 in Training Sort by: Date Modified 

| <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 |



Your Content Page – types of content



The screenshot shows a web application interface with a top navigation bar and a main content area. The content area has a blue header with the word "Content" and a search bar. Below the header is a list of 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

ArcGIS Features Plans Gallery Map Scene Groups Content

Ptom



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

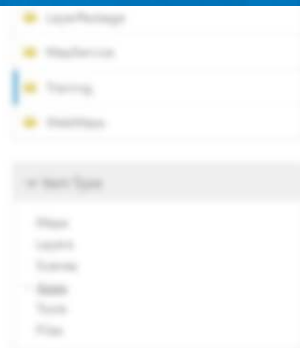
| <input type="checkbox"/> | Title | | Modified |
|--------------------------|-------------------------------|---------------|-------------|
| <input type="checkbox"/> | Beavercreek Training Projects | Feature Layer | Nov 7, 2017 |
| <input type="checkbox"/> | Training | Web Map | Nov 7, 2017 |



Your Content Page



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



Your New Map

ArcGIS My Map **Layer menu**

Main menu

Details

Add

Basemap

AboutContentLegend

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.

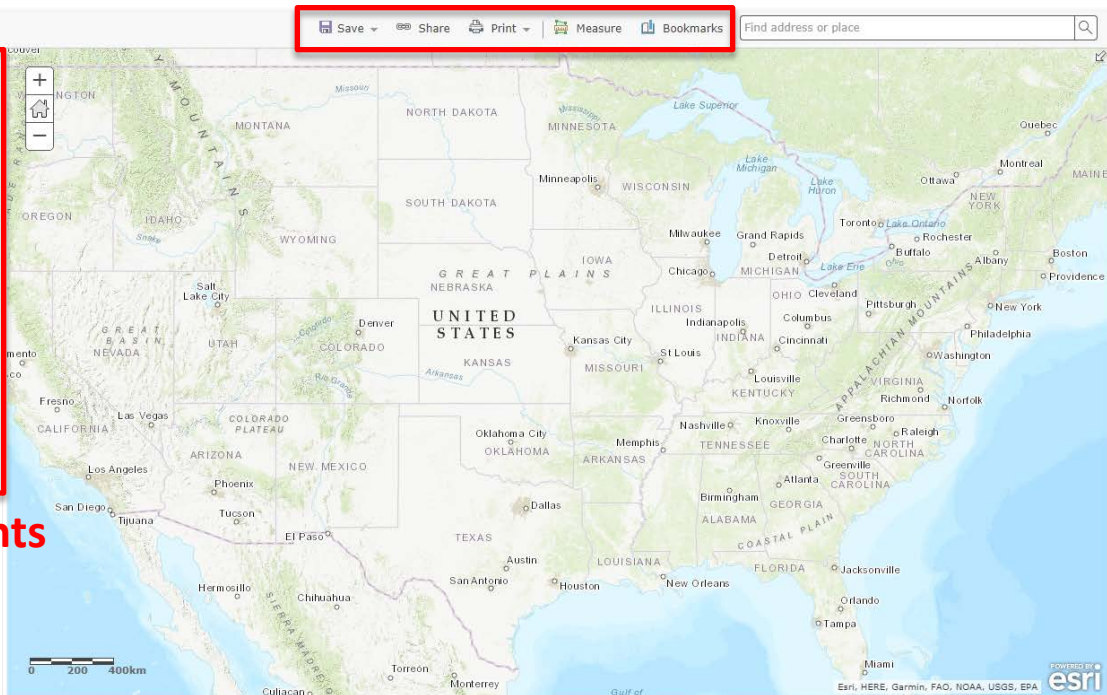


Table of Contents



Adding Layers to your map – by searching

ArcGIS My Map

Detail Add Basemap

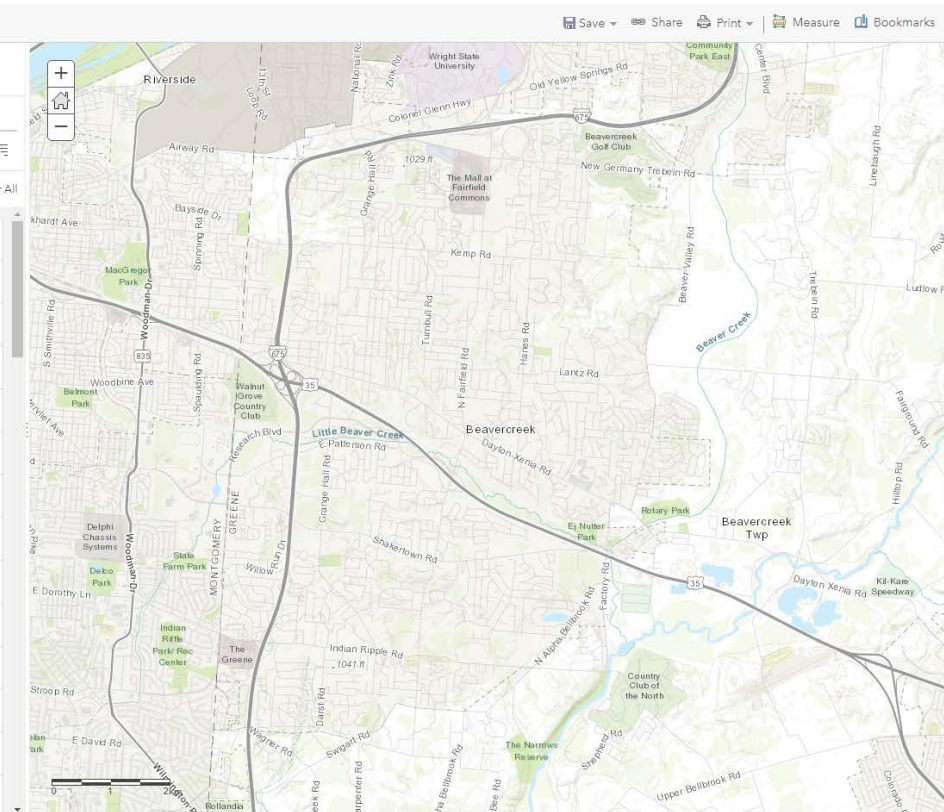
Search for layers

194,445 layers

Within Map Area X Clear All

- 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
- World Street Map (Night - for Export)

Save Share Print Measure Bookmarks



Adding Layers to your map – by searching

The screenshot displays the ArcGIS Online interface. At the top, the text 'ArcGIS Online' is visible with a dropdown arrow. Below this is a search bar with the placeholder text 'Search for layers'. The search results show '194,436 layers'. A filter icon, represented by a blue square with a white 'H' and a red box around it, is highlighted. Below the search bar, there is a button labeled 'Within Map Area X' and a 'Clear All' link. The search results list includes a map thumbnail, the title 'World Topographic Map', the text 'by Esri', and the update date 'Updated: 11/7/18'. At the bottom of the search results, there are icons for a green checkmark, a blue magnifying glass, and a plus sign. On the right side, a 'Filter' panel is open, with the word 'Filter' in a red box. The panel contains 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', each with a right-pointing arrow.

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 displays the ArcGIS Online interface. At the top, there is a navigation bar with a back arrow and the text "ArcGIS Online". Below this is a search bar labeled "Search for layers". Under the search bar, it says "194,436 layers". To the right of the search bar are four icons: a list icon, a list icon with a plus sign, a list icon with a minus sign, and a list icon with a plus and minus sign. The last icon is highlighted with a red box. Below the search bar is a filter button labeled "Within Map Area X" and a "Clear All" button. Below the filter button is a map thumbnail showing a topographic map of the world. To the right of the map thumbnail is the text "World Topographic Map" and "by Esri". Below this is the text "Updated: 11/7/18". At the bottom of the map thumbnail are two circular icons: a green checkmark and a blue magnifying glass. To the right of the map thumbnail is a plus icon. On the right side of the interface, there is a panel titled "Sort" (highlighted with a red box). Below the title is the text "Sort content by:". Below this is a list of sorting options: "Relevance", "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

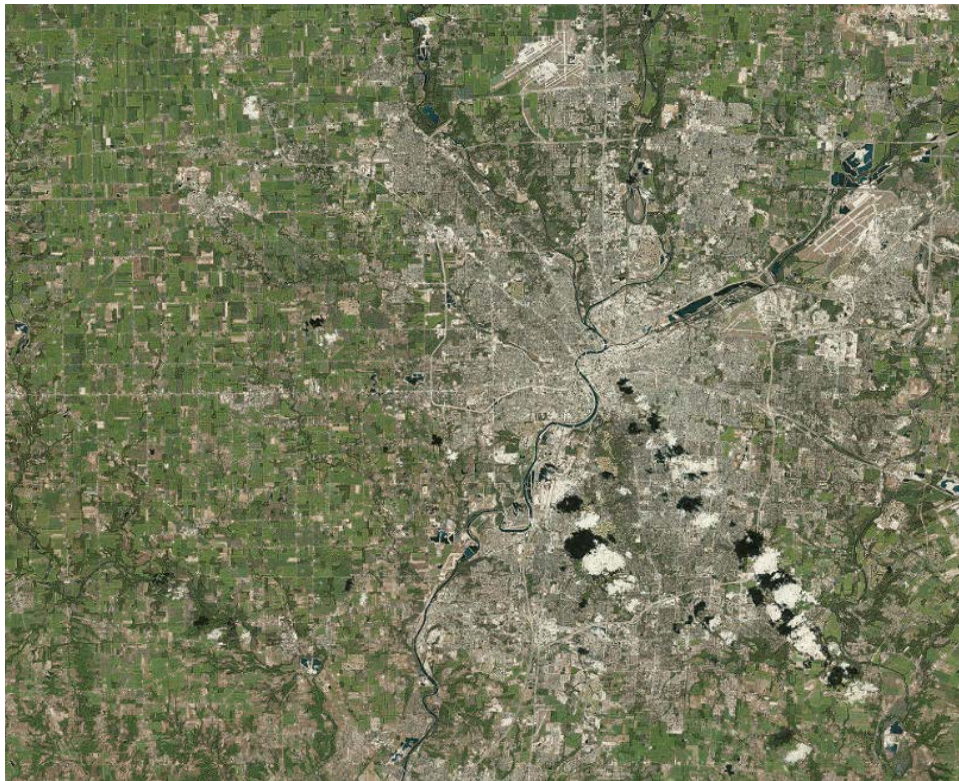
Contents



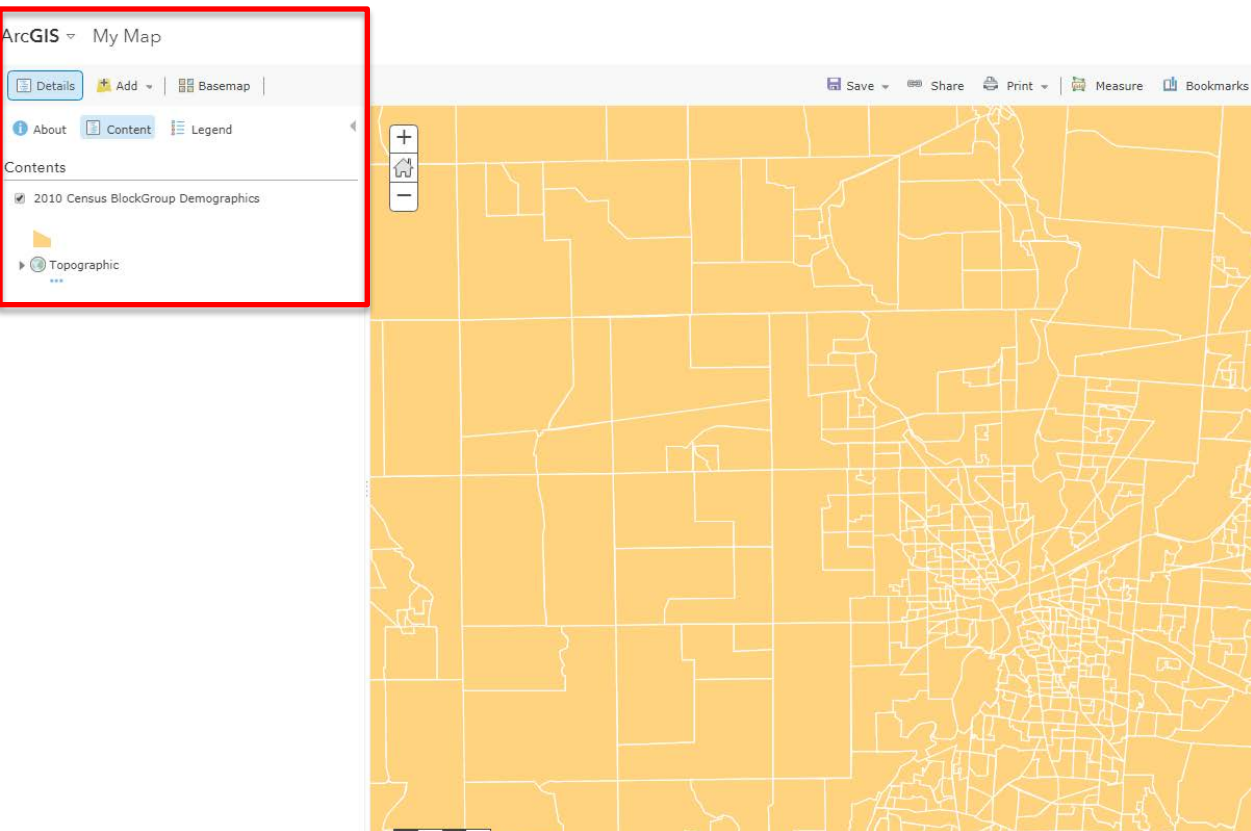
Topographic



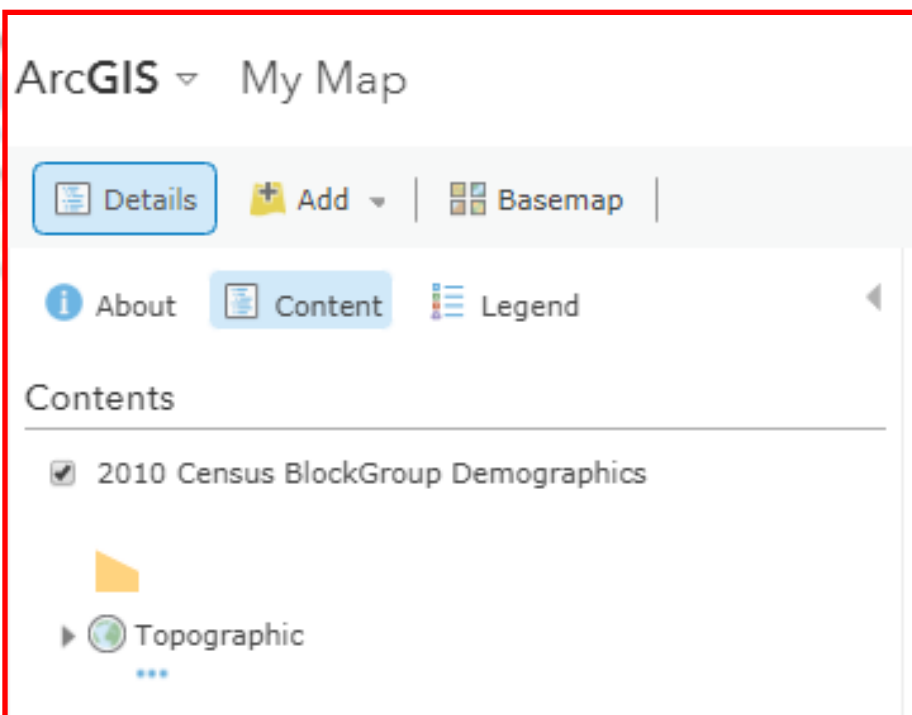
Changing the basemap



Changing how your layers look



Changing how your layers look





ArcGIS ▾ My Map

Details Add ▾ Basemap

About Content Legend

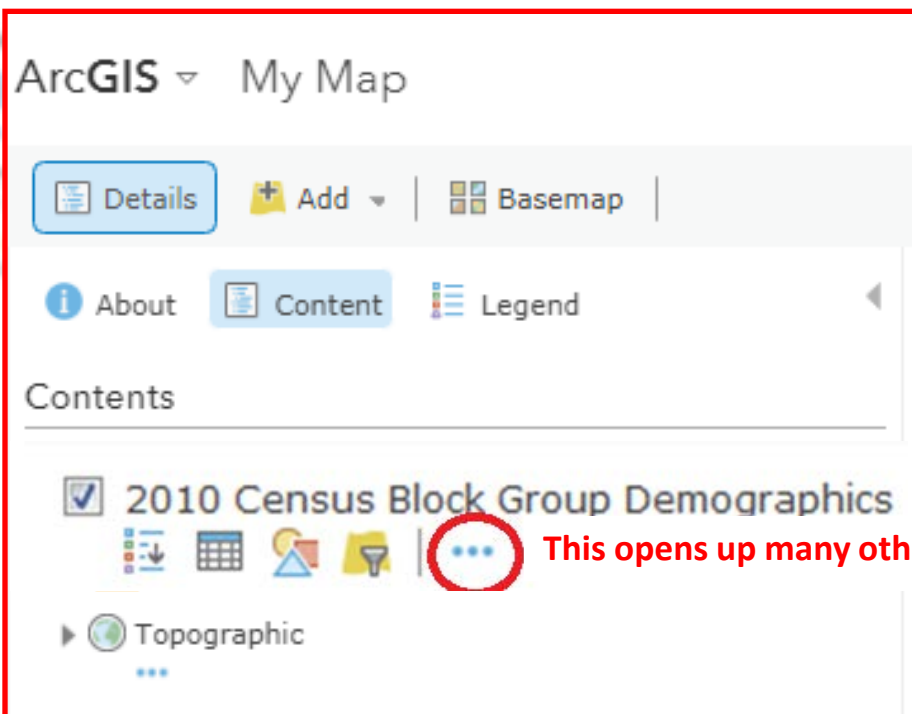
Contents

- ☒ 2010 Census BlockGroup Demographics
- 
- ▶  Topographic

The screenshot shows the ArcGIS 'My Map' interface. A red rectangular box highlights the 'Contents' panel on the left side of the map. The 'Contents' panel lists the layers in the map. The first layer is '2010 Census BlockGroup Demographics', which is checked. Below it is an orange triangle icon. The third layer is 'Topographic', which is preceded by a right-pointing triangle icon. The 'Details' button is highlighted with a blue border. The 'Add' button has a dropdown arrow. The 'Basemap' button is also visible. The 'About', 'Content', and 'Legend' buttons are in the same row. The 'Content' button is highlighted with a blue background. The 'Contents' section is separated by a horizontal line. The background of the map is a yellowish-orange topographic map.



Changing how your layers look



This opens up many other options for your layer



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.

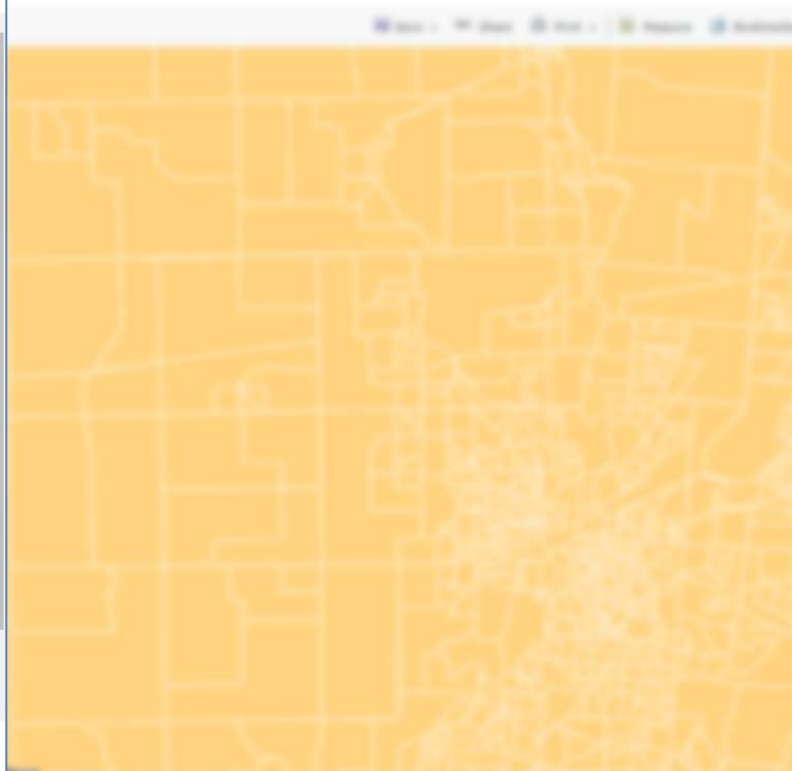
Pop-up Media

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**

Ptorn



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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

Created: October 20, 2017

Size: 1 KB

Shared with: The item is not shared.

Owner:



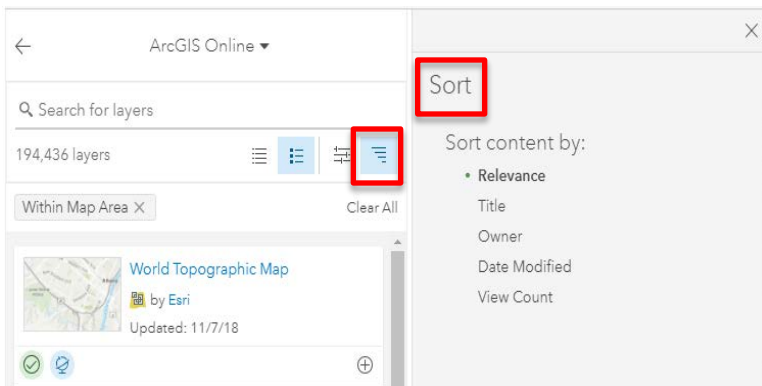
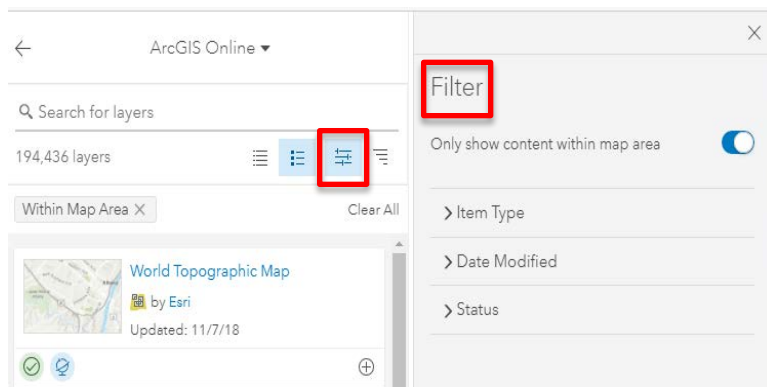
WiFi: 260

Password: regionalplanning



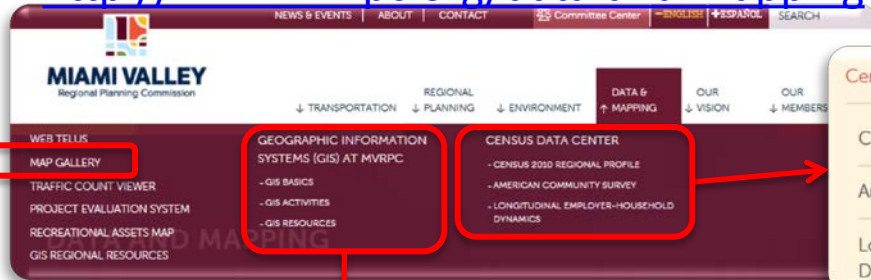
Searching for Layers

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





Resources



Census Data Center ↑

Census 2010 Regional Profile

American Community Survey

Longitudinal Employer-Household Dynamics

