

STANDARD TIME ZONES OF THE WORLD

Overview of the DOT Open Data Portal

And Other GIS & Geospatial Resources

Joint MPO/RPA Quarterly Meeting

Tuesday, 20 June 2017



SMARTER | SIMPLER | CUSTOMER DRIVEN
2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030

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Featured Apps

<http://data.iowadot.gov/pages/public-apps>

▶ What are apps?

- ▶ Provide simple access to information and tools

▶ ArcGIS Online


- ▶ Consists of a combination of maps, data, user interface

▶ Free to Use

- ▶ Open to the public
- ▶ Data can typically be found in the Open Data Portal too




5-YEAR PROGRAM
What projects are planned for the 5 year program?



INFRASTRUCTURE CONDITION AND EVALUATION
How well is our infrastructure meeting our needs?



STATEWIDE PARK AND RIDE
Where are park and ride lots located in Iowa?



TRACK A PLOW
Where are the snowplows and what the road conditions are?



TRAFFIC VOLUME
What is the volume of traffic on Iowa's roads?



IOWA BRIDGES
What are Iowa bridge conditions?



Open Data Portal

<http://data.iowadot.gov/>

▶ Video

▶ <https://youtu.be/eG-TNnsu37I>

▶ Search

- ▶ By Clicking on a Category
- ▶ Typing Keyword in Search Bar

▶ Download

- ▶ Spreadsheet
- ▶ KML
- ▶ Shapefile





How to Download Data

▶ Start here

▶ <http://data.iowadot.gov/>

▶ Enter keyword

▶ Hit 'Enter' or click



▶ Map Extent

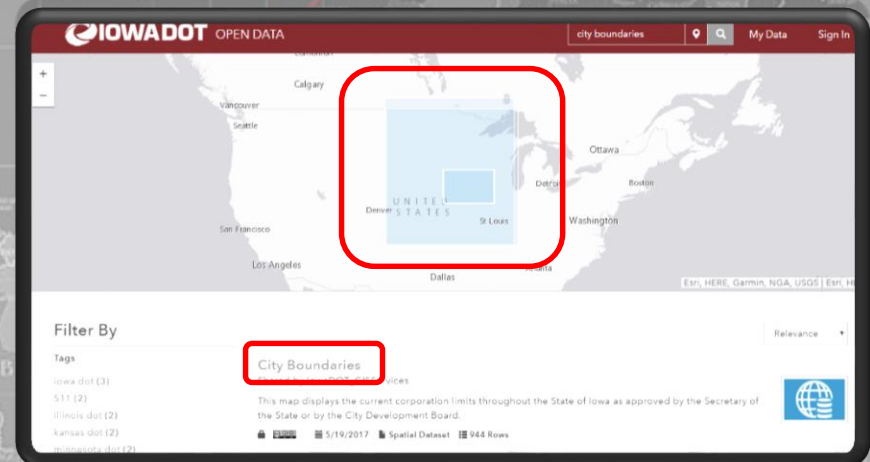
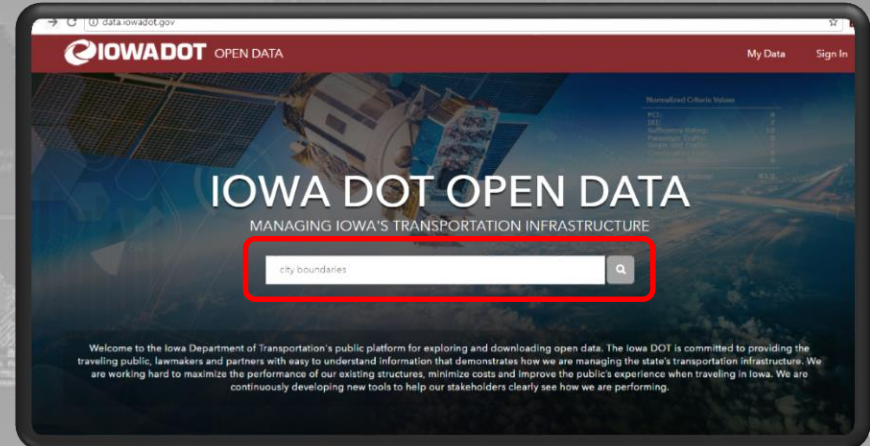
▶ Shows how far and wide the dataset extends

▶ Can select one of the layers from there or...

▶ Select Layer from the listing

▶ All layers tagged with the same keyword will appear

▶ Select the gray title of the desired layer to continue





How to Download Data

- ▶ Map Extent
 - ▶ Shows how far and wide the dataset extends
- ▶ Details
 - ▶ Layer description
 - ▶ Attributes (fields/columns)
- ▶ Download entire dataset
 - ▶ Select Download Data
 - ▶ Under Full Dataset
 - ▶ Select from Spreadsheet, KML or Shapefile
- ▶ or Download filtered dataset
 - ▶ Select Data tab
 - ▶ Click Funnel icon for the column you want to filter by
 - ▶ Set filter criteria
 - ▶ Select Download Data
 - ▶ Under Filtered Dataset
 - ▶ Select from Spreadsheet, KML or Shapefile

IOWADOT OPEN DATA city boundaries My Data Sign In

City Boundaries

This map displays the current corporation limits throughout the State of Iowa as approved by the Secretary of the State or by the City Development Board.

Attributes

City Name	City Number	Corporation Year	County
Text	Number	Number	Number

Related Data

- Political Townships
- Transportation District Boundaries

Showing 1 to 10 of 94 County: Crawford - Crawford

Hint: Click on ▼ to filter columns.

▼ OBJECTID	▼ City Name	▼ City Number	▼ County	▼ Corporation Year
1	RICKETTS	6450	Crawford	2016
2	DANBURY	1817	Woodbury	2016
3	BATTLE CREEK	425	Ida	2016
4	SCHLESWIG	6840	Crawford	2016



REST Services

▶ ArcGIS REST Services Directory

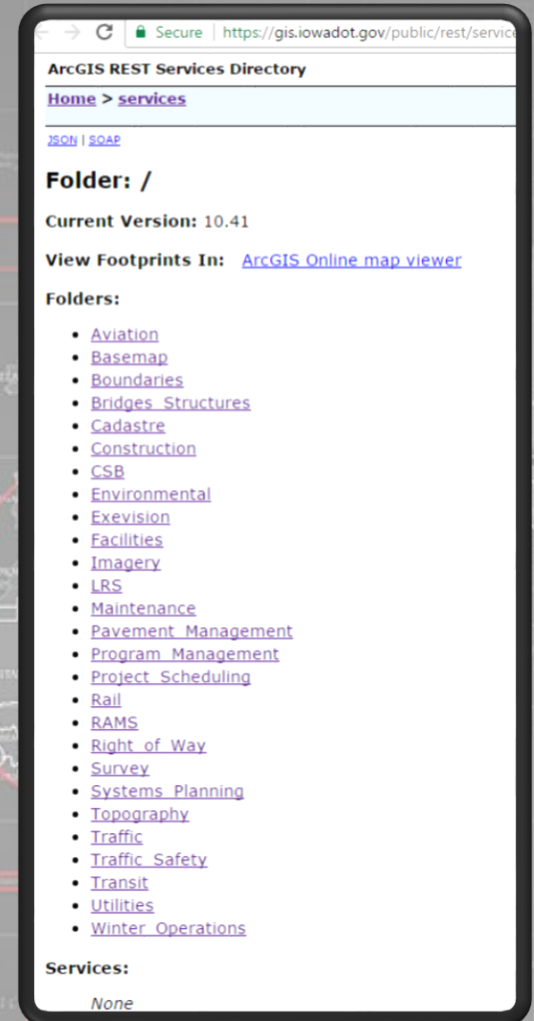
▶ <https://gis.iowadot.gov/public/rest/services>

▶ Folders

- ▶ Contain related layers by category
- ▶ Similar to the Open Data Portal

▶ Layers

- ▶ This is what drives the Open Data Portal and most, if not all, of our web mapping applications
- ▶ Allows a live connection to the DOT's data rather than a static snapshot
- ▶ Can be connection through ArcGIS Online and ArcMap





PathWeb

<http://rams.iowadot.gov/pathweb/>

The screenshot shows the PathWeb application interface. At the top, there are navigation buttons: "Find Road Section" (highlighted with a red box and arrow), "Help", "Change Direction", "Share this Location", and "Save Current Images". Below these is a search form with the following fields:

- Cycle: IA_2016
- County: 12
- System: State
- Route: IA 14 N
- Section: 144.014 to 157.995 (2016)
- Milepost: 144.014

Buttons "OK" and "Cancel" are at the bottom of the form. To the right of the form are three main sections of instructions:

- Requirements**
 - Internet Explorer (IE) browser
 - Sliverlight installed
- Click Find Road Section**
 - Select Cycle IA_2016
 - County Number – alphabetical order
 - System – State, County, Municipal if available
 - Route
 - Milepost section
- Select Windows**
 - Check boxes of whatever ones you want
 - These can be repositioned on the screen
- Move Down the Roadway**
 - Use the arrow keys to move
 - Or select location on the GPS Map

At the bottom right, there is an "Image Control" panel with a list of view options: Perspective, Right Shoulder, Left Shoulder, Rear View, Road Surface, IRI Graph, Trans Profile Graph, Assets, and GPS Map. The first five options are checked. Below the list are navigation arrows and a "Play Speed" slider. At the bottom of the panel, it shows "Route: No Data", "Direction: No Data", "Milepost: No Data", and "Ver. 2.5-2.0".

Contact Us:

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THANK YOU

FOR YOUR ATTENTION

Share the GIS Survey with your co-workers:

<https://www.surveymonkey.com/r/XGGQYW2>