

# MSDIS Update – April 2018

## New Data

Since April 01, MSDIS has add the following datasets to its distribution:

- 2018 Hospitals (March Update)
- 2018 WIC Satellite Offices (March Update)
- 2018 WIC Satellite Offices (April Update)
- 2018 Local Public Health Agencies
- 2018 Ambulatory Surgical Centers
- 2018 Rural Health Clinics

New LiDAR Data:

St Louis 2017 1-meter resolution LiDAR DEMs

## Open Data Portal

The month of April was primarily devoted to migrating new and existing MSDIS data to the Open Data Portal. As of early May, approximately 180 datasets have been added to the MSDIS Open Data Portal. Of these, the overwhelming majority are related to natural resources and belong to the Environment/Conservation, Geology/Geophysical, and Inland Water Resources categories. The topic search icons available on the Open Data page have been modified to reflect the inclusion of so much data from such closely related categories.

## MSDIS Map Services

Every dataset that has been added to Open Data for distribution has a matching map service on the MSDIS Map Server. This represents a dramatic departure from the previous configuration of the MSDIS Map Server. Prior to the migration to virtual servers, vector data were primarily distributed only as downloadable data. With the move to Open Data, MSDIS now offers a wide variety of datasets as interactive map services that can be used with ArcGIS and ArcGIS Online.

## Server Migration

As a consequence of generating nearly 200 map services in order to power the Open Data page, we have been closely monitoring the processing resources of new MSDIS Map Server. The volume of data being served out by the Map Server is not only substantially greater than in the past, but has been responsible for triggering several resource warnings. These warnings have not prevented the distribution of data, but have, on occasion, slowed the server. While the data migration to Open Data has largely concluded, we will continue to monitor the situation. Should the warnings start to hinder performance, we will reassess how many map services are hosted from the MSDIS Map Server.

## MSDIS Downtime

No downtime was recorded or reported during the month of April.

However, the MSDIS offices were temporarily knocked offline on 26 April due to an unfortunate incident involving a delivery truck and the Mizzou North fiber optic cables. This incident had no impact on

MSDIS, itself, or on the distribution of geospatial data. Services were restored to Mizzou North by the morning of 27 April.

## **MSDIS Data Wish List**

While MSDIS is always happy to distribute any new data, based on requests from our users, GRC map requests, and the overall state of the data catalog, acquisition of the following datasets are of particular interest:

Missouri School Districts  
Missouri Counties  
Missouri State Boundary  
Missouri contour lines

## MSDIS April 2018 Usage Stats

### Image Server

#### Hits by Month

Month	Hits	Page views
Jan-18	3831350	3827317
Feb-18	3745122	3734059
Mar-18	89795	87408
Apr-18	3621003	3616352

#### Top Five Hits by Directory

Pages/directories	Hits	Hits (%)	Page views
/arcgis/services/MSDIS/	1454805	72.3	1454805
/arcgis/services/LGov/	347158	17.2	347158
/arcgis/services/Map/	90652	4.5	90652
/arcgis/services/2015_MO_18inch_Imagery/	63871	3.2	63871
/arcgis/services/LiDAR/	34060	1.7	34060

#### Top Five Hits within MSDIS Directory

Pages/directories	Hits	Hits (%)	Page views
/arcgis/services/MSDIS/DOQQ2015/	429580	29.5	429580
/arcgis/services/MSDIS/NAIP2016/	400025	27.5	400025
/arcgis/services/MSDIS/NAIP2014/	170523	11.7	170523
/arcgis/services/MSDIS/DOQQ2008/	88559	6.1	88559
/arcgis/services/MSDIS/QUAD24K/	61787	4.2	61787

#### Top Ten Hits by Region

Region	Hits	Hits (%)	Page views
United States/MO/	2293769	63.3	2290563
United States/(unknown city)	284697	7.9	284515
United States/CO/	181967	5	181936
(unknown country)/(unknown city)	137839	3.8	137758
United States/IL/	109972	3	109863
United States/AR/	107501	3	107478
United States/IA/	83325	2.3	83280
United States/GA/	68454	1.9	68424
United States/CA/	37854	1	37809
United States/NJ/	29452	0.8	29018

### Top Ten Hits by City

City	Hits	Hits (%)	Page views
United States/MO/Jefferson City	1146796	31.7	1146464
United States/MO/Maryland Heights	387446	10.7	387442
United States/(unknown city)	284697	7.9	284515
United States/MO/Lohman	194267	5.4	194210
United States/CO/Fort Collins	170865	4.7	170842
United States/MO/Saint Louis	140736	3.9	140591
(unknown country)/(unknown city)	137839	3.8	137758
United States/AR/Russellville	102020	2.8	101997
United States/GA/Tucker	65961	1.8	65946
United States/IA/Ames	65004	1.8	64987

### Top Ten Hits by Client IP

Client IP	Hits	Hits (%)	Page views
168.166.124.100	496995	13.7	496770
68.191.196.74	386731	10.7	386731
168.166.80.243	386105	10.7	386026
168.166.48.1	147584	4.1	147548
168.166.80.248	111579	3.1	111579
168.166.193.254	107773	3	107770
173.218.180.174	102020	2.8	101997
12.129.64.197	65936	1.8	65921
129.186.252.51	64942	1.8	64925
65.119.141.114	43779	1.2	43775

## Map Server

### Hits by Month

Month	Hits	Page views
Apr-18	143498	129330

### Top Five Hits by Directory

Pages/directories	Hits	Hits (%)	Page views
/arcgis/rest/services/Administrative_Boundaries/	18032	24	18032
/arcgis/rest/services/Transportation/	15555	20.7	15554
/arcgis/rest/services/Geological_Geophysical/	11229	15	11229
/arcgis/rest/services/Water_Resources/	8703	11.6	8703
/arcgis/rest/services/Education/	5731	7.6	5731

### Top Five Hits within Administrative\_Boundaries

Pages/directories	Hits	Hits (%)	Page views
MO_2017_Missouri_Department_of_Conservation_Lands/	8423	46.7	8423
MO_2016_Dept_of_Natural_Resources_Land_Boundaries/	6399	35.5	6399
MO_2014_County_Boundaries/	2522	14	2522
MO_2014_State_Boundary/	688	3.8	688

### Top Ten Hits by Region

Region	Hits	Hits (%)	Page views
United States/MO/	83777	58.4	72946
United States/TX/	10878	7.6	10710
United States/NJ/	7098	4.9	7018
United States/(unknown city)	6539	4.6	6223
United States/DE/	4524	3.2	4520
United States/CA/	4290	3	3958
(unknown country)/(unknown city)	3771	2.6	3371
United States/NE/	3454	2.4	3449
United States/MI/	3308	2.3	3232
United States/IL/	1344	0.9	1058

### Top Ten Hits by City

City	Hits	Hits (%)	Page views
United States/MO/Columbia	55044	38.4	46849
United States/MO/Saint Louis	16611	11.6	16096
United States/TX/Houston	10521	7.3	10521
United States/NJ/Woodbridge	6703	4.7	6703
United States/(unknown city)	6539	4.6	6223
United States/DE/Wilmington	4524	3.2	4520
(unknown country)/(unknown city)	3771	2.6	3371
United States/NE/Omaha	3441	2.4	3436
United States/CA/Cupertino	3377	2.4	3209
United States/MI/Ann Arbor	3186	2.2	3186

### Top Ten Hits by Client IP

Client IP	Hits	Hits (%)	Page views
128.206.12.147	43699	30.5	35907
75.128.169.226	7884	5.5	7884
128.206.37.206	4936	3.4	4833
199.168.243.192	3423	2.4	3423
12.1.150.213	3226	2.2	3215
66.151.131.6	3119	2.2	3119
34.236.157.19	2527	1.8	2527
128.206.36.62	2498	1.7	2486
52.204.32.78	2318	1.6	2318
35.170.80.173	2095	1.5	2095

## MSDIS Data Archive

### Hits by Month

Month	Hits	Page views
Apr-18	133436	129978

### Top Five Hits by Directory

Pages/directories	Hits	Hits (%)	Page views
/archive/Missouri_Vector_Data/	86803	67.8	86756
/archive/Missouri_Elevation_Data/	19610	15.3	19610
/archive/metadata_gos/	8925	7	8925
/archive/Missouri_Imagery/	3815	3	3815
/archive/MSDIS_Misc_Data/	2256	1.8	2238

### Top Five Hits within Vector Data Directory

Pages/directories	Hits	Hits (%)	Page views
/archive/Missouri_Vector_Data/census2000/	35122	40.5	35122
/archive/Missouri_Vector_Data/county/	28279	32.6	28279
/archive/Missouri_Vector_Data/census2010/	11519	13.3	11519
/archive/Missouri_Vector_Data/tiger2004/	1738	2	1738
/archive/Missouri_Vector_Data/ (default page)	1644	1.9	1644

### Top Ten Hits by Region

Region	Hits	Hits (%)	Page views
Russian Federation/(unknown city)	59769	44.8	59762
United States/CA/	26872	20.1	26720
United States/MO/	16795	12.6	14976
United States/MI/	10813	8.1	10761
United States/NJ/	5719	4.3	5667
United States/DE/	5062	3.8	5060
(unknown country)/(unknown city)	2134	1.6	1824
United States/(unknown city)	715	0.5	577
Japan/(unknown city)	703	0.5	701
United States/FL/	568	0.4	558

### Top Ten Hits by City

City	Hits	Hits (%)	Page views
Russian Federation/(unknown city)	59769	44.8	59762
United States/CA/Mountain View	25727	19.3	25651
United States/MI/Ann Arbor	10657	8	10650
United States/MO/Columbia	10168	7.6	9579
United States/NJ/Woodbridge	5497	4.1	5477
United States/DE/Wilmington	5059	3.8	5057
United States/MO/Kansas City	2628	2	2361
(unknown country)/(unknown city)	2134	1.6	1824
United States/MO/Saint Louis	1245	0.9	984
United States/CA/Palo Alto	772	0.6	770

### Top Ten Hits by Client IP

Client IP	Hits	Hits (%)	Page views
77.88.47.94	39099	29.3	39095
141.8.143.175	14317	10.7	14314
66.249.75.29	9017	6.8	9010
66.249.69.28	8292	6.2	8272
35.153.52.71	7528	5.6	7528
128.206.111.125	5408	4.1	5408
54.236.28.188	5063	3.8	5063
52.201.211.123	5029	3.8	5029
93.158.161.170	3518	2.6	3518
66.249.69.29	3224	2.4	3209