

MSDIS Update – June 2018

New Data

2018 Ambulatory Surgical Centers June Update

2018 Federally Qualified Health Center Locations June Update

2018 Local Public Health Agencies June Update

2018 Rural health Clinics June Update

2018 Public Schools

2018 Adult Daycare June Update

2018 WIC Satellite Offices June Update

Open Data Portal

We continue to work with ESRI on improving the MSDIS Open Data Portal. During one of the new data uploads in June, the MSDIS Open Data Portal could not successfully connect with the MSDIS ArcGIS Online page in order to harvest the data. Furthermore, we noticed that some layers that had been added to the MSDIS Open Data Portal were no longer correctly configured for deployment despite nothing having been changed. In order to isolate the failure, all data layers were removed from the MSDIS Open Data Portal. Layers were then re-added, one-by-one, to ensure that everything that SHOULD be available via Open Data IS available.

We have contacted ESRI about this issue and were told that other Open Data users have noticed similar problems. ESRI Open Data experts are also investigating how we can server out more complicated datasets through Open Data, such as Missouri Census Blocks.

Investigating options for adding MSDIS Twitter feed to Open Data Portal.

MSDIS Web Site

Added shortcut links to the Open Data Portal, Missouri Map, and MSDIS Data Archive to the sidebar of the website so that all of the data download options are always one click away.

Investigating options for adding data search options to MSDIS website. Current most likely candidate would functionally be a metadata search, which would require updating all MSDIS metadata files to include new download urls.

Removed general search bar from MSDIS website since there are no longer nested data pages hard-coded into the site architecture.

MSDIS Downtime

01 June 2018 – MSDIS services were interrupted along with the rest of the Mizzou computing network due to continued work on improving the Dept of IT's primary firewall. This outage, which was of a similar nature to the outage at the end of May, lasted for over an hour and interrupted all Mizzou networks, devices, and campuses.

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 Voting Districts
Missouri Contour Lines
Missouri Rest Stops

Notes on MSDIS Server Stats

Starting with the May 2018 Usage Stats, the following traffic is being excluded from the monthly reports to give a clearer view of actual use:

- All traffic from MSDIS desktop workstation IP Addresses
- All traffic identified as originating from the Russian Federation*

Please note that the excluded traffic still appears in the raw server logs made available through the MSDIS Data Archive.

*Excluded from the Data Archive stats ONLY, due to the fact that Russian traffic has not been a significant component to either the Imagery server or the Map server)

MSDIS June 2018 Usage Stats

Image Server

Hits by Month

Month	Hits	Page views
Feb-18	3745122	3734059
Mar-18	89795	87408
Apr-18	3621003	3616352
May-18	3885250	3883809
June-18	3481356	3480325

Top Five Hits by Directory*

Pages/directories	Hits	Hits (%)	Page views
/arcgis/rest/services/LGov/	962158	60.1	962158
/arcgis/rest/services/MSDIS/	562673	35.2	562673
/arcgis/rest/services/Map/	39218	2.5	39215
/arcgis/rest/services/LiDAR/	33502	2.1	33501
/arcgis/rest/services/2015Flood/	474	0	474

Top Five Hits within LGov Directory*

Pages/directories	Hits	Hits (%)	Page views
/arcgis/rest/services/LGov/DOQQ2015_EastWestGateway_6inch/	330260	34.3	330260
/arcgis/rest/services/LGov/DOQQ2015_WesternMissouri_18inch/	114475	11.9	114475
/arcgis/rest/services/LGov/StFrancois_4inch_9inch_composite/	110377	11.5	110377
/arcgis/rest/services/LGov/Perry_4inch_9inch_composite/	100513	10.4	100513
/arcgis/rest/services/LGov/Washington2018_4inch_9inch_composite/	100433	10.4	100433

Top Ten Hits by Region

Region	Hits	Hits (%)	Page views
United States/MO/	2038176	58.5	2037484
United States/(unknown city)	319237	9.2	319193
United States/IL/	166303	4.8	166224
(unknown country)/(unknown city)	160644	4.6	160628
United States/CO/	141296	4.1	141288
United States/AR/	103059	3	103052
United States/IA/	101100	2.9	101091
United States/GA/	69193	2	69185
United States/CA/	54166	1.6	54088
Canada/ON/	42976	1.2	42975

Top Ten Hits by City

City	Hits	Hits (%)	Page views
United States/MO/Jefferson City	1065919	30.6	1065723
United States/(unknown city)	319237	9.2	319193
United States/MO/Lohman	315134	9.1	315094
United States/MO/Saint Louis	200140	5.7	200020
(unknown country)/(unknown city)	160644	4.6	160628
United States/CO/Fort Collins	136961	3.9	136961
United States/AR/Russellville	98804	2.8	98797
United States/IA/Bondurant	92368	2.7	92363
United States/IL/Normal	74296	2.1	74296
United States/GA/Tucker	66370	1.9	66364

Top Ten Hits by Client IP

Client IP	Hits	Hits (%)	Page views
168.166.124.100	602105	17.3	601977
168.166.80.243	268269	7.7	268222
168.166.48.1	138750	4	138732
168.166.193.254	119606	3.4	119602
173.218.180.174	98724	2.8	98717
216.81.237.137	92368	2.7	92363
168.166.48.84	80004	2.3	80004
65.119.141.114	72844	2.1	72844
12.129.64.197	66351	1.9	66345
64.82.236.62	29645	0.9	29645

Top Ten Hits by Referrer

Client IP	Hits	Hits (%)	Page views
(no referrer)	1761052	50.6	1760486
https://semorpc.maps.arcgis.com/	407433	11.7	407433
http://jeffcomo.maps.arcgis.com/	305240	8.8	305240
http://traveler.modot.mo.gov/	218267	6.3	218267
http://tmsmaps/	189381	5.4	189381
http://www.esri.com/	92303	2.7	92224
https://msdis.maps.arcgis.com/	67286	1.9	67286
http://www.dnr.mo.gov/	48559	1.4	48559
http://semorpc.maps.arcgis.com/	47540	1.4	47540
https://dallasgis.integritygis.com/	46657	1.3	46657

*Please note that Image Server views for this month were divided equally between guests using the rest directory (shown in the charts below) and guests going directly to the services directory (who used MSDIS primarily for NAIP imagery). These charts, then, represent approximately half of all Image Server users.

Map Server

Hits by Month

Month	Hits	Page views
Apr-18	143498	129330
May-18	148321	137798
June-18	193976	186678

Top Five Hits by Directory

Pages/directories	Hits	Hits (%)	Page views
/arcgis/rest/services/Administrative_Boundaries/	54233	39.4	54232
/arcgis/rest/services/Transportation/	16277	11.8	16277
/arcgis/rest/services/Geological_Geophysical/	15630	11.4	15630
/arcgis/rest/services/TIGER_Data/	12819	9.3	12818
/arcgis/rest/services/Water_Resources/	11580	8.4	11580

Top Five Hits within Administrative_Boundaries

Pages/directories	Hits	Hits (%)	Page views
MO_2018_County_Boundaries/	46896	86.5	46895
MO_2016_Dept_of_Natural_Resources_Land_Boundaries/	1793	3.3	1793
MO_2018_Public_Land_Survey_System/	1775	3.3	1775
MO_2017_Missouri_Department_of_Conservation_Lands/	991	1.8	991
MO_2018_State_Boundary/	497	0.9	497

Top Ten Hits by Region

Region	Hits	Hits (%)	Page views
United States/MO/	66612	34.3	60437
United States/NJ/	17416	9	17378
(unknown country)/(unknown city)	13231	6.8	13148
United States/TX/	11852	6.1	11841
United States/DE/	11624	6	11624
United States/(unknown city)	11469	5.9	11320
United States/CA/	10814	5.6	10457
United States/IN/	6976	3.6	6931
United States/MA/	5695	2.9	5695
United States/WA/	4608	2.4	4605

Top Ten Hits by City

City	Hits	Hits (%)	Page views
United States/MO/Columbia	31237	16.1	26201
United States/NJ/Woodbridge	15532	8	15532
(unknown country)/(unknown city)	13231	6.8	13148
United States/DE/Wilmington	11623	6	11623
United States/(unknown city)	11469	5.9	11320
United States/TX/Houston	10306	5.3	10306
United States/MO/Saint Louis	8582	4.4	8529
United States/CA/Cupertino	6636	3.4	6337
United States/IN/Evansville	6339	3.3	6321
United States/MO/Jefferson City	5172	2.7	5018

Top Ten Hits by Client IP

Client IP	Hits	Hits (%)	Page views
128.206.12.147	27687	14.3	22777
66.151.131.6	5897	3	5897
107.197.223.51	5755	3	5755
216.135.32.250	5011	2.6	4993
52.204.32.78	4010	2.1	4010
34.237.0.227	3480	1.8	3480
54.152.234.95	2649	1.4	2649
52.23.174.174	2587	1.3	2587
173.216.125.224	2399	1.2	2399
18.209.31.87	2322	1.2	2322

Top Ten Hits by Referrer

Client IP	Hits	Hits (%)	Page views
(no referrer)	110319	56.9	104504
https://msdis.maps.arcgis.com/	57736	29.8	57736
https://data-msdis.opendata.arcgis.com/	11314	5.8	11314
https://mcoffman.maps.arcgis.com/	5793	3	5793
http://mophep.maps.arcgis.com/	1722	0.9	1722
http://msdisweb.missouri.edu/	1399	0.7	541
https://www.arcgis.com/	1326	0.7	1326
http://www.arcgis.com/	973	0.5	973
http://geoportal.missouri.edu/	772	0.4	174
http://fema.maps.arcgis.com/	255	0.1	255

MSDIS Data Archive

Hits by Month

Month	Hits	Page views
Apr-18	133436	129978
May-18	59093	57510
June-18	99763	98741

Top Five Hits by Directory

Pages/directories	Hits	Hits (%)	Page views
/archive/Missouri_Vector_Data/	41857	43.3	41823
/archive/Missouri_Elevation_Data/	20584	21.3	20584
/archive/metadata_gos/	8688	9	8688
/archive/Missouri_Imagery/	8657	9	8657
/archive/MSDIS_Misc_Data/	4916	5.1	4911

Top Five Hits within Vector Data Directory

Pages/directories	Hits	Hits (%)	Page views
/archive/Missouri_Vector_Data/census1990/	20572	49.1	20572
/archive/Missouri_Vector_Data/census2000/	6946	16.6	6946
/archive/Missouri_Vector_Data/census2010/	3174	7.6	3174
/archive/Missouri_Vector_Data/county/	1732	4.1	1732
/archive/Missouri_Vector_Data/tiger2004/	1728	4.1	1728

Top Ten Hits by Region

Region	Hits	Hits (%)	Page views
United States/NJ/	39509	39.6	39481
United States/CA/	11012	11	10899
United States/WA/	9825	9.8	9814
United States/DE/	9294	9.3	9284
United States/MA/	9291	9.3	9283
United States/MO/	9130	9.2	8782
(unknown country)/(unknown city)	6541	6.6	6467
Cote D'Ivoire/(unknown city)	1641	1.6	1638
United States/(unknown city)	1019	1	911
United States/MI/	313	0.3	309

Top Ten Hits by City

City	Hits	Hits (%)	Page views
United States/NJ/Woodbridge	39473	39.6	39456
United States/WA/Seattle	9300	9.3	9300
United States/DE/Wilmington	9294	9.3	9284
United States/MA/Cambridge	9284	9.3	9278
United States/CA/Mountain View	7214	7.2	7157
(unknown country)/(unknown city)	6541	6.6	6467
United States/MO/Columbia	5054	5.1	5023
United States/CA/Palo Alto	3200	3.2	3199
United States/MO/Saint Louis	2560	2.6	2463
Cote D'Ivoire/(unknown city)	1641	1.6	1638

Top Ten Hits by Client IP

Client IP	Hits	Hits (%)	Page views
54.86.17.24	35530	35.6	35530
18.206.198.119	9257	9.3	9257
52.205.157.15	9209	9.2	9209
107.23.92.93	9172	9.2	9172
128.206.111.125	4937	4.9	4937
54.210.45.175	2576	2.6	2576
128.252.33.1	2275	2.3	2246
213.150.217.186	1641	1.6	1638
66.249.69.53	1609	1.6	1601
66.249.69.55	1276	1.3	1270

Top Ten Hits by Referrer

Client IP	Hits	Hits (%)	Page views
(no referrer)	94122	94.3	93623
http://msdis-archive.missouri.edu/	4415	4.4	3895
http://www.msdis.missouri.edu/	1090	1.1	1090
http://msdis.missouri.edu/	85	0.1	85
https://www.google.com/	26	0	26
http://www.google.com/	14	0	14
https://slack.com	2	0	0
http://data-msdis.opendata.arcgis.com/	2	0	2
https://t.co/	1	0	1
http://fema.maps.arcgis.com/	1	0	1