

MSDIS Update – December 2023

Updated Data

- MO MoDOT Roads Routes
- MO MoDOT Roads Arcs
- MO MoDOT Rest Areas
- MO MoDOT Emergency Reference Markers
- MO MoDOT Commuter Lots

New 2022/2023 Missouri Imagery

- The 2022/2023 6-inch resolution aerial imagery is now available as a service from the MSDIS Image Server:

https://moimagery.missouri.edu/arcgis/rest/services/Statewide/Missouri_6inch_12inch_North_2022_2023_Detail/ImageServer

MSDIS General News

Much of December 2023 was spent working on research grants unrelated to MSDIS, preparing and deploying the 2022/2023 Northern Missouri imagery for deployment, and preparing for the Spring 2024 semester. The details of the imagery deployment are covered later in this report.

We are still looking for more geospatial professionals to guest lecture in GEOG 1800. If you work with GIS and are interested in giving a brief (30-40 minute) presentation to a group of students about what you do and how you use the technology, please email Tom at voughth@missouri.edu.

MSDIS Downtime

No downtime was reported during December 2023.

We were made aware of an outage of both the Image Server and the Archive on the morning of 09 January 2024 at approximately 7:50AM by the Division of IT. It is very likely that the outage was caused by an electrical problem with the Isilon storage and, as a result, was not unique to MSDIS. The Archive restored on its own shortly after we were first alerted to the problem (coinciding with the storage drives coming back online after the electrical problem) and the Image Server was back online after a server restart. The entire outage lasts roughly one hour and all services had been restored by approximately 8:40AM. As always, we apologize for any inconvenience this may have caused to our fellow early risers.

2023/2024 Missouri County Imagery

Deployment status is as follows:

- A mosaic has been created from the northern Missouri tiles and has been deployed as a mosaic that can be accessed here:
https://moimagery.missouri.edu/arcgis/rest/services/Statewide/Missouri_6inch_12inch_North_2022_2023_Detail/ImageServer
- The existing image mosaic of the Missouri North project is a dynamic cache service and does not currently have an associated tile cache alternative.
- With both the image service and county mosaic downloads now deployed, the next major step will be the creation of a standalone image server that will be reserved solely for these statewide

projects and their eventual replacements. This phase is currently on-hold until the successful transfer of funds from the Missouri 911 Service Board to MSDIS. **No estimate for completion is available at this time nor will one be provided as we proceed.**

- Due to concerns about overtasking the server, a complete, statewide mosaic of the three 2022/2023 image projects will not be generated until the above server is installed.
- We have corrected the name of the Northern Missouri county mosaic layer in The Missouri Map. Last month, the layer that controlled the downloads of these mosaics was incorrectly named the MO **2023-2024** North Imagery Index. The layer name has since been adjusted to MO **2022-2023** North Imagery Index.

Image Server Statistics

Since the replacement of the MSDIS Image Server, we have struggled to find a software to provide a comprehensive breakdown of server and service usage. We had hoped that the statistics pulled directly from ArcGIS Server Manager would be a suitable substitute, but the very bare-bones records were significantly less than what we wanted.

Moving forward, we will no longer publish these numbers in our monthly reports. We will remain on the lookout for a reliable option for parsing the server usage in the hope that we can publish these numbers again. The raw server logs are still being saved if anyone requires them. Should anyone need a rough estimate of usage for certain specific services, we are more than happy to run those numbers via Server Manager.