

# MSDIS Update – October 2022

## Updated Data

- MO Primary Care Providers
- MO Dialysis Centers
- MO Rural Health Clinics
- MO Adult Daycare
- MO Ambulatory Surgical Centers
- MO Long Term Care Facilities
- MO Hospitals
- MO MoDOT Commuter Lots
- MO MoDOT Emergency Reference Markers
- MO MoDOT Rest Areas
- MO MoDOT Roads Routes
- MO MoDOT Roads Arcs
- MO Licensed Pharmacies
- MO Federally Qualified Health Centers

## MSDIS General News

MSDIS has accepted delivery of the 2022 Missouri aerial photos and is in the process of deploying them as services on the new MSDIS Image Server.

Unrelated to the new aerials, MSDIS is also working to supplement several of our existing services with tile-based caches. It has not escaped our notice that some of our more recent, statewide image services are not as responsive as their older counterparts. In particular, the NAIP 2020 and DOQQ 2015 services could use some additional pep in their proverbial step. The tile cache versions of these services are still experiments, so we are not married to the idea of using them. Point of fact, we haven't even finished building all of the tile scales for either service (unsurprisingly, it takes a really long time to build a statewide array of 1:2000 scale tiles), so this is still in very early stages. That being said, we have already replaced the NAIP 2020 service with the tiled version and have only been alerted to a problem by one of our users. To address their concerns, there is a parallel dynamic cache service of the same imagery.

Finally, as we near the end of the calendar year, MSDIS has an important decision to make regarding the fate of the Web Server. For more information, please see Appendix 1.

## MSDIS Downtime

No outages were reported during October 2022.

## MSDIS October 2022 Server Stats

### Imagery

| Month   | Hits    | Page views | Visitors | Sessions | Avg Sessions per day |
|---------|---------|------------|----------|----------|----------------------|
| Feb-22  | 3677227 | 3676212    | 29114    | 97294    | 3474                 |
| Mar-22  | 4122785 | 4121632    | 32968    | 120154   | 3875                 |
| Apr-22  | 4634350 | 4633194    | 32082    | 114106   | 3803                 |
| May-22  | 3792947 | 3792169    | 29977    | 106875   | 3447                 |
| June-22 | 3992739 | 3991965    | 30178    | 107435   | 3581                 |
| July-22 | 3758766 | 3756990    | 30644    | 106120   | 3423                 |
| Aug-22  | 4074902 | 4073034    | 32364    | 116417   | 3755                 |
| Sept-22 | 3379958 | 3378663    | 29224    | 104491   | 3483                 |
| Oct-22  | 3644236 | 3641545    | 25804    | 84246    | 2808                 |

### Map

| Month   | Hits    | Page views | Visitors | Sessions | Avg Sessions per day |
|---------|---------|------------|----------|----------|----------------------|
| Feb-22  | 173707  | 172197     | 1742     | 3843     | 137                  |
| Mar-22  | 240869  | 238452     | 2175     | 4643     | 149                  |
| Apr-22  | 221310  | 217506     | 2186     | 4686     | 156                  |
| May-22  | 190056  | 188509     | 2008     | 4541     | 146                  |
| June-22 | 309904  | 308328     | 2578     | 6164     | 205                  |
| July-22 | 468647  | 467154     | 3936     | 7749     | 249                  |
| Aug-22  | 1024851 | 1022164    | 6411     | 11481    | 370                  |
| Sept-22 | 944572  | 941012     | 5866     | 10570    | 352                  |
| Oct-22  | 271898  | 268294     | 5745     | 10152    | 327                  |

### Archive

| Month   | Hits   | Page views | Visitors | Sessions | Avg Sessions per day |
|---------|--------|------------|----------|----------|----------------------|
| Feb-22  | 91628  | 89756      | 1253     | 10539    | 376                  |
| Mar-22  | 282381 | 279459     | 1295     | 10899    | 351                  |
| Apr-22  | 92930  | 90778      | 1426     | 12010    | 400                  |
| May-22  | 85880  | 83785      | 1222     | 10504    | 338                  |
| June-22 | 86910  | 84069      | 1077     | 10461    | 348                  |
| July-22 | 125076 | 123454     | 2407     | 11785    | 380                  |
| Aug-22  | 122497 | 120787     | 1569     | 9757     | 314                  |
| Sept-22 | 92183  | 90199      | 1232     | 8261     | 275                  |
| Oct-22  | 109229 | 107368     | 1196     | 7670     | 247                  |

## Appendix 1

We need to make a decision regarding the fate of the [MSDIS Web Server](#) and we need to make that decision fairly soon.

As with the old MSDIS Image Server, the current MSDIS Web Server is running on a very old Windows 2012 R2 virtual machine. While the server still works, the Mizzou Division of IT plans to retire all 2012 servers at the end of this year due to security and support concerns.

The decision to rebuild the Image Server on a newer Windows Server 2022 machine was obvious. We need the Image Server. Full stop. The Web Server is a different situation, though. In theory, we could ask DoIT to spin up another new 2022 server and rebuild the vector data services. That would take time, but it can be done.

Alternatively, we can let the Web Server die. We can retire the machine with no replacement in place. We have that option because everything currently served out by the MSDIS Web Server is currently served out by the [MSDIS ArcGIS Online account](#). Not only are all of those services available via ArcGIS Online, they are available as Feature Services rather than as Map Services.

As is often the case in situations like this, there are pros and cons to either option. If we spin up a replacement to the current Web Server, the transfer should be as seamless as the Image Server migration was. Services will retain their current URLs and users will not have to reconnect any of their apps to the ArcGIS Online services. In short, building a new Web Server will be easier on you.

On the other hand, if we allow the Web Server to retire and replace it with the ArcGIS Online data that already exist, that is a server that MSDIS and the Dept of Geography do not have to pay for, which opens up the possibility (only the possibility, mind you) of reinvesting the money that would have paid for a Web Server into improving the new Image Server. It also saves me some time as the clearinghouse manager. When I receive new and updated data, one copy is posted to ArcGIS Online, one copy is posted to our file library, and a third copy is served out via the Web Server. If we eliminate the Web Server, that's a bullet on my To-Do List that goes away. All that to say that not building a new Web Server will be easier on MSDIS.

This is a big decision, though, and it is not one that I want to make without hearing outside opinions. We've already floated the decision to some of our partners and the feedback has been mixed (as we anticipated). If you have thoughts on this situation, we would like to hear them. Please feel free to send any feedback or opinions about the Web Server situation to [msdismail@missouri.edu](mailto:msdismail@missouri.edu). To reiterate the start of this message, though, this is a decision we need to make ASAP, so if you have opinions, get them to us soon.

Whatever we choose to do with the Web Server, the [MSDIS File Library](#) will not go away. If we build a new server, the Library will live on that machine. If we do not build a new server, the Library will migrate to the new Image Server and live there.

As always, we thank you all for your time, your patience, and your understanding.

-Tom