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OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM OHIO STATEWIDE IMAGERY PROGRAM

The Ohio Statewide Imagery Program is a partnership between State agencies and the federal government to develop high-resolution imagery and elevation data for the entire state to benefit Geographic Information System users at all levels of government. Accurate imagery and elevation data serves as the backbone for the development of additional data sets that are currently maintained and accessed by government decision makers and the public.

The data obtained through OSIP replaces the circa 1994-98 1M black and white digital ortho quarter quad (DOQQ) imagery and the USGS 30M Digital Elevation Model (DEM) with higher resolution data.

OSIP Products

Standard OSIP products include 1FT Color Orthophotography in GeoTIFF and MrSID format, 2.5FT DEM in ArcInfo GRID and ASCII grid format, and 2M LiDAR postings in LAS format.

Optional OSIP products available through a Cooperative Purchase Agreement with the State of Ohio include 6IN Color Orthophotography, 2FT and 5FT contours, and 1M Color Infrared photography.

All work related to the Ohio Statewide Imagery Program has been suspended. This action was necessary due to overall shortfalls in the current OSIP budget. This will continue until such time as the OSIP budget issues are resolved.

OSIP Project Status Summary

Standard 2006 OSIP data products were shipped to the 51 northern tier counties in June 2007. Data for 32 of the remaining 37 southern tier counties was captured this spring and is being processed for delivery in the spring of 2008. The OSIP Status Map viewer is available at: <http://gis1.oit.ohio.gov/website/osip>.

To date 26 of the state's 88 counties have taken advantage of the OSIP program to obtain 6IN Color Ortho Photography through a Cooperative Purchase Agreement (CPA) with the State of Ohio. The CPA benefits the state by enhancing the resolution of the imagery developed by **OSIP and will save the 26 participating counties an estimated 4.5 million in taxpayer dollars** in the process. The savings are due to the economy of scale of a statewide program including the cost of project administration and QA/QC for the enhanced imagery products.

A shortened flying season limited the ability to capture the entire southern tier in 2007; as a result the OSIP project was extended to 2008 to capture the data for the 5 remaining 1FT counties and 8 remaining 6IN counties participating in the CPA to obtain enhanced OSIP products

OSIP Data Distribution

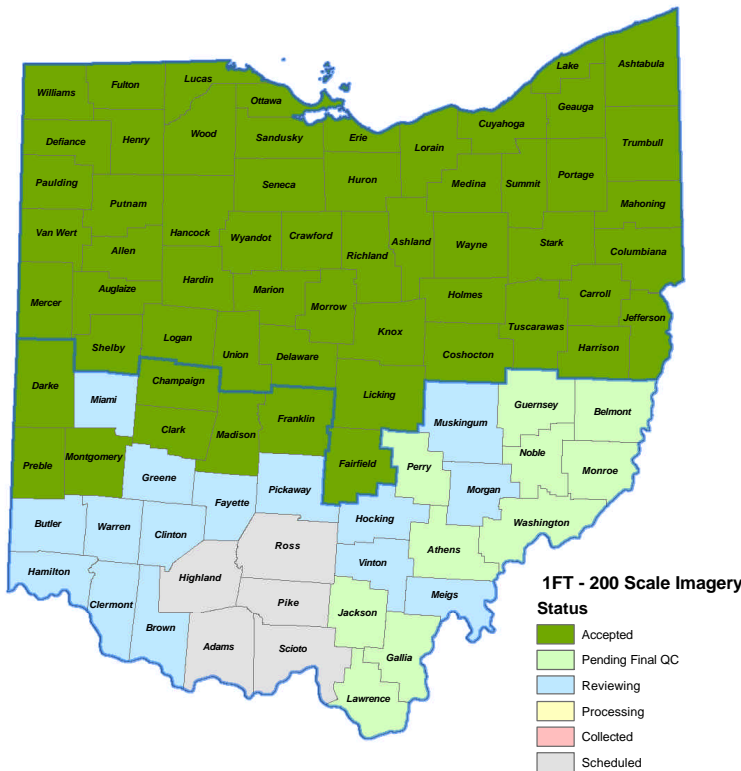
OSIP data is available through several delivery mechanisms. The preferred method of delivery is through on-line Map Services, both ArcIMS and WMS. Map Service connection information is available through the metadata for the services and is available from the Ohio Metadata Server <http://geodata.oit.ohio.gov/metadataexplorer/explorer.jsp> by searching for "Live Data and Maps" using the keyword "OSIP". GIS client applications can connect directly to these services to access terabytes of imagery without the need to download and store the data locally.

Compressed MrSID imagery, LiDAR, and DEM data is available for download on a per county basis with links provided on the Ohio Metadata Server by searching for "Downloadable Data" using the keyword "OSIP" or by visiting the OSIP Data Downloads page <http://gis3.oit.ohio.gov/geodata>.

The 2M LiDAR data in LAS format and DEM data will be hosted by the USGS Center for LIDAR Information Coordination and Knowledge (CLICK) site at: <http://lidar.cr.usgs.gov/>.

Arrangements are being made to provide on-line access to full resolution imagery and elevation data on a custom order basis. Additional information will be posted as the services are available.

**OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
OHIO STATEWIDE IMAGERY PROGRAM**



Acquisition of Aerial Data - 1FT Imagery

- 1FT imagery covering the southern tier of Ohio (37 counties), with the exception of Adams, Scioto, Highland, Ross and Pike Counties, has been flown. These five counties, scheduled for acquisition during the winter/spring 2008, are currently on hold.

Processing of 1FT Aerial Data and Ground Control

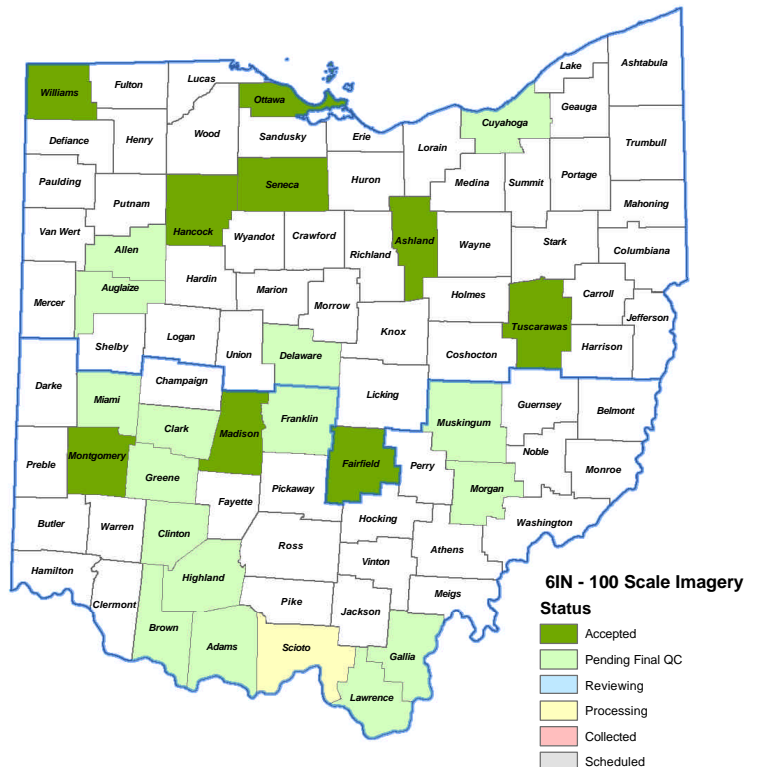
- Processing of 1FT Aerial Data and Ground Control for 32 counties has been completed

Acquisition of Aerial Data – 6IN Imagery

- Imagery for Gallia, Lawrence, Morgan, Muskingum, Franklin, Madison, Greene, Clark, Montgomery, Auglaize and Allen Counties was flown spring 2007.
- Adams, Brown, Clinton, Cuyahoga, Delaware, Highland, and Scioto Counties were flown in 2008 and are scheduled for delivery in the fall of 2008.

Processing of 6IN Aerial Data

- Enhanced 6IN County imagery products are being processed for delivery to the counties. QA/QC of the 6IN products are on hold pending the reinstatement of the program. Several counties (Allen, Auglaize, Madison, and Franklin) were QC'd and accepted for compilation in the Fall of 2007.
- Review of Clark, Greene, Lawrence, Montgomery, Morgan, and Muskingum is complete.



**OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
OHIO STATEWIDE IMAGERY PROGRAM**

Acquisition of Aerial LiDAR Data

- LiDAR for 32 of the southern tier of Ohio was captured and processed in 2007.
- LiDAR for the remaining 5 counties has been captured and is ready for processing.

Processing of Aerial LiDAR Data

- Data acquired in the spring of 2007 has met preliminary requirements and has been processed to create the digital elevation model (DEM) used to rectify imagery during the ortho process.
- Final LiDAR/DEM Products are pending accuracy checks and were anticipated to be delivered to the State in March 2008.
- The processing of the LiDAR for the 5 remaining counties scheduled for completion in the spring of 2008 is on hold.



Acquisition of Aerial Data – CIR Imagery

- All CIR imagery covering the southern portion of Ohio (39 counties including Fairfield and Licking) has been flown.

Processing of Aerial Data – CIR Imagery

- CIR Imagery for 39 southern counties has undergone initial processing and is pending QC.
- Final approval of CIR is pending the completion and acceptance of the DEM for the 5 remaining counties.



**OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
OHIO STATEWIDE IMAGERY PROGRAM**



Processed 1FT OSIP Imagery Spring 2006



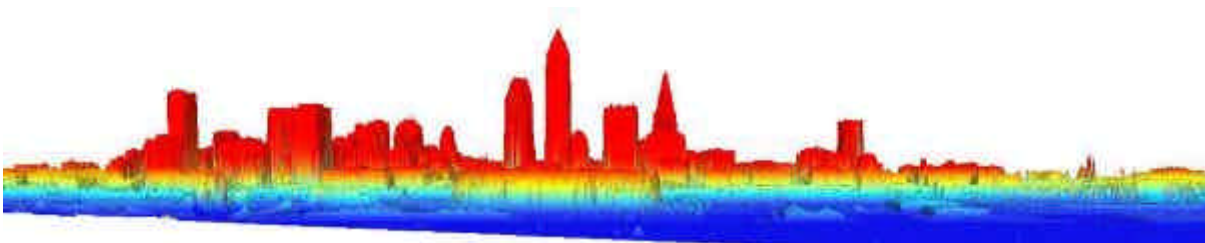
Unprocessed 6IN OSIP Imagery Spring 2007



OSIP LiDAR Point Cloud Spring 2006



1 Meter OSIP Color Infrared Imagery Spring 2006



OSIP LiDAR Derived 3D Elevation Model

**OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
OHIO STATEWIDE IMAGERY PROGRAM**

I wanted to send you a quick email letting you know how impressed I am with the [OSIP] aerial photography data The State of Ohio and OGRIP have provided. First...the positional accuracy is spot-on with all of our other layers of data ... Secondly...the building lean is near minimal which is an upgrade to our 2004 data ... Lastly, the way you provided the data on removable USB hard drives was perfect planning as well... I feel very lucky to be a GIS Manager in a State that is doing so much for/with GIS. I hope the State will continue the efforts at keeping GIS data/technology in their lines of funding.

Brian Hall, GIS Manager - Wayne County Auditor's Office

The new aeriels were TREMENDOUSLY helpful in the Jesse Davis Search. I was able to use them the day after I received them. If there is someone I could write to let them know, just give me a name and an address. I'm sure all the Public Safety personnel in my County would be happy to send support also.

Shanda-lyn Yaeger, GIS Coordinator - Stark County Auditors Office

This [OSIP LiDAR] really got people's attention as they saw their [South Bass] island in a whole new way, in exquisite detail. It must have helped, because the group was allowed access to every cave on their list. Mission accomplished. So, again, thank you

Rick Pavey, Surficial Geology Technical Administrator
Geologic Mapping and Industrial Minerals Group - Ohio Geological Survey

The cost savings relative to Preliminary Engineering (PE) studies (using the [OSIP] LiDAR data sets) can be associated directly with time as it relates to researching, obtaining, and using existing topographic data. In Summary, the benefit of having Statewide Imagery (Orthophoto and LiDAR) is extremely cost effective and important. The estimated cost savings using the [OSIP] Statewide LiDAR Data for PE activities can be presented as 15-20 times more cost effective than conventional survey methods.

Office of Production - Ohio Department of Transportation

Thanks for the link to the metadata explorer. We have been using this quite a bit already. This is such a great service for everyone. I've been downloading the MrSID files as I need them.

Christy Phillips, GIS Specialist Office of Strategic Services - Statistical Analysis Unit
Ohio State Highway Patrol

You guys rock!!!!!!! Upon returning from the ESRI Conference, I found the Portage County hard drive loaded with the 2006 OSIP data. The data and hard drive will help us greatly in establishing our GIS.

Joe Reichlin, GISP Portage County GIS Coordinator

Just wanted to thank you again for sharing the [OSIP] imagery. I see imagery for most of the nation...and must tell you that this imagery looks very clean and the spatial accuracy very good compared to a lot of the stuff I see.

Laura La Kose, Linear Features and GPS Branch Geographer - US Census Bureau

[The] Miami Conservancy District suggested you might be the best person to discuss acquiring ...the Ohio [OSIP] imagery and DEM. Google is certainly interested in integrating your [OSIP] data... into Google products, today Google Earth and Google Maps, perhaps other products in the future.

Michael E. Jones, Data Acquisition Specialist Google Inc

This [OSIP data] is great. Have a good day!

Jacob D. Merriman, P.E. Transmission Line Engineering
Energy Delivery Technical Services -FirstEnergy Corp.