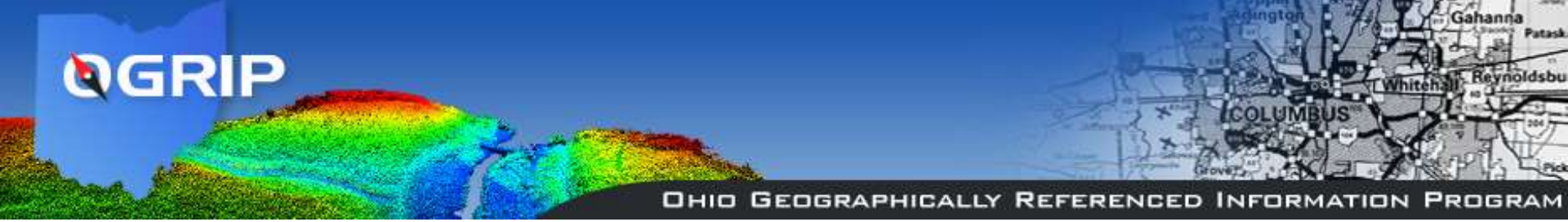


Ohio Geographically Referenced Information Program

Jeff Smith, State Geographic Information Officer
Ohio Department of Administrative Services
Office of Information Technology
Email: Jeff.Smith@ohio.gov
Office Phone: 614.466-4747

GEOhio
Spatial Data Discovery Portal

OhioDAS Department of Administrative Services

Stolte — CCAO — Smith — CEAO — Ringle

Salling — DHE — CAAO — Slater

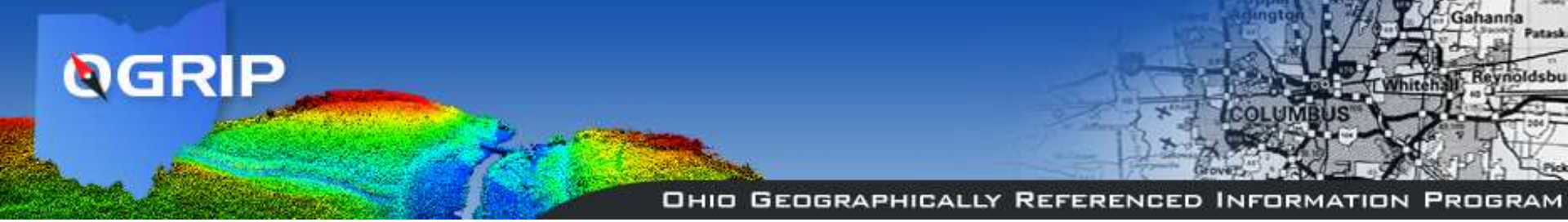
Lumbrezer — OTA — ODNR — Simmers

Kelley — Ohio DSA — OML — Yandrick

Blackstone — ODOT — OEPA — Magni

Powers — ODNR — ODPS — Montgomery

Unger — TOS — AGO — Rodgers



Ohio Geographically Referenced Information Program

Goals:

- Encourage the creation of digital geographic data of value to multiple users,
- Foster the ability to easily determine what geographic data exists and
- Provide the ability to easily access and use this data.

GEOhio
Spatial Data Discovery Portal

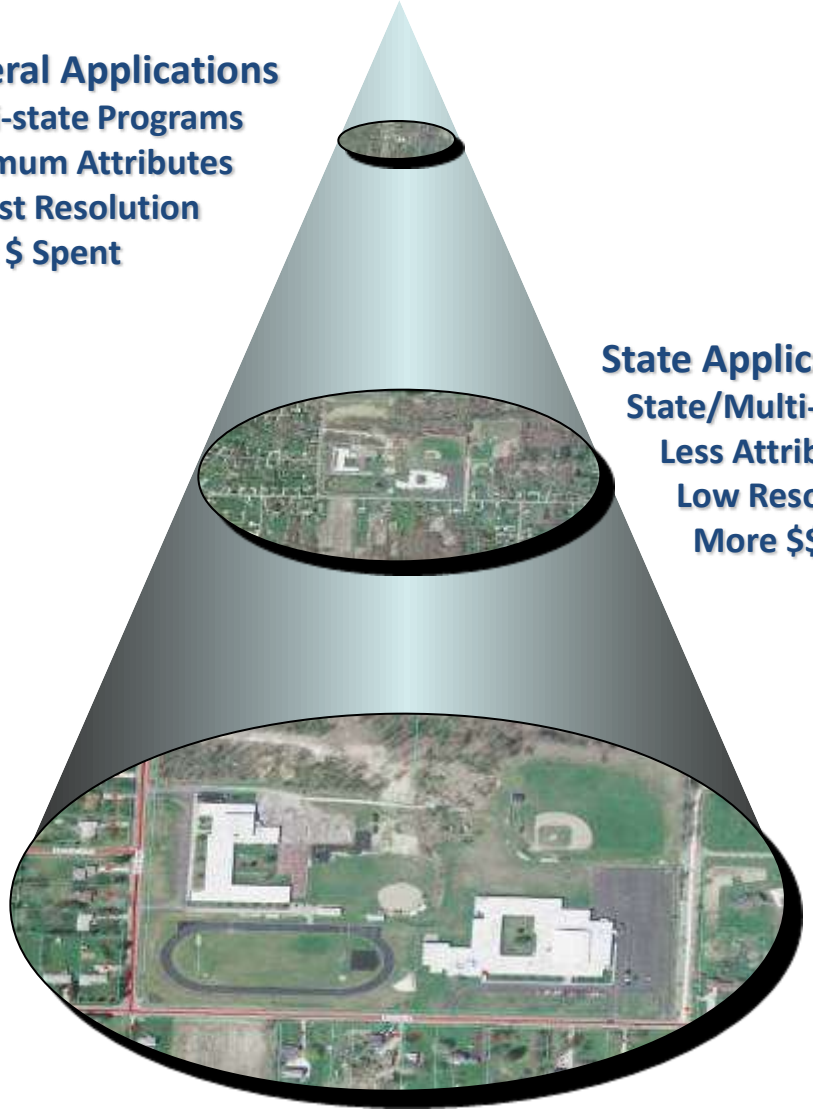
VERTICAL INTEGRATION

MODEL FOR OHIO'S SPATIAL DATA INFRASTRUCTURE

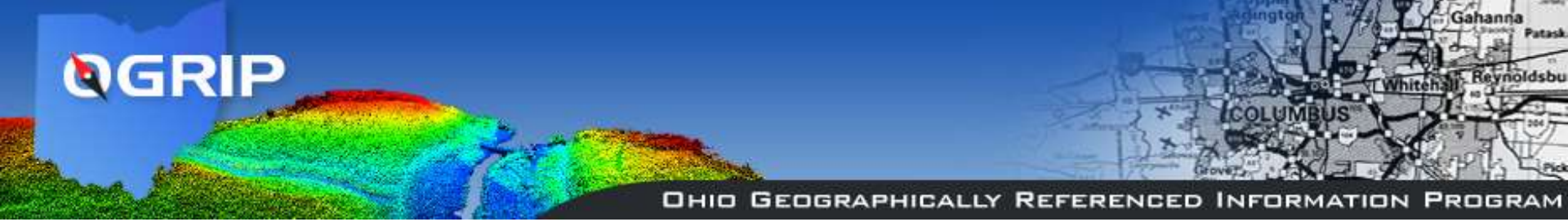
Federal Applications
Multi-state Programs
Minimum Attributes
Lowest Resolution
Least $ Spent

State Applications
State/Multi-County
Less Attributes
Low Resolution
More $$ Spent

Local Applications
County/Regional
More Attributes
Higher Resolution
Most $$$$ Spent



GEOhio
Spatial Data Discovery Portal



Ohio Spatial Data Infrastructure Framework Data Initiatives

- Location Based Response System
  - Road Centerlines
  - Site Address Locations/ Master Address File
- State Owned Real Property Inventory
  - Facilities
  - Land
- State Broadband Initiative
  - Schools, Libraries, Police, Fire, EMS, Hospitals, Daycare, etc
- Ohio Statewide Imagery Program
  - High Resolution Color and Infrared Imagery*
  - Digital Elevation Models
  - Light Detection and Ranging Points
- Hydrography
- Cultural Boundaries
  - School Districts
  - Township, Municipalities, Counties, State
  - Legislative Districts
  - Census

GEOhio Spatial Data Discovery Portal

- Enhanced Imagery and Elevation products may be purchased by local and county governments through the Cooperative Purchasing Program. Contact us at 614-466-4747 for details.

OGRIP

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM

OHIO SPATIAL DATA INFRASTRUCTURE

ACTIVITIES SUPPORTED

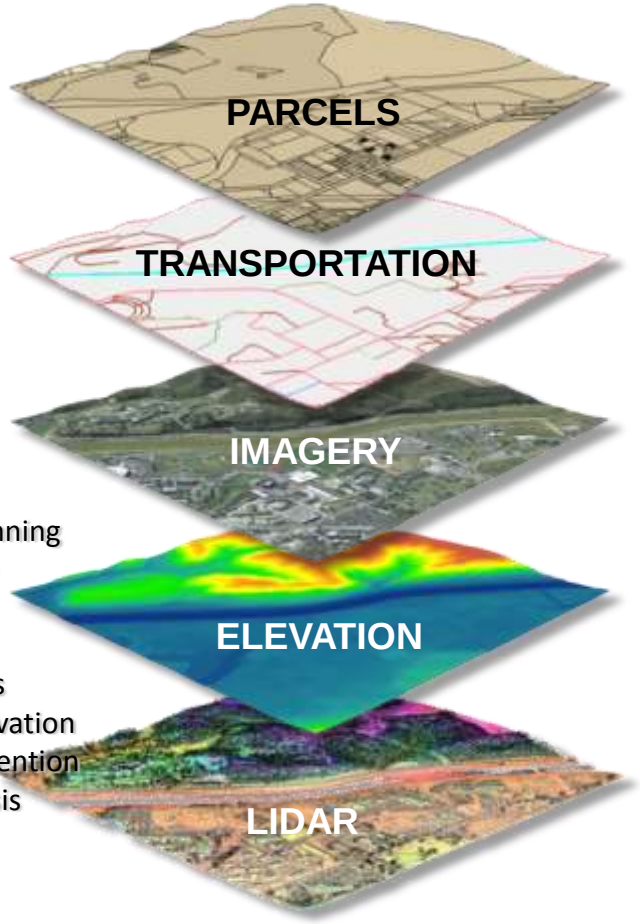
OSDI development supports

- Economic Development
- Critical Infrastructure Operations
- Business Activities
- Regulatory Compliance
- Emergency Response
- Law Enforcement

SECTORS SUPPORTED

Investment in the OSDI means improved planning and development activities for infrastructure projects for

- Transportation – Rail, Rivers, Roads
- Renewable Energy – Wind, Bio-fuels
- Environment – Assessment, Conservation
- Health – Tracking, Reporting, Intervention
- Climate Change – Modelling, Analysis



RETURN ON INVESTMENT

Coordinated OSDI development

- Saves Taxpayer Dollars
- Saves Lives
- Encourages Investment
- Stimulates High-Tech Jobs

PROCESS IMPROVEMENTS

OSDI information provides decision makers with the information and tools necessary to:

- Make better decisions
- Improve efficiencies
- Reduce redundancies
- Encourage collaboration
- Improve Communication

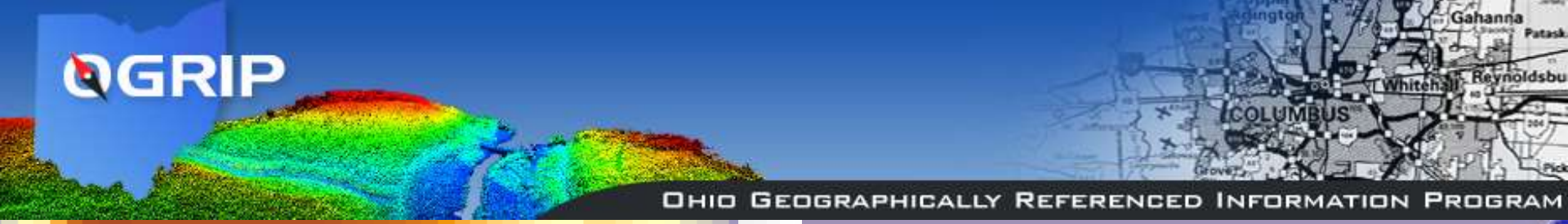
GEOhio
Spatial Data Discovery Portal

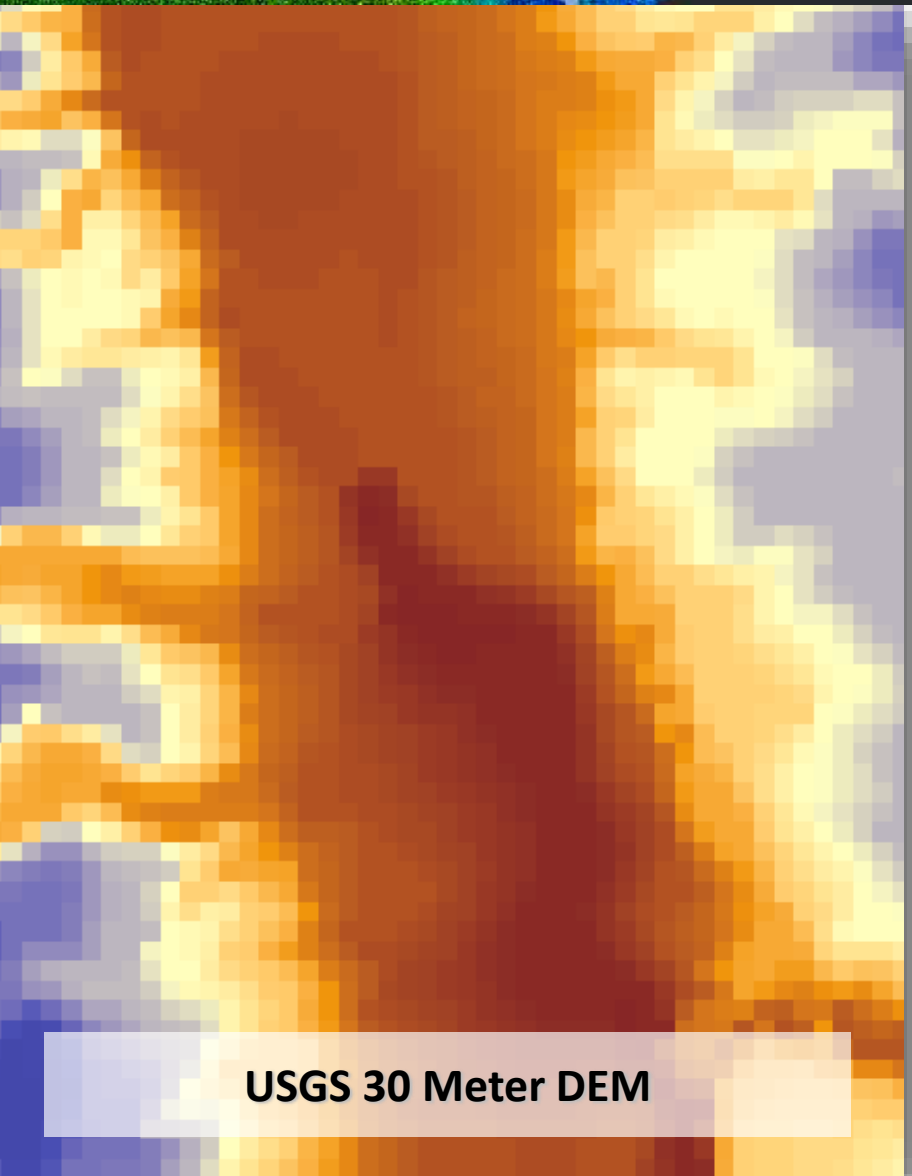
Ohio Statewide Imagery Program - OSIP

OSIP is a partnership between Local, State and Federal government agencies to develop high-resolution imagery and elevation data to benefit GIS users at all levels of government.

GEOhio Spatial Data Discovery Portal

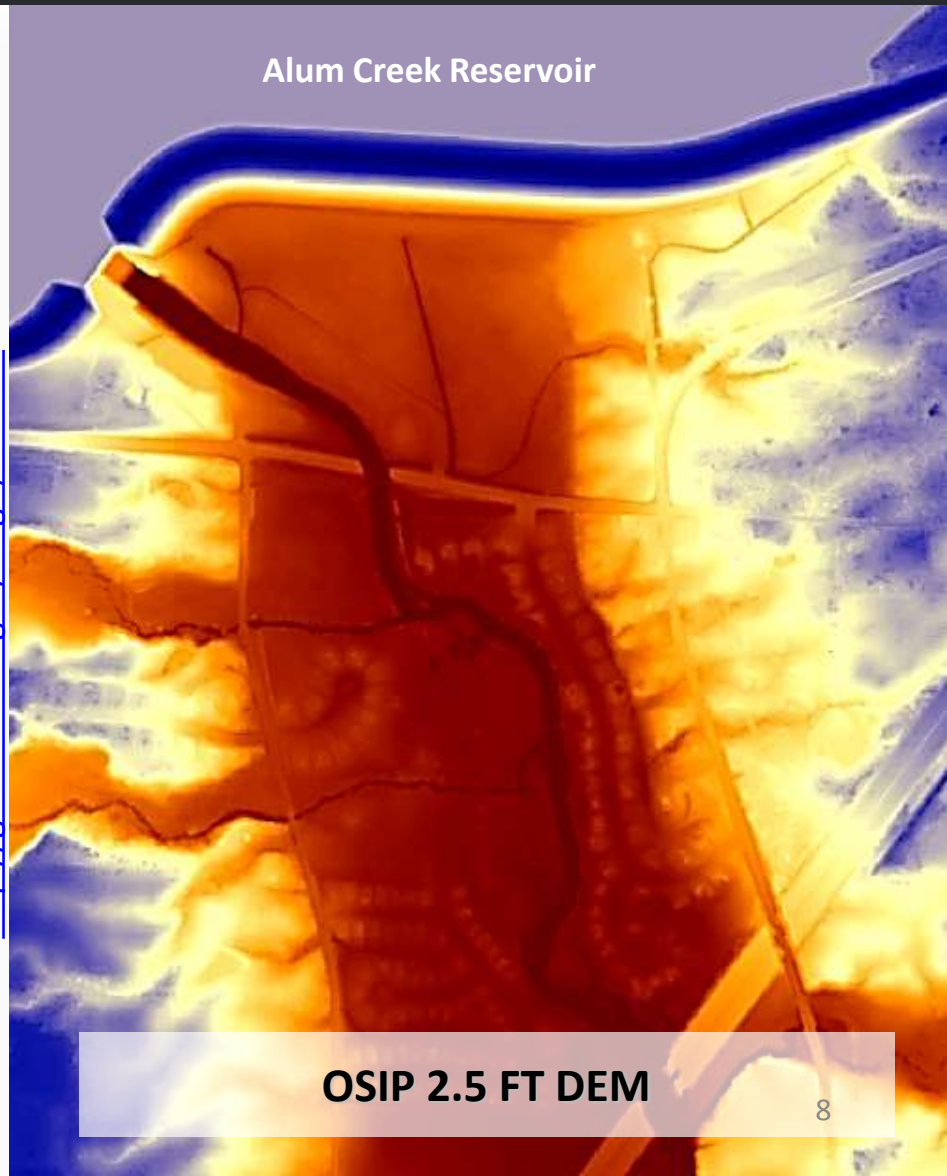
http://ogrip.oit.ohio.gov/ProjectsInitiatives/StatewideImagery.aspx





USGS 30 Meter DEM

http://gis4.oit.ohio.gov/arcgis/services



OSIP 2.5 FT DEM

OSIP II Enhanced Products

	Enhanced Orthos	Obliques	Elevation	Feature Extraction
1	Adams County, OH - Orthos 2012	Allen	Champaign Co.OH-2014 6" Ortho/LiDAR	Clinton County OH Countywde Bldg Outline
2	Adams County, OH-2014 6" Ortho Img	Ashtabula Co OH-2014	City of Columbus OH 1-Foot Contours	Northwest Ohio Solar Resource Map
3	Allen Co, OH-6" Countywide Ortho Imagery	Ashtabula County	Columbus Ortho and LiDAR Project 2011	Springfield OH-Impervious Surface Prog.
4	Athens County, OH-2014 6" Ortho	Butler Co., OH	Delaware Co OH-3" Countywide Ortho	
5	Auglaize County OH 2011 Digital Orthos	Columbiana Co, OH	Delaware Co., Ohio - LiDAR Project	
6	Bowling Green OH-2014 3" Ortho Img	Columbiana Co, OH-2014	Fairfield, OH-6" Citywide Ortho Imagery	
7	Brown County, OH - Orthos 2012	Coshocton County	Fayette Co. OH-1 Meter Countywide LiDAR	
8	City of Dublin Ortho Imagery 2011	Delaware Co,OH	Franklin County, OH - Contours 2012	
9	City of Dublin, Ohio - Orthos 2012	Fairfield Co,OH	Guernsey County, OH-2014 6" Ortho	
10	Clinton Co, OH Orthos 2011	Gallia Co,OH	Medina County, OH-2014 6" Ortho	
11	Clinton Co., OH-2014 6" Ortho Img	Geauga Co, OH	Ottawa County, OH 2011 Digital Orthos	
12	Columbus, OH-3" Citywide Ortho Imagery	Greene Co, OH	Preble Co. OH Ortho/LiDAR/Contour 2012	
13	Dublin OH-3" Citywide Ortho Imgy-Fall 13	Hancock County, OH	Shelby Co, OH Ortho/LiDAR/Contour 2011	
14	Dublin, OH-3" Citywide Ortho Imagery	Jefferson Co,OH	Warren County, OH-2014 6" Ortho	
15	Fairfield County, OH - Orthos 2012	Lake County		
16	Fayette Co OH-6" Countwide Ortho Imagery	Lawrence Co OH		
17	Greene Co, OH Ortho Imagery 2013-2015	Mahoning Co. OH		
18	Hancock County, OH 2013 Digital Orthos	Ottawa County, OH-2014		
19	Hardin County Ortho Project 2012	Trumbull County		
20	Henry Co., OH-2014 6" Orth Imagery			
21	Henry County, OH - Orthos 2012			
22	Hocking Co., OH-2014 6" Ortho Img			
23	Huron Co, OH Orthos 2011			
24	Huron County, OH-2014 6" Ortho Img			
25	Lawrence Co OH-6" Cntywide Ortho Imagery			
26	Lucas Co, OH Orthos 2011			
27	Lucas County, OH-2014 3" Ortho Img			
28	Mahoning Co OH-6" Countywide Ortho Imgry			
29	Miami Co., OH-2014 6" Ortho Imag.			
30	Miami County, OH 2011 Digital Orthos			
31	Montgomery Co OH-6" Ortho Imagery			
32	Ohio Statewide Imagery Program (OSIP)			
33	Paulding County, Ohio 2012 Orthos			
34	Perrysburg, OH-2014 3" C-Wide Ortho Img.			
35	Putnam Co., OH-2014 6" C-wide Ortho Img			
36	Scioto Co OH-6" Countywide Ortho Imagery			
37	Shelby Co, OH-2014 6" Ortho Imag.			
38	Tuscarawas Co. OH-2014 6" Ortho			
39	Tuscarawas County			
40	Union County, OH Orthos 2012			
41	Vinton County, OH/ODNR 6" Ortho Imagery			
42	Washington Co. OH-2014 6" Ortho			
43	Williams County, OH 2013 Digital Orthos			
44	Wood Co, OH-2014 6" C-wide Ortho Imagery			

54	10	8	2	19	3
ORTHO	LIDAR	CNTRS	IMPSURF	OBLIQUE	BLDS

OGRIP

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM

Enhanced Resolution
(RGBN) Imagery

When too much was not enough

In 2001 Ohio suffered from an abundance of data developed for specific business needs with little regard for interoperability, standards, maintenance, or authoritative sourcing. State agencies could pick from data developed by the:

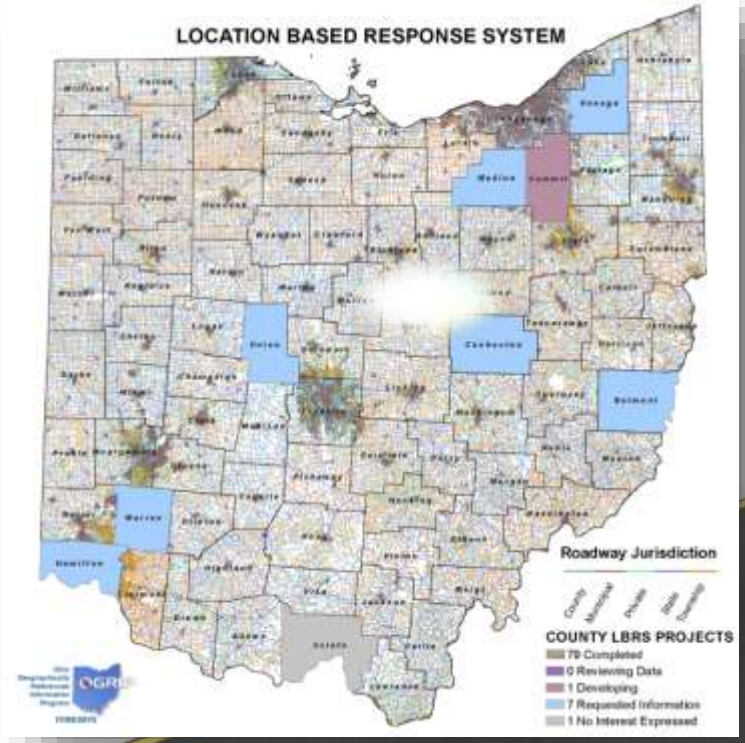
State DOT
U.S. DOT
Department of Census / TIGER
Local Governments
Vendor Community

Address level data was virtually non-existent.

Positional Accuracy–1994 Image & 1998-2001 Data Sources

OGRIP

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM



Location Based Response System

LBRS

80 Counties Participating

120,090 Road Miles Collected

Over 4 million Field Verified Site Address Points Collected

SUPORTING

NG9-1-1

ROUTING

PUBLIC SAFETY

CRASH ANALYSIS

ROADWAY INVENTORY

CENSUS ENUMERATION

EMERGENCY RESPONSE

OGRIP

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM

Locally developed and maintained

Spatially accurate statewide road centerline data

- +/- 1 M Horizontal
- Verified Address ranges

Site specific field verified address locations

- Higher confidence/increase reliability for geocoding
- Known accuracy & limits of data and use

One set of geography –

- Multiple attributes for different uses at all levels of government
- Locally maintained – collaboratively funded

OGRIP

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM

PARCELS

THE BUILDING BLOCKS OF AUTHORITATIVE JURISDICTIONAL UNITS AND AREAS

Parcel data is one of the most information rich spatial data developed and maintained by local government.

SUPORTING LOCAL GOVERNMENT

- Real Estate Appraisal
- Economic Development
- Regional Planning
- School And Tax District Boundaries
- Public Safety
- Emergency Response

SUPPORTING STATE GOVERNMENT

- State Owned Real Property Inventory
- Environmental Regulations
- Livestock Management/Disease Control
- Transportation Planning
- Disaster Planning and Management
- Tax Distribution

2014 Parcel Collection

PARCELS ARE THE BUILDING BLOCKS FOR DEVELOPMENT OF JURISDICTIONAL UNITS

SCHOOL DISTRICT COMPARISON

OHIO SPATIAL DATA INFRASTRUCTURE

Development / Management / Distribution

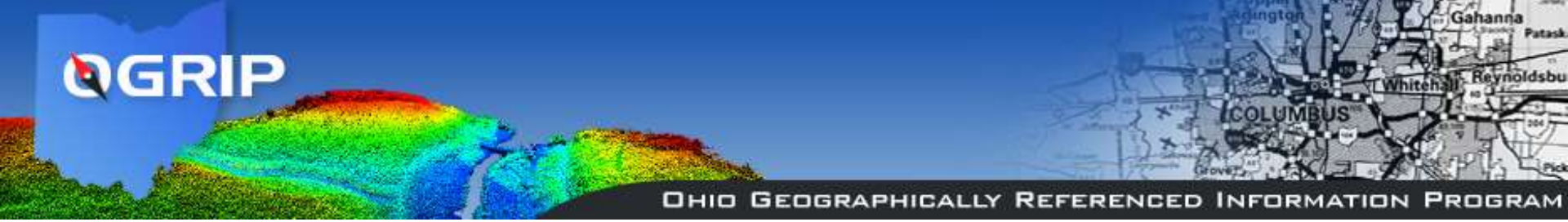
Next Generation 9-1-1 (NG9-1-1)

- Location Based Response System
- State Broadband Initiative - Community Anchor Institutions
- State Owned Real Property
- Governmental Units
- Ohio Statewide Imagery Program
- Parcels

Next Generation 9-1-1

Growing Demands on 9-1-1

- Sharing data with other PSAP's and Public Safety personnel
- Additional information for other sources
- More ways to communicate
- Over 70% of all 9-1-1 calls are from cell phones
- Sensors
  - Chemical, Biological, Radiation, Gun Shot, Video
  - Intelligent Alarms, vehicle telematics, personal sensors



GIS CONSIDERATIONS FOR NG9-1-1 IMPLEMENTATION

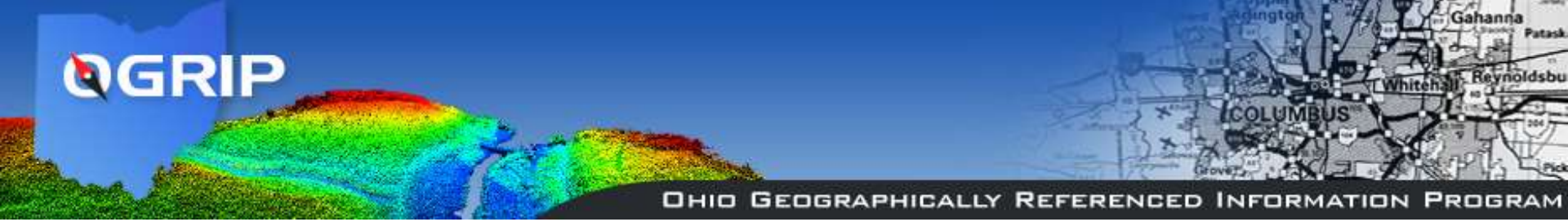
NG9-1-1 requires the development of new capabilities and workflows for GIS professionals to support the provisioning of spatial information to the NG9-1-1 system.

Cooperative agreements and partnerships must be established clearly define roles and responsibilities of PSAP Managers, Local Addressing Authorities, Street Authorities, Telephone Service Providers, GIS Professionals and NG9-1-1 Service Providers.

A clearly defined process for handling discrepancy reports and the timely processing data corrections by GIS Professionals to the NG9-1-1 system must be implemented.

Local NG9-1-1 implementations must coordinate with neighboring jurisdictions to ensure there are no gaps or overlaps in spatial coverage that would result in missed or miss-routed calls.

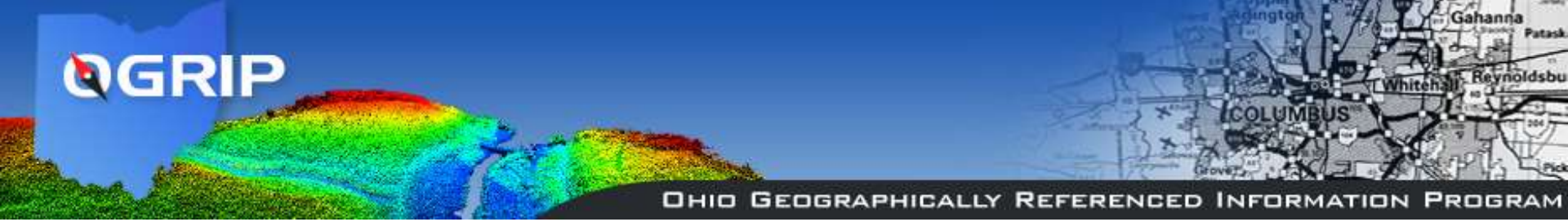
NG9-1-1 cannot exist without a commitment to GIS data development, maintenance, and management at the state and local level.



Questions to establish the readiness of a GIS to support spatial call routing:

- Does your jurisdiction track annexations and dissolutions spatially?
- Are effective dates tracked so calls can be correctly routed until cutover to the new jurisdiction?
- Are your PSAP and Emergency response zones accurate and topologically correct?
- Do you track and maintain mutual aid agreements spatially along with their associated effective dates?
- Have you corrected gaps or overlaps between your ESZs and those of your neighboring PSAPs, jurisdictions or Counties?
- Is there a data governance agreement in place and a procedure for conflict resolution between adjacent jurisdictions?
- Have you synchronized the ALI with your GIS addresses?
- Is there a maintenance plan or process in place for nightly Service Order Interface record updates from your telephone service providers?
- Has your street centerline been reconciled with your MSAG?
- Is there a defined maintenance process for ongoing synchronization and reconciliation?

If the answer to any of these questions is no, then there might be some work to do before standing up an Emergency Call Routing Function (ECRF).



AUTHORITATIVE ADMINISTRATIVE JURISDICTIONAL UNITS AND BOUNDING AREAS

- CITIES
- VILLAGES
- TOWNSHIPS
- COUNTIES

ARE THE BASIS FOR

- POLICE
- SHERIFF
- FIRE
- EMS
- 9-1-1 DISTRICTS

PARCELS

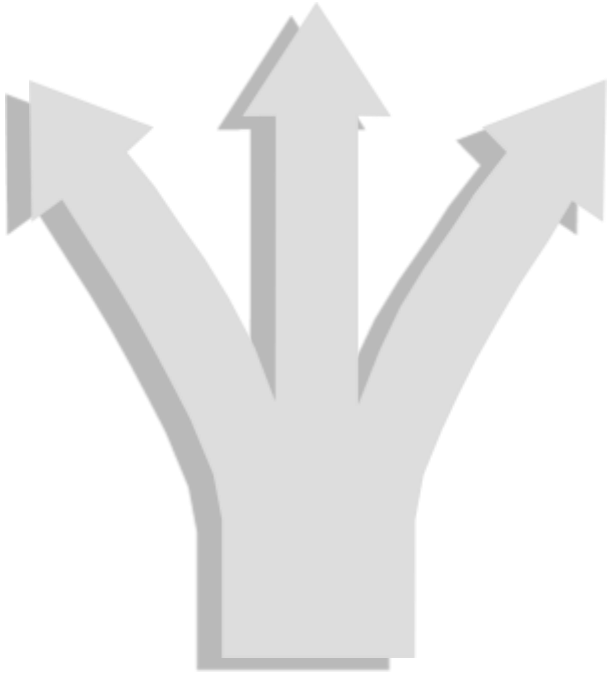
THE BUILDING BLOCKS OF AUTHORITATIVE JURISDICTIONAL UNITS AND AREAS

EMERGENCY RESPONSE ZONES & PSAP DISTRICTS

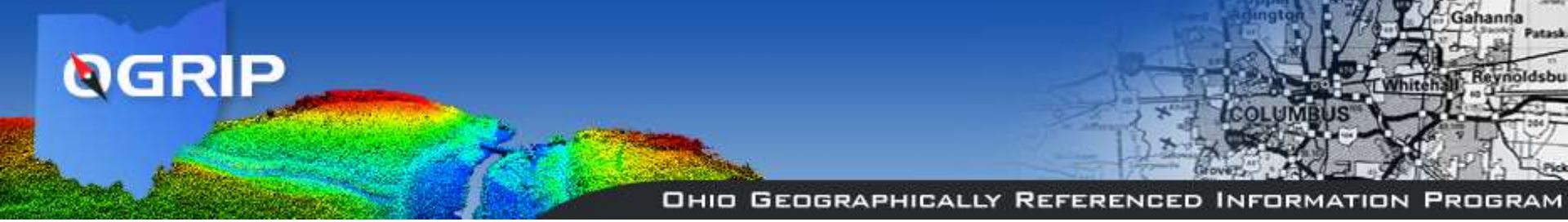
DATA SHARING BENEFITS

- more effective use of dollars
- develop applications faster
- improve customer satisfaction
- provide better decision-making
- utilize data produced by others
- extend analysis beyond jurisdictions
- resolve problems created by conflicting data
- redirect resources associated with duplication
- reduce dissemination costs by direct access
- provide a foundation for others to build upon

Geographic Data Sharing



Internal GIS Use



DATA SHARING BENEFITS

- Incentivizes data stewards to produce and ensure higher quality data
- Encourages collaboration among agencies to share resources and acquire additional data
- Reduces redundancy of data production which saves investment dollars and time
- Helps to better inform planning and policy

DATA SHARING CONCERNS

- Inappropriate use of the shared data
- Security concerns over the handling of sensitive or confidential data
- Lack of acknowledgement or citation for the shared data
- Loss of data results from others, giving competitive advantage over research dollars

Ohio OIT

State of Ohio
Administrative Services
Information Technology

Projects & Initiatives

Statewide Imagery
LBRS
GEOhio Spatial Information Portal

Welcome to the GEOhio Spatial Information Portal

GEOhio
Spatial Data Discovery Portal

GEOhio is an Open Data Portal that provides access to more than 40 terabytes of geospatial data maintained by the State of Ohio. Datasets are available to the public for download and have no use restrictions. The Ohio Department of Administrative Services Office of Information Technology provides high performance networks and computing infrastructure for GEOhio providing access to discover, view, and download data and services from State and Local government partners.

The Ohio Spatial Data Infrastructure (OSDI) consists of framework data themes that align with the National Spatial Data Infrastructure (NSDI). As OSDI data sets are developed they are made available for through the OSDI Downloads site and the Map and Data Services site.

Ohio Spatial Data Infrastructure Downloads

- Imagery, LiDAR and Elevation developed through the Ohio Statewide Imagery Program
- Ohio Location Based Response System Street Centerlines, Site Addresses and ancillary source data maintained by County partners.
- Historic (c.1998) Digital Ortho Quarter Quad Imagery, Digital Raster Graphics and associated Digital Line Graph features developed in partnership with the US Geological Survey.

Geospatial Data Discovery & Distribution

GIS Resource Links

The GEOhio Map and Data Services portal is maintained by OGRIP to provide access to Ohio's Spatial Data Infrastructure in the form of hosted map, image, and feature services, a customizable map interface, as well as links to State and Local Government mapping resources and spatial data download applications.

GEOhio Spatial Data Discovery Portal

http://geohio.maps.arcgis.com/

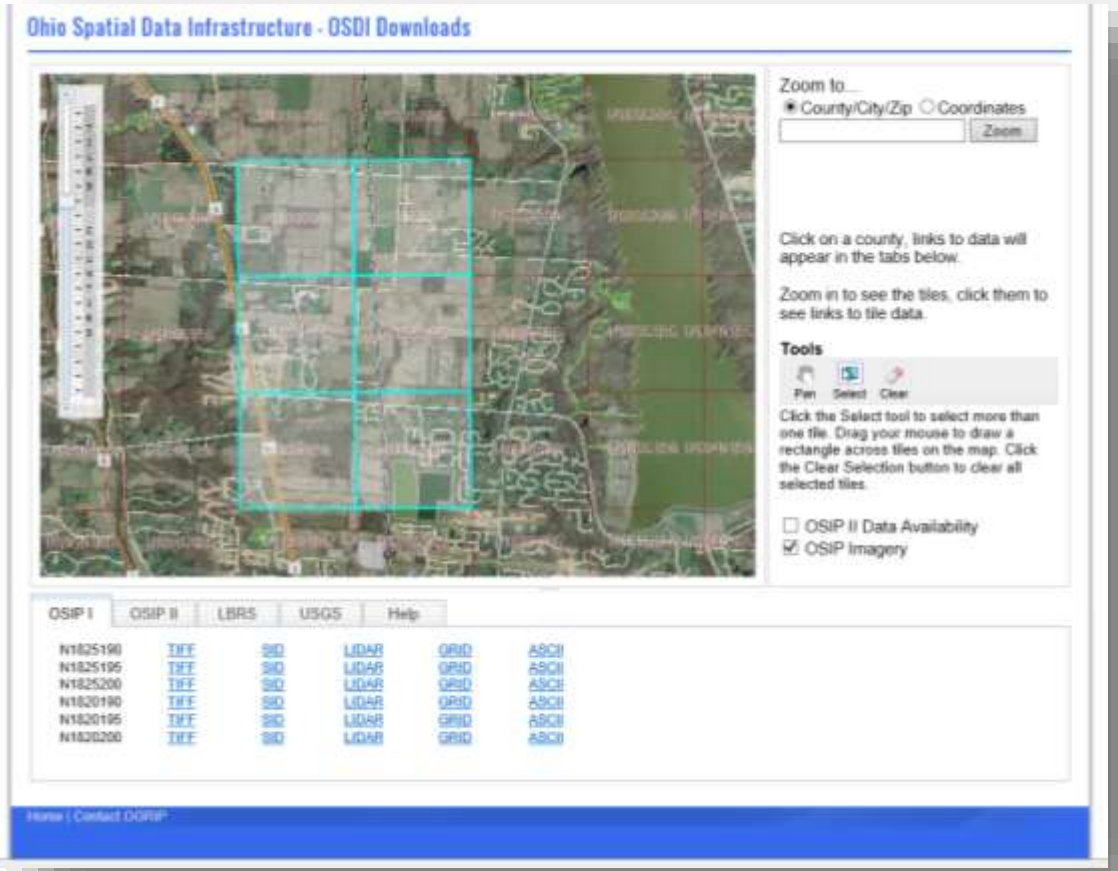
Geospatial Data Discovery & Distribution

OGRIP Data Downloads

OSIP Imagery, LiDAR and Elevation

LBRS Street Centerlines, Site Addresses and ancillary source data maintained by County partners.

Historic (c.1998) DOQQ Imagery, Digital Raster Graphics and associated Digital Line Graph features



GEOhio Spatial Data Discovery Portal

http://gis5.oit.ohio.gov/geodatadownload

Geospatial Data Discovery & Distribution

REST Service Endpoints

Services support desktop mapping and web-based GIS applications.

Data hosted on GEOhio is developed and maintained by State and local government supporting enterprise level applications developed for the State of Ohio

GEOhio Spatial Data Discovery Portal

Ohio Spatial Data Infrastructure - REST Service Endpoints

Basemaps

Name	Type	Service URL	WMS
ODOT LBRS Street Centerlines Web Mercator	tiled	MapServer	Link
ODOT Transportation Information Mapping System	tiled	MapServer	NA
WM_OH	tiled	MapServer	Link

Boundaries

Name	Type	Service URL	WMS
Boundary Data	dynamic	MapServer	NA
Ohio House and Senate Districts	dynamic	MapServer, FeatureServer	NA
School Districts / School Facilities / CTPD	dynamic	MapServer, FeatureServer	NA
US Congressional Districts	dynamic	MapServer, FeatureServer	NA

Geocoding Locator

Name	Type	Service URL	WMS
OGRIP Locator Service	geocode	GeocodeServer	NA
OGRIP Locator2	geocode	GeocodeServer	NA

Imagery

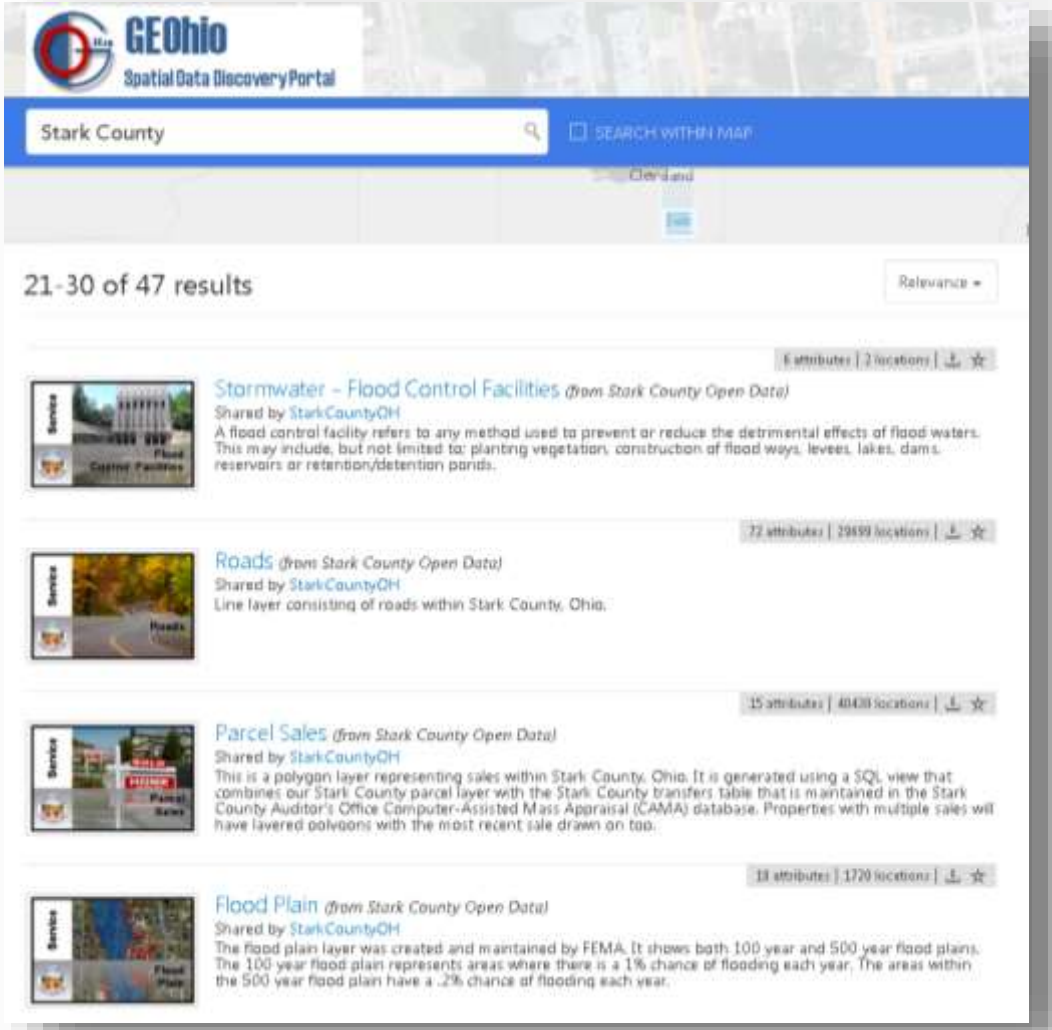
Name	Type	Service URL	WMS
Ohio EPA River Mile Maps	image	ImageServer	NA

http://ogrip.oit.ohio.gov/ServicesData/GEOhioSpatialInformationPortal/RESTServiceEndpoints.aspx

Geospatial Data Discovery & Distribution

Open Data Search Tool

Providing access to data maintained by State and Local Government and the ability to download vector data in multiple file formats.



GEOhio
Spatial Data Discovery Portal

http://ogrip.geohio.opendata.arcgis.com/

OGRIP

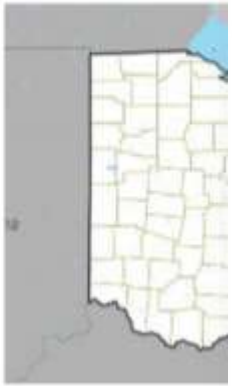
OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM

Welcome to the GEOhio S

OGRIP has expanded the County GIS Profile Survey to include
a mechanism for a State or Local spatial Data Provider to list
data assets with members of the GIS user community. The go
publishing, ease of access and use of open geospatial data by

A. If you are a data provider with an active OpenData si
Portal to your OpenData site.
B. If you host map services you can provide a link that
C. If you offer access to spatial data for download you
your website or download page.
D. If you do no provide online access to your data and
provide access to only your preferred point of contac

Regardless of the mechanism you employ for sharing data, par
broader group of GIS users to ensure that the data you maint
provide and the information you choose to share is up to you.
Survey is voluntary and information provided through the surv
of statewide spatial data assets of benefit to all GIS users.



GEOhio
Spatial Data Discovery Portal

GEOhio Spatial Information Survey

↓ Take the Survey

Identify your Jurisdiction

Choose your jurisdiction type, navigate the map, and click to identify the jurisdiction you are representing.

- County
- City/Village
- Township
- Region
- State
- Other

State of Ohio

If your jurisdiction is not shown in the map, please click other and enter the name in the box below.

If you are only representing part of your jurisdiction, please enter your department, agency, section or office na

Enter your contact information

Full Name:	Jeff Smith
Title:	GIO
Organization:	State of Ohio
Mailing Address:	77 S High St
Mailing City:	Columbus
Mailing Zip:	43215
Phone: (999-999-9999)	614-466-8862
Email:	jeff.smith@ohio.gov
Website:	http://ogrip.oit.ohio.gov
Password:	********
Re-enter Password:	********

GEOhio Spatial Information Survey

Please Identify how you will share your data

You have an Open Data site Group Name.

ORGIP Open Data Pending remove

Add...

You have existing REST services.

Service URL(s): http://gis5.oit.ohio.gov/ArcGIS/services

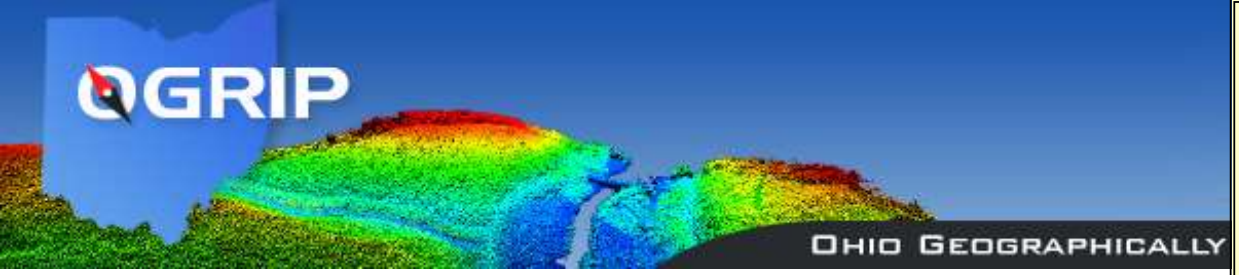
You have online access to downloads.

Website:

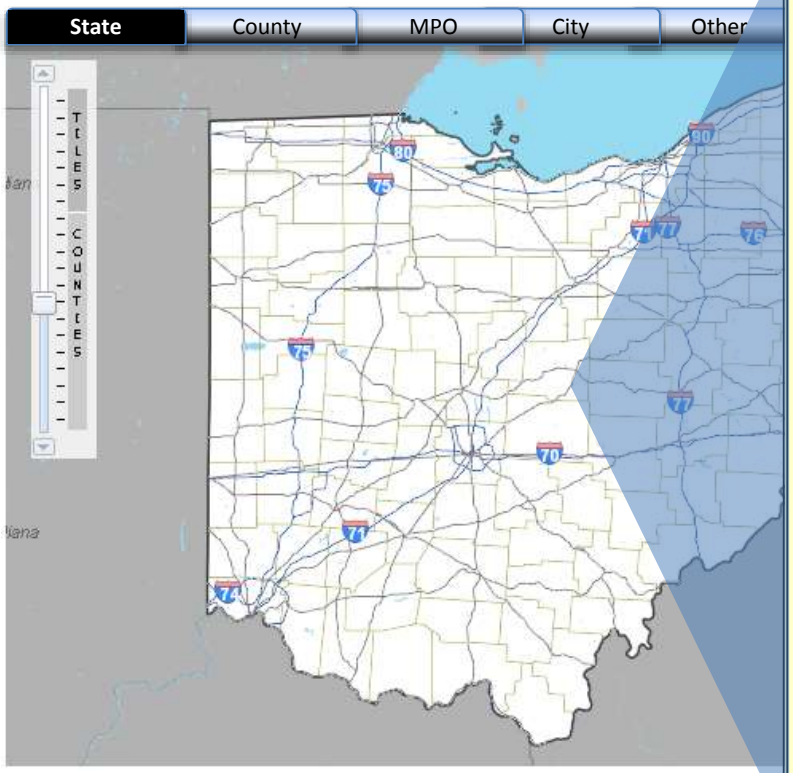
You have contact information for your data.

Website:	http://ogrip.oit.ohio.gov
Name:	Jennifer McFarland
Telephone:	614.644.0635
Email:	Jennifer.McFarland@das.ohio.gov

http://gis5.oit.ohio.gov/geohiosurvey/Default.aspx



GEOhio Spatial Data Discovery Portal



State Of Ohio

OGRIP

Website: http://ogrip.oit.ohio.gov/

Open Data Group Name: OGRIP Open Data

REST Services:
http://ogrip.oit.ohio.gov/ServicesData/GEOhioSpatialInformationPortal/RESTServiceEndpoints.aspx

Data Downloads:
http://ogrip.oit.ohio.gov/ServicesData/GEOhioSpatialInformationPortal/OhioSpatialDataInfrastructureDownloads.aspx

Contacts:

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GIS Administrator
77 S High St 19th Flr
Columbus OH 43215
614-466-8862
Jeff.smith@ohio.gov

Jennifer McFarland
Jennifer.McFarland@das.ohio.gov

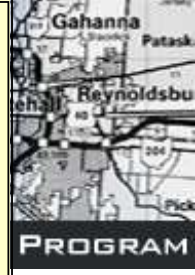
ODOT

Website: http://gis.dot.state.oh.us/tims

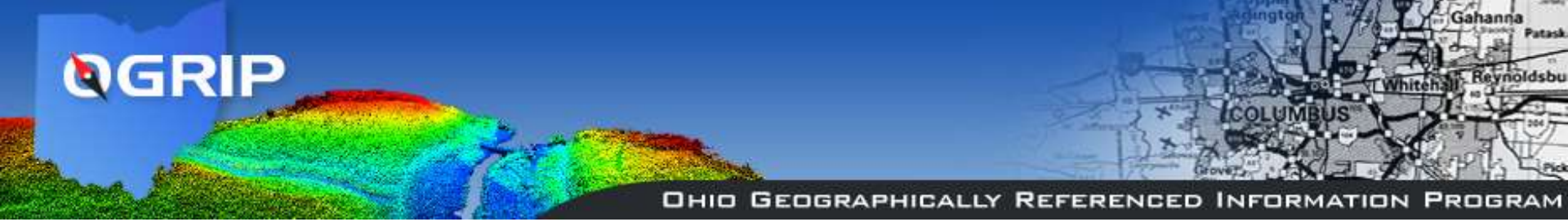
Downloads:
http://gis.dot.state.oh.us/tims/Data/Download

Contacts:

Dave Blackstone
GIS Manager
1980 W Broad St
Columbus, OH



GEOhio Spatial Data Discovery Portal



Ohio Department of TAXATION Onlineservices

The Finder > Tax District Summary > Lookup By Address > Results

Sales & Use Tax:
For sales and use tax purposes, in conformity with the Streamlined Sales Tax Agreement and the Mobile Telecommunications Sourcing Act, vendors and sellers may rely on this information for use in the collection of sales or use tax based on the date used for the search. By providing this information, neither the State of Ohio nor the Ohio Department of Taxation assumes any liability for any errors or omissions, or in any other respect. If you feel there is an error or have questions regarding the information you have received, please e-mail the Department of Taxation at TheFinderHelp@tax.state.oh.us.

School District, Municipal:
Please note that this system does not provide information on municipal income taxes that may apply in portions of townships within a joint economic development district ("JEDD") or a joint economic development zone ("JEDZ"). Neither the State of Ohio nor the Ohio Department of Taxation assumes any liability for any errors or omissions in the data provided by this system, or in any other respect. That said, if a school district income tax filing error occurs because of incorrect information provided by this system, the Department of Taxation will waive the penalty that would have been imposed based on school district income tax liability. On the other hand, the Ohio Department of Taxation cannot waive additional tax or interest that results from such errors, and penalties imposed by a municipality must be resolved with the appropriate taxing authority.
After receiving tax jurisdiction information for your address in The Finder, it is a good idea to verify this information with the appropriate municipality or county auditor even if no tax liability is indicated. If you feel there is an error or have questions regarding the information you have received, please e-mail the Department of Taxation at TheFinderHelp@tax.state.oh.us.

Lookup By Address

The system has successfully matched the address you entered:

Input Address (Modify)	
Address:	5100 Upper Metro Place
Suite, Apt, Lot:	
City:	
State:	Oh
Zip Code:	43017-

Found Address	
Address:	5100 UPPER METRO PL
Suite, Apt, Lot:	
City:	DUBLIN
State:	OH
Zip Code:	43017-3384
Physical City:	DUBLIN

Sales and Use Tax

County	State Tax Rate	County Tax Rate	Transit Tax Rate	Total Tax Rate
Franklin with transit:	**5.75%**	**1.25%**	**0.50%**	**7.50%**

School District Income Tax

DUBLIN CSD (2513): 0.00%

Municipal Income Tax

DUBLIN (22694): 2.00%

OGRIP

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
SHARED SERVICES
Web Services / Map Services / Application Hosting

Enterprise Geocoding / Address Standardization Services / Streamlined Sales Tax

- Tier 1 - Master Address File
  - Field Verified Site Address
  - County Auditor Parcel Address
- Tier 2 – Centerline Interpolation
- Spatial Look-ups –City, County, School, Census, Legislative, Public Safety District, etc

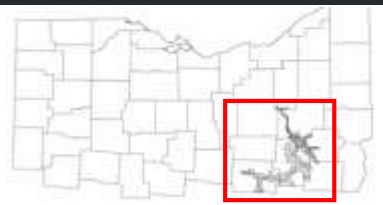
Basemaps / Cached and Dynamic

- ODOT Boundaries, Facilities, Transportation
- ODNR Streams, Soils, Geology
- OSIP Imagery, Digital Elevation Models
- 7.5’ Topo & Rivermile maps

Application Support and Hosting

- The Finder
- Earth Resources Information Network
- BUSTR
- Urban Development
- Housing Finance Authority
- Legislative Lookup
- BMV

OSIP Supporting Critical Infrastructure Protection and Emergency Response



Huntington Army Corps of Engineers Tuscarawas and Muskingum Rivers *

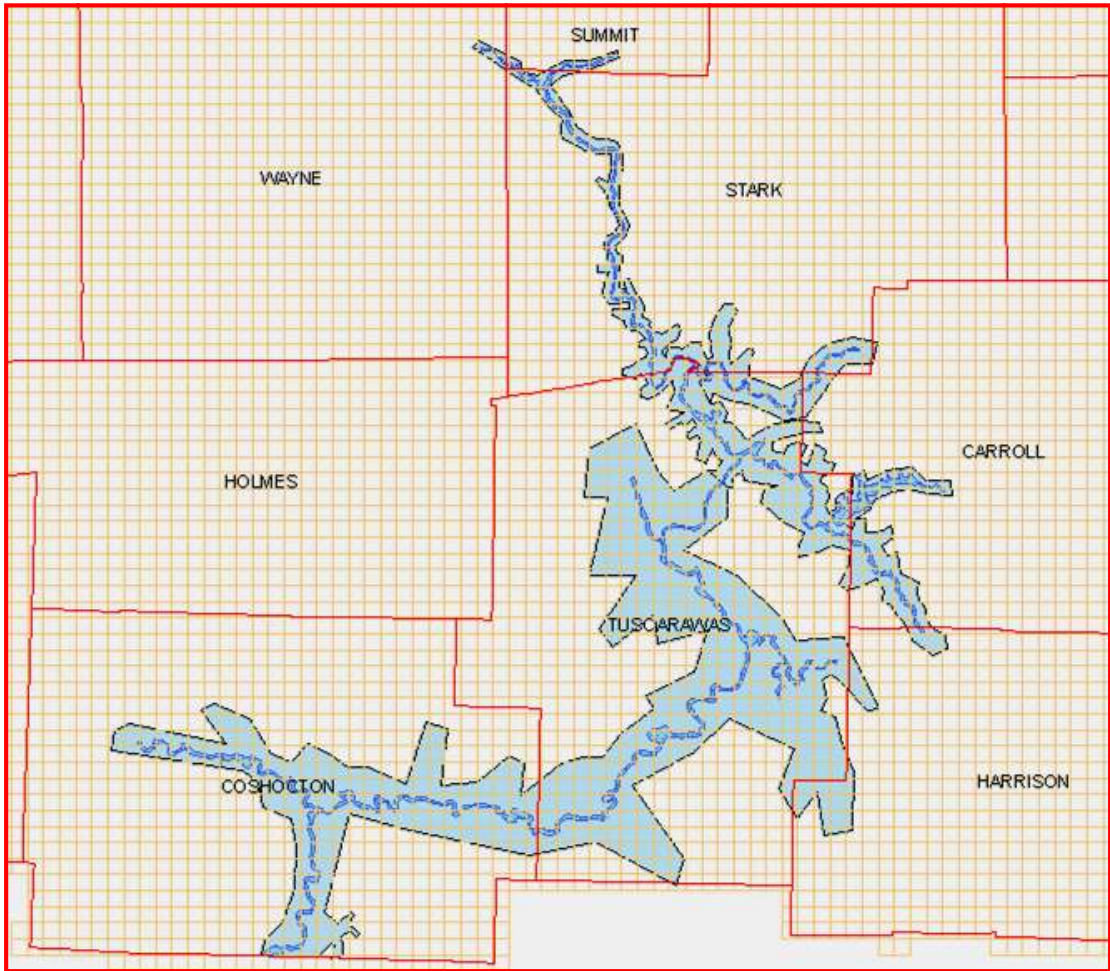
Flood Control Projects
- Bolivar Dam
- Dover Dam
- Mohawk Dam
- Beach City Dam
- Zoar Levy

Modeling
- Dam failure
- Down stream impact
- Emergency response/operations

Environmental Study
- Stream Bank Erosion

Deliverables
- DTM
- Hydro
- Bridges

** OSIP Data Reduced Project Cost: From $150K to $65K*
OSIP Data Reduced Schedule: From 9 months to 3 months



OSIP Supporting Infrastructure Planning and Development

Ohio Turnpike

Utilizing OSIP data to create a seamless GIS data program

Estimated cost savings

- ~45%

Estimated time savings

- 8-10 months

OSIP Supporting Local Government Infrastructure Planning and Development

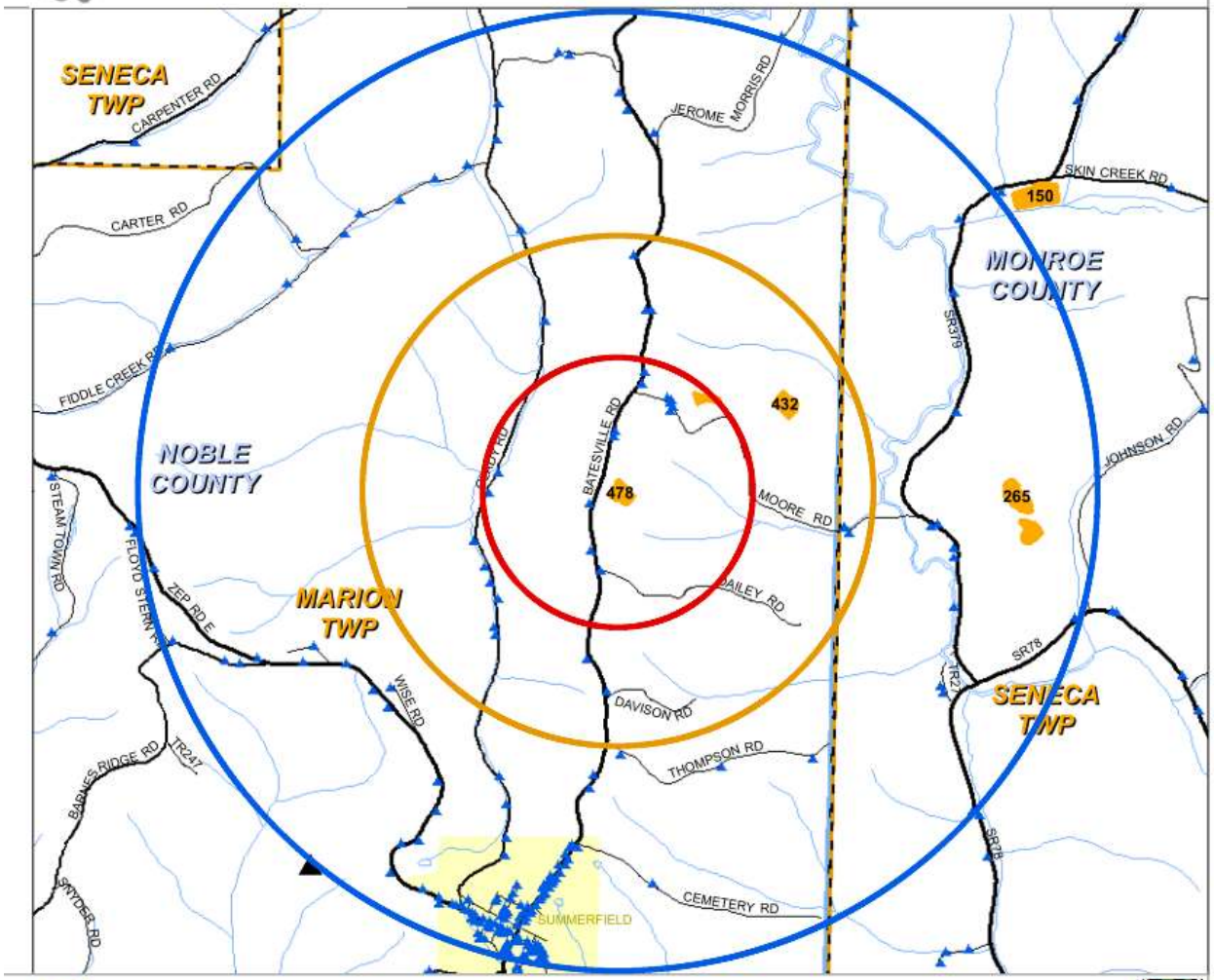
Impervious Surface Program
Columbus, Ohio

- Provides a higher level of accuracy
- Large reduction in potential human error
- Offers a more consistent and fair approach
- Provides a more cost effective approach
- Provides a shorter completion timeframe

OSIP Color Infra-red Ortho Analysis

OHIO DEPARTMENT OF PUBLIC SAFETY
SAFETY · SERVICE · PROTECTION

Two Mile Stand-off



Pad ID
NOB-478

Addressable Structures
ProcessingPlants
Well Pad Boundaries
Township Line
County Line

OHIO EMERGENCY MANAGEMENT AGENCY

3,000' RESPONE ZONE HORIZONTAL WELL PAD ID 478

PAD FEATURES

- Unclassified
- Building
- Casualty Collection Point
- Containment Point
- Command Post
- MSDS Chem Sheets
- Egress Point
- Helicopter Land Zone
- Hazardous Material Storage
- Ingress Point
- Lock Box COMM Point
- Pad Drainage Outfall
- Road Block
- Staging Area
- Secondary Storage
- Water Source
- Ingress/Egress to Well Pad
- Well Pad Entry Roads
- Well Pad Boundaries
- Addressable Structures
- 3000' Pad Buffer
- Roads
- Township Line
- County Line

OHIO EMERGENCY MANAGEMENT AGENCY

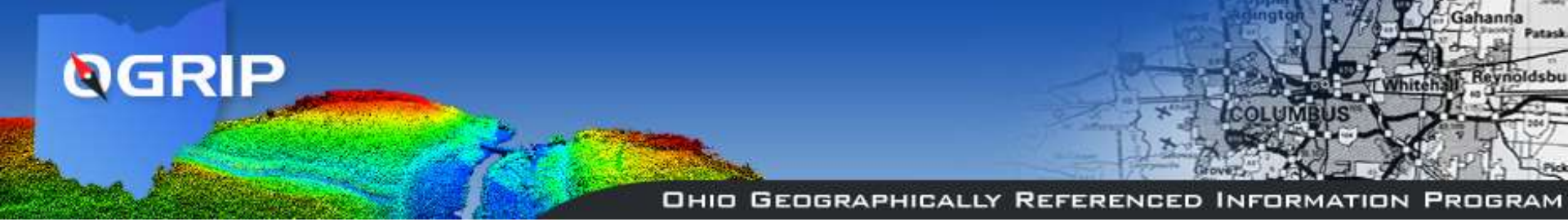
HORIZONTAL WELL
PAD ID 478

PAD FEATURES

- Unclassified
- Building
- Casualty Collection Point
- Containment Point
- Command Post
- MSDS Chem Sheets
- Egress Point
- Helicopter Land Zone
- Hazardous Material Storage
- Ingress Point
- Lock Box COMM Point
- Pad Drainage Outfall
- Road Block
- Staging Area
- Secondary Storage
- Water Source
- Ingress/Egress to Well Pad
- Well Pad Entry Roads
- Well Pad Boundaries
- Wellhead
- Addressable Structures
- Roads
- Township Line
- County Line

OSIP LiDAR Supports Flood Inundation Mapping

GISSC



Ohio Geographically Referenced Information Program

Questions

Jeff Smith
Email: Jeff.Smith@ohio.gov
Office Phone: 614.466-4747

Complaints

Dean Ringle, Franklin County Engineer
dringle@fceo.co.franklin.oh.us
Steve Stolte, Union County Commissioner
sstolte@co.union.oh.us

GEOhio
Spatial Data Discovery Portal

Federal Activities

- Addresses
  - National Address Database Summit
  - National Address Database (NAD)
  - Census Geographic Support System Initiative (GSS-I)
  - National Emergency Address Database (NEAD)
- Transportation (MAP21/ARNOLD)
- 3D Elevation Program (3DEP)
- Geospatial Data Act (GDA)
- National Hydrography Dataset (NHD)