State Geospatial Data Coordination Procedure

OHIO

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FEMA

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Ohio

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Purpose of the Procedure

Flood insurance studies search for geospatial data during pre-scoping and scoping tasks. If needed data are not available, studies might fund the collection of new data and would like to know about other organizations that might share in these costs. Detailed information about the role geospatial data coordination plays in studies is in the *Geospatial Data Coordination Implementation Guide*, which is available at <https://hazards.fema.gov/femaportal/docs/GeoDataImplem_V3.pdf>, and in *Scoping Guidelines: Pre-scoping and the Scoping Meeting*, which is available through the Regional Support Center (RSC).

Resources developed through FEMA's geospatial data coordination activities provide information about data and contacts for organizations that have geospatial data that cover large areas (like states) in which many studies are interested. Studies can avoid wasting time with dead-end searches and cold calls by starting with these proven sources of information.

One resource is this Geospatial Data Coordination Procedure. It outlines sources of geospatial data and contact information, preferences for base map data and state geospatial participation in studies, and other useful information for the State.

If you have questions about this procedure or other geospatial data coordination resources, contact the geospatial data coordination lead in your Regional Support Center:

Brian Killen, Geospatial Data Coordination Lead
Region V Service Center
(312) 262-2283
brian.killen@starr-team.com

Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is an image base map (orthophoto).

Geospatial Data Coverage

Find below the information about and links to statewide (and Federal agencies' national) geospatial datasets. The list is provided to save time during pre-scoping and scoping activities when building a list of candidate geospatial datasets available for the study; it is not a prescription of datasets that must be used in a flood insurance study.

Major State Holdings

Orthophotos

Dataset name: Ohio Statewide Imagery Program (OSIP)
Data currentness: 2006 for northern half of state; 2007 for southern half of state.
Accuracy/Scale: 1:200 ft; +/- .5 ft.
Ground sample resolution: 1 foot pixel (28 counties have opted to receive 6 inch pixel)
Horizontal datum: NAD 83; US Survey Foot; Ohio has been divided into two zones, North and South. OSIP data products for each county are available the respective zone.
Fee associated? No.
Available for redistribution? Redistribution policy not available.
Dataset source: Ohio Geographically Referenced Information Program (OGRIP)
Dataset contact: Jeff Smith, Ohio Spatial Framework Data Manager
GIS Support Center - Ohio Office of Information Technology/Service Delivery Division/ Enterprise Shared Services; (614) 466-4747; jeff.smith@ohio.gov
Notes: Ohio has access to NAIP 04, NAIP 05, NAIP 06 and USGS DOQQ circa 1998.

Transportation (roads, railroads, and airports)

Dataset name: Location Based Response System (LBRS)
Data currentness: Varies by county
Accuracy/Scale: +/- 1 meter
Horizontal datum: NAD 83, feet
Fee associated? No.
Available for redistribution? Redistribution policy not available.
Are road names part of the dataset? Yes
Dataset source: http://gis1.oit.ohio.gov/geodatadownload/lbrs.aspx
Dataset contact: Jeff Smith, Ohio Spatial Framework Data Manager
GIS Support Center - Ohio Office of Information Technology/Service Delivery Division/ Enterprise Shared Services; (614) 466-4747; jeff.smith@ohio.gov

Dataset name: ODOT Roadway Inventory
Data currentness: Updates annually
Accuracy/Scale: Digitzed from 1:24,000 scale USGS Quad sheets
Horizontal datum: NAD 83, meters
data is referenced to State plane coordinates, South Zone.
Fee associated? No.
Available for redistribution? Redistribution policy not available.
Are road names part of the dataset? Yes
Dataset source:
http://www.dot.state.oh.us/divisions/transsysdev/innovation/prod_services/esridwnloads/Pages/default.aspx
Dataset contact: Dave Blackstone, Manager, ODOT/Office of Technical Services; (614) 466-2594; Dave.Blackstone@dot.state.oh.us

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: National Hydrography Dataset
Data currentness: 1999-2010

Accuracy/Scale: high resolution - 1:24,000 scale
Horizontal datum: NAD 83
Fee associated? No.
Available for redistribution? Redistribution policy not available.
Are hydrography names part of the dataset? Yes.
Dataset source: ftp://nhdftp.usgs.gov/DataSets/Staged/States/FileGDB/HighResolution/
Dataset contact: nhd@usgs.gov

Political boundaries (county, municipal)

Dataset name: County Boundaries - Statewide
Data currentness: 2000
Accuracy/Scale: 1:24,000 scale; digitized from USGS 7.5 Minute Quads; positional accuracy of 40 feet.
Horizontal datum: NAD 83, data is referenced to State plane coordinates, counties available in respective zones.
Fee associated? No
Available for redistribution? Redistribution policy not available.
Dataset source: Ohio Department of Natural Resources, Office of Information Technology; available online at http://www.dnr.state.oh.us/gims/ or http://geodata.oit.ohio.gov/metadataexplorer/explorer.jsp
Dataset contact: David Crecelius, GIMS Administrator, Office of IT; (614) 265-6776; dave.crecelius@dnr.state.oh.us
Notes: These files were developed from the 1:24K DLG boundary layer; a few instances with hand digitizing where small missing line segments were found. For details, please go to http://www.dnr.state.oh.us/gims/.

Dataset name: School District Boundaries - Statewide
Data currentness: 2007
Accuracy/Scale: Varies
Horizontal datum: NAD 83, data is referenced to North American Geographic Coordinate System Decimal Degrees.
Fee associated? No.
Available for redistribution? Redistribution policy not available.
Dataset source: Ohio Department of Education/OGRIP
http://geodata.oit.ohio.gov/metadataexplorer/explorer.jsp
Dataset contact: Karlyn Geis, Data Manager, Ohio Department of Education; (614) 466-9208; karlyn.geis@ode.state.oh.us
Notes: These files were developed from the 1:100K TIGER School District boundary layer; The layer has been maintained using locally developed data through OGRIP and Cleveland State University and provided to the Department of Census for their School District Boundary updates.

Publicly owned lands (national, state, and local parks, forests, etc)

Dataset name: DNR State Lands
Data currentness: 2006
Accuracy/Scale: Varies
Horizontal datum: NAD 83
Fee associated? No

Available for redistribution? Redistribution policy not available
Dataset source: Department of Natural Resources
Dataset contact: David Crecelius, GIMS Administrator, Office of IT; (614) 265-6776; dave.crecelius@dnr.state.oh.us

Public land survey system (PLSS) (township and section lines)

Dataset name: Township Boundaries
Data currentness: 2002.
Accuracy/Scale: 1:62,500 scale; derived from the Map of Ohio showing original land subdivisions. A positional accuracy of + - 40-100 feet exists. The PLSS subdivisions contain townships, ranges, and sections.
Horizontal datum: NAD 83
Fee associated? No.
Available for redistribution? Redistribution policy not available.
Dataset source: http://www.dnr.state.oh.us/gims/
Dataset contact: David Crecelius, GIMS Administrator, Office of IT; (614) 265-6776; dave.crecelius@dnr.state.oh.us

Cadastral (parcels)

No statewide cadastral coverage is currently available.

Terrain (elevation)

Dataset name: Ohio 10 Meter Digital Elevation Model
Data currentness: 2004
Accuracy/Scale: 1:24,000 scale; 7.5 Minutes USGS DEM data in SDTS format.
Vertical datum: NAVD 88
Fee associated? No.
Available for redistribution? Redistribution policy not available.
Dataset source: Available online at ftp://ftp-gis.epa.state.oh.us/gisdepot/gisdata/derr/ohio_10meter_dem.zip or http://geodata.oit.ohio.gov/metadataexplorer
Dataset contact: Brian Gara, Ohio EPA; 614-644-2001
Notes: The Ohio Elevation Dataset was generated by merging individual DLG 7.5-minute quadrangle contours into shapefiles 20 - 30 quadrangles in size, gridding the results, and mosaicking the individual grids into a single statewide 10-meter gridded file.

Useful Risk MAP Discovery Data Sources

Preliminary information on Discovery data sources is provided in this document to reduce the level of effort needed on each subsequent Discovery data collection effort. Coordination with local community sponsors for additional local data still remains an integral part of Discovery and local data should be used where appropriate.

The National Geospatial Data Coordination Procedure document contains information on data resources available from other Federal agencies (OFAs), including those that FEMA maintains at the national level, and should be used in conjunction with this State Geospatial Data Coordination Procedure document. In addition, FEMA and its contractors have created a geospatial Discovery Data Repository to host data that are not readily

accessible through direct sources such as Web sites or subscription services and/or are not updated on a frequent basis. Instructions on accessing the Discovery Data Repository are given in the national Geospatial Data Coordination Procedure document.

Table 1 identifies data resources that are available at the regional and State levels, and also if there are no data available other than the national datasets. Resources in this table have been identified as appropriate for Discovery projects and may not represent the best data sources for FIRM production (please see the Preferred Base Map Sources section of this document for geospatial data that meets FIRM production requirements).

Table 1. Discovery Data Resources

Data	Data Source	Location
Watershed boundaries	National	Discovery Data Repository
Jurisdictional boundaries	National	Discovery Data Repository
Tribal land boundaries	National	Discovery Data Repository
State lands	Regional/State/Local	
Federal lands	National	Discovery Data Repository
Major roads	Regional/State/Local National	Discovery Data Repository
Streams	Regional/State/Local National	Discovery Data Repository
Coastal Barrier Resource Areas	National	Discovery Data Repository
Coordinated Needs Management Strategy	National	See National Operating Procedure
Topographic/ bathymetric data	National	See National Operating Procedure
AAL data from HAZUS	State	https://starrtrac.pbsjteamaccess.com/library/AAL/Forms/AllItems.aspx Contact the RSC if help is needed retrieving the data.
Coverage areas for known community and Tribal risk assessment data	Regional/State/Local	
Status of Hazard Mitigation Plans	Regional	Richard.Foody@fema.dhs.gov
Flood control structure data	National	See National Operating Procedure
Locations of stream gages	National	Discovery Data Repository
Locations of past flood claims and repetitive loss properties	CIS Report	Contact the geospatial data coordination lead at your RSC referenced earlier in this document.
Locations of clusters of Letters of Map Change	National	See National Operating Procedure

Data	Data Source	Location
Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database	Regional/State/Local	
Areas of planned development	Regional/State/Local	
Areas of land use change datasets	National Regional/State/Local	
Locations of ongoing projects or updated stream studies (e.g. highway improvements)	Regional/State/Local	
Locations of wave and tide gauges	National	N/A
Locations of wind gauges	National	N/A
Proposed inland limit of the Primary Frontal Dune, if present	Regional/State/Local	N/A
Locations of any beach nourishment or dune restoration projects	SLOSH Zones	N/A
Comparison of preliminary stillwater elevations with effective stillwater elevations	Regional/State/Local	
Available effective study data	National	See National Operating Procedure
Orthophotography	National	See National Operating Procedure
Proposed discussion areas, problem areas, areas of proposed mitigation projects	Regional/State/Local	
Land use and soil information	Land Use Soils	 See National Operating Procedure
Reference points to locate areas with flooding issues	Regional/State/Local	
Hydraulic structures	Culverts Levees, Dams, Bridges	Regional/State/or Local See National Operating Procedure
Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data	Regional/State/Local	N/A

Data	Data Source	Location
Local structure and topographic data from the existing hazard mitigation plans	Regional/State/Local	
Historic inundation areas and high water marks	Historic Riverine Inundation Areas Storm Surge Inundation Areas High Water Marks	See National Operating Procedure See National Operating Procedure Regional/State/ or Local
Clusters or locations of Individual Assistance/Public Assistance grants and locations of grant projects completed, planned, or underway	National	See National Operating Procedure
Locations of projects and structures completed or planned for FEMA Hazard Mitigation Assistance grant programs or mitigation funds from other agencies or entities, such as the Small Business Administration	National	See National Operating Procedure
Other information on FEMA grants, as described in G&S Appendix I	Regional/State/Local	HMA Tracking Tool
Any data deficiencies identified in hazard mitigation plans	Regional/State/Local	
Information from FloodSmart on market penetration	FEMA	http://www.floodsmart.gov/floodsmart/
Community Assistance Visits / Community Assistance Contacts	National	Discovery Data Repository
Community Rating System class information	National	See National Operating Procedure
Information from other Federal agencies	National Only	See National Operating Procedure
Information from State agencies, non-profit organizations, universities, etc.	Regional/State/Local	
Current community plans, ordinances, or programs to alleviate flooding or manage stormwater	Regional/State/Local	

Data	Data Source	Location
Other known hazards with geographical boundaries (e.g. earthquake faults)	Tsunami Landslide Volcanic Eruptions Wildfire	Discovery Data Repository Discovery Data Repository Discovery Data Repository Discovery Data Repository
Information on active disasters	Regional/State/Local	Rusty.Rickart@fema.dhs.gov
Campgrounds, recreational areas, emergency access routes, etc.	National	Discovery Data Repository
Federal Grants Pre /Post Disaster	Regional	Greg.Tatara@fema.dhs.gov
Critical Facilities	Regional	Lee.Traeger@fema.dhs.gov

Data Distribution Process for State Data

Currently the processes vary from state agency to state agency. OGRIP is positioning GIServOhio to be the central repository for spatial metadata. GIServOhio is a service-oriented architecture to deliver spatial data resources, applications and services to end users and client applications. GIServOhio can be access through http://geodata.oit.ohio.gov/metadataexplorer/explorer.jsp.

Federal Nationwide Geospatial Data Holdings

Information about nationwide holdings and programs of Federal agencies is available from the Mapping Information Platform web site at <https://hazards.fema.gov/femaportal/docs/ProgFacts.pdf>.

Finding and Accessing Other Existing Geospatial Data

Find below the information about and links to ways of searching for additional geospatial data available for the State. These capabilities can be useful for finding geospatial data other than the statewide and Federal data listed above, including those of special governments, counties and parishes, municipalities, tribes, universities, and other organizations.

Clearinghouses and Inventories for the State

Ohio Department of Natural Resources: Geographic Information Management System (GIMS) is a term used by the ODNR to describe a collection of related technologies used to manage spatial data. The goal of the GIMS program is to provide natural resource information to the public in a more efficient and effective manner. Please refer to http://www.dnr.state.oh.us/gims/default.htm for additional details.

GIServOhio: GIServOhio is a service-oriented architecture to deliver spatial data resources, applications and services to end users and client applications. GIServOhio consists of hardware and software to deliver these services. It can be accessed through http://geodata.oit.ohio.gov/metadataexplorer/explorer.jsp

Ohio Department of Transportation: See http://www.dot.state.oh.us/divisions/transsysdev/innovation/prod_services/esridwnloads/Pages/default.aspx

National Digital Orthophoto Program (NDOP) and National Digital Elevation Program (NDEP) Tracking Systems

These systems allow the search of orthophoto and elevation project information entered by federal and other organizations. To access the NDOP system, go to the NDOP web site at <http://www.ndop.gov> and follow the link "Project Tracking." For the NDEP system, go to the NDEP web site at <http://www.ndep.gov> and follow the link "Project Tracking."

TED Query Tool

This tool provides access to information about Federal, state, and local government agency and private sector data holdings gathered by the Census Bureau. It is available through the geospatial data coordination lead at the Regional Support Center.

Geospatial One-Stop

Geospatial One-Stop, available at <http://www.geodata.gov>, provides access to geospatial data from many sources. Two parts of the site that should be investigated are the "data categories" for existing data and the "marketplace" for data that are planned or in-work and for potential partners for new data collection activities.

Working with People

Useful State and Federal Contacts

The main contacts for the State's geospatial activities and Federal agencies' representatives in State are available on the Mapping Information Platform web site at <https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=OH>

OGRIP (Ohio Geographically Referenced Information Program) Council serves as the primary coordinating body for spatial and geographic information initiatives between federal, state, regional, and local governments. Please refer to http://ogrip.oit.ohio.gov/ for additional details.

Involving the State's Geospatial Coordinator in Flood Studies

In order to participate in the FEMA flood hazard mapping effort, please contact Christopher Thoms, CFM, Ohio Department of Natural Resources, Division of Water, 2045 Morse Road, Building B-2, Columbus, Ohio 43229; phone (614) 265-6752; christopher.thoms@dnr.state.oh.us

State Coordination Process for Building Geospatial Partnerships

OGRIP (Ohio Geographically Referenced Information Program) Council and Geographic Information System Service Center (GISSC) are focused on collaboration of digital spatial data and data sharing throughout Ohio. There are five state agencies and eight at-large representatives on the Governor's appointed OGRIP Council on behalf of private utilities, academia, county, and municipal government. The GISSC supports state agencies working with spatial data and location relationships.

Finding Local Geospatial Contacts

Local contacts, including those from special government districts (for example, a regional planning commission); counties, parishes, or equivalent governments; tribes, municipal governments; and other organizations (for example, local universities) also have geospatial data that can help a flood insurance study. Contact information is available from the FEMA archive and web searches at government link portals such as <http://www.statelocalgov.net>.

OGRIP maintains the Ohio GIS County Profile Survey that is available through http://ogrip.oit.ohio.gov/Coordination/CountyProfiles.aspx. The GIS County Survey is an inventory of county spatial data assets and GIS activities for the State of Ohio. Responses to the survey are voluntarily provided to OGRIP from local government GIS contacts representing the counties.

Provide Feedback on This Procedure

When you find information in this Procedure or in other FEMA or State resources that are outdated, please tell the geospatial data coordination lead in the Regional Support Center what was wrong and the correct information (if you know it). Use the contact information for the lead listed in the section Purpose of the Procedure.

The lead will use your feedback to update this Procedure.