State Geospatial Data Coordination Procedure

IDAHO

November 2018

Table of Contents

List of Tables

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 of 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 initiated. 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:

Marshall Rivers, Geospatial Data Coordination Lead
Region X Service Center
(425) 245-0843
marshall.rivers@atkinsglobal.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.

Datasets for DFIRM Production

Orthophotos

Dataset name: Aerial Photography
Data currentness: varied; 1930s-2000s
Accuracy/Scale: varied
Ground sample resolution: Varied
Horizontal datum: N/A - photo
Fee associated? No
Available for redistribution? Yes
Dataset source: Idaho Department of Water Resources
Metadata: N/A
Data download: https://data-idwr.opendata.arcgis.com/pages/gis-data
Dataset contact: Idaho Department of Water Resources

Transportation (roads, railroads, and airports)

Dataset name: All Idaho Roads
Data currentness: Basemap roads data is current through 20181031
Accuracy/Scale: Not Specified
Horizontal datum: Unknown – metadata is not robust and currently, data is unable to be downloaded despite the download toggle.
Fee associated? No
Available for redistribution? Yes
Are road names part of the dataset? No
Dataset source: Idaho Enterprise Open Data Portal gis.itd.idaho.gov
Data download: http://data.gis.idaho.gov/datasets/IPLAN::all-idaho-road
Dataset contact: Not Specified

Dataset name: Rails National Shapefile
Data currentness: 20150914
Accuracy/Scale: Not Specified
Horizontal datum: NAD 83. Fee associated? No.
Available for redistribution? Yes Are names part of the datasets? Yes
Dataset source: US Census Bureau
Metadata: https://catalog.data.gov/harvest/object/518ff0b3-1b91-4faf-9169-05c077f7c943
Data download: https://catalog.data.gov/dataset/tiger-line-shapefile-2015-nation-u-s-rails-national-shapefile
Dataset contact: Not Specified

Dataset name: National Bridge Inventory
Data currentness: 20171030
Accuracy/Scale: Need account to access data
Horizontal datum: NAD 83
Fee associated? Need account to access data
Available for redistribution? Yes
Are names part of the datasets? Yes
Dataset source: Federal Highway Administration
Data download:
https://www.arcgis.com/home/signin.html?returnUrl=https%3A//www.arcgis.com/home/item.html%3Fid%3D775f08232eb1424189a4e8091edf893e
Dataset contact: Not Specified

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: National Hydrography Dataset and Watershed Boundary Dataset
Data currentness: The 1:24,000-scale was completed in 2007 for the NHD; the WBD was completed 20081202
Accuracy/Scale: 1:24,000-scale for both the NHD and the WBD
Horizontal datum: Dataset is at national level; check with area chosen to download.
Fee associated? No.
Available for redistribution? Yes
Are hydrography names part of the dataset? Yes
Dataset source: United States Geological Survey
Data Download (USGS): https://www.usgs.gov/core-science-systems/ngp/national-hydrography/access-national-hydrography-products
Data Download (ID): https://idwr.idaho.gov/GIS/NHD/datasets.html
Dataset contact: (ID):
Danielle Favreau, Idaho Department of Water Resources
(208) 287-4800
nhd.wbd@idwr.idaho.gov

Dataset name: Dams of Idaho
Data currentness: Created 20161115, updated: 20181128
Accuracy/Scale: Not Specified
Horizontal datum: WGS 84
Fee associated? No.
Available for redistribution? Yes
Are hydrography names part of the dataset? Yes
Dataset source: Idaho Department of Water Resources
Metadata:https://www.arcgis.com/sharing/rest/content/items/e163d7da3b84410ab94700a92b7735ce/info/metadata/metadata.xml?format=default&output=html
Data download: https://data-idwr.opendata.arcgis.com/datasets/dams-of-idaho
Dataset contact: Idaho Department of Water Resources
(208) 287-4800
gisinfo@idwr.idaho.gov

Dataset name: Lakes
Data currentness: Current as of 1996
Accuracy/Scale: 1:250,000
Horizontal datum: NAD 83
Fee associated? No.
Available for redistribution? Yes
Are hydrography names part of the dataset? Yes
Dataset source: Idaho Department of Water Resources
Metadata:https://research.idwr.idaho.gov/gis/GISScripts/metadata.aspx?md=Spatial/Hydrography/streams_lakes/c_250k/lake_250.shp.xml
Data download: https://data-idwr.opendata.arcgis.com/pages/gis-data

Dataset contact: Geospatial Technology
(208) 287-4800
gisinfo@idwr.idaho.gov

Note: The Idaho Department of Water Resources is making this data available as a public service. The Idaho Department of Water Resources strives to ensure that all technical data and other information made available to the public is accurate, complete and in conformance with the Idaho Public Records Act. Neither the Department of Water Resources nor the State of Idaho, however, assumes any legal responsibility for the accuracy or completeness of the information contained on this site. Persons using information from this site for official purposes, or other purposes, for which accuracy and completeness are required, are hereby notified that they should first verify the information with the public records or other primary sources from which the information was obtained.

Dataset name: Rivers | Hydrography for Idaho
Data currentness: Current as of 1996
Accuracy/Scale: 1:250,000
Horizontal datum: NAD 83
Fee associated? No.
Available for redistribution? Yes
Are hydrography names part of the dataset? Yes
Dataset source: Idaho Department of Water Resources
Metadata:
https://research.idwr.idaho.gov/gis/GISScripts/metadata.aspx?md=Spatial/Hydrography/streams_lakes/c_250k/hyd250.shp.xml
Data download: https://data-idwr.opendata.arcgis.com/pages/gis-data
Dataset contact: Geospatial Technology
(208) 287-4800
gisinfo@idwr.idaho.gov

Note: The Idaho Department of Water Resources is making this data available as a public service. The Idaho Department of Water Resources strives to ensure that all technical data and other information made available to the public is accurate, complete and in conformance with the Idaho Public Records Act. Neither the Department of Water Resources nor the State of Idaho, however, assumes any legal responsibility for the accuracy or completeness of the information contained on this site. Persons using information from this site for official purposes, or other purposes, for which accuracy and completeness are required, are hereby notified that they should first verify the information with the public records or other primary sources from which the information was obtained.

Political boundaries (county, municipal)

Dataset name: Counties
Data currentness: 20180817
Accuracy/Scale: Not Specified
Horizontal datum: WGS 84
Fee associated? No
Names? Yes
Available for redistribution? Yes
Dataset source: ~~http://data.gis.idaho.gov/datasets/IdahoDEQ::counties~~
http://data.gis.idaho.gov/search?q=counties
Dataset contact: None specified

Note: Restriction of Liability: Neither the State of Idaho nor the Idaho Department of Environmental Quality, nor any of their employees make any warranty, express or implied, or assume any legal liability or responsibility for the accuracy, completeness or usefulness of any information or data provided. Metadata is provided for all data sets, and no data should be used without first reading and understanding its limitations. The data could include technical inaccuracies or typographical errors. The Department of Environmental Quality may update, modify, or revise the data used at any time, without notice.

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

Dataset name: State Land Ownership
Data currentness: Stated as updated frequently but no precise date given.
Accuracy/Scale: Not Specified
Horizontal datum: NAD 83.
Fee associated? No.
Available for redistribution? Yes.
Dataset source: Idaho Department of Lands; See "Ownership" section at
https://www.idl.idaho.gov/maps-land-records/data-download.html
Dataset contact: None Specified

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

Dataset name: PLSS (Public Land Survey System) Townships
Data currentness: 20170215
Accuracy/Scale: Not Specified
Horizontal datum: WGS 84
Fee associated? No.
Available for redistribution? Yes.
Dataset source: Idaho Department of Natural Resources https://data-idwr.opendata.arcgis.com/datasets/5393de827d504137afc40fd291c824b1_0
Dataset contact: Geospatial Technology Section GIS
322 East Front Street Boise ID 83720
(208) 287-6700
gisinfo@idwr.idaho.gov

Dataset name: PLSS (Public Land Survey System) Sections
Data currentness: compiled in 2016/2017; beginning 20170215
Accuracy/Scale: Not Specified
Horizontal datum: WGS 84
Fee associated? No.
Available for redistribution? Yes.
Dataset source: Idaho Department of Natural Resources https://data-idwr.opendata.arcgis.com/datasets/b79dd1d6c7f44c98957d1ac277667563_1
Dataset contact: Geospatial Technology Section GIS
322 East Front Street Boise ID 83720
(208) 287-6700
gisinfo@idwr.idaho.gov

Dataset name: PLSS (Public Land Survey System) QQs and Other Sectional Subdivisions
Data currentness: compiled in 2016/2017; beginning in 20170215
Accuracy/Scale: Not Specified
Horizontal datum: WGS 84
Fee associated? No.
Available for redistribution? Yes.
Dataset source: Idaho Department of Natural Resources https://data-idwr.opendata.arcgis.com/datasets/db98553420434e6db87e3c7c3bf279c8_0
Dataset contact: Geospatial Technology Section GIS
322 East Front Street Boise ID 83720
(208) 287-6700
gisinfo@idwr.idaho.gov

Cadastral (parcels)

Dataset name: Structures of Idaho
Data currentness: 20181124
Accuracy/Scale: Not Specified
Horizontal datum: given as spreadsheet with Lat/Longs
Fee associated? No.
Available for redistribution? Yes.
Dataset source: Idaho's Geospatial Data Clearinghouse
Dataset Download:
http://cloud.insideidaho.org/webApps/metadataViewer/default.aspx?path=%5c%5cintranet.rocket.net%5cinsideprod%5cdata%5canonymous%5cigdc%5cstructures_id_igdc.shp.xml
Dataset contact: Bruce Godfrey
(208) 292-1407
bgodfrey@uidaho.edu

Parcels: Parcels are acquired at the county level on an as-need basis. For some counties, the RSC has data already downloaded and ready for use. Please check with the RSC for county parcel data. For areas where parcel data is not already downloaded, please check the county's GIS website and if not there then reach out to the county directly for parcel data.

Parcel Viewer: https://idahoparcels.us/web/index.php/map-gallery/
Note: No data is downloadable via this viewer link. To download parcel data please see the section above or contact the individual county.

Terrain (elevation)

Dataset name: 1-meter Digital Elevation Models (DEMs) – USGS National MAP 3DEP Downloadable Data Collection
Data currentness: 20170101; updated as needed
Accuracy/Scale: I meter DEM; 10,000 meter by 10,000 meter tiled data
Vertical datum: Not Specified
Fee associated? No.
Available for redistribution? Yes.
Dataset source: 3DEP https://catalog.data.gov/dataset/usgs-national-elevation-dataset-ned-1-meter-downloadable-data-collection-from-the-national-map-
Dataset contact: U.S. Geological Survey (Point of Contact)

Note: Use Constraints: There is no guarantee or warranty concerning the accuracy of the data. Users should be aware that temporal changes may have occurred since these data were collected and that some parts of these data may no longer represent actual surface conditions. Users should not use these data for critical applications without a full awareness of its limitations. Acknowledgement of the originating agencies would be appreciated in products derived from these data. Any user who modifies the data is obligated to describe the types of modifications they perform. User specifically agrees not to misrepresent the data, nor to imply that changes made were approved or endorsed by the USGS. Please refer to https://www.usgs.gov/privacy.html for the USGS disclaimer., Access Constraints: None. Any downloading and use of these data signifies a user's agreement to comprehension and compliance of the USGS Standard Disclaimer. Insure all portions of metadata are read and clearly understood before using these data in order to protect both user and USGS interests.

For more information on other sources of elevation data for Idaho, either currently available or planned, including local LIDAR projects, see the Idaho LiDAR Consortium's site at: https://www.idaholidar.org/
Data viewer: https://www.idaholidar.org/data/data-map/

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 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

Data	Data Source	Location
AAL data from HAZUS	State	http://starrtrac.atgteams.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
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

Data	Data Source	Location
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/ 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
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 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

Data	Data Source	Location
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	
Other known hazards with geographical boundaries (e.g. earthquake faults)	Tsunami Landslide Volcanic Eruptions Wildfire	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

Most agencies within Idaho provide open source data free for download and use. However, individual use and restrictions should be followed on a dataset by dataset basis.

The primary mechanism for redistribution of state-generated geospatial data is through browser-based web services, the most important of which can be accessed through INSIDE Idaho via the Idaho Geospatial Data Clearinghouse (IGDC). Redistribution policy, use limitations and warrantee information is provided in metadata.

Access the clearinghouse at: http://inside.uidaho.edu/index.html

Questions or comments should be sent to:
Bruce Godfrey
bgodfrey@uidaho.edu
(208) 292-1407

The INSIDE Idaho program, representing the State of Idaho, provides many data sets at no cost through the Clearinghouse. A list of publishers can be found on the site here:
http://inside.uidaho.edu/webapps/search/publisher_browse.aspx   Publishers are broken out at the federal, state, local, tribal, higher education, and "other" levels.

Publishers are broken out at the federal, state, local, tribal, higher education, and "other" levels.

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.~~

https://hazards.fema.gov/femaportal/docs/ProgFacts.pdf

https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map

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 government districts, counties and parishes, municipalities, tribes, universities, and other organizations.

Clearinghouses and Inventories for the State

The Idaho Geospatial Data Clearinghouse (IGDC) serves as a convenient source for geographic data, ranging from simple state maps to complex geospatial data needed to power Geographic Information Systems.

Coordinated by the University of Idaho, the IGDC provides access to a wide variety of sources making it your "First Stop" for geographic data for Idaho. IGDC partners include federal, state, tribal, and educational sources, among others.

Access Idaho's Clearinghouse at http://inside.uidaho.edu/index.html

Important features of the Clearinghouse include:

> The Apps toolbar: a toolbar providing links to aerial imagery, elevation, historic photos and maps, and topographic maps.

> The Contributors toolbar: Provides access to metadata and publishers.

> The Data toolbar: provides access to data sources within the website and allows for multiple queries of data.

~~National Digital Orthophoto Program (NDOP) and National Digital Elevation Program (NDEP) Tracking Systems~~National Elevation Dataset (NED) and 3D Elevation Program (3DEP)

These systems allow the search of orthophoto and elevation project information entered by Federal and other organizations. The NEP system can be accessed at https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/ngce/elevation/. The 3DEP system can be accessed at https://www.usgs.gov/core-science-systems/ngp/3dep.

~~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.~~

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=ID

Additional useful contacts for the State can be found at the Idaho Geospatial Office: https://gis.idaho.gov/contact.html

https://gis.idaho.gov/about/

Involving the State's Geospatial Coordinator in Flood Studies

In order to participate in the FEMA flood hazard mapping effort, please contact:
State National Flood Insurance Program (NFIP) Coordinator
Maureen O'Shea
maureen.oshea@idwr.idaho.gov
(208) 287-4928

State Coordination Process for Building Geospatial Partnerships

Many agencies come together to support data sources for the State of Idaho. Idaho's Geospatial Data Clearinghouse has an Interactive Numeric & Spatial Information Data Engine referred to as INSIDE Idaho that brings together many resources of publishers to one location. This information can be found at: http://cloud.insideidaho.org/webapps/search/publishers.aspx. Here, you will also find resources on metadata requirements and how to become a publisher within INSIDE Idaho.

Finding Local Geospatial Contacts

Local contacts, including those from special government districts (for example, a regional planning commission); counties, 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

https://hazards.fema.gov/contacts/statecontacts

http://www.statelocalgov.net.

The State also maintains information about local geospatial contacts:

County Contacts: https://www.idaho.gov/counties/

Cultural Resource Contacts: https://history.idaho.gov/wp-content/uploads/2018/07/Idaho_State_Federal_Tribal_Contacts.pdf

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 and redistribute this Procedure.