State Geospatial Data Coordination Procedure

ILLINOIS

October 2020
# Illinois

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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:

Greg Arther, Geospatial Data Coordination Lead  
Region V Service Center  
(312) 831-3128  
Greg.Arther@stantec.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 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: Illinois State Digital Orthophoto Quadrangles
Data currentness: 2011
Accuracy/Scale: 1:12,000
Ground sample resolution: 1.5 foot
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Dataset source: Compressed data are available from the Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at https://clearinghouse.isgs.illinois.edu/data; Uncompressed data are available from the Illinois State Library.
Dataset contact: Illinois State Geological Survey, Mark Yacucci, (217) 244-9306, yacucci@illinois.edu

Transportation (roads, railroads, and airports)
Dataset name: Illinois Highway System File
Data currentness: 2018
Accuracy/Scale: 1:64,000 analog map based on USGS National Map Accuracy Standards.
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes.
Are road names part of the dataset? Yes
Dataset source: Illinois Department of Transportation at http://apps.dot.illinois.gov/gist2/
Dataset contact: Dan Wilcox, Chief Information Officer, Illinois Dept. of Transportation, Bureau of Information Processing, 2300 South Dirksen Parkway, Springfield, IL 62764; 217-785-4222; dan.wilcox@illinois.gov

Hydrography (rivers, streams, lakes, and shorelines)
Dataset name: National Hydrography Datasets (NHD)
Data currentness: 1999-2010
Accuracy/Scale: 1:100,000 and 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Are hydrography names part of the dataset? Yes
Dataset source: USGS at http://nhd.usgs.gov/
Dataset contact: NHD@usgs.gov
Notes: Same as National Dataset. Currentness and accuracy varies. Individual counties may have accurate up to date hydrography file. Contact state/local GIS department.

Political boundaries (county, municipal)
Dataset name: Illinois County Boundaries
Data currentness: 2007
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Accuracy/Scale: 1:62,500 and 1:24,000
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes;
Dataset source: Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at https://clearinghouse.isgs.illinois.edu/data
Dataset contact: Illinois State Geological Survey, Information Office (217) 333-4747, isgs@isgs.uiuc.edu

Public land survey system (PLSS) (township and section lines)
Dataset name: Illinois Public Land Survey System
Data currentness: 2003
Accuracy/Scale: 1:62,500 and 1:24,000
Horizontal datum: NAD 83
Fee associated? Yes; please refer to Notes section below.
Available for redistribution? Yes
Dataset source: Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at https://clearinghouse.isgs.illinois.edu/data
Dataset contact: Illinois State Geological Survey, Information Office (217) 333-4747, isgs@isgs.illinois.edu

Cadastral (parcels)
No state coverage available; data may be available from the counties.

Terrain (elevation)
Illinois became part of the National Geodetic Survey Height Modernization Program (ILHMP) in 2008. The goal of this program is to upgrade the statewide network of survey benchmarks and develop a statewide high-resolution DEM data set. Nearly all high resolution LiDAR data is being collected outside this program on a county by county basis through state, local and federal efforts. Most of the collected data however, is being contributed to the ILHMP for inclusion into the statewide high-resolution DEM and distribution via the Illinois Natural Resources Geospatial Data Clearinghouse at http://clearinghouse.isgs.illinois.edu/data/elevation/illinois-height-modernization-ilhmp-lidar-data. The Clearinghouse will distribute the original LiDAR points as well as derivative products when fully implemented.

LiDAR acquisitions in the State are tracked by a Steering Committee for the ILHMP. The USGS Geospatial Coordinator maintains a database of the LiDAR acquisitions and planned acquisitions for the Committee. A map of the acquisition status is available from the Clearinghouse at https://clearinghouse.isgs.illinois.edu/lidar/LiDAR_Status_2020.pdf
Dataset name: Digital Elevation Model (DEM) of Illinois at 1:250,000
Data currentness: 2004-2018
Accuracy/Scale: 1:250,000
Vertical datum: not stated
Fee associated? No
Available for redistribution? Yes; Dataset source: Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at https://clearinghouse.isgs.illinois.edu/data
Dataset contact: Sheena Beaverson (217) 244-9306, sbeavers@illinois.edu

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

<table>
<thead>
<tr>
<th>Data Data Source Location</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watershed boundaries</td>
<td>National Discovery Data Repository</td>
</tr>
<tr>
<td>Jurisdictional boundaries</td>
<td>National Discovery Data Repository</td>
</tr>
<tr>
<td>Tribal land boundaries</td>
<td>National Discovery Data Repository</td>
</tr>
<tr>
<td>State lands</td>
<td>Regional/State/Local Discovery Data Repository</td>
</tr>
<tr>
<td>Federal lands</td>
<td>National Discovery Data Repository</td>
</tr>
<tr>
<td>Major roads</td>
<td>Regional/State/Local National Discovery Data Repository</td>
</tr>
<tr>
<td>Streams</td>
<td>Regional/State/Local National Discovery Data Repository</td>
</tr>
<tr>
<td>Coastal Barrier Resource Areas</td>
<td>National Discovery Data Repository</td>
</tr>
<tr>
<td>Coordinated Needs Management Strategy</td>
<td>National See National Operating Procedure</td>
</tr>
<tr>
<td>Topographic/ bathymetric data</td>
<td>National See National Operating Procedure</td>
</tr>
<tr>
<td>AAL data from HAZUS</td>
<td>State <a href="http://starrtrac.atgteams.com/library/AAL/Forms/AllItems.aspx">http://starrtrac.atgteams.com/library/AAL/Forms/AllItems.aspx</a> Contact the RSC if help is needed retrieving the data.</td>
</tr>
<tr>
<td>Coverage areas for known community and Tribal risk assessment data</td>
<td>Regional/State/Local</td>
</tr>
<tr>
<td>Status of Hazard Mitigation Plans</td>
<td>Regional <a href="mailto:morgan.holloway@fema.dhs.gov">morgan.holloway@fema.dhs.gov</a></td>
</tr>
<tr>
<td>Flood control structure data</td>
<td>National See National Operating Procedure</td>
</tr>
<tr>
<td>Locations of stream gages</td>
<td>National Discovery Data Repository</td>
</tr>
<tr>
<td>Locations of past flood claims and repetitive loss properties</td>
<td>CIS Report Contact the geospatial data coordination lead at your RSC referenced earlier in this document.</td>
</tr>
<tr>
<td>Locations of clusters of Letters of Map Change</td>
<td>National See National Operating Procedure</td>
</tr>
<tr>
<td>Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database</td>
<td>Regional/State/Local</td>
</tr>
<tr>
<td>Areas of planned development</td>
<td>Regional/State/Local</td>
</tr>
<tr>
<td>Data</td>
<td>Data Source</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Areas of land use change datasets</td>
<td>National</td>
</tr>
<tr>
<td></td>
<td>Regional/State/Local</td>
</tr>
<tr>
<td>Locations of ongoing projects or updated stream studies (e.g. highway improvements)</td>
<td>Regional/State/Local</td>
</tr>
<tr>
<td>Locations of wave and tide gauges</td>
<td>N/A</td>
</tr>
<tr>
<td>Locations of wind gauges</td>
<td>N/A</td>
</tr>
<tr>
<td>Proposed inland limit of the Primary Frontal Dune, if present</td>
<td>N/A</td>
</tr>
<tr>
<td>Locations of any beach nourishment or dune restoration projects</td>
<td>N/A</td>
</tr>
<tr>
<td>Comparison of preliminary stillwater elevations with effective stillwater elevations</td>
<td>Regional/State/Local</td>
</tr>
<tr>
<td>Available effective study data</td>
<td>National</td>
</tr>
<tr>
<td>Orthophotography</td>
<td>National</td>
</tr>
<tr>
<td>Proposed discussion areas, problem areas, areas of proposed mitigation projects</td>
<td>Regional/State/Local</td>
</tr>
<tr>
<td>Land use and soil information</td>
<td>Land Use</td>
</tr>
<tr>
<td></td>
<td>Soils</td>
</tr>
<tr>
<td>Reference points to locate areas with flooding issues</td>
<td>Regional/State/Local</td>
</tr>
<tr>
<td>Hydraulic structures</td>
<td>Culverts</td>
</tr>
<tr>
<td></td>
<td>Levees, Dams, Bridges</td>
</tr>
<tr>
<td>Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data</td>
<td>N/A</td>
</tr>
<tr>
<td>Local structure and topographic data from the existing hazard mitigation plans</td>
<td>Regional/State/Local</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Data</th>
<th>Data Source</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historic inundation areas and high water marks</td>
<td>Historic Riverine Inundation Areas&lt;br&gt;Storm Surge Inundation Areas&lt;br&gt;High Water Marks</td>
<td>See National Operating Procedure</td>
</tr>
<tr>
<td>Clusters or locations of Individual Assistance/Public Assistance grants and locations of grant projects completed, planned, or underway</td>
<td>National</td>
<td>See National Operating Procedure</td>
</tr>
<tr>
<td>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</td>
<td>National</td>
<td>See National Operating Procedure</td>
</tr>
<tr>
<td>Other information on FEMA grants, as described in G&amp;S Appendix I</td>
<td>Regional/State/Local</td>
<td>HMA Tracking Tool</td>
</tr>
<tr>
<td>Any data deficiencies identified in hazard mitigation plans</td>
<td>Regional/State/Local</td>
<td></td>
</tr>
<tr>
<td>Information from FloodSmart on market penetration</td>
<td>FEMA</td>
<td><a href="https://www.floodsmart.gov/">https://www.floodsmart.gov/</a></td>
</tr>
<tr>
<td>Community Assistance Visits / Community Assistance Contacts</td>
<td>National</td>
<td>Discovery Data Repository</td>
</tr>
<tr>
<td>Community Rating System class information</td>
<td>National</td>
<td>See National Operating Procedure</td>
</tr>
<tr>
<td>Information from other Federal agencies</td>
<td>National Only</td>
<td>See National Operating Procedure</td>
</tr>
<tr>
<td>Information from State agencies, non-profit organizations, universities, etc.</td>
<td>Regional/State/Local</td>
<td></td>
</tr>
<tr>
<td>Current community plans, ordinances, or programs to alleviate flooding or manage stormwater</td>
<td>Regional/State/Local</td>
<td></td>
</tr>
<tr>
<td>Other known hazards with geographical boundaries (e.g. earthquake faults)</td>
<td>Tsunami&lt;br&gt;Landslide&lt;br&gt;Volcanic Eruptions&lt;br&gt;Wildfire</td>
<td>Discovery Data Repository</td>
</tr>
</tbody>
</table>

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**Note:**
- The data sources and locations are subject to change based on the latest updates and guidelines from the Federal Emergency Management Agency (FEMA) and other relevant agencies. It is recommended to regularly check for updates on the official FEMA website at https://www.floodsmart.gov/ for the most current information.
- The locations provided in the chart are intended to guide data procurement efforts and may not be exhaustive. Additional data may be required based on the specific needs and jurisdictions involved in hazard mitigation planning.
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<table>
<thead>
<tr>
<th>Data</th>
<th>Data Source</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information on active disasters</td>
<td>Regional/State/Local</td>
<td><a href="mailto:morgan.holloway@fema.dhs.gov">morgan.holloway@fema.dhs.gov</a></td>
</tr>
<tr>
<td>Campgrounds, recreational areas, emergency access routes, etc.</td>
<td>National</td>
<td>Discovery Data Repository</td>
</tr>
<tr>
<td>Federal Grants Pre /Post Disaster</td>
<td>Regional</td>
<td><a href="mailto:Greg.Tatara@fema.dhs.gov">Greg.Tatara@fema.dhs.gov</a></td>
</tr>
<tr>
<td>Critical Facilities</td>
<td>Regional/State</td>
<td><a href="mailto:lorena.reyes@fema.dhs.gov">lorena.reyes@fema.dhs.gov</a></td>
</tr>
</tbody>
</table>

Data Distribution Process for State Data

Illinois GIS data and map services are available at https://clearinghouse.isgs.illinois.edu/. Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey. Reproduction or re-distribution of copyrighted digital data sets or products derived there from outside of licensee’s organization or entity is expressly forbidden. The only exception is redistribution to consultants working for the licensee, and then only for purposes, related to work for the licensee. Such consultants may not further reproduce or redistribute these data sets.


Federal Nationwide Geospatial Data Holdings


Finding and Accessing Other Existing Geospatial Data

Find below 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
State Geospatial Data Coordination Procedure

- Illinois Natural Resources Geospatial Data Clearinghouse hosted by the Illinois State Geological Survey at [https://clearinghouse.isgs.illinois.edu/](https://clearinghouse.isgs.illinois.edu/)
State Geospatial Data Coordination Procedure


National Elevation Dataset (NED) and 3D Elevation Program (3DEP)


Geospatial One-Stop

Geospatial One-Stop, available at [http://www.geodata.gov](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


Wilcox, Dan
GIS Coordinator
Illinois Department of Transportation
2300 S. Dirksen Parkway
Springfield, IL 62764
Phone: 217-524-0031
Email: dan.wilcox@illinois.gov

Involving the State’s Geospatial Coordinator in Flood Studies

N/A
State Geospatial Data Coordination Procedure

State Coordination Process for Building Geospatial Partnerships
N/A

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

The Illinois GIS Association at http://www.ilgisa.org has a membership list which includes many county and municipal representatives. The contact is Rick Church at execdir@ilgisa.org (Executive Director) ILGISA, 800 Roosevelt Road, Building C Suite 312, Glen Ellyn, IL 60137; Phone: 630-942-6584

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.