

State Geospatial Data Coordination Procedure

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FEMA

State Geospatial Data Coordination Procedure

Wisconsin

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State Geospatial Data Coordination Procedure

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State Geospatial Data Coordination Procedure

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 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.

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Datasets for FIRM Production

Orthophotos

Dataset name: Wisconsin 2008 NAIP Orthophoto Projects

Data currentness: 2008

Accuracy/Scale: 1:12,000

Ground sample resolution: 1 meter pixel

Horizontal datum: NAD 83

Fee associated?: No.

Available for redistribution?: Redistribution policy not available.

Dataset source: WisconsinView at <http://www.wisconsinview.org/>

Dataset contact: State Cartographer's Office, 550 N. Park Street, Room 384, Science Hall, Madison, WI 53706-1491; (608) 262-3065; <http://www.sco.wisc.edu/>

Notes: (1) Many counties have acquired their own digital photography at resolutions ranging from six inches to three feet. See <http://www.sco.wisc.edu/imagery/status.php>

(2) NAIP imagery has many uses, and many states participate in NAIP. NAIP is leaf-on imagery and is not cloud-free, and so the ground might be obscured. So, while NAIP (and other such imagery) can be used as a base maps, the imagery must be checked to ensure that it provides a clear view of important features on the ground for areas of significance for flooding (see Appendix C of the Geospatial Data Coordination Implementation Guide for more discussion).

Transportation (roads, railroads, and airports)

Dataset name: Wisconsin Roads 2000 TIGER line files

Data currentness: 2000

Accuracy/Scale: 1:100,000

Horizontal datum: North American Datum 1983 with the 1991 adjustment

Fee associated? Yes

Available for redistribution? There are no distribution constraints on this data layer.

Are road names part of the dataset? Yes.

Dataset source: Office of Land Information Services, Wisconsin Department of Administration

Dataset contact: Wisconsin Department of Natural Resources (WiDNR), Enterprise Data Management Section, P.O. Box 7921, Madison, WI 53707; (608) 264-8916;

<http://www.dnr.state.wi.us/maps/gis/geolibrary.html>

Notes: Original data from 2000 TIGER Line Files, U.S. Census Bureau. This data layer is for use in generalized mapping applications. The level of accuracy does not support detailed local analysis. The data layer is intended for use with GIS software.

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: Wisconsin Rivers & Shorelines from 1:24,000-scale sources.

Data currentness: 2004

Accuracy/Scale: high resolution - 1:24,000.

Horizontal datum: NAD83 HARN

Fee associated?: No.

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Available for redistribution? Yes

Are hydrography names part of the dataset? Yes.

Dataset source: Wisconsin Department of Natural Resources (WiDNR), Enterprise Data Management Section, P.O. Box 7921, Madison, WI 53707; (608) 264-8916;

<http://www.dnr.state.wi.us/maps/gis/geolibrary.html>

Dataset contact: Wisconsin DNR, Bureau of Technology Services

Bradley Duncan, GIS Data Specialist; (608) 264-8916, Bradley.Duncan@wisconsin.gov

Political boundaries (county, municipal)

Dataset name: Wisconsin County Boundaries.

Data currentness: 2004

Accuracy/Scale: 1:24,000.

Horizontal datum: NAD 83, 1991 adjustment.

Fee associated?: No.

Available for redistribution? Redistribution policy not available.

Dataset source: Wisconsin Department of Natural Resources (WiDNR), Enterprise Data Management Section, P.O. Box 7921, Madison, WI 53707; (608) 264-8916.

<http://www.dnr.state.wi.us/maps/gis/geolibrary.html>

Dataset contact: Bradley Duncan, GIS Data Specialist; (608) 264-8916,

Bradley.Duncan@wisconsin.gov

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

No statewide coverage available.

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

Dataset name: Wisconsin PLSS Sections from 1:24K Landnet; Wisconsin PLSS

Townships from 1:24K Landnet.

Data currentness: 1996

Accuracy/Scale: 1:24,000

Horizontal datum: PLSS Sections – NAD83 HARN; PLSS Townships –NAD83, 1991 adjustment.

Fee associated?: No.

Available for redistribution? Redistribution policy not available.

Dataset source: Wisconsin Department of Natural Resources (WiDNR), Enterprise Data Management Section, P.O. Box 7921, Madison, WI 53707; (608) 264-8916;

<http://www.dnr.state.wi.us/maps/gis/geolibrary.html> (check under Landnet in the FTP)

Dataset contact: Bradley Duncan, GIS Data Specialist; (608) 264-8916,

Bradley.Duncan@wisconsin.gov

Cadastral (parcels)

No statewide coverage available.

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Terrain (elevation)

Dataset name: Digital Elevation Model of Wisconsin (DEMGW930)

Data currentness: 2000

Accuracy/Scale: 1:24,000 30 meter pixel resolution

Vertical datum: NGVD 29

Fee associated? No.

Available for redistribution? Yes

Dataset source: Wisconsin Department of Natural Resources (WiDNR),

P.O. Box 7921, Madison, WI 53707; (608) 264-8916;

<http://www.dnr.state.wi.us/maps/gis/geolibrary.html>

Dataset contact: Wisconsin Department of Natural Resources (WiDNR), Bradley Duncan, GIS Data Specialist; (608) 264-8916, Bradley.Duncan@wisconsin.gov

Notes: The spatial extent this data layer is the state of Wisconsin, plus a buffer around the perimeter extending approximately 5,000 meters beyond the state boundary. The DEM includes elevation values every 30 meters or 98.4 feet. Elevation units are in meters. ArcView with the Spatial Analyst Extension, ArcInfo/ArcGIS Grid, or comparable GIS software is needed to use the Grid format data meaningfully.

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).

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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 |
| 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 | |

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| Data | Data Source | Location |
|--|-----------------------|----------------------------------|
| 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 | |
| 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 | N/A |
| 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 | Regional/State/or Local |
| | Levees, Dams, Bridges | 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 | |

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| Data | Data Source | Location |
|---|------------------------------------|---|
| Historic inundation areas and high water marks | Historic Riverine Inundation Areas | See National Operating Procedure |
| | Storm Surge Inundation Areas | See National Operating Procedure |
| | High Water Marks | 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 | |
| Other known hazards with geographical boundaries (e.g. earthquake faults) | Tsunami | Discovery Data Repository |
| | Landslide | Discovery Data Repository |
| | Volcanic Eruptions | Discovery Data Repository |
| | Wildfire | Discovery Data Repository |

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| Data | Data Source | Location |
|--|----------------------|--|
| 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

No State Data Distribution Policy is in place according to the State's 2006 summary report to the National States Geographic Information Council. The Department of Natural Resources provides their policy at

<http://www.dnr.state.wi.us/org/legal/WebsiteLegalInformation.html>.

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 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 Cartographer's Office at <http://www.sco.wisc.edu/>
- Wisconsin DNR at <http://dnr.wi.gov/maps/gis/appwebview.html>
- Wisconsin View at <http://www.wisconsinview.org/>

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."

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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=WI>>

Involving the State’s Geospatial Coordinator in Flood Studies

In order to participate in the FEMA flood hazard mapping effort, please contact Gary Heinrichs, Wisconsin State NFIP Coordinator, Wisconsin Dept. of Natural Resources, 101 S. Webster, Madison, WI 53702; (608) 266-3093; gary.heinrichs@wisconsin.gov or Kristy Hanselman, State Flood Mapping Coordinator at (608) 261-6443; Kristy.Hanselman@Wisconsin.gov.

State Coordination Process for Building Geospatial Partnerships

The establishment of a statewide council is under study. Several state agencies and the USGS geospatial liaison in the State have responsibilities to organize partnerships.

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

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from the FEMA archive and web searches at government link portals such as <http://www.statelocalgov.net>.

The Wisconsin Land Information Officers (LIOs) Network is to provide a forum for communication and knowledge sharing geared toward making county LIOs more successful in implementing the Wisconsin Land Information Program. See <http://www.wlion.org/lios.asp>.

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.