

# State Geospatial Data Coordination Procedure

## New Jersey

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### Purpose of the Procedure

Flood Insurance Studies search for geospatial data during Discovery 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.pdf>.

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

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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 flood insurance studies, information for the project Discovery stage, 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 (RSC):

Andy Read, Geospatial Data Coordination Lead  
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We appreciate the help of those who reviewed this document, in particular

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Date Procedure last discussed: February 2007

## 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).

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## 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 Discovery 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: New Jersey 2007 High Resolution Orthophotography (MrSID format)

Data currentness: Spring 2007,

Accuracy/Scale: 1:2400 (1"=200'). +/-4.0 ft. horizontal accuracy at a 95% confidence level.

Ground sample resolution: 1 foot pixel resolution

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Dataset source: New Jersey Geographic Information Network at

[https://njgin.state.nj.us/NJ\\_NJGINExplorer/DataDownloads.jsp](https://njgin.state.nj.us/NJ_NJGINExplorer/DataDownloads.jsp)

Dataset contact: New Jersey Geographic Information Network, New Jersey Office of GIS, 200 Riverview Plaza, PO Box 212, Trenton, NJ 08625 – 0212; (609) 633-9103; Fax (609) 633-0200

#### *Transportation (roads, railroads, and airports)*

Dataset name: New Jersey Department of Transportation Statewide Public Road Network (1:2,400)

Data currentness: Based on 2002 to 2007 New Jersey Orthophotos

Accuracy/Scale: 1:2,400 (1"=200'). The orthophotos were captured during February-April 2002-2007, and were ortho-rectified to a +/- 4.0 foot horizontal accuracy at a 95% confidence level. Roads were digitized to the visible center of a street, within a tolerance of +/- 3 feet.

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Are road names part of the dataset? Yes, however local road names are not provided along county routes. Please check with local municipality for local names of county routes.

Dataset source: New Jersey Department of Transportation at

<http://www.nj.gov/transportation/gis/data.shtm>

Dataset contact: NJ Department of Transportation, Bureau of Transportation Data Development, 1035 Parkway Ave., Trenton, New Jersey 08625; 609-530-3097; Fax 609-530-4508

#### *Hydrography (rivers, streams, lakes, and shorelines)*

Dataset name: NJDEP 2002 Streams Update for New Jersey

Data currentness: Based on 2002 New Jersey Orthophotos, Publication date: 2008

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Accuracy/Scale: 1:2,400

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Are hydrography names part of the dataset? No

Dataset source: NJ Department of Environmental Protection at:

<http://www.nj.gov/dep/gis/strmnet.html>

Dataset contact: NJDEP/OIRM/BGIS, 401 East State Street, First Floor, PO Box 428, Trenton, New Jersey 08625-0428; 609-777-0672; Fax 609-292-7900;

[gisnet@dep.state.nj.us](mailto:gisnet@dep.state.nj.us)

### *Political boundaries (county, municipal)*

Dataset name: Municipalities of New Jersey

Data currentness: 01/2012

Accuracy/Scale: 1:2,400

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Are boundary names part of the dataset? Yes

Dataset source: The Office of GIS (NJGIN) at:

[https://njgin.state.nj.us/NJ\\_NJGINExplorer/jviewer.jsp?pg=DataDownloads](https://njgin.state.nj.us/NJ_NJGINExplorer/jviewer.jsp?pg=DataDownloads)

Dataset contact: New Jersey Office of Information Technology, Office of Geographic Information Systems. PO Box 212, Trenton NJ 08625-0428; 0212 (609)984-7544 Fax (609)633-0400.

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

Dataset name: NJDEP State Owned, Protected Open Space and Recreation Areas in New Jersey

Data currentness: Time period for which the data are relevant: 1991-2004, Version: 2.8.6,

Last data update: 12/10/2008

Accuracy/Scale: 1:24,000

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Are publicly owned land names part of the dataset? Yes

Dataset source: NJ Department of Environmental Protection at:

<http://www.state.nj.us/dep/gis/stateshp.html>

Dataset contact: NJDEP/OIRM/BGIS, 401 East State Street, PO Box 428, Trenton, NJ 08625; 609-777-0672; Fax 609-292-2900; [gisnet@dep.state.nj.us](mailto:gisnet@dep.state.nj.us)

### *Cadastral (parcels)*

Partial coverage available.

Notes: Several county cadastral datasets are available via the New Jersey Geographic Information Network <[https://njgin.state.nj.us/NJ\\_NJGINExplorer/index.jsp](https://njgin.state.nj.us/NJ_NJGINExplorer/index.jsp)>. A New Jersey Geospatial Forum Task Force for Parceling is in the process of producing a statewide product. Data for 19 of 21 counties (plus 6 municipalities) has been completed. Last update July 2011, in progress with irregular updates.

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Dataset Source: New Jersey Office of Information Technology, Office of Geographic Information Systems at

[https://njgin.state.nj.us/NJ\\_NJGINExplorer/IW.jsp?DLayer=Parcels%20by%20County/Muni](https://njgin.state.nj.us/NJ_NJGINExplorer/IW.jsp?DLayer=Parcels%20by%20County/Muni)

Dataset Contact: New Jersey Office of Information Technology, Office of Geographic Information Systems. PO Box 212, Trenton NJ 08625-0212 (609) 984-7544 Fax (609) 633-0400.

### *Terrain (elevation)*

Dataset name: NJDEP Elevation Contours for the State of New Jersey (20 Foot Intervals)

Data currentness: Published 1987, Version: 2.8.6, Last data update: Wed Aug 16 09:16:48 2006

Accuracy/Scale: unknown

Vertical datum: unknown

Fee associated? No

Available for redistribution? Yes

Dataset source: New Jersey Department of Environmental Protection at:

<http://www.state.nj.us/dep/gis/stateshp.html>

Dataset contact: NJDEP/OIRM/BGIS, 401 East State Street, First Floor, PO Box 428, Trenton, New Jersey 08625-0428; 609-777-0672; Fax 609-292-7900

Notes: Several sources of higher accuracy elevation data sets are available within the state. The New Jersey Highlands Council developed a LiDAR-derived DEM covering parts of Warren, Sussex, Hunterdon, Morris and Passaic counties. LiDAR data have been developed by FEMA for Middlesex, Hunterdon, Burlington and Camden counties. Morris County has developed their own LiDAR-derived county-wide DEM. Monmouth County has developed county-wide photogrammetric contours with 2-foot intervals. The National Discovery Intelligence Agency (NGA) developed a LiDAR dataset for the New York Metropolitan Area, including all or parts of Passaic, Bergen, Essex, Hudson, Union, Middlesex and Monmouth counties. FEMA funded a study of the Delaware River in 2007 that provided LiDAR data in parts of Sussex, Warren, Hunterdon and Mercer counties. Gloucester County collected LiDAR data in Fall 2007/Spring 2008. The USGS and NJDEP Elevation Task Force are attempting to coordinate collection efforts in order to compile a once-over statewide LiDAR dataset for New Jersey.

### Data Distribution Process for State Data

New Jersey has central distribution capability through NJGIN. Certain federal, county and state owned data are distributed through this site and distribution is only limited by entities that publish to the site. Data distribution is divided into downloadable data, live data and offline data. Data licensing agreements are identified where needed. To ascertain distribution information for selected data cataloged on NJGIN, please refer to the data's associated metadata.

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## 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 Discovery 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 Discovery 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 Major State Holdings section of this document for geospatial data that meets FIRM production requirements).

Table 1. Discovery Data Resources

<u>Data</u>	<u>Agency</u>	<u>Location</u>
Watershed boundaries	National	See <i>National Discovery Data Coordination Procedure</i>
Jurisdictional boundaries	New Jersey Geographic Information Network (NJGIN)  National	<a href="https://njgin.state.nj.us/NJ_NJGINExplorer/index.jsp">https://njgin.state.nj.us/NJ_NJGINExplorer/index.jsp</a> Address: PO Box 212, Trenton NJ 08625-0212 Phone: (609) 984-7544 Fax (609) 633-0400.  See <i>National Discovery Data Coordination Procedure</i>
Tribal land boundaries	National	See <i>National Discovery Data Coordination Procedure</i>
State lands	New Jersey Department of Environmental Protection (NJDEP)	<a href="http://www.state.nj.us/dep/gis/stateshp.html">http://www.state.nj.us/dep/gis/stateshp.html</a> Address: 401 East State Street, First Floor, PO Box 428, Trenton, New Jersey 08625-0428; Phone: 609-777-0672 Fax 609-292-7900
Federal lands	NJDEP  National	<a href="http://www.state.nj.us/dep/gis/stateshp.html">http://www.state.nj.us/dep/gis/stateshp.html</a>  See <i>National Discovery Data Coordination Procedure</i>

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<u>Data</u>	<u>Agency</u>	<u>Location</u>
Major roads	New Jersey Department of Transportation	<a href="http://www.nj.gov/transportation/gis/data.shtm">http://www.nj.gov/transportation/gis/data.shtm</a>
	National	See <i>National Discovery Data Coordination Procedure</i>
Streams	NJDEP	<a href="http://www.state.nj.us/dep/gis/stateshp.html">http://www.state.nj.us/dep/gis/stateshp.html</a>
	National	See <i>National Discovery Data Coordination Procedure</i>
Coastal Barrier Resource Areas	National	See <i>National Discovery Data Coordination Procedure</i>
Coordinated Needs Management Strategy	National	See <i>National Discovery Data Coordination Procedure</i>
Topographic/ bathymetric data	NJDEP	<a href="http://www.state.nj.us/dep/gis/stateshp.html">http://www.state.nj.us/dep/gis/stateshp.html</a>
	National	See <i>National Discovery Data Coordination Procedure</i>
AAL data from Hazus	National	See <i>National Discovery Data Coordination Procedure</i>
Coverage areas for known community and Tribal risk assessment data	Local	Local
Status of Hazard Mitigation Plans	National	See <i>National Discovery Data Coordination Procedure</i>
Flood control structure data	National	See <i>National Discovery Data Coordination Procedure</i>
Locations of stream gages	National	See <i>National Discovery Data Coordination Procedure</i>
Locations of past flood claims and repetitive loss properties	National	See <i>National Discovery Data Coordination Procedure</i>
Locations of clusters of Letters of Map Change	National	See <i>National Discovery Data Coordination Procedure</i>
Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database	Local	Local
Areas of planned development	Local	Local
Areas of land use change datasets	Local	Local
Locations of ongoing projects or updated stream studies (e.g., highway improvements)	Local	Local
Locations of wave and tide gages	National	See <i>National Discovery Data Coordination Procedure</i>

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<u>Data</u>	<u>Agency</u>	<u>Location</u>
Locations of wind gages	National	See <i>National Discovery Data Coordination Procedure</i>
Proposed inland limit of the Primary Frontal Dune, if present	The Richard Stockton College Coastal Research Center (CRC)	<a href="http://intraweb.stockton.edu/eyos/page.cfm?siteID=149&amp;pageID=1">http://intraweb.stockton.edu/eyos/page.cfm?siteID=149&amp;pageID=1</a>  Address: 30 Wilson Ave., Port Republic, NJ 08241, Phone (609) 652-4245 Fax: (609) 748-0656
Locations of any beach nourishment or dune restoration projects	The Richard Stockton College Coastal Research Center (CRC)	<a href="http://intraweb.stockton.edu/eyos/page.cfm?siteID=149&amp;pageID=1">http://intraweb.stockton.edu/eyos/page.cfm?siteID=149&amp;pageID=1</a>
Comparison of preliminary stillwater elevations with effective stillwater elevations	Local	Local
Available effective study data	National	See <i>National Discovery Data Coordination Procedure</i>
Orthophotography	NJGIN  National	<a href="https://njgin.state.nj.us/NJ_NJGINExplorer/index.jsp">https://njgin.state.nj.us/NJ_NJGINExplorer/index.jsp</a>  See <i>National Discovery Data Coordination Procedure</i>
Proposed discussion areas, problem areas, areas of proposed mitigation projects	Local	Local
Land use and soil information	NJDEP  National	<a href="http://www.state.nj.us/dep/gis/stateshp.html">http://www.state.nj.us/dep/gis/stateshp.html</a>  See <i>National Discovery Data Coordination Procedure</i>
Reference points to locate areas with flooding issues	Local	Local
Hydraulic structures	National	See <i>National Discovery Data Coordination Procedure</i>
Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data	The Richard Stockton College Coastal Research Center (CRC)  National	<a href="http://intraweb.stockton.edu/eyos/page.cfm?siteID=149&amp;pageID=1">http://intraweb.stockton.edu/eyos/page.cfm?siteID=149&amp;pageID=1</a>  See <i>National Discovery Data Coordination Procedure</i>
Local structure and topographic data from the existing hazard mitigation plans	Local	Local
Historic inundation areas and High Water Marks	Regional	Discovery Data Repository
Clusters or locations of Individual Assistance/Public Assistance grants	National	See <i>National Discovery Data Coordination Procedure</i>



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<u>Data</u>	<u>Agency</u>	<u>Location</u>
and locations of grant projects completed, planned, or underway		
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 <i>National Discovery Data Coordination Procedure</i>
Other information on FEMA grants, as described in G&S Appendix I	Local	Local
Any data deficiencies identified in hazard mitigation plans	Local	Local
Information from FloodSmart on market penetration	National	See <i>National Discovery Data Coordination Procedure</i>
Community Assistance Visits / Community Assistance Contacts	National	See <i>National Discovery Data Coordination Procedure</i>
Community Rating System class information	National	See <i>National Discovery Data Coordination Procedure</i>
Information from other Federal agencies	National	See <i>National Discovery Data Coordination Procedure</i>
Information from State agencies, non-profit organizations, universities, etc.	Local	Local
Current community plans, ordinances, or programs to alleviate flooding or manage stormwater	National	See <i>National Discovery Data Coordination Procedure</i>
Other known hazards with geographical boundaries (e.g. earthquake faults)	National	See <i>National Discovery Data Coordination Procedure</i>
Information on active disasters	National	See <i>National Discovery Data Coordination Procedure</i>
Campgrounds, recreational areas, emergency access routes, etc.	NJDEP	<a href="http://www.state.nj.us/dep/gis/stateshp.html">http://www.state.nj.us/dep/gis/stateshp.html</a>
	National	See <i>National Discovery Data Coordination Procedure</i>
Any other data that might be appropriate	Local	Local

### 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

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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

An inventory of geospatial data products can be found at the New Jersey Geographic Information Network (NJGIN) [https://njgin.state.nj.us/NJ\\_NJGINExplorer/index.jsp](https://njgin.state.nj.us/NJ_NJGINExplorer/index.jsp). The NJGIN Administrator is Kate McGuire, NJOIT-Office of GIS, [kate.mcguire@oit.state.nj.us](mailto:kate.mcguire@oit.state.nj.us), phone (609) 633-8910.

Metadata for the inventory of geospatial products is FGDC compliant and in XML format. Data requiring fees and special licensing restrictions are identified on the site in the data's respective metadata records.

## 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>](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>](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.

## 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

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=NJ>](https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=NJ)

Additional useful contacts for the State can be found at <http://www.state.nj.us/it/oit/gis/>

## Involving the State's Geospatial Coordinator in Flood Studies

When participating in the FEMA flood hazard mapping effort, NJOIT prefers to be contacted in the following ways:

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- a. Send project list at the start of each year
- b. Conference call at the start of data Discovery for each individual project
- c. Coordinate at local GIS meetings and conferences
- d. Send information once project scope is finalized
- e. NJOIT will continue to coordinate closely with the New Jersey Department of Environmental Protection (NJDEP), the state's Flood Plain Management Office.

NJOIT has a working relationship with FEMA Region 2 and NJDEP, the agency responsible for updating the multi-hazard maps and providing input to the state's Risk MAP business plan.

## State Coordination Process for Building Geospatial Partnerships

The New Jersey GeoSpatial Forum <[https://njgin.state.nj.us/OIT\\_NJGF/index.jsp](https://njgin.state.nj.us/OIT_NJGF/index.jsp)> effectively serves as the statewide GIS Council. The Forum combines the New Jersey Geographic Information Council (NJGIC) and the State Mapping Advisory Committee (SMAC). The Forum is open to public, private and academic organizations interested in geospatial technology. Regular meetings of the group and subcommittees are held throughout the year.

## 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>>.

FEMA program information and production notices can be forwarded to the NJGIN Administrator for posting on the NJGIN website which is accessible to state and local GIS contacts. The contact information for forwarding notices is:

NJGIN Administrator Kate McGuire NJOIT-Office of GIS  
[kate.mcguire@oit.state.nj.us](mailto:kate.mcguire@oit.state.nj.us) (609) 633-8910

The counties maintain the majority of spatial data though the state administers the orthophotography program. In addition to county data, New Jersey has several large cities with their own spatial data. The NJGIN Administrator can mail FEMA information and notices directly to county and city GIS contacts.

The Geospatial Point of Contact for elevation data in New Jersey is:

Roger Barlow  
USGS State Liaison  
(703) 648-5189  
[rbarlow@usgs.gov](mailto:rbarlow@usgs.gov)

## State Geospatial Data Coordination Procedure

### 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.