

State Geospatial Data Coordination Procedure

Nevada

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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.pdf>, and in *Scoping*

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Guidelines: Pre-scoping and the Scoping Meeting, which is available through the Regional Management Center (RMC).

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 Management Center:

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We appreciate the help of those who reviewed this document, in particular

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Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is recent, black/white, county-wide orthophotography data provided by local government to FEMA as public domain data. The resolution must be 1 meter resolution or better. If not available, locally provided vector basemap data or 2005 USDA National Agriculture Imagery Program (NAIP) imagery are used.

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

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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: Preliminary 2005 USDA NAIP Imagery

Data currentness: 2005

Accuracy/Scale: 1:12,000

Ground sample resolution: 1 meter

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: <http://keck.library.unr.edu/data/naips/naips.htm>

Dataset contact: Ron Hess, rhess@unr.edu

Notes: (1) The preliminary National Agriculture Image Program (NAIP) data files for the State of Nevada were provided through the courtesy of the Nevada State Mapping Advisory Committee.

(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: US Census Topologically Integrated Geographic Encoding and Referencing (TIGER)/Line files

Data currentness: 2000

Accuracy/Scale: 1:100,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Are road names part of the dataset? Yes

Dataset source: <http://www.census.gov/geo/www/tiger/tiger2005se/tgr2005se.html>

Dataset contact: N/A

Notes: NV DOT is nearing completion of a GPS project to produce a statewide centerline file for all state and county maintained roads.

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: Perennial Streams from Nevada Bureau of Land Management

Data currentness: 1997

Accuracy/Scale: 1:100,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

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Are hydrography names part of the dataset? Yes

Dataset source: http://www.nv.blm.gov/gis/geospatial_data.htm

Dataset contact: Bureau of Land Management - Nevada State Office;
MO'Brien@BLM.gov

Notes: The state is currently involved in a statewide hydro-mapping project.

Political boundaries (county, municipal)

Dataset name: US Census Topologically Integrated Geographic Encoding and Referencing (TIGER)/Line files (Designated Places)

Data currentness: 2000

Accuracy/Scale: 1:100K

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: <http://www.census.gov/geo/www/tiger/tiger2005se/tgr2005se.html>

Dataset contact: N/A

Notes: N/A

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

Dataset name: Surface Land Ownership from Nevada Bureau of Land Management

Data currentness: 2006

Accuracy/Scale: 1:100K

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: http://www.nv.blm.gov/gis/geospatial_data.htm

Dataset contact: Bureau of Land Management - Nevada State Office;
MO'Brien@BLM.gov

Notes: This data is designed to display the distribution of land ownership throughout Nevada, and should be used in conjunction with the Standard Ownership Color Model available through the BLM National Science and Technology Center (NSTC).

<<http://www.blm.gov/nstc/mapstandards/index.html>> This data was originally captured for the Bureau of Land Management by the University of Utah, for use with the U.S. Fish and Wildlife GAP Program.

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

Dataset name: PLSS from Nevada Bureau of Land Management

Data currentness: 1990

Accuracy/Scale: 1:100,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: http://www.nv.blm.gov/gis/geospatial_data.htm

Dataset contact: Bureau of Land Management - Nevada State Office;
MO'Brien@BLM.gov

Notes: This layer was developed by the US Bureau of Mines (USBM), Western Field Operations Center, through digitizing and joining all 100k BLM surface management

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maps of Nevada in 1988-1990. The original publication for which the data were created was by Crandell, W.D. and M.M. Hamilton, 'Availability of Federally Owned Minerals for Exploration and Development in Western States: Nevada, 1985'; USBM Special Publication, 1990, 54 pp. The data were used by the USBM to create mine claim density maps. USGS publications OFR99-540 utilized the data in creating a specific mine claim density map of Nevada with 1996 claim data.

Cadastral (parcels)

No coverage available.

Notes: Parcel data is available from Washoe and Clark counties. Very limited parcel data is available outside of these counties.

Extraterritorial jurisdiction (ETJ) boundaries

No coverage available.

Terrain (elevation)

Dataset name: USGS DEM

Data currentness: Varies

Accuracy/Scale: 1:24,000 for most of the State

Vertical datum: NGVD 29

Fee associated? No

Available for redistribution? Yes

Dataset source: <http://data.geocomm.com/dem/demdownload.html>

Dataset contact: <http://data.geocomm.com/dem/>

Notes: As of 2004, the state converted DEMS from 30 M to 10 M for the entire state.

This data is available through the USGS NED site at <http://ned.usgs.gov>.

Data Distribution Process for State Data

Primary access to state data is through the Virtual Clearinghouse for Nevada Geographic Information (<http://www.nbmgs.unr.edu/geoinfo/geoinfo.htm>).

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.

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Clearinghouses and Inventories for the State

W.M.KECK Earth Sciences & Mining Research Information Center:

<http://keck.library.unr.edu/>: The mission of the W. M. Keck Earth Sciences and Mining Research Information Center is to provide access for researchers, both on-site and from their remote desktops, to specialized bibliographic databases, scientific visualization and modeling packages, and geospatial data resources. This site provides access to download all USGS DOQ and DRG products for Nevada.

Virtual Clearinghouse for Nevada Geographic Information:

<http://www.nbmg.unr.edu/geoinfo/geoinfo.htm>: This Web site provides links to organizations that provide GIS data. At its meeting in January 1998 the State Mapping Advisory Committee agreed to establish this Web site as a beginning for a clearinghouse for geographic information. The Nevada Bureau of Mines and Geology manages the site.

Southern Nevada GIS Data: <http://gisgate.co.clark.nv.us/gismo/freedata.htm>

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 Management 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.

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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=NV>

Involving the State's Geospatial Coordinator in Flood Studies

The RMC has established initial contact with the NV NSGIC Representative to present an overview of FEMA's Map Modernization Program.

State Coordination Process for Building Geospatial Partnerships

Nevada State Mapping Advisory Committee: <http://www.nbmj.unr.edu/smac/smac.htm>: The Governor of Nevada established the State Mapping Advisory Committee (SMAC) in 1983 to advise the U.S. Geological Survey (USGS) on state priorities for map products and to inform maps users about the status of mapping programs and the availability of map products. The Governor named the Director of the Nevada Bureau of Mines and Geology as the chair of SMAC. SMAC generally meets annually. The Federal Geographic Data Committee (FGDC), on November 6, 2000, formally recognized the Nevada State Mapping Advisory Committee as the Nevada Regional Cooperating Group in support of the National Spatial Data Infrastructure (NSDI) program.

Nevada Geographic Information Society: <http://www.ngis.org/portal/>: The goals of the NGIS are:

- To provide an objective educational forum without political, social, financial or national bias.
- To foster the exchange of ideas and studies focused on the planning, operation, and consequences of such information systems.
- To promote professional interaction, stimulate research, encourage publication, and generally aid the advancement of its members and other organizations having related objectives

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>.

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The state does not maintain a statewide GIS contacts list. Updates for contacts and local data sets may be coordinated/submitted through Ronald Hess: rhess@unr.edu

Primary access to state resources and contacts are available through the Nevada State Mapping Advisory Committee

Strong County GIS Departments exist in:

- Clark County - <http://www.co.clark.nv.us/ceit/gismo/gismo.htm>
- Washoe County - <http://www.co.washoe.nv.us/gis/>

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 Management 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.