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Purpose of the Procedure

The Department of Homeland Security's (DHS) Federal Emergency Management Agency (FEMA) prepared the Geospatial Data Coordination Procedures to outline sources of geospatial data and contact information, preferences for base map data and state geospatial participation in flood insurance studies, and other useful information. The Procedures provide information of common interest to the multiple flood insurance studies that occur in a State, and save the studies the effort required to repeatedly discover this information independently.

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 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):

Victoria Arthur, Geospatial Data Coordination Lead
Compass Regional Support Center 3
(215) 486-4366
varthur@tandmassociates.com
Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is either an image (orthophoto) or vector (road centerline) base map. Orthophotography is the preferred base map. The choice of orthophotography depends on the individual county being studied, and is selected on a case-by-case basis. VGIN orthophotography is available for use in FIRM products through the coordination efforts of Dan Widner at VGIN, David Gunn of VA Department of Conservation (DCR), Diane Eldridge at USGS, Nikki Roberts at FEMA Region III, and Regional Support Center 3 personnel. At the preference of specific county or communities, vector base map layers 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 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: Virginia Orthoimagery
Data currentness: Last updated in 2019, but varies by area, 4-year maintenance cycle as funding allows.
Accuracy/Scale: One of three resolutions is available for an area in the State (varies by area):
- 1 ft resolution (1” = 200’ scale); 5,000 x 5,000 ft tiles
- 6 inch resolution (1” = 100’ scale); 2,500 x 2,500 ft tiles
- 3 inch resolution (1”= 100’ and 1”= 50’ scale); 2,500 x 2,500 ft tiles
Ground sample resolution: 1.0, 0.5, 0.25 US Survey Feet depending on scale.
Horizontal datum: NAD 1983 (HARN)
Coordinate System: Virginia State Plane North and South zones, US Survey Feet
Fee associated? No.
Available for redistribution? REST services
The data also will be available through USGS http://nationalmap.gov.
Dataset source: Virginia Base Map Program (VBMP), VGIN at https://vgin.maps.arcgis.com/home/index.html. FEMA Risk MAP Mapping Partners should access the copy provided to the FEMA regional office. The data are also available from the USGS through http://nationalmap.gov.

Dataset contact: Joe Sewash, VGIN Coordinator, VITA. (804) 305 - 2953 joe.sewash@vita.virginia.gov.

Notes: In 2017, the eastern third of the State was flown at one foot resolution, with options for localities and other interested parties to upgrade resolution or purchase other optional products through the state contract. The middle third of Virginia was flown in 2018 and the western third was flown in 2019.

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

Dataset Name: Virginia Road Centerlines; Virginia Railroads

Data currentness: roads: Data is updated quarterly; Railroads: July 2006

Horizontal Datum: both: NAD 83

Accuracy/Scale: both: unknown

Fee Associated: No

Available for distribution: Yes

Are road names part of the dataset: Yes

Are road names in TIGER format? Yes

Dataset source: roads: Road Centerline Program (RCL), Virginia Base Map Program (VBMP), VGIN at https://vgin.maps.arcgis.com/home/index.html; FEMA Risk MAP Mapping Partners should request the data through the FEMA regional office.


Dataset Contact: roads: Joe Sewash, VGIN Coordinator, VITA. (804) 305 - 2953 joe.sewash@vita.virginia.gov.

railroads: Sunny Sanders, GIS Manager, VEDP. (804) 545 – 5600, ssanders@vedp.org.

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

Dataset name: Virginia National Hydrography Dataset

Data currentness: 2012-2015

Accuracy/Scale: 1:24,000 or 1:12,000 (varies by area)

Horizontal datum: NAD 83

Coordinate System: GCS NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: U.S. Geological Survey in cooperation with U.S. Environmental

Dataset contact: Earth Science Information Center, USGS, Reston, VA 20192.

1 – 888 – ASK – USGS, nhd@usgs.gov. FEMA Risk MAP Mapping Partners should request the data through the FEMA regional office. The state has not maintained this dataset and references the NHD as the State’s hydrographic dataset.

Are hydrography names part of the dataset? Yes

**Political boundaries (county, municipal)**

Dataset name: Virginia Administrative Boundaries

Data currentness: updated annually

Accuracy/Scale: N/A

Horizontal datum: NAD 83

Coordinate System: GCS NAD 83

Fee associated? No

Available for redistribution? Yes


Dataset contact: Joe Sewash, VGIN Coordinator, VITA. (804) 305 - 2953 joe.sewash@vita.virginia.gov.

Notes: Represents the best available boundary information available to VGIN as derived from Census TIGER data and supplemented with locality data made available from the towns involved or the counties containing the towns. In general, political boundaries will be obtained on a case by case basis from the best available source, usually the counties or regional planning agencies.

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

Dataset name: DCR Conservation Lands Database

Dataset currentness: updated quarterly

Accuracy/Scale: unknown

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Redistribution for profit is prohibited


Dataset contact: David Boyd, Conservation Lands GIS Planner, Department of Conservation & Recreation, (804) 371-4801; david.boyd@dcr.virginia.gov

Notes: Provides access to a composite set of boundaries and boundaries maintained by different agencies.
Cadastral (parcels)

Dataset name: Virginia Parcels
Dataset currentness: continually updated
Accuracy/Scale: unknown
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? yes
Dataset source: VGIN. Available at https://vgin.maps.arcgis.com/home/item.html?id=29627d7c051a47dc8ce71b4484531ab3
Dataset contact: Daniel Widner, Coordinator, VGIN, 804-416-6198, dan.widner@vita.virginia.gov

Notes: Attribution for these Virginia parcels is limited to locality identification and parcel id. Tax parcel boundaries have not been edge-matched across municipal boundaries. The boundaries are intended for cartographic use and spatial analysis only, and not for use as legal descriptions or property surveys. Not all localities within the Commonwealth of Virginia have a digital record for parcel geography. Local parcel data may be available from the individual jurisdictions.

Terrain (elevation)

Dataset name: Virginia Geographic Information Network (VGIN), 2002 Virginia Base Mapping Program Digital Terrain Model
Dataset currentness: Spring 2002
Accuracy/Scale: Data at one of two scales are available for an area in the State (varies by area):
- 1:2,400 scale; 5,000 x 5,000 ft tiles; statewide; supports 4 foot contours (see notes)
- 1:1,200 scale; 2,500 x 2,500 ft tiles; supports 2 foot contours (see notes)
Vertical datum: NAVD 88
Fee associated? Yes
Available for redistribution? VGIN prefers to be the distributor

Dataset source: VGIN at http://pubs.ext.vt.edu/303/303-104/303-104.html
Dataset contact Joe Sewash, VGIN Coordinator, VITA. (804) 416-6016 joe.sewash@vita.virginia.gov. FEMA Risk MAP Mapping Partners should request the data through the FEMA regional office.

Notes: Orthoimagery for the Virginia Base Mapping Program (VBMP) was developed using a flying height that would support the development of NSSDA standard contours. However, the DTM delivered as part of this project was developed for ortho-rectification only. Communities were provided the option to upgrade to additional products, including contours. In areas where this option was exercised, 2-foot or 4-foot contours are available, depending on the resolution of the imagery.
LiDAR is available for many Virginia counties and can be downloaded from http://www.vita.virginia.gov/integrated-services/vgin-geospatial-services/elevation—lidar/.

Name: Virginia LiDAR
Data currentness: 2010-2012 (varies by area)
Accuracy/Scale: Varies
Vertical datum: NAVD 88
Fee associated? No
Available for redistribution? Yes
Dataset source: Data obtained from USGS, NOAA and VGIN data portals. https://vgin.maps.arcgis.com/apps/Viewer/index.html?appid=1e964be36b454a12a69a3ad0b
c1473ce
Dataset contact: vbmp@vdem.virginia.gov

Data Distribution Process for State Data

VGIN hosts enterprise base map data through the Geospatial Enterprise Platform (GEP). The GEP is a combination of data storage, application hosting and web services. Information about accessing the GEP data can be obtained via email to vbmp@vgin.virginia.gov. In addition, VGIN has also established a metadata portal for browsing and accessing geospatial data for the Commonwealth of Virginia. Links to available data can be accessed via the Virginia Information Technologies Agency at http://vgin.maps.arcgis.com/home/index.html.

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 Preferred Base Map Sources section of this document for geospatial data that meet FIRM production requirements).

Table 1. Discovery Data Resources

<table>
<thead>
<tr>
<th>Data</th>
<th>Data Source</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watershed boundaries</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Jurisdictional boundaries</td>
<td>VGIN</td>
<td><a href="https://vgin.maps.arcgis.com/home/index.html">https://vgin.maps.arcgis.com/home/index.html</a></td>
</tr>
<tr>
<td></td>
<td>VA DCR</td>
<td>Karl Hubert, Department of Conservation and Recreation, <a href="mailto:karl.huber@dcr.virginia.gov">karl.huber@dcr.virginia.gov</a></td>
</tr>
<tr>
<td></td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Tribal land boundaries</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>State lands</td>
<td>VGIN</td>
<td><a href="https://vgin.maps.arcgis.com/home/index.html">https://vgin.maps.arcgis.com/home/index.html</a></td>
</tr>
<tr>
<td></td>
<td>VA DCR</td>
<td><a href="http://www.dcr.virginia.gov/natural_heritage/ctlownload.shtml">http://www.dcr.virginia.gov/natural_heritage/ctlownload.shtml</a></td>
</tr>
<tr>
<td>Federal lands</td>
<td>VGIN</td>
<td><a href="https://vgin.maps.arcgis.com/home/index.html">https://vgin.maps.arcgis.com/home/index.html</a></td>
</tr>
<tr>
<td></td>
<td>VA DCR</td>
<td><a href="http://www.dcr.virginia.gov/natural_heritage/ctlownload.shtml">http://www.dcr.virginia.gov/natural_heritage/ctlownload.shtml</a></td>
</tr>
<tr>
<td></td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Major roads</td>
<td>VGIN</td>
<td><a href="https://vgin.maps.arcgis.com/home/index.html">https://vgin.maps.arcgis.com/home/index.html</a></td>
</tr>
<tr>
<td></td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Streams</td>
<td>VGIN</td>
<td><a href="https://vgin.maps.arcgis.com/home/index.html">https://vgin.maps.arcgis.com/home/index.html</a></td>
</tr>
<tr>
<td></td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Coastal Barrier Resource Areas</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Coordinated Needs Management Strategy</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Topographic/ bathymetric data</td>
<td>VGIN</td>
<td><a href="https://vgin.maps.arcgis.com/home/index.html">https://vgin.maps.arcgis.com/home/index.html</a></td>
</tr>
<tr>
<td></td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
</tbody>
</table>
### State Geospatial Data Coordination Procedure

<table>
<thead>
<tr>
<th>Data</th>
<th>Data Source</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AAL data from Hazus</strong></td>
<td>RSC</td>
<td>Use of AAL data from Hazus should be coordinated with RSC 3.</td>
</tr>
<tr>
<td><strong>National</strong></td>
<td><strong>See National Discovery Data Coordination Procedure</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Coverage areas for known community and Tribal risk assessment data</strong></td>
<td>Virginia Department of Forestry</td>
<td><a href="http://www.dof.virginia.gov/gis/">http://www.dof.virginia.gov/gis/</a></td>
</tr>
<tr>
<td><strong>Status of Hazard Mitigation Plans</strong></td>
<td>Virginia Department of Emergency Management</td>
<td><a href="https://www.vaemergency.gov/">https://www.vaemergency.gov/</a></td>
</tr>
<tr>
<td><strong>Flood control structure data</strong></td>
<td>National</td>
<td><strong>See National Discovery Data Coordination Procedure</strong></td>
</tr>
<tr>
<td><strong>Locations of stream gages</strong></td>
<td>National</td>
<td><strong>See National Discovery Data Coordination Procedure</strong></td>
</tr>
<tr>
<td><strong>Locations of past flood claims and repetitive loss properties</strong></td>
<td>National</td>
<td><strong>See National Discovery Data Coordination Procedure</strong></td>
</tr>
<tr>
<td><strong>Locations of clusters of Letters of Map Change</strong></td>
<td>National</td>
<td><strong>See National Discovery Data Coordination Procedure</strong></td>
</tr>
<tr>
<td><strong>Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database</strong></td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td><strong>Areas of planned development</strong></td>
<td>VGIN</td>
<td><a href="https://vgin.maps.arcgis.com/home/index.html">https://vgin.maps.arcgis.com/home/index.html</a></td>
</tr>
<tr>
<td><strong>Areas of land use change datasets</strong></td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td><strong>Locations of ongoing projects or updated stream studies (e.g., highway improvements)</strong></td>
<td>Virginia Department of Environmental Quality</td>
<td><a href="http://www.deq.virginia.gov/">http://www.deq.virginia.gov/</a></td>
</tr>
<tr>
<td><strong>Locations of wave and tide gages</strong></td>
<td>National</td>
<td><strong>See National Discovery Data Coordination Procedure</strong></td>
</tr>
<tr>
<td><strong>Locations of wind gages</strong></td>
<td>National</td>
<td><strong>See National Discovery Data Coordination Procedure</strong></td>
</tr>
<tr>
<td><strong>Proposed inland limit of the Primary Frontal Dune, if present</strong></td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td><strong>Locations of any beach nourishment or dune restoration projects</strong></td>
<td>Virginia Department of Environmental Quality</td>
<td><a href="http://www.deq.virginia.gov/">http://www.deq.virginia.gov/</a></td>
</tr>
</tbody>
</table>
### State Geospatial Data Coordination Procedure

<table>
<thead>
<tr>
<th>Data</th>
<th>Data Source</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Comparison of preliminary stillwater elevations with effective</td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td>Available effective study data</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Orthophotography</td>
<td>VGIN</td>
<td><a href="https://vgin.maps.arcgis.com/home/index.html">https://vgin.maps.arcgis.com/home/index.html</a></td>
</tr>
<tr>
<td>Proposed discussion areas, problem areas, areas of proposed</td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td>mitigation projects</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Land use and soil information</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Reference points to locate areas with flooding issues</td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td>Hydraulic structures</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Coastal structures, including flood protection structures, shoreline</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>structures, manmade embankments, surge conveyance pathways, and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shoreline change data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local structure and topographic data from the existing hazard</td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td>mitigation plans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Historic inundation areas and high water marks</td>
<td>Regional</td>
<td>Discovery Data Repository</td>
</tr>
<tr>
<td>Clusters or locations of Individual Assistance/Public Assistance</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>grants and locations of grant projects completed, planned, or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>underway</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locations of projects and structures completed or planned for</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>FEMA Hazard Mitigation Assistance grant programs or mitigation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>funds from other agencies or entities, such as the Small Business</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other information on FEMA grants</td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td>Any data deficiencies identified in hazard mitigation plans</td>
<td>Local</td>
<td>Local</td>
</tr>
<tr>
<td>Data</td>
<td>Data Source</td>
<td>Location</td>
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<td>------</td>
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</tr>
<tr>
<td>Information from FloodSmart on market penetration</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Community Assistance Visits / Community Assistance Contacts</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
<tr>
<td>Community Rating System class information</td>
<td>National</td>
<td>See National Discovery Data Coordination Procedure</td>
</tr>
</tbody>
</table>

### Data Source

<table>
<thead>
<tr>
<th>Data Source</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information from State agencies, non-profit organizations, universities, etc.</td>
<td>Virginia Department of Forestry</td>
</tr>
<tr>
<td>Current community plans, ordinances, or programs to alleviate flooding or manage stormwater</td>
<td>Virginia Department of Emergency Management</td>
</tr>
<tr>
<td>Other known hazards with geographical boundaries (e.g., earthquake faults)</td>
<td>Virginia Department of Forestry</td>
</tr>
<tr>
<td>Campgrounds, recreational areas, emergency access routes, etc.</td>
<td>VGIN</td>
</tr>
<tr>
<td>Any other data that might be appropriate</td>
<td>Local</td>
</tr>
</tbody>
</table>
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/ProgFacts1.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

VGIN has established a metadata portal for browsing and accessing geospatial data for the Commonwealth of Virginia through the Virginia Information Technologies Agency. The link is http://vgin.maps.arcgis.com/home/index.html.

VGEP, the Virginia Geospatial Extension Program hosts links to sites where statewide data are hosted by State agencies, educational facilities and other organizations. http://gep.frec.vt.edu/data.html

The Virginia Department of Conservation and Recreation has conservation and land data available for download at http://www.dcr.virginia.gov/natural_heritage/cldownload.shtml.

National Digital Orthophoto Program (NDOP) and National Digital Elevation Program (NDEP) Tracking Systems

The National Digital Orthophoto Program project tracking system has been retired. The Federal Geospatial Platform maintains a marketplace for planned activities and an imagery community, which can be found at https://www.geoplatform.gov/.

Geospatial One-Stop

The Geospatial One-Stop has been superseded by the Federal Geospatial Platform, which can be found at https://www.geoplatform.gov/.
State Geospatial Data Coordination Procedure

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=VA.

Additional useful contacts for the State can be found at https://www.vaemergency.gov/911-geospatial/contact-isp/.

Involving the State’s Geospatial Coordinator in Flood Studies

The State Contact prefers to be contacted by FEMA Region III or RAMPP RSC3 when questions about VGIN or other statewide datasets arise.

State Coordination Process for Building Geospatial Partnerships

VGIN and the USGS have entered into an agreement to provide Federal access to the VBMP orthophotography. Other base map data are available for free. However, regular access to data using web services, etc. does require a support fee. Thanks to coordination between FEMA (Roberts), VGIN (Widner), and VA DCR (Gunn), approval to use the VGIN Orthophotography in FEMA FIRMs was granted.

VGIN acquired a new round of orthophotography flights and derived elevation datasets in 2017-2020. VGIN awarded the contract for aerial photography for this cycle to Fugro Geospatial, Inc and external quality control will be provided by AECOMM. In 2017, the eastern third of the State was flown at one foot resolution, with options for localities and other interested parties to upgrade resolution or purchase other optional products through the state contract. The middle third of Virginia was flown in 2018 and the western third was flown in 2019.

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.

The State provides a list of local, county, and regional GIS contacts through https://www.vaemergency.gov/911-geospatial/contact-isp/.

The State has very strong county governments and very strong independent city governments which exist outside of counties and function much like them. Most land use authority is in the hands of counties and independent cities.
The State has numerous water boards, river authorities, regional planning councils, councils of government, and major universities that have GIS data holdings. Examples include:

- Virginia Association of Planning District Commissions (http://www.vapdc.org)
- Radford University (http://www.radford.edu/content/csat/home/gis-center.html)
- Virginia Department of Forestry (http://www.dof.virginia.gov/gis/)
- Department of Transportation (https://www.virginiadot.org/business/locdes/gis.asp)
- Department of Game and Inland Fisheries GIS (https://www.dgif.virginia.gov/gis/)
- Department of Conservation and Recreation (http://www.dcr.virginia.gov/natural_heritage/clinfo.shtml)
- Department of Economic Development Partnership (https://gis.vedp.org/)
- University of Virginia (https://guides.lib.virginia.edu/gis/home)

In general, GIS layers are available to FEMA are developed and maintained at both the State and local level.

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 RSC 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.

Other Useful Information

FEMA Region III Elevation Data Updates

The RSC maintains an inventory of best available topographic datasets throughout FEMA Region III. These datasets may be of significantly higher resolution than the aforementioned statewide elevation datasets that are available.