

GIS Clearinghouse Data Standards

Geospatial Data – Universe of data utilized in the GIS Clearinghouse

- Vector georeferenced data
- Raster georeferenced data
- Tabular data with a geospatial component
- Geospatial Web services

Data Provider Standards

- “Virginia Spatial Metadata Light” (VSML) is the standard minimum metadata expectation for data that gets published in the Virginia Geospatial Metadata catalog. However, if this is not attainable the following will be minimum metadata elements for publishing in the Clearinghouse:
 - Title
 - Theme Keyword
 - Publisher (name)
 - Contact info (email & phone)
 - Data Currency Date
 - Scale
 - Description of data (abstract)
 - Constraints (if any)
 - Access
 - Use

NOTE: geospatial metadata not meeting VSML will be considered “in progress” or “partial”

- Acceptable projections
 - State Plane N&S, US Survey Feet
 - Web Mercator, WGS 84 (Google, ESRI etc. online projections)
 - Lambert Conformal Conic (state agency projection)
 - Geographic
 - UTM Zone 17 & 18
- Acceptable formats
 - Shape file
 - KML/KMZ

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- File Geodatabase
- Raster formats
 - GeoTIFF (.tif)
 - JPEG2000 (.jp2)
 - MrSID (.sid)
 - Imagine (.img)

Other optional formats:

 - ESRI Grid
 - ECW (ERDAS compressed format)
- Web services formats:
 - REST (REpresentational STate)
 - SOAP (Simple Object Access Protocol)
 - Open Geospatial Consortium(OGC) formats such as (Web Mapping Service) WMS, WFS, GML, etc.
 - ArcGIS Server “feature” or “image” services
 - xml based services such as GeoRSS
- Tabular Data
 - Delimited data
 - Comma Separated Values (CSV)
 - Excel, dbf
- Tabular data location information
 - Addresses (number, street, city, state, zip)
 - Coordinate information (e.g. lat/long)
 - FIPS or GNIS codes
 - <http://www.census.gov/geo/www/ansi/countylookup.html> (FIPS)
 - <http://geonames.usgs.gov/domestic/index.html> (GNIS)

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Data Download Standards

- First version of GIS Clearinghouse will match format of what data provider registers
 - “What you see is what you get”
- Future iterations will offer optional transformations