

# VGIS Data Warehouse Theme Categories and Layer Naming Convention

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Author: VT Center for Geographic Information

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**Note:** The following naming convention is consistent with the guidelines defined in the “Enterprise VGIS System: ArcSDE Configuration and Management Guidelines” (version 5b)<sup>1</sup>.

**Data Layer Theme Categories:** VGIS data layers can be assigned to one or more theme categories. The Layer tables in the VGIS Data Warehouse Cataloging database contain two theme fields; 1) THEME\_PRIM for the primary theme category and 2) THEME\_SEC for the secondary theme category. The new warehouse will adopt the top level ISO 19115 categories. Sub-categories have been developed by VCGI.

**Data Layer Naming Convention:** The following naming convention will be used when naming VGIS data layers.

**Feature Dataset:** <Theme><Theme\_sub>\_<NAME>

For example the BNDHASH layer has the following *feature dataset* layer name: BoundaryOther\_BNDHASH.

Standalone feature classes or the individual *feature classes* within each *feature dataset* have the following naming convention;

**Feature Class:** <Theme>\_<NAME>\_<featuretype>\_<subtype>

For example, the line feature class in BNDHASH is named Boundary\_BNDHASH\_line. Feature types include poly, line, point, region, route, anno, and raster. \_<subtype> handles cases in which a *dataset* has more than one feature type (ex: more than one route subclass, annotation subclass, annotation arrows, etc.).

**Note:** Names **cannot** exceed 32 characters according to ESRI documentation. Therefore <Theme>, <Theme\_sub>, and <NAME> are limited to 10 characters each (2 characters will be saved for the underscore “\_” spacers). Tiled data sets must include the tile number as part of the <NAME> (eg: WaterHydro\_VHD01080101 and Water\_VHD01080101\_poly). The appended feature class associated with a tiled data set will not include the tile number part of the <NAME> (eg: WaterHydro\_VHD).

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<sup>1</sup> [http://www.vcgi.org/techres/standards/partiii\\_section\\_m.pdf](http://www.vcgi.org/techres/standards/partiii_section_m.pdf)

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## List of adopted ISO 19115 Categories

- **Administrative and Political Boundaries: 003 (Boundary)**
  - (ISO metadata keyword = “boundaries”)
  - County: 003-0005 (County)
  - Regional: 003-0010 (Region)
  - State: 003-0015 (State)
  - Town: 003-0020 (Town)
  - Tiles: 003-0025 (Tile)
  - Other: 003-9999 (Other)
- **Agriculture and Farming: 001 (Farm)**
  - (ISO metadata keyword = “farming”)
  - Land: 001-0005 (Land)
  - Statistics: 001-0010 (Stats)
  - Other: 001-9999 (Other)
- **Atmospheric and Climatic Data: 004 (Climate)**
  - (ISO metadata keyword = “climatologyMeteorologyAtmosphere”)
  - Precipitation: 004-0005 (Precip)
  - Temperature: 004-0010 (Temp)
  - Other: 004-9999 (Other)
- **Base Maps, Scanned Maps and Charts: 200 (Basemap)**
  - (ISO metadata keyword = “imageryBaseMapsEarthCover”)
  - Landmarks: 200-0010 (Landmarks)
  - Nautical Charts: 200-0015 (Charts)
  - Scanned Maps: 200-0020 (Scanmaps)
  - Other: 200-9999 (Other)
- **Biologic and Ecologic Information: 002 (Ecologic)**
  - (ISO metadata keyword = “biota”)
  - Fauna: 002-0005 (Fauna)
  - Flora: 002-0010 (Flora)
  - Habitat: 002-0015 (Habitat)
  - Statistics: 002-0015 (Stats)
  - Other: 002-9999 (Other)
- **Cadastral and Legal Land Descriptions: 015 (Cadastral)**
  - (ISO metadata keyword = “planningCadastre”)
  - Conserved Lands: 015-0005 (Conserved)
  - Parcels: 015-0010 (Parcels)
  - Public Lands: 015-0015 (Publands)
  - Other: 015-9999 (Other)
- **Cultural and Demographic Information: 016 (Demo)**
  - (ISO metadata keyword = “society”)
  - Agricultural: 016-0005 (Farm)
  - Archeological: 016-0007 (Archeo)
  - Economic: 016-0010 (Economic)

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- Education: 016-0015 (Education)
- Historical: 016-0017 (Historical)
- Housing & Property: 016-0020 (Housing)
- Natural Resources: 016-0025 (Natres)
- Public Health: 016-0030 (Health)
- Transportation: 016-0035 (Trans)
- US Census: 016-0040 (Census)
- Other: 016-9999 (Other)
- **Business and Economic Information: 005 (Econ)**
  - (ISO metadata keyword = “economy”)
  - Statistics: 005-0005 (Stats)
  - Other: 005-9999 (Other)
- **Earth Surface Characteristics and Land Cover: 201 (Land)**
  - (ISO metadata keyword = “imageryBaseMapsEarthCover”)
  - Land Use: 201-0005 (Landuse)
  - Land Cover: 201-0010 (Landcov)
  - Other: 201-9999 (Other)
- **Elevation and Derived Products: 006 (Elevation)**
  - (ISO metadata keyword = “elevation”)
  - Contours: 006-0005 (Contours)
  - DEMs: 006-0010 (DEM)
  - Slope: 006-0015 (Slope)
  - Other: 006-9999 (Other)
- **Emergency Management: 991 (Emergency)<sup>2</sup>**
  - (ISO metadata keyword = “emergency”)
  - E911 Related: 991-0005 (E911)
  - Flood Plains: 991-0010 (Flood)
  - Natural Hazards: 991-0015 (Hazards)
  - Other: 991-9999 (Other)
- **Environmental Monitoring and Modeling: 007 (Environ)**
  - (ISO metadata keyword = “environment”)
  - Pollution: 007-0005 (Pollution)
  - Hazardous Materials: 007-0010 (Hazmat)
  - Managed Areas: 007-0015 (Mangareas)
  - Water Supply Source Protection Areas: 007-0020 (SPA)
  - Other: 007-9999 (Other)
- **Facilities, Buildings and Structures: 017 (Facilities)**
  - (ISO metadata keyword = “structure”)
  - Buildings (general): 017-0005 (Buildings)
  - Hospitals: 017-0010 (Hospitals)
  - Schools and Colleges: 017-0015 (Schools)
  - Other: 017-9999 (Other)

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<sup>2</sup> This category was created by VCGI. It isn't part of the ISO19115 standard.

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- **Fresh Water Resources and Characteristics:** 012 (Water)
  - (ISO metadata keyword = “inlandWaters”)
  - Hydrography - Rivers, Streams, Lakes and Ponds: 012-0005 (Hydro)
  - Wetlands: 012-0010 (Wetlands)
  - Other: 012-9999 (Other)
- **Geodetic Networks and Control Points:** 013 (Geodetic)
  - (ISO metadata keyword = “location”)
  - Benchmarks: 013-0005 (Benchmark)
  - Other: 013-9999 (Other)
- **Geologic and Geophysical Information:** 008 (Geologic)
  - (ISO metadata keyword = “geoscientificInformation”)
  - Bedrock Geology: 008-0005 (Bedrock)
  - Surficial Geology: 008-0010 (Surficial)
  - Soils: 008-0015 (Soils)
  - Other: 008-9999 (Other)
- **Human Health and Disease:** 009 (Health)
  - (ISO metadata keyword = “health”)
  - Statistics: 009-0005 (Stats)
  - Other: 009-9999 (Other)
- **Imagery and Photographs:** 202 (Imagery)
  - (ISO metadata keyword = “imageryBaseMapsEarthCover”)
  - Aerial Photography: 202-0005 (Photos)
  - Satellite Imagery: 202-0010 (Satellite)
  - Other: 202-9999 (Other)
- **Ocean and Estuarine Resources and Characteristics:** 014 (Ocean)
  - (ISO metadata keyword = “oceans”)
  - Fauna: 014-0005 (Fauna)
  - Flora: 014-0010 (Flora)
  - Habitat: 014-0015 (Habitat)
  - Other: 014-9999 (Other)
- **Tourism and Recreation:** 203 (Tourism)
  - (ISO metadata keyword = “society”)
  - Recreational Sites: 203-0005 (Recreation)
  - Trails: 203-0010 (Trails)
  - Other: 203-9999 (Other)
- **Transportation Networks and Models:** 018 (Trans)
  - (ISO metadata keyword = “transportation”)
  - Air: 018-0005 (Air)
  - Marine: 018-0010 (Marine)
  - Pedestrian: 018-0015 (Pedestrian)
  - Rail: 018-0020 (Rail)
  - Road: 018-0025 (Road)
  - Statistics: 018-0030 (Stats)
  - Structures: 018-0035 (Structures)

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- Other: 018-9999 (Other)
- **Utility Distribution Networks: 019 (Utility)**
  - (ISO metadata keyword = “utilitiesCommunication”)
  - Power Generation: 019-0005 (Power)
  - Transmission: 019-0010 (Transmit)
  - Telecommunications: 019-0015 (Telecom)
  - Other: 019-9999 (Other)