

VGIS Data Warehouse Theme Categories and Layer Naming Convention

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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)¹.*

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).

¹ 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)²**
 - (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)

² 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)