Thematic layers of the 1:24,000-scale base map data model

Layer Reference Map use Location Finding

Data source USGS, ArcMap, and PLSS Representation Map Grids, Labeled tics at map edge Spatial relationships Continuous data for the U.S., where it applies Map scale and accuracy Acceptable for 1:10,000 through 1:72,000 scale products Symbology and annotation Organizational standard for text sizes, tics, and lines

Layer Transportation

Map use Represent how goods and people move across the earth's surface Data source TXDOT, USGS, GNIS

Representation Routes, infrastructure, cartographic representations, and annotation Spatial relationships At least one node of road segments must connect to another road Map scale and accuracy Acceptable for 1:10,000 through 1:30,000 scale products Symbology and annotation Organizational standard based roughly on USGS 1:24,000 products

Layer Landmarks

Map use The hydrographic layer in topographic maps Data source USGS, GNIS Representation Points, Lines, Areas, and Annotation Spatial relationships None Map scale and accuracy Acceptable for 1:10,000 through 1:30,000 scale products Symbology and annotation Organizational standard based roughly on USGS 1:24,000 products

Layer Boundaries

Map use Administrative and Legal Boundaries, e.g., parks, military reservations Data source USGS, Councils of Governments Representation Lines with Areas to support annotation Spatial relationships None for TNRIS Map scale and accuracy Acceptable for 1:10,000 through 1:30,000 scale products Symbology and annotation Organizational standard based roughly on USGS 1:24,000 products

Layer Hydrography

Map use Surface Water & features for moving, storing, & managing water Data source USGS, GNIS Representation Points, Lines, and Areas Spatial relationships None for TNRIS Map scale and accuracy Acceptable for 1:10,000 through 1:50,000 scale products Symbology and annotation Organizational standard based roughly on USGS 1:24,000 products

Layer Hypsography

Map use Represent Terrain Data source USGS

Representation Elevation points, contour lines, TINs, DEMs and hillshades Spatial relationships Contour lines are only connected to other lines of the same elevation Map scale and accuracy Acceptable for 1:10,000 through 1:50,000 scale products Symbology and annotation Organizational standard based roughly on USGS 1:24,000 products

Layer **Overlays**

Map use Other useful themes such as land cover, land use, soils, etc. Data source USGS, AVHHR Imagery Representation Areas and Rasters Spatial relationships Different types do not overlap Map scale and accuracy Acceptable for 1:10,000 through 1:50,000 scale products Symbology and annotation Organizational standard based roughly on USGS 1:24,000 products

Layer Image Base

Map use Map background and reference Data source Aerial Photography, USGS DRGs, and other historical images Spatial relationships Pixels cover the image area Map scale and accuracy Pixel size is 1 to 2.5 meters

Layer Page Layout Design

Map use Provides needed needed surrounds for effective map reading Data source Map Template, maintained at organizational level Representation Map Template document for every product variation Spatial relationships None Map scale and accuracy 1:24,000 Symbology and annotation Organizational standard based roughly on USGS 1:24,000 products

Representation Raster Symbology and annotation Color or grayscale