Resilient Florida Planning Grants

GIS Data Standards

Pursuant to section 380.093 (3)(c), Florida Statutes, grantees who receive funding to complete a vulnerability assessment must submit a series of items to the Florida Department of Environmental Protection (the "Department") in the required formats below.

Section 380.093 (3)(c)(2), F.S., shown below provides the basis of the items that must be provided.

> Section 380.093 (3)(c)(2), F.S.:
> Upon completion of a vulnerability assessment, the county or municipality shall submit to the Department the following:
>
> a. A report detailing the findings of the assessment.
> b. All electronic mapping data used to illustrate flooding and sea level rise impacts identified in the assessment. When submitting such data, the county or municipality shall include:
> i. Geospatial data in an electronic file format suitable for input to the department's mapping tool.
> ii. Geographic information system data that has been projected into the appropriate Florida State Plane Coordinate System and that is suitable for the Department's mapping tool. The county or municipality must also submit metadata using standards prescribed by the Department.
> c. A list of critical assets, including regionally significant assets, that are impacted by flooding and sea

The highlighted text must meet the Department standards which have been outlined below.

- Acceptable electronic Geospatial file formats are:
  - File Geodatabases (.gdb) – Geodatabase containing Feature Classes of the datasets. This file format is exclusive to the Environmental Systems Research Institute (ESRI) software.
  - Project Packages (.ppkx) – Package file containing the project, geodatabase, and symbology of the datasets. This file format is exclusive to the ESRI ArcGIS Pro software.
  - Shapefiles (.shp) – Shapefiles are a collection of location, shape, and attributes files of a dataset.
- Geospatial data should be projected into the appropriate Florida State Plane Coordinate System.
- Reference datums to be used are:
  - Horizontal Datum: North American Datum of 1983 with 1990 Adjustments (NAD83/90), or later.
  - Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
- For Metadata standards, the standards defined by the Federal Geospatial Data Committee (FGDC) must be followed. The metadata standards may vary based on the dataset type; however, the Department requires the following items regardless of dataset type:
  - Title – Name for the dataset.
  - Summary – Short summary of what the dataset represents.
  - Description – Basic information about the dataset and its purpose.
  - Process Summary – Steps in creating the dataset or layer.
  - Dates of Data Collection
  - Date of Publication
  - Contact name for the originator of the dataset
  - Credits – Person or entity responsible for the collection/development of the dataset.
  - Use Limitation – Restrictions or legal prerequisites to using the dataset.

Additional Supporting References

- File Geodatabases and Feature Classes:
    - File geodatabases—ArcGIS Pro | Documentation
    - Feature classes—ArcGIS Pro | Documentation
- Project Packages
    - Share a project package—ArcGIS Pro | Documentation
    - Package Project (Data Management)—ArcGIS Pro | Documentation
- Shapefiles
    - Shapefiles in ArcGIS Pro—ArcGIS Pro | Documentation
- Metadata
    - FGDC Content Standard for Digital Geospatial Metadata: https://www.fgdc.gov/metadata/csdgm-standard
    - Content Standard for Digital Geospatial Metadata Workbook: https://www.fgdc.gov/metadata/documents/workbook_0501_bmk.pdf
    - Metadata Quick Guide: https://www.fgdc.gov/metadata/documents/MetadataQuickGuide.pdf
    - Other tools for Metadata: https://geology.usgs.gov/tools/metadata

For any questions about this information, please email: Resilience@FloridaDEP.gov