BLE Vector Geodatabase

Flash Card

The Base Level Engineering database is broken into a number of pieces for download through the Estimated Base Flood Elevation (EstBFE) Viewer at: https://webapps.usgs.gov/infrm/estBFE/. One of the download files is the **Vector spatial data, file geodatabase**.

This flash card assists to identify the different data elements available within this geospatial database. The vector geodatabase is organized into categories – **(1) Base (2) CNMS (3) EBFE and (4) Mitigation**

Category	Feature Name	Description
Base	S_POL_AR **or** S_FRD_POL_AR	Political Boundaries for Counties/Parishes, Towns/Cities, etc. within the study area.
Base	S_HUC_AR	Watershed (or other) boundary to define the extent of the study area.
CNMS	S_Studies_LN S_Unmapped_LN	**Studies** provides stream centerlines for study streams, also includes information about current FIRM flood zone. **Unmapped** includes streamlines beyond the Base Level Engineering study limits.
EBFE	DET_STUD_LN and DET_STUD_AR	Features provide an understanding of detailed (Zone AE/VE) study areas shown on the current effective FIRM. In these areas users should consult and review Base Level Engineering (BLE) results against the Base Flood Elevations (BFEs) shown on FIRMs prior to use of the BLE data alone.
EBFE	Subbasins	Drainage areas used for hydrologic analysis in BLE assessment.
EBFE	S_WTR_LN S_WTR_AR	The line file (LN) includes stream centerlines and the polygon (AR) file includes ponds and lakes that are within the study area.

Category	Feature Name	Description
EBFE	S_FLD_HAZ_AR	Polygon file with floodplain extents determined in the BLE study. The file includes estimated floodplain extents for 1% and 0.2% annual chance floodplains. In GIS these can be categorized using the EST_AR_ID field/column (1% is denoted with "HIGH" and 0.2% is denoted with "MODERATE" in the field). All other areas (not included) should be understood to be "LOW" flood risk during the 1% and 0.2% events.
EBFE	TENPCT_FP	Estimated flood extents expected during the 10% annual chance storm event. A 10% event should occur more frequently than the 1% and is associated with a smaller rainfall event.
EBFE	XS_1D	Location and orientation of all analysis cross-sections (XS) that were used in the BLE assessment, available for all 1D analysis areas prepared. If file is not available, analysis was performed with 2D.
EBFE	BFE_2D	BFE lines prepared from the Water Surface Elevation grid, intended to assist users to determine flow direction and provide information for estBFE Viewer.
Mitigation	S_AOMI_PT S_AOMI_AR	Files indicate areas where additional information could refine the BLE results – identifies where structure/survey would be beneficial
Mitigation	S_FRAC_AR **or** S_CenBlk_AR	This polygon feature class is the spatial foundation for all census block-based flood risk assessment data. Damage estimates for flood risk assessments performed at the Census Block are stored in this dataset.

A number of tools have been created to assist you reviewing/using data downloaded from the estBFE Viewer:
https://go.usa.gov/xsGVN
ArcReader is free for downloaded at: www.esri.com/en-us/arcgis/products/arcreader
(This free software allows the GIS files to be viewed and interacted with)