

***Mapper_NET* List of New Features and Tools**

Mapper_NET includes the following features and tools for generating FLO-2D maps and graphically displaying FLO-2D output. Starting with map options:

- Terrain elevation
- Maximum water surface elevations
- Floodplain maximum and final flow depths
- Floodplain maximum and final velocities
- Maximum flow depths in channels
- Combined maximum channel and floodplain flow depths
- Combined maximum channel and floodplain flow velocities
- Street flow maximum depths and velocities
- Duration of inundation
- Impact force, static force and specific energy
- Levee freeboard deficiency
- Scour, deposition and bed changes for the sediment transport option
- Maximum velocity vectors corresponding to the velocity magnitude

Other *Mapper_NET* features include:

- ESRI ArcGIS® Engine controls for customizing maps;
- ESRI shape file formatted data for importing land use, soil types, and Manning roughness coefficients, etc.;
- ESRI ArcInfo® ASCII grid files for importing terrain elevations;
- Multiple geo-referenced aerial photos in various imported graphic formats TIFF, BMP, JPG, etc. to provide flood map background;
- Use of breaklines to control generation of flood contour maps;
- Multiple layer edit capability including control of layer properties;
- Zoom features and a pan view adjustment;
- DTM points editing including point deletion and saving file;
- Flood animation and output of AVI files;
- Depth or velocity versus time plots at selected grid element(s);
- Flow depth and topography profile cut plots;
- Flood damage (cost) estimates based on cost tables of potentially inundated structures.
- Hazard maps based on user defined flood hydraulic intensity versus flood frequency analyses;
- Automatically generated ESRI shape files for all map plots that can be imported into ArcGIS® for further processing;
- Inline help system.