

Mapping Project Status

Mapping project status will be done on a county basis and the status of a project will not change until the entire county has reached the next stage. The first two steps are actually done by watersheds rather than for a county. Since county lines may cross multiple watershed boundaries, it is possible that a county may stay in one step waiting for the work in all watersheds to be completed.

1. Watershed Data Collected

- Assemble LiDAR elevation data for all watersheds contributing to the rivers/streams to be mapped
- "Clean" elevation data (alter bridges, culverts, etc. from elevation surface so modeled water will flow)
- Generate modeled stream network from clean elevation surface

2. Calculating Flood Flows and Depths

- Determine drainage areas from clean elevation surface
- Use statistical methods to determine peak stream flows
- Determine stream characteristics such as bed and bank roughness, shape of stream, land cover adjacent to the stream, etc.
- Model stream characteristics to determine resistance to flow
- Model depth of flood waters along given intervals of the county streams

3. Developing "Draft Flood Hazard Products" (DFHPs):

- Assemble flood inundation areas into digital map products
- Publish draft map and the data used to create the map on web portal

4. DFHPs Delivered

- Meet with County public and emergency management officials
- Deliver hard copies of DFHPs and present web portal with directions for public official feedback

5. FEMA Review

- Map is worked through FEMA approval process into an officially adopted Digital Flood Insurance Rate Map (FIRM)

6. Effective (FIRM)