Flood Query Logic - Flood Hazard Area Zone and Flood Heights

If location in an Effective Flood Zone (SFHA) then RED message - **Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.**

Display **Flood Zone**: SFHA: (A, AE, AH, AO); Floodway; Advisory A

* + If location in Floodway (SFHA) then *add* to **Flood Zone** text: “**(Floodway)**" *This applies only to effective detailed flood zones.*
  + If location in SFHA A Zone and Advisory A Zone (WSEL\_AFH) then *add* to **Flood Zone** text “**(Advisory A)**”. *This applies only to Advisory A flood zones.*

Display **Flood Height**: Advisory Flood Height, BFE, Flood Profile

* + If location in Advisory A Zone (WSEL\_AFH) then display “**Flood Height**:” About <value> ft. **(Advisory Flood Height)”.** Disclaimer.
  + If location in AE Zone Restudy (WSEL\_BFE) then display “**Flood Height**: <value> ft. **(Base Flood Elevation)”.** Disclaimer.
  + ELSE if location in Detailed Zone (SFHA: AE, AH, AO) and not AE Zone Restudy (WSEL\_BFE) then Display “**Flood Height**: Refer to **Flood Profile** of Detailed Study”. Disclaimer.

ELSE if location in Advisory Flood Zone (Depth\_HEC-RAS) and not in Effective Flood Zone (SFHA) then **MANGO** message - **Flood Hazard Area: Location is WITHIN an advisory floodplain but NOT a regulatory floodplain.**

* If location in Advisory A Zone (WSEL\_AFH) then **Flood Zone** text “**Advisory A**”.
  + Display “**Flood Height**: About <value> ft. **(Advisory Flood Height)**”. Disclaimer.
* If location in Advisory AE Zone (Depth\_HEC-RAS) then **Flood Zone** text “**Advisory AE**”.

ELSE if location in a moderate flood risk zone or near a high risk zone then YELLOW

* If location within a Shaded X or B Zone of SHFA then YELLOW message - **Location is WITHIN a moderate flood risk hazard (0.2% Annual Chance Flood).**
* If location within 75 ft. of Floodplain (Unified FPB Buffer) then YELLOW message - **Flood Hazard Area: Location is NOT WITHIN identified flood hazard area, but within 75 feet of an identified flood hazard area.**

ELSE if location not in Floodplain (N/A) then GREEN message - **Flood Hazard Area: Location is NOT WITHIN any identified flood hazard area. Unmapped flood hazard areas may be present.**

**Stream / Flood Models / Profile** (formerly query layer; no Flood Zone info required)

* Stream name (unified Effective and Advisory floodplain boundaries)
* HEC-RAS Models (unified Effective and Advisory floodplain boundaries)
* Flood Profile (Effective floodplain boundary only)

**Water Depth**

If location has a water depth (Depth\_HEC-RAS) then display “Water Depth: About <value> ft. (Source HEC-RAS).

Else if location has a water depth (Depth\_HAZUS) then display “Water Depth: About <value> ft. (Source HAZUS).

Else if location has a water depth (Depth\_EQL) then display “Water Depth: About <value> ft. (Source EQL).

**Flood Risk Information/3D Flood Visualizations**

Triggered by 3 Water Depth Grids (HEC-RAS, HAZUS, EQL)

**Standalone Layers/Variables:**

FEMA Flood Map Number (Panel Index Layer)

Map Effective Data (Panel Index Layer)

CRS Community (CRS layer)

Contacts: <county> link to FPM contacts (County layer)

Coordinate Location <mouse click>

Elevation (statewide DEM grid)

Watershed (watershed layer)

**Addresses and Parcels:**

Addresses spatially linked to Parcels