Targeting Mitigation to High Risk Properties

Percent Annual Chance Grid data delivered in the Risk MAP Flood Risk Database (FRD) defines flood risk throughout a project area based on the probability of flooding in percent.

- The Percent Annual Chance Grid illustrate the chance that a given location will flood in any single year.
- Percent 30-Year Chance Grid (Pct30yrChance) illustrates the chance that a location or property will experience a flood event during a 30-year window, the average length of a home mortgage.

In order to review the percent chance of flooding each year at any location within the community, the steps below may be followed to analyze the risk of flooding at any point within the study area. This data can be used by local officials to communicate risk to its residents.

Using Percent Annual Chance Grid data to target mitigation programs to high risk properties:

Step 1: Using ArcMap 9.x/10.x, use **ADD DATA** to navigate to the Flood Risk Database and add PctAnnChance.

Step 2: **ADD** local data. Ideally this would be address points, but other data could be used.

Step 3: Using the address points, **EXTRACT** the raster values to the points.

Step 4: From the attribute table, **EXPORT** the address/owner information.

Step 5: Once exported the data can be sorted based on the percent annual chance of flooding. Those properties could then be targeted for contact to discuss community mitigation programs that are available to them. By targeting the most at-risk properties a community can made the most efficient use of the available mitigation funds. Furthermore, this information could be used in the cost benefit analysis that is required for Flood Mitigation Assistance.

Evidence Drawn From Percent Annual Chance Grids

Elected Officials and Community Staff

- Provide a visualization tool to help building permits and inspections staff explain flood risk to developers
- Assist with developing more stringent development/building codes
- Assist emergency response staff identify high risk areas
- Highlight areas of the community for outreach and education efforts

Planning Staff

- Assist with mitigation prioritization activities and projects
- Assist with advance recovery planning and disaster preparedness
- Depict high flood risk areas for future planning needs
- Assist with Capital Improvements planning by guiding infrastructure investment away from high risk areas

Engineering and Technical Staff

- Data point for use in prioritizing mitigation projects
- Informs development decision making for risk prone infrastructure

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Ingredients:
-Percent Annual Chance data (PctAnnChance)
-Address Location Points (or Building Footprints)

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