



HPP'S FUNDING FORMULA: POPULATION, FEMA SHSP RISK SCORE, AND NATURAL HAZARD RATING

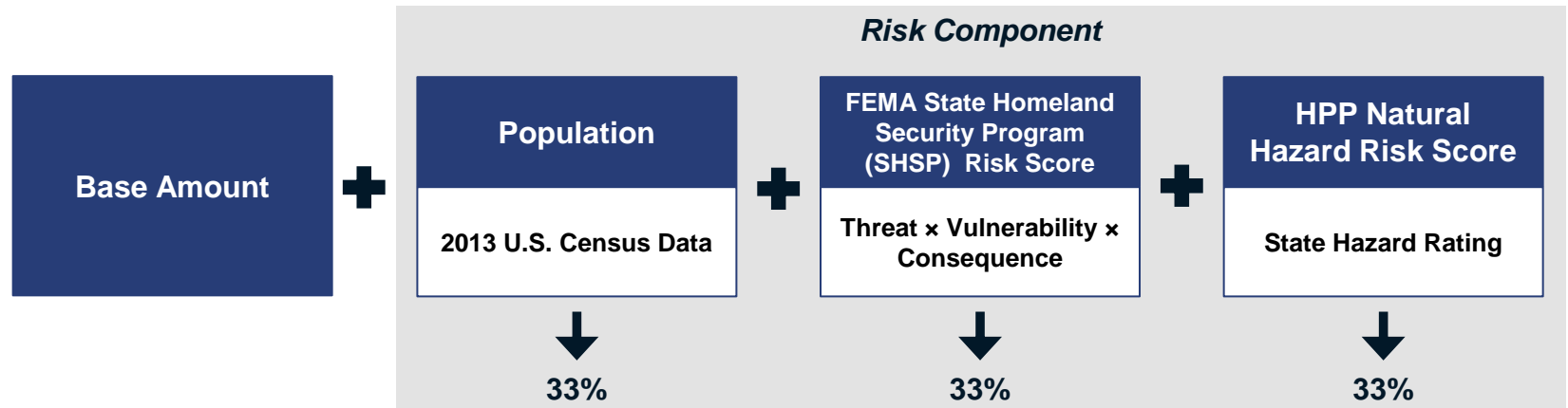
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Funding Formula Overview

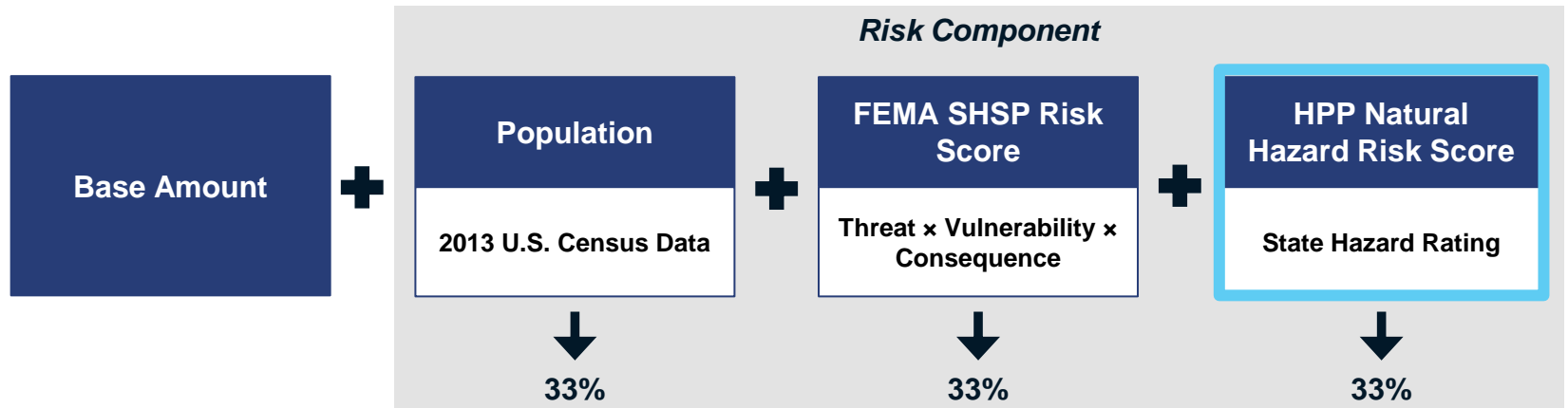
ASPR is introducing a more data-driven, inclusive, and objective methodology that considers historical hazard and incidence to account for the risk of natural disasters.



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HPP Natural Hazard Risk Score

Beginning in FY 2018, HPP will use a new formula to calculate the HPP natural hazard risk score.

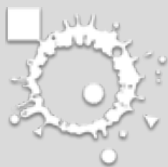


HPP Natural Hazard Risk Score Methodology

- Twenty years of natural hazard incidence data from the National Oceanic and Atmospheric Administration, the Advanced National Seismic System, and the National Interagency Coordination Center were used to determine each HPP awardee's natural hazard rating
- Awardees' hazard ratings are calculated as the sum of each hazard weight multiplied by the hazard incidence weight and expressed relative to other states on a scale of 1–100

HPP Natural Hazard Risk Score	
State Hazard Score	$= \sum_{\text{Hazard}} \text{Hazard Weight} \times \text{Incidence Weight}$
State Hazard Rating	$= \frac{\text{State Hazard Score}}{\text{Maximum State Hazard Score}} \times 100$

Calculating Natural Hazard Risk: Data Sources



Centre for Research on the Epidemiology of Disasters

- *Emergency Events Database*



National Oceanographic and Atmospheric Administration

- *Storm Events Database*



National Hurricane Center

- *Best Track Data (HURDAT2)*
- *Historical Hurricane Tracks*



U.S. Geological Survey

- *Advanced National Seismic System, Comprehensive Earthquake Catalog*

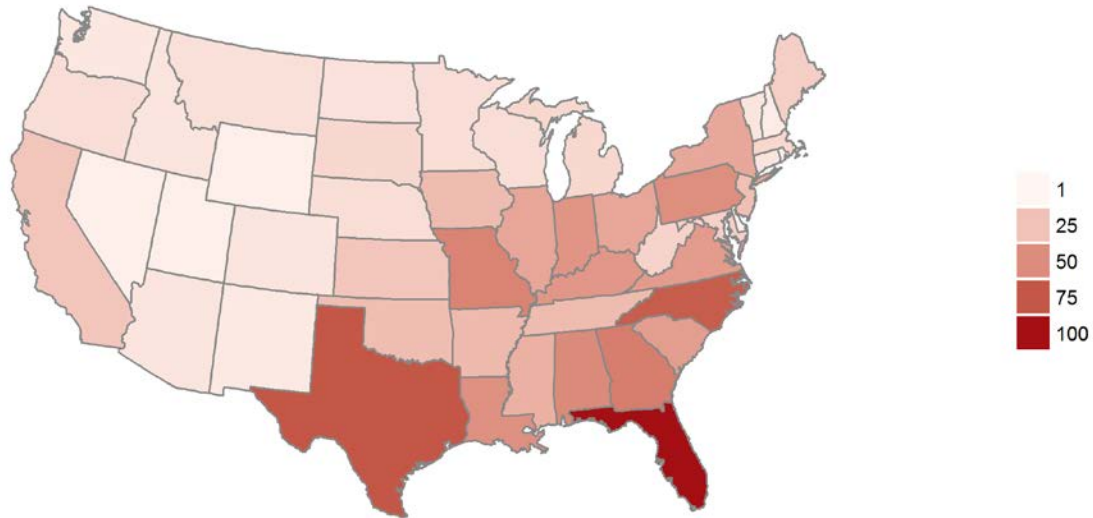


National Interagency Coordination Center

- *National Report of Wildland Fires and Acres Burned by State*

Natural Hazard Ratings Across the U.S.

Natural Hazard Ratings of the Contiguous United States



**based on data collected from the period of 1996–2015*

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Questions?

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