

Overview of NGA's State Resilience Assessment & Planning Tool

November 16, 2020

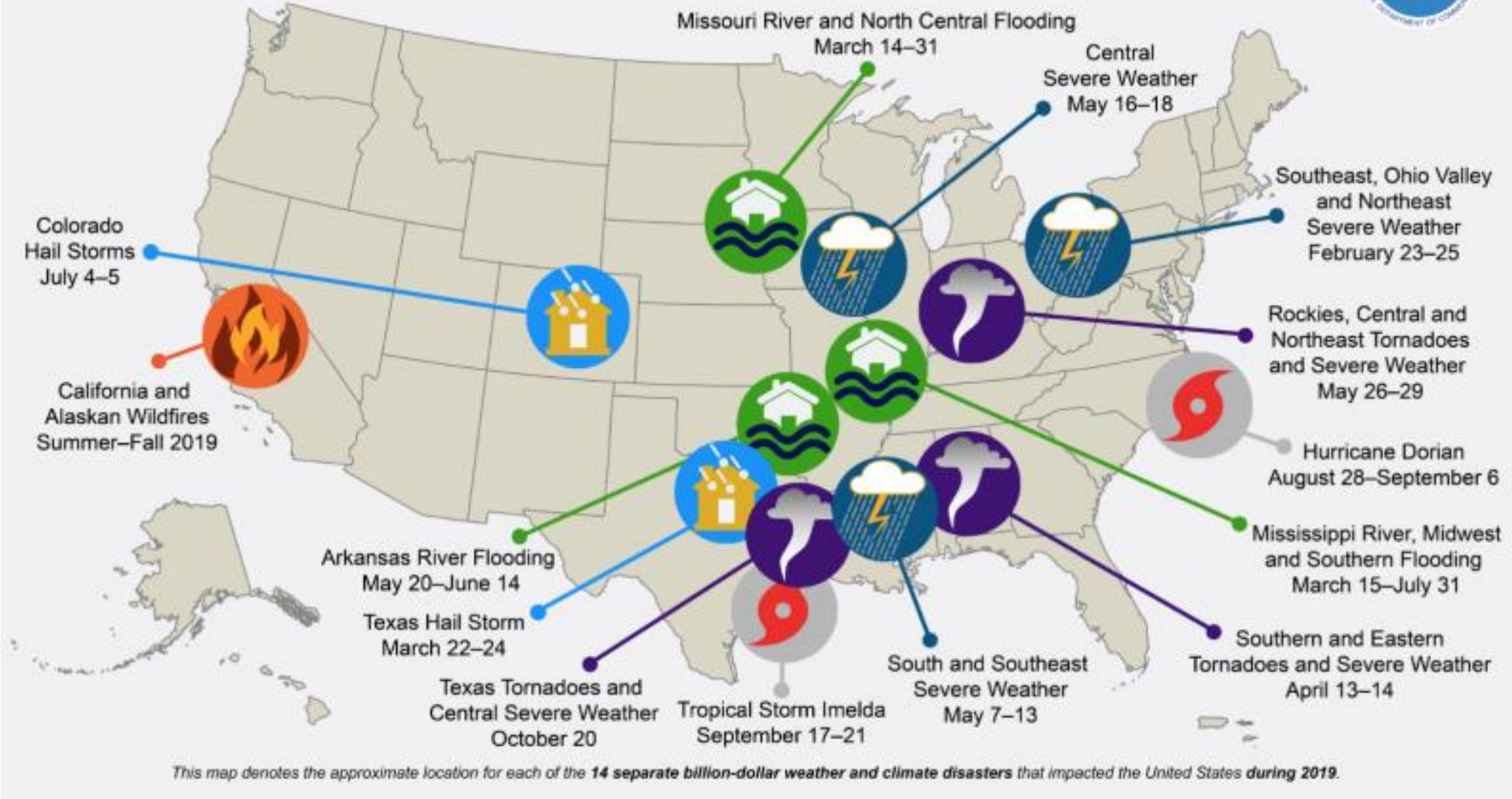


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Agenda

- Overview of SRAP Tool
- Implementation Suggestions
- State of Maryland Experience
- Questions

U.S. 2019 Billion-Dollar Weather and Climate Disasters



Source: NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2020). <https://www.ncdc.noaa.gov/billions/>

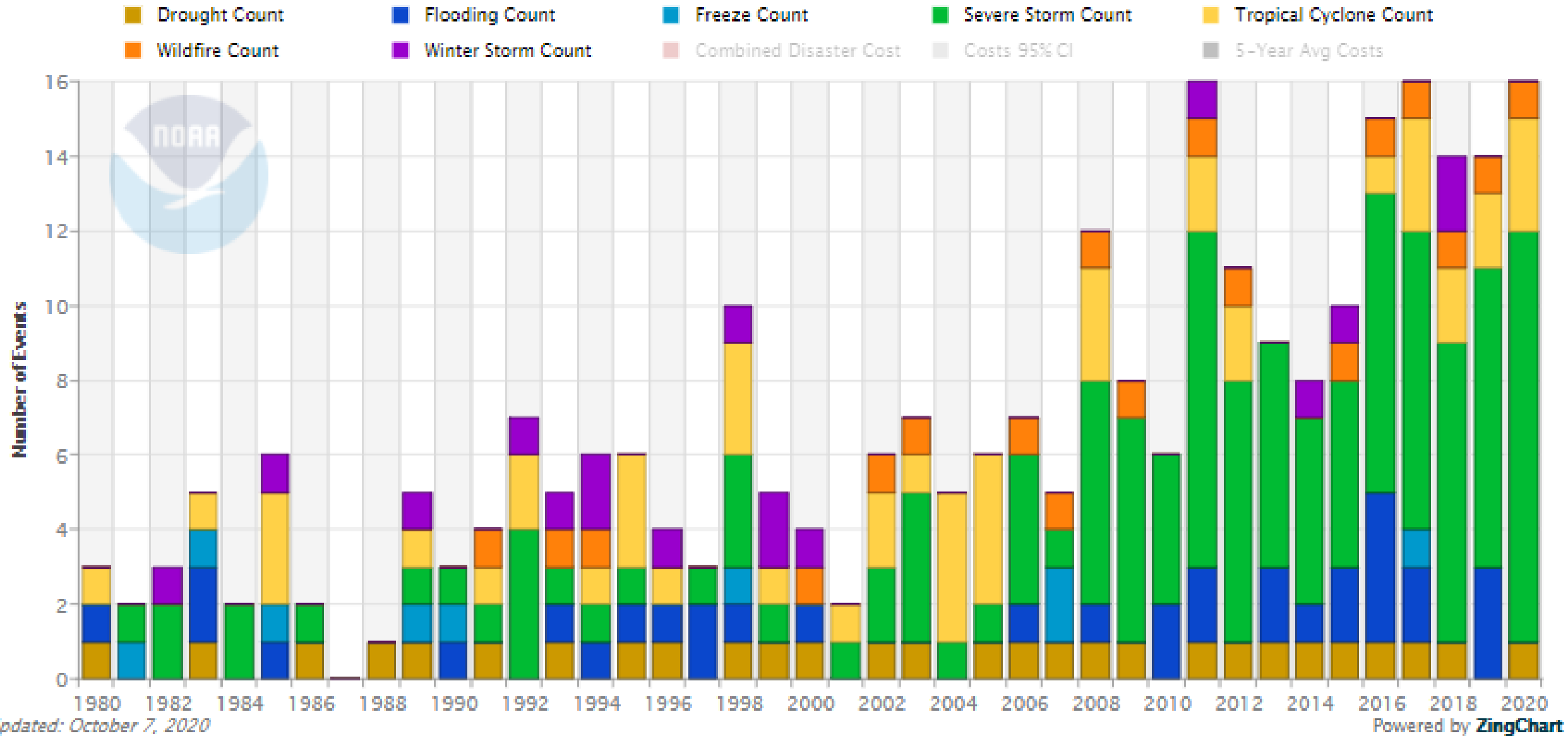
U.S. 2020 Billion-Dollar Weather and Climate Disasters



This map denotes the approximate location for each of the 16 separate billion-dollar weather and climate disasters that impacted the United States from January–September 2020.

Source: NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2020). <https://www.ncdc.noaa.gov/billions/>

United States Billion-Dollar Disaster Events 1980-2020 (CPI-Adjusted)



Source: NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2020). <https://www.ncdc.noaa.gov/billions/>

How NGA Defines Resilience

The ability to:

Withstand disasters better;

Respond and recover more quickly; and

Excel under new conditions

State Resilience Assessment & Planning Tool (SRAP Tool)

The tool is based on existing frameworks targeting other sectors & local governments

Input received and guidance from:

- Pilot States (Idaho, Maryland, and Oregon, among others)
- Other experts (e.g., IBTS, C2ES)
- Private sector (IBM, AECOM)
- Federal government (U.S. DOE CESER and OE)

Results include final score and qualitative input

Results are for the state's benefit and will not be made public

SRAP Tool Overview

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The SRAP Tool is divided into five sections

Self-assessment led by Governors' offices, completed with input from other agencies and state officials.

Energy and infrastructure focus, with five sections:

1. *Establishing Effective Governance*
2. *Evaluating and Mitigating Risk*
3. *Assessing Vulnerabilities to Critical Infrastructure*
4. *Mitigating Economic Consequences and Financing Resilience*
5. *Strengthening Community Ties*

1 - Effective Governance

Relationships are key to developing and implementing resilience measures. Resilience requires engagement from all levels of government, the private sector, and non-governmental organizations.

Specifically, this section can help

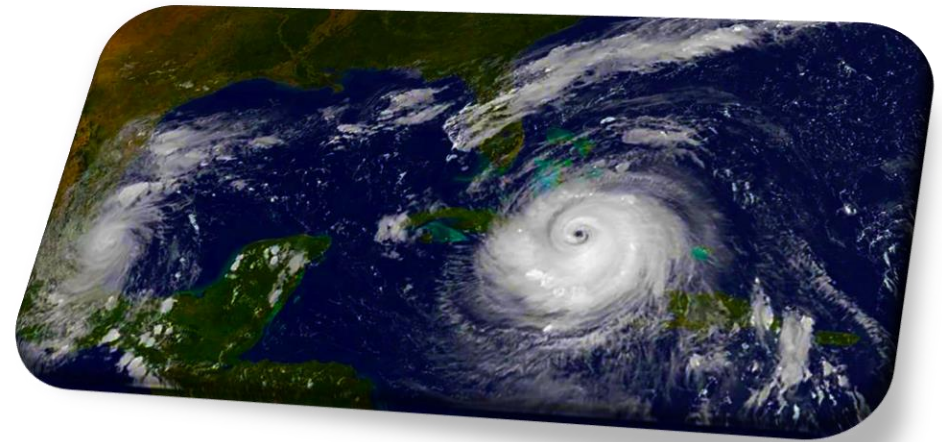
- Delineate roles and responsibilities
- Establish methods of communication with federal, state, local, and private partners
- Create appropriate documentation and training
- Implement joint planning and identification of needs



2 – Evaluating and Mitigating Risks

Pursuing resilience means preparing for future hazards, but chronic stressors and societal risks can also impact a state's ability to quickly recover.

- Complete risks assessments and address issues identified
- Coordinate with private partners
- Implement mitigation measures
 - ✓ Building codes
 - ✓ Grid hardening
 - ✓ Microgrids
 - ✓ Cybersecurity
- Work on unity of messaging



3 – Assessing Vulnerabilities to Critical Infrastructure

Energy and water infrastructure systems are also critical to the operation of other lifeline sectors like health care and emergency response. It is essential that critical infrastructure can function following an emergency.

- Promote effective and appropriate regulatory structures
- Work with the private sector and local jurisdictions to harden infrastructure
 - ✓ Communication
 - ✓ Backup power at critical facilities
- Assess critical interdependencies
- Fund critical upgrades and critical equipment



4- Mitigating Economic Consequences and Financing Resilience

States need to assess their economic resilience to ensure a continuity of services during and after an emergency.

- Identifying the state's financial needs
- Identify financial needs of localities, residents, and businesses
- Prioritize resource allocations to entities that need it the most and that are the most critical to the state's economic health
- Create continuity of operation plans
- Understand how to access federal disaster relief funding



5 – Strengthening Community Ties

Strong social and human services from private citizens, organizations, and businesses provide individuals with a safety net in times of need and complement government efforts.

- Engage community organizations and volunteer networks in state preparedness planning
- Establish and practice state communications and media plans; including tactics to combat disinformation
- Conduct disaster training and education for residents
- Ensure barriers to preparedness for at-risk populations are addressed



Implementation Strategies

- Distribute and assign portions of the SRAP Tool to relevant offices, agencies, or state subject matter experts
- Specify any objectives or areas of focus for those entities
- Governor's offices or assigned lead should combine all the responses received and submit to NGA for scoring and follow-up
- At the **outset** of this exercise and **upon completion**, NGA recommends that the Governor's office hosts a meeting with all participating offices/agencies
 - ✓ Discuss and refine the answers gathered
 - ✓ Identify next solutions to challenges identified

NGA will provide dedicated follow-up

- NGA will calculate resilience scores based on a formula that provides equal weight to each questions
 - For questions with multiple sub-questions, the aggregate response will yield the point-equivalent of one question
 - Questions deemed not applicable will not be scored
- NGA will follow up to share results, explore potential solutions the Governor's office can implement, and offer additional technical assistance as needed

Maryland's Experience

Chas Eby

Deputy Executive Director, Maryland Emergency Management Agency



SRAP Tool Findings

Dan Lauf

Energy Program Director, National Governors Association

Other Critical Infrastructure Findings

Critical Interdependencies

Address threats to liquid fuel supplies/infrastructure

Deploy effective resilience measures for priority critical infrastructure

Intergovernmental and Cross-Sector Collaboration

Support local energy resilience through with guidance and resources

Work with industry to identify solutions and coordinate investments

Funding and financing

Identify funding sources for resilience investments

Encourage private sector and utility investments that align with community needs

Planning and Exercising

Identify and address gaps in existing plans; seek broad input

Centralize resilience planning and strategically involve stakeholders

Questions?

Please email resilience@nga.org with any additional questions

Access the tool [here](#)

