Equitable Weather Messaging and Community Engagement -WFO Indianapolis

Presenter: Kaily Gomez

Mentor: Sam Lashley

















Underserved and Vulnerable Populations

Groups that have limited or no access to resources or that are otherwise disenfranchised. These groups may include people who are socioeconomically disadvantaged; people with limited English proficiency; geographically isolated or educationally disenfranchised people; people of color as well as those of ethnic and national origin minorities; women and children; individuals with disabilities and others with access and functional needs; and seniors.

FEMA.gov Glossary Section: NDRF - National Disaster Recovery Framework





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By the Numbers

- **1.25 million** people in the U.S. experienced sheltered homelessness at some point in 2020 (USICH)
- **25.7 million** people in the U.S. had limited English proficiency in 2021 (KFF)
- **37.9 million** people in the U.S. were living in poverty in 2022 (ACS)
- **42.5 million** people in the U.S. had a disability in 2021 (ACS)
- The mortality rate associated with extreme weather is **1.87x higher** among Black people and **7.34x higher** among Indigenous people (Sharpe & Wolkin, 2021)

Most dangerous weather event types in 2023

Weather event types causing the most deaths in 2023:





3. Tornado

105 deaths



91 deaths





Weather event types causing the most injuries in 2023:

1. Heat

1,862 injuries



2. Tornado

955 injuries



3. Winter weather

230 injuries































Objectives

- Connect and build trust with our community
- Hear their feedback on our current informational products
- Learn how hazardous weather affects the operations and constituents of various organizations
- Find gaps in communication
- Brainstorm solutions and develop shared goals
- Inviting diverse perspectives → Saving more lives!







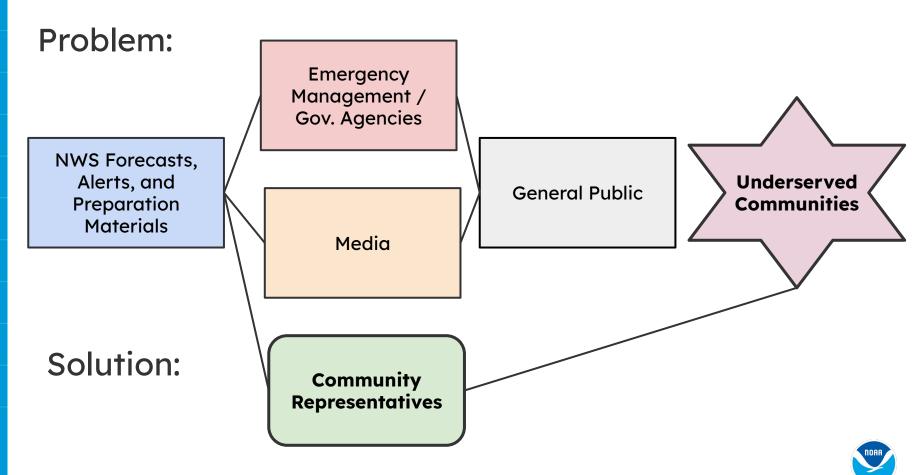


























Conference Planning

Initial Search

Putting myself in others peoples' shoes

Invitations

Invited those who expressed interest

Agenda Finalization

Icebreaker, breakout sessions. presentations, and panel Q&A

05

Personalized Emails

02

Making people feel seen increases engagement

Request ASL Interpreter

We went through NOAA OHCS

















Hello ____,

My name is Kaily Gomez and I'm an intern for the Indianapolis branch of the National Weather Service. I've been working closely with meteorologists on staff to design a conference dedicated to improving our messaging and outreach efforts. Our goal is to build relationships with various organizations in our community to ensure that severe weather information is accessible and equitable. We would love to welcome you to a seat at the table to discuss how our office can better serve your organizational objectives and your community's needs. I carefully and deliberately selected your organization due to your commitment to (insert their cause) and our shared goal to _____. We hope to combine our perspectives and build a plan to ensure safety and success for all Hoosiers both at our Equitable Weather Messaging and Community Engagement Conference on August 1st and for years to come. If you are interested in this partnership and you believe that your organization could benefit from our support, please respond to this email so we

Personalized Email Template

Thank you, Kaily

can continue the conversation.









K\$









To Exodus Refugee:

Examples

To accessABILITY:

I carefully and deliberately selected your organization due to your commitment to welcoming refugees to Indiana and our shared goal to ensure that they have a smooth transition. We know that adjusting to a different climate in the midst of seeking refuge can be an incredibly stressful experience. We believe that our services can help alleviate some of that stress and increase a sense of security in the face of hazardous and unfamiliar weather.

I carefully and deliberately selected your organization due to your commitment to Disability Rights and our shared goal to ensure that people with disabilities have all the resources they need to live independently. We believe that everyone should have access to life-saving information and we want to make sure that the emergency messaging we distribute is inclusive.

















Conference Day



Cognitive Diversity Icebreaker

- ★ List sea creatures on your own
- ★ Share with your group
- ★ Learn to collaborate and accept diverse answers



Presentations

#1: Sam Lashley - NWS Services and Products, WRN Ambassador Program

#2: Allison Curry (IDHS) - Emergency Management State Resources

#3: Jeremy Swartz (FEMA) - Equity in Emergency Management

#4: Monica Bozeman - NWS LEP by

CWA Dashboard



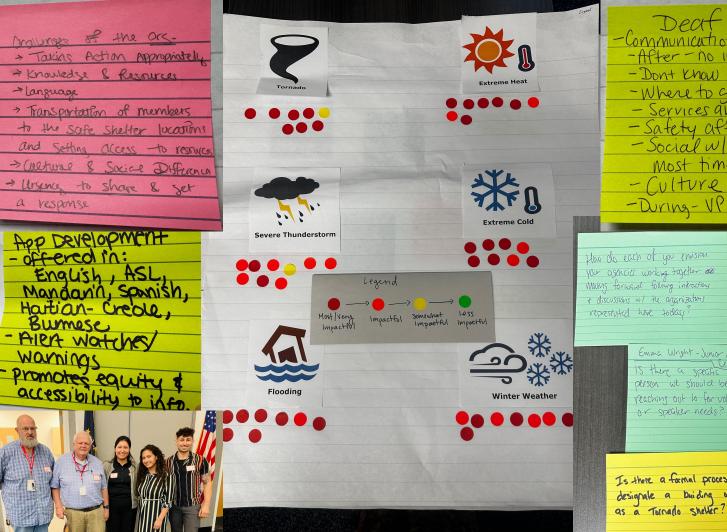
Breakout Sessions

- Rank each hazardous weather type by level of impact to your organization and/or to those you serve.
- 2. How would you respond to tornadic storms on a busy Friday afternoon? What are your biggest concerns?
- 3. What barriers prevent your constituents from preparing for inclement weather?



Panel Q&A

3 WFO Indianapolis Representatives, 1 IDHS, and 1 FEMA with brief remarks from Red Cross



Dect DeatBling? -Communication access -After-no interpreters - Don't know what to do - Where to go? - Services available? - Safety after -Social wlothers most time isoluted - Culture - During - VP need internet

you do each of you envision your aschaics working tagether our Moving forward following intractions + discussions w/ the organizations represented here today.

How do you find the genrest shetter If you're not at home, such as in the city or on a highway?

(outside of websites)

Michelle Wickham - Indiana Disability Rights

What are the best practices or recommendations for emancing prepared for people we a variety of disabilities

Christopher Hernandlz - Red Cross Are multi-lingual reports quaitable for publication in addition to

the great products we already benefit from?

Is there a formal process to designate a building or Room

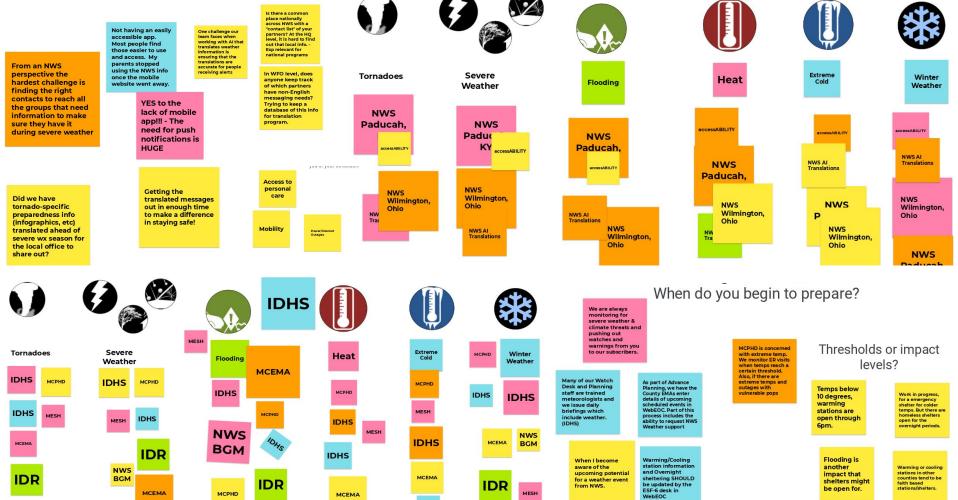
Emma Wight - Junior Achievant of Is there a specific

person we should be rective

reaching out to for volunteer

Ar speaker needs?

Scenario 3 - Challenges and Barriers















Results

- \succ Turnout: 30-40 in-person, 47 virtual \rightarrow 80+ attendees
- > Concerns about translations, evacuation plans, availability of resources, cultural barriers, and identification of storm shelters
- Extreme heat and cold seem to have the highest impact but lowest priority – impacts are being seen before alerting threshold is reached
- Probabilities are confusing even for EMs, especially for winter weather
- > Many requests for an accessible weather app, captioned ASL videos, and more graphics !!!
- > JPEGs are easier to disseminate than PDFs
- Sirens and evacuation notices may not be understood by immigrants and could be mistaken for war signals or deportation













Suggested Improvements

- ☐ Take 4-6 months *minimum* to plan future conferences
- Send invitations to all new potential partners
- ☐ Make time for more one-on-one meetings
- Plan activities with accessibility in mind rather than making accommodations afterwards
- Coordinate schedules for the entire planning team
- Randomize breakout session groups
- □ Request in-person ASL interpreters 3-6 weeks in advance
- ☐ Test logistics at facility beforehand















Takeaways

- HUGE step towards children achieving service equity
- Many new connections made and many more to come
- Leaving a lasting impact with tangible resources
- Making underserved communities feel seen and respected through inclusion

Department of Commerce | Natio















Immigrant Welcome Center









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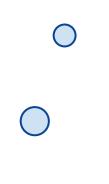




Big-Picture Goals

Share our findings and templates with other WFOs to make these events a NOAA-wide initiative! Meet with individual groups & hold conferences for specific communities

Hold an annual conference, create a Service Equity Team, and put more boots on the ground





















NWS Indy Team: Sam Lashley, Cody Moore, Earl Breon, Greg Melo, Kacie Fuson, Crystal Pettet, Aaron Updike, and Ted Funk

Other NOAA Affiliates: Kim Klockow, Jennifer Day, Valerie Were, Leticia Williams, Bali White, Mary Dunbar, and Peter Roohr

IDHS: Allison Curry and Eden Krumholz

FEMA: Jeremy Swartz

All of our partners, both new and long-standing!

Special Thanks to Sponsors: NOAA EPP/MSI Undergraduate Scholarship Program and NWS HQ DEIA Program

