# Clear Communication, Safer Communities: Refining Heat Messaging in the Northeast

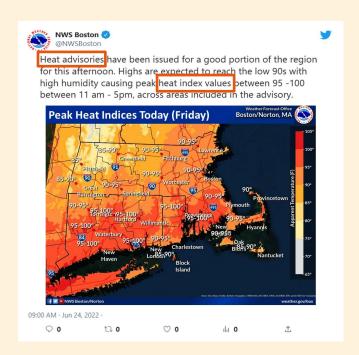
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# **Study Purpose**

### **Jargon**

"Technical or specialized language that relates to a particular context or serves a particular purpose for a homogenous group yet is rarely used (or readily understood) outside of those situations."

- (Sharon & Baram-Tsabari, 2014)



# **Reseach Questions**

Hazard How do people interpret NWS heat alerts, descriptions, and impacts? Information Vulnerability • How do people interpret NWS vulnerability information? Information Protective Action • How do people interpret NWS heat protective actions? Information

# **Focus Group Locations**

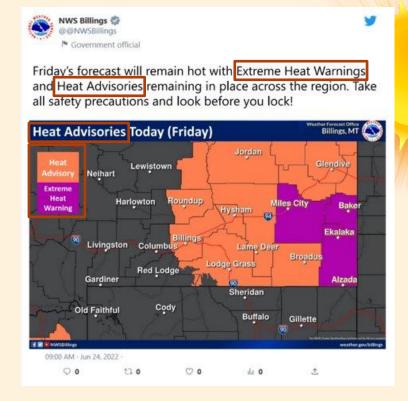
NWS Region	Cities
West	<ul> <li>Seattle, WA</li> <li>Sacramento, CA</li> <li>Phoenix, AZ</li> <li>Billings, MT</li> </ul>
Central	<ul><li> Quad Cities, IA</li><li> Milwaukee, WI</li><li> St. Louis, MO</li><li> Denver, CO</li></ul>
South	<ul> <li>Houston, TX</li> <li>Orlando, FL</li> <li>Nashville, TN</li> <li>Oklahoma City, OK</li> </ul>
East	<ul> <li>Boston, MA</li> <li>Philadelphia, PA</li> <li>Baltimore, MD</li> <li>Charlotte, NC</li> </ul>

# **Focus Group Questions**

What are your thoughts about this message?

What stands out to you?

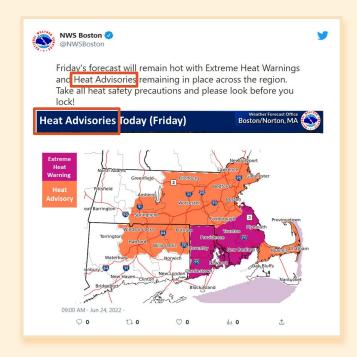
Is there anything you find difficult or confusing to understand?



# **Heat Alerts**

### **Heat Advisory**

- 1. Be aware (attention vs. action)
- Don't know what it means.
- 3. Hotter than normal, but not urgent
- 4. Most relevant to people pre-existing conditions
- 5. Need specific temperatures to make actionable



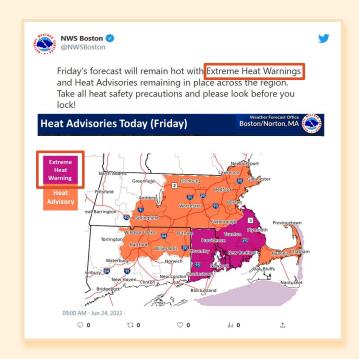
"That's what advising means. We can't tell you what to do. We can't tell you how to plan, but we're advising you that it could be bad"

- 72-Year-Old Female, Houston TX

# **Heat Alerts**

### **Extreme Heat Warning\***

- Worse and more concerning than advisory
- But needs to be *extremely* hot (e.g. 100+)
- 3. More willing to act
- 4. Could harm anyone
- 5. Need specific temperatures to make actionable

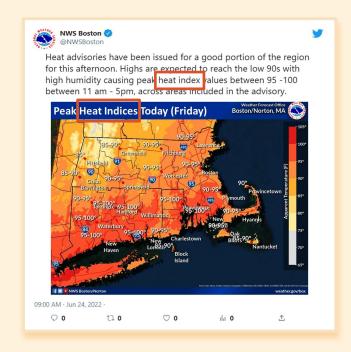


\* NWS changing to "extreme"

# **Heat Description**

### **Heat Index**

- Mix of knowledge
  - What it feels like vs. don't know
- Uncertain to the factors which modify the air temperature
  - Correct (humidity) and incorrect (e.g., rain)
- 3. Unsure why high humidity is dangerous



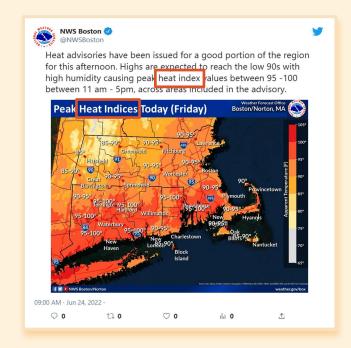
"I don't know what peak heat index values mean. I think I've heard that referred to as the 'feels like' temperature. But I'm truly not sure."

-46-Year-old Female, Boston

# **Heat Description**

### **Heat Index**

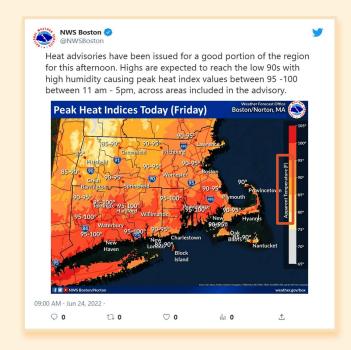
- Overwhelmingly preferred "feels like"
  - Mirror weather apps, broadcasters, websites, etc.
- Make connection to humidity



# **Heat Description**

### **Apparent Temperature**

- 1. Unknown and/or "guessing"
- Actual, approximate, estimated, supposed, predicted
- 3. Do not like 2 terms for same thing
- 4. Again, prefer "feels like"



# **Heat Impacts**

### **Heat Illness**

- Typically named heat stroke and heat exhaustion
- 2. Also included sunburn, depression, and symptoms
- 3. Many had not seen term before
- 4. Described as "vague" or "meaningless"
- Instead, specific illnesses and symptoms should be listed if possible



# **Heat Vulnerabilities**

### **Vulnerable**

- Many defined as demographics that will be more impacted
  - However, factors outside the individual also make people at risk
- Not offensive
- CDC says "people who are at increased/higher risk"



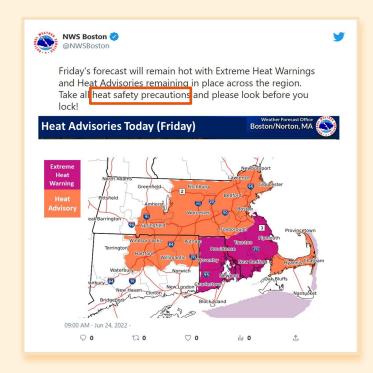
# **Protective Actions**

### "Heat Safety Precautions"

- People don't know what do because no specific actions provided
- Could cause people to do something ineffective

### "Look Before you Lock" & "Beat The Heat"

- 1. These phrases are unknown to most.
- 2. Require a preexisting education campaign to understand.
- 3. Spell out what actions people should take.



# **Summary & Reccomendations**

Current Language	Recommended Messaging
Heat watch, warning, advisiory	<ul><li>Specific temperature(s)</li><li>Time conditions expected</li></ul>
Heat Index and Apparent Temperature	"Feels like" and why
Heat Illness	Specific illnesses and symptoms
Vulnerable	"People at increased/higher risk"
Elderly	"People age [numeric age group]"
Look before you lock, beat the heat, stay cool, check on your neighbors, etc.	Specific actions and steps (if applicable)

# Looking for Work!



**Bruce Pollock** 

Graduating 2025!



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