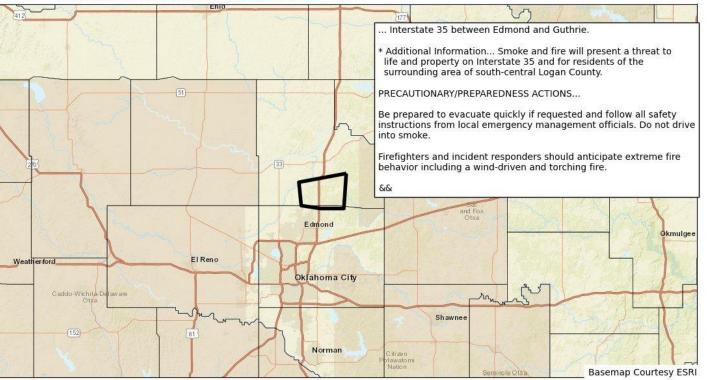




## **Study Motivation**

- $\circ$  "Simpson Road Fire" north the Oklahoma City, OK metro area (March 31, 2023) "Route 66 Fire" near Weatherford, OK (April 4, 2023)
- Norman to help warn and evacuate the public
- meteorologists and other emergency managers, and what type of response(s) occurred:
- What was happening on the ground?
- What was being communicated?
- What kinds of actions were taken?

OUN Fire Warning (FRW) till Mar 31 2023 5:00 PM CDT Estimated 2020 Population for Polygon: 18,245



## Surveys

Generated at 31 Mar 2023 3:39 PM CDT in 5.

Researchers developed two (2) surveys to better understand emergency managers' and broadcast meteorologists' use of fire weather forecast information/products:

IEM Autoplot App #2

- Deployed in fall/winter of 2023/2024 (broadcast meteorologist survey still ongoing)
- Pilot area: Oklahoma and north Texas
- Many quantitative questions, three qualitative questions (EM survey):
- **Thematic analysis** conducted on qualitative answers
- Inductive coding used to form general themes

#### **Emergency Manager Survey Topics**

- Jurisdiction information
- Fire weather forecasting sources
- Active wildfire operations
- NWS fire weather products
- 2023 Oklahoma wildfires

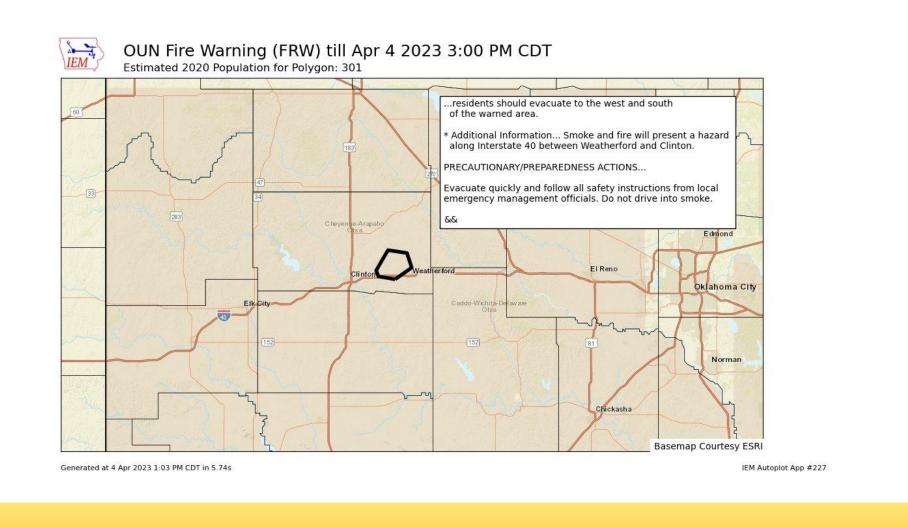
First, we would like to learn about your jurisdiction's that you play as an emergency manager.	Is relationship with wildfires and the role During wildfire operations, what role do you typically play? Check all that	We useful is a Fire Warning for communicating wildfire risk to your viewers?         Not at all useful       Extremely useful	<ul> <li>Public is most actively engaged once a Fire Weather Watch and/or a Red Flag Warning is issued</li> <li>Primary modes of informing the public include:</li> <li>Social media, mass notification systems, local media (also mentioned - billboards and red flags)</li> </ul>
What is your job title (include any non-emergency not include the name of your jurisdiction)?	apply: Monitoring firefighting activities Monitoring changing weather conditions Coordinating or ordering resources	In your opinion, how helpful are Fire Warnings for public awareness and response to wildfires?	with wildfires. How would you characterize the risk that wildfires pose to your television market? Amost no risk
What type of jurisdiction does your emergency mar   County   City   Tribal   State		Not at all helpful   Somewhat helpful   Helpful   Very helpful   Extremely helpful	Some risk         Medium risk         High Risk         Extreme Risk         What weather conditions do you    • Collect additional data from broadcast meteorologists and conduct full analysis • Conduct potential follow up interviews with emergency managers and broadcasters • Expand geographic extent with future iterations of the survey
Other (Please Elaborate)	During wildfire operations, where are you most likely to be physically located?	I don't know	In online for the thread of wildline'

# How Emergency Managers & Broadcast Meteorologists Receive, **Use & Communicate Wildfire Forecasts & Alerts** David Hogg, Holly Obermeier, Taylor Maciag, Makenzie Krocak, and Kodi Berry

**Two destructive fires** occurred in the area of the Norman, OK NWS Weather Forecast Office (WFO)

• Fire Warnings were issued for both fires using a novel "IWT Fire Warning procedure" developed at WFO

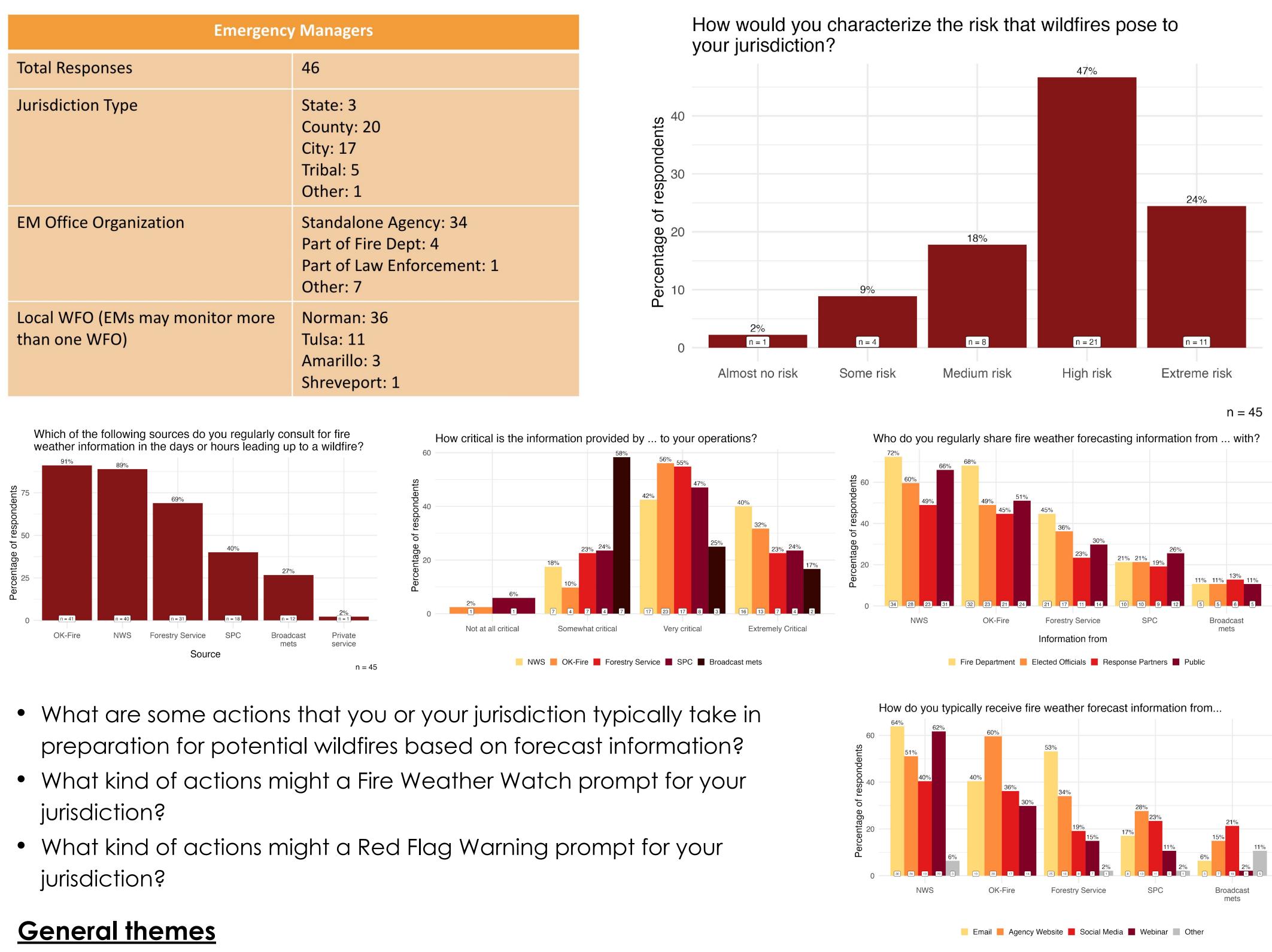
**Questions remained** about how fire weather information was received by the public, broadcast

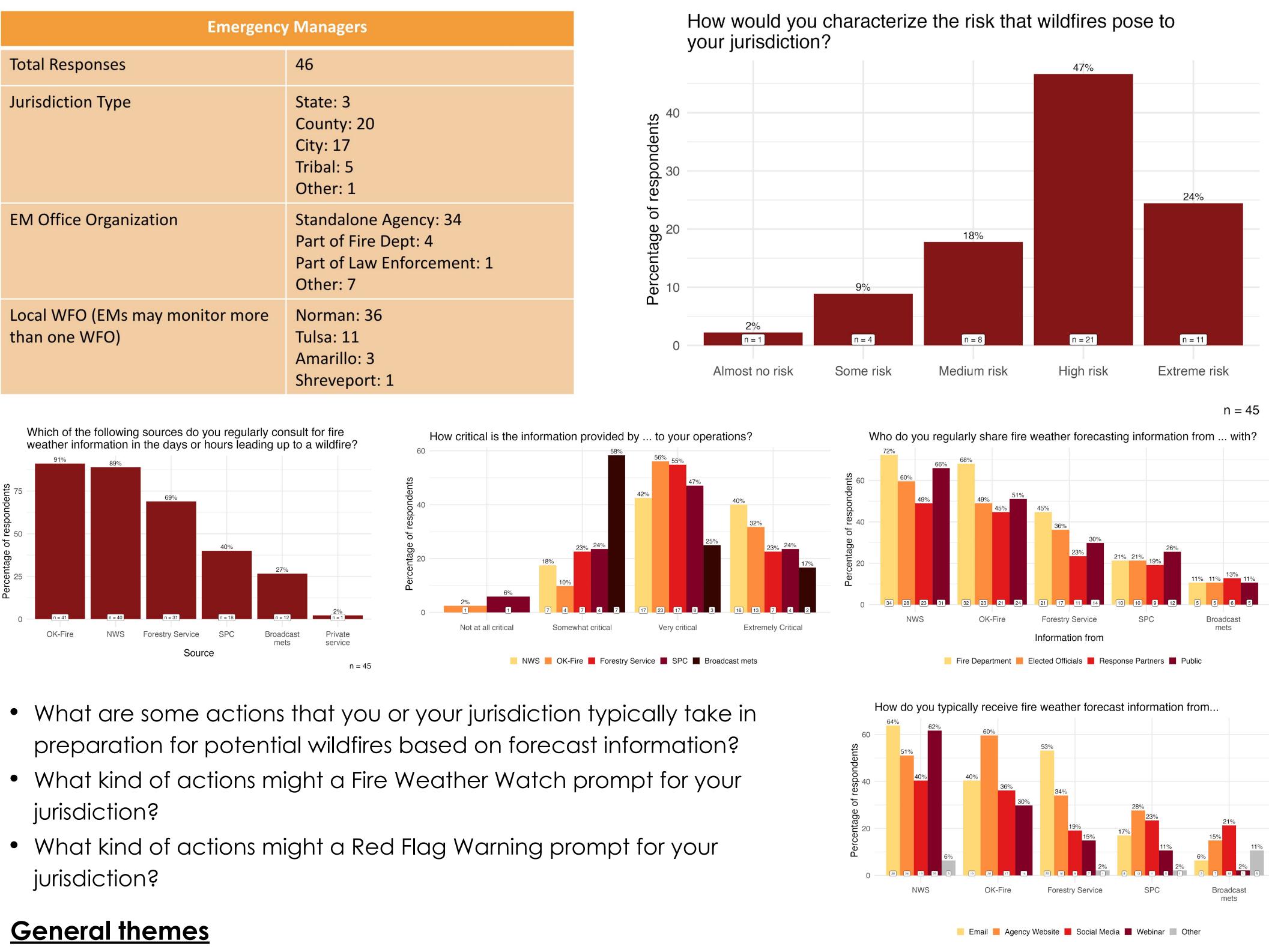


#### Broadcast Meteorologist Survey Topics

- Wildfire risk regarding television market
- NWS fire weather products
- Usefulness of fire weather products for communication on television
- Demographics

## **Results - Emergency Managers**





# Four categories of preparation

- Alerting contacts (fire departments & chiefs, city, county, state & tribal entities) Using multiple modes (email, pager, phone call, Slack, text group, virtual call like Zoom)
- Assessing staffing (EOC, dispatchers, volunteers, spotters)
- Checking and readying resources (initiating WAR days, road equipment, water tankers, aircraft) • Maintaining situational awareness (field reports, weather conditions)

#### Communication with the public

- Public is most actively engaged once a Fire Weather Watch and/or a Red Flag Warning is issued
- Primary modes of informing the public include: • Social media, mass notification systems, local media (also mentioned - billboards and red flags)

### **Future Work**

- Collect additional data from broadcast meteorologists and conduct full analysis
- •Conduct potential follow up interviews with emergency managers and broadcasters
- Expand geographic extent with future iterations of the survey

