

Flood, Storm, and Wildfire-SAFER: An AGOL Application Suite enhancing hyper-local awareness for the NWS, Core Partners, and the Public

Jared Allen (WFO Cheyenne, WY)

The Situational Awareness For Emergency Response (SAFER) suite is a set of ArcGIS Online (AGOL) dashboard applications designed for increased internal and external weather hazard situational awareness for a multitude of National Weather Service (NWS) Impact-based Decision Support Services (IDSS). Three main applications comprise the application suite 1) Flood-SAFER 2) Storm-SAFER and 3) Wildfire-SAFER. All three applications are wrapped into the Wyoming SAFER Hazard Dashboard.

- 1) Wyoming SAFER Hazard Dashboard: <https://arcg.is/aanH5>
- 2) Storm-SAFER Application: <https://arcg.is/1faruT0>
- 3) Wildfire-SAFER Application: <https://arcg.is/1Dj8XC>

Each application is thematically designed and incorporates GIS layers to enhance spatio-temporal awareness for rapid hazard assessment and actionable decisions by the NWS and emergency managers. These applications strengthen and allow for clearer communication of weather hazards through greater warning text specificity, improved NWSChat notification, direct screen sharing capabilities to EOCs, and faster social media content generation. These applications have been focus-group tested, used for table top and functional exercises, and operationally implemented in Mississippi, Texas, and Wyoming. The applications are flexible and adaptable to any location in the United States or NWS Weather Forecast Office.