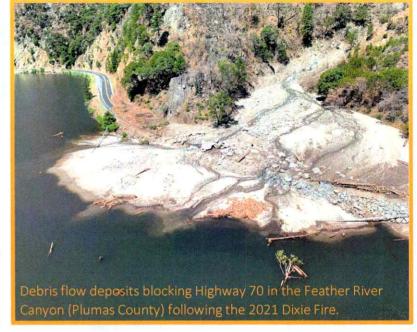


### Burned Watershed Geohazards Program

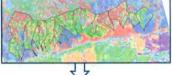
Wildfire can remove vegetation and alter soil properties, increasing runoff to multiple times over pre-fire conditions. Soil, ash, burned vegetation, boulders, and other debris can be scoured from hillslopes and channels and mobilized as damaging debris flows that threaten life, property, and infrastructure.

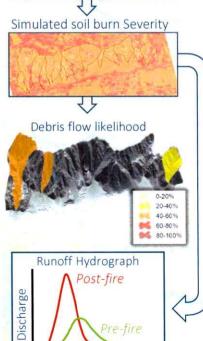
The California Geological Survey's Burned
Watershed Geohazards (BWG) Program plays
a vital role in assessing post-fire hazards,
conducting Watershed Emergency Response
Team (WERT) assessments, prescribing
mitigations and effective emergency response
strategies, and monitoring burn areas to
collect data necessary to contribute to the
understanding of post-fire science.



### Pre-fire Hazard Assessment

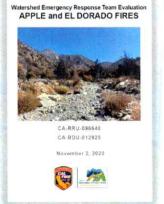
Existing Vegetation Type data





Time

#### Post-fire Assessment (WERT)



# Post-fire Rainfall Threshold Assessment

Rainfall triggering thresholds for debris flows are determined for the first few years following wildfires and used by the National Weather Service to alert communities to post-fire debris flow hazards.

# Post-fire Monitoring & Research



Weather station used to monitor post-fire conditions that may trigger debris flows and floods. In addition, streamflow is often monitored.



Mini-disc infiltrometer used to estimate soil saturated hydraulic conductivity.



Scan the QR code to learn more about the BWG Program.