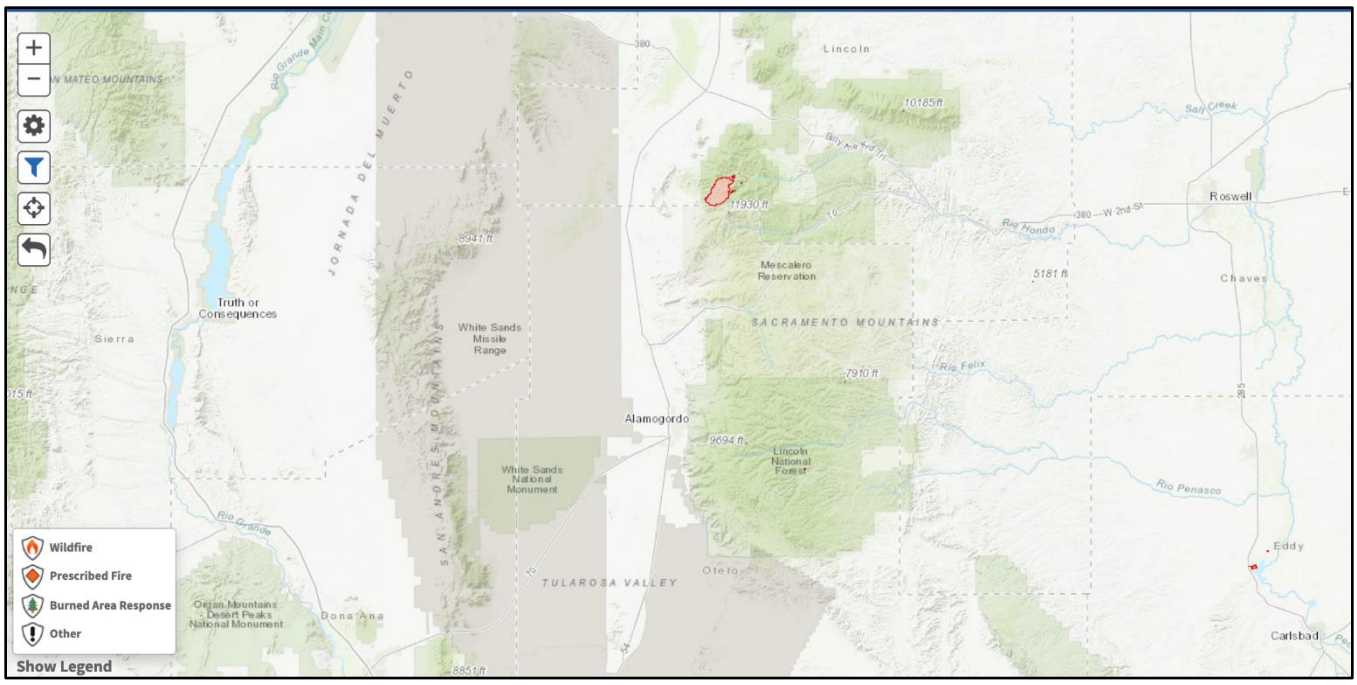

2021 Lincoln BAER

Unit Information

Lincoln National Forest
U.S. Forest Service
3416 Las Palomas Road
Alamogordo, NM 88310

USGS Debris Maps Released

2021 Lincoln BAER Burned Area Emergency Response

EMERGENCY ASSESSMENT OF POST-FIRE DEBRIS FLOW HAZARDS

The **Forest Service (USFS) Burned Area Emergency Response (BAER)** assessment team coordinated early with US Geological Survey (USGS) staff during its evaluation of the Three Rivers Fire burned area to strategically assess potential post-fire impacts to the watersheds and predicted debris flow response during damaging storm events.

From the USGS website found at https://landslides.usgs.gov/hazards/postfire_debrisflow/ (https://landslides.usgs.gov/hazards/postfire_ debris flow/):

"Wildfire can significantly alter the hydrological response of a watershed to the extent that even modest rainstorms can produce dangerous flash floods and debris flows. The USGS conducts post-fire debris hazard assessments for select fires in the Western U.S. We use geospatial data related to basin morphometry, burn severity, soil properties, and rainfall characteristics to estimate the probability and volume of debris flows that may occur in response to a design storm."

USGS Fact Sheet 176-97 (http://pubs.usgs.gov/fs/fs-176-97.pdf), entitled "*Debris Flow Hazards in the United States*" contains information used to interpret the debris flow map and analysis that was incorporated into the BAER assessment team's anticipated soil erosion and hydrologic response findings. According to the USGS, "Analysis of data collected from studies of debris flows following wildfires can answer many of the questions fundamental to post-fire hazard assessments – what and why, where, when, how big, and how often?" This information is extremely important in assisting in flooding, sediment and soil erosion, and a high probability of debris flows – all of which are potential risks to human life, safety, and property.

SPECIAL NOTE: *Everyone near and downstream from the burned areas should remain alert and stay updated on weather conditions that may result in heavy rains over the burn scars. Flash flooding may occur quickly during heavy rain events – be prepared to take action. Current weather and emergency notifications can be found at the* ***National Weather Service*** *website:* NWS El Paso.

Related Information

USGS Debris Flow Maps Released:

Map: USGS 24 mm/hr Probability 8x11 (755 KB)
Map: USGS 24 mm/hr Volume 8x11 (756 KB)
Map: USGS 40 mm/hr Probability 8x11 (756 KB)
Map: USGS 40 mm/hr Volume 8x11 (757 KB)