Warnings for Flash Floods and Debris Flows

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Weather.Gov
- **Flash Flood Watch** – potential for heavy rain exceeding thresholds today or tonight

- **Flash Flood Warning** – heavy rain is occurring or imminent and flooding is expected along with possible debris flow for “defined area”

- Threshold for rainfall (rate per hour) would be met and burn scar would be mentioned in Flash Flood Warning if affected
TV and radio EAS alerts

Wireless emergency alerts
NWS Warning polygon
Wireless Emergency Alert in polygon
Monitoring weather from the Emergency Operations Center and NWS

NWS San Diego
Rain showers on Weather Radar
Showers came in late Wednesday evening
October 3 (Orange County)
Rainfall from Showers
National Weather Service
Flash Floods and Debris Flows

Building a Weather-Ready Nation
Cranston Fire Scar
Burn assessment

USGS and USFS report
Rainfall can be localized
Monsoon thunderstorm
Flash Flood monitoring
Basin level for each drainage
Force and depth of flash flood debris flow
Atmospheric River

BIG storms

Jet Stream

highest moisture in yellow and red
Winter Storm
Rainfall is widespread but localized heavy

This type of “embedded rainfall” can cause high rain rates and debris flows.
TADD program
Partnering with Caltrans

Weather.Gov
http://www.nws.noaa.gov/os/water/tadd/