



Post-Fire Watershed Recovery Update 1.28.2021

A Tradition of Stewardship
A Commitment to Service

Objectives

- Coordinate with Multi-Agency Working Group.
- Communicate a Unified Message.
- Provide community resources to assess their properties for post-fire hazards.
- Identify Recovery Resources & Programs.
- Early Warning assessments and outreach.
- Avoid Redundancies.
- Identify Gaps in Service.

Post-Fire WERT



Watershed Emergency Response Team (WERT)

- Assist Communities
- A rapid evaluation of Values-at-Risk (VARs) subject to post-fire hazards, including:
 - Debris Flows
 - Flooding
 - Rock Fall
 - Tree Hazards
- 78 VARs in Napa County
 - 53 LNU & 25 Glass
- Life-safety-property focus

Debris Flow Hazard Results

15 minute rainfall intensity of 1.2 in./hr.

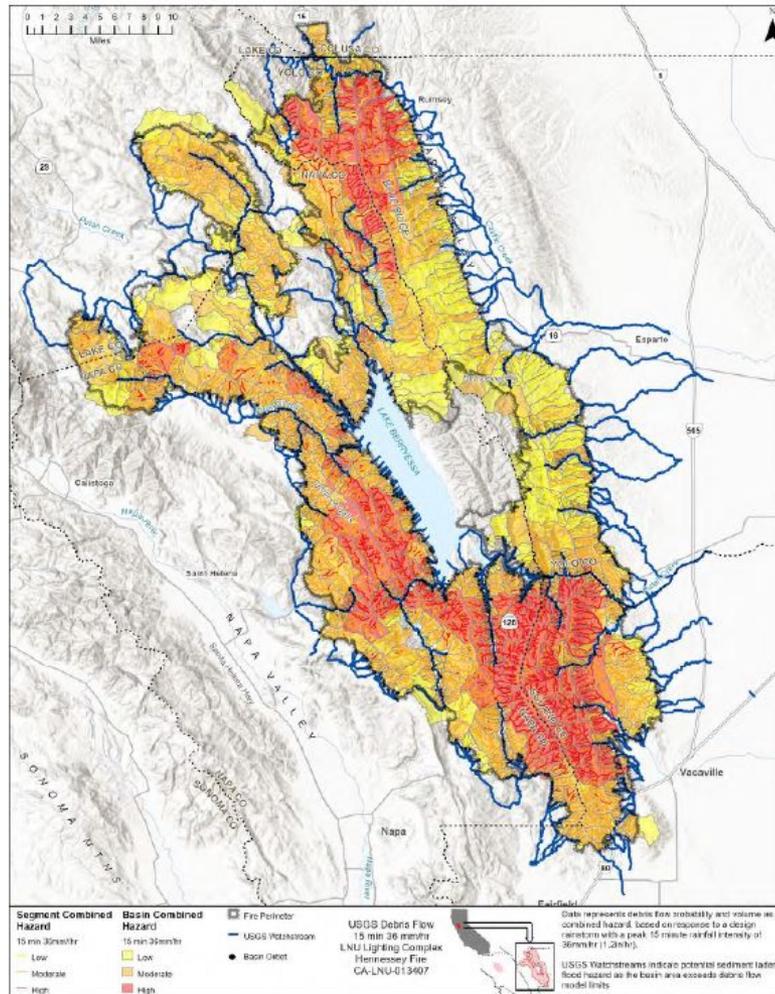


Figure 13. USGS debris flow model results for the Hennessey Fire. Combined hazard, 36 mm/hr storm event.

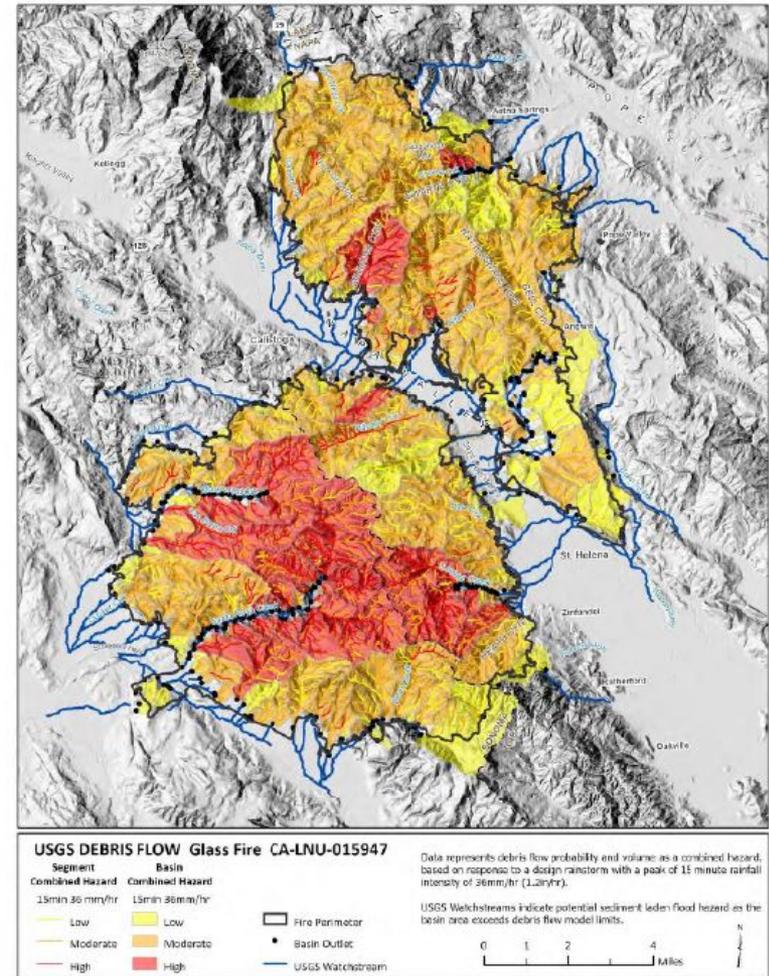
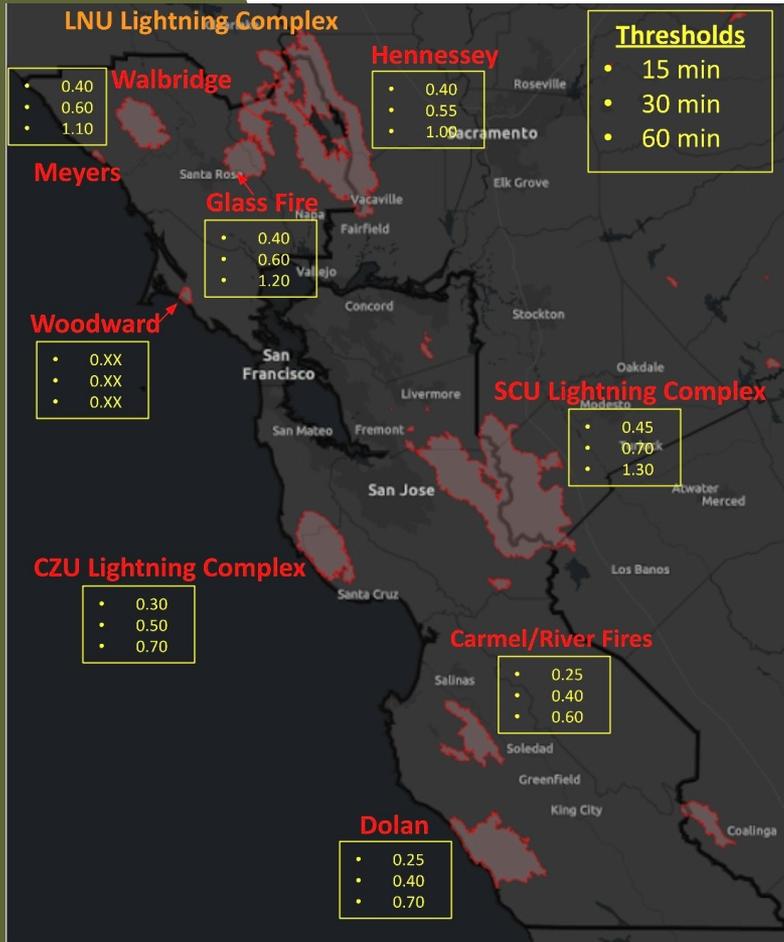


Figure 13. USGS debris flow model results for the Glass Fire.

Critical Precipitation Thresholds



BURN SCAR	LNU Hennessy 2020	Glass 2020
Rainfall Duration	Rainfall Rate	Rainfall Rate
15 min	0.4 in	0.4 in
30 min	0.55 in	0.6 in
1 hour (60 min)	1.0 in	1.0 in
Remarks on Rainfall Rates	Blue Ridge in the northernmost and southern portions of the burn area, near Wragg Ridge in the southern burn area, and the Cedar Roughs in the western portion of the burned area have the highest probability of triggering a debris flow.	Sulphur Creek and Simmons Canyon have the highest probability of triggering a debris flow. Impacts to Bell Canyon Reservoir predicted to be relatively minor due to low soil burn severity;

Emergency Protection Measures (EPMs)

➤ EARLY WARNING

- Assess and Notify Property Owners of the Hazard per WERT
 - Personal Contact
 - Email
 - Phone
 - Postings at property
- Storm Patrols – including property owner outreach and hazard assessments.
 - Before;
 - During; and
 - Following rain events
- Alerts sent via:
 - Roadway Signage;
 - NIXLE;
 - Official Social Media Accounts; and
 - News Release to local Media.

Early Warning

➤ RAINFALL OUTLOOK

GET READY

48-72 HOURS BEFORE THE STORM

Alerts may be sent

Prepare for the rain in your community – watch closely for updates (days in advance)

➤ FLASH FLOOD WATCH

SHOULD GO

6-48 HOURS NOTICE

ALERT - Evacuation Warning (Voluntary)

The rain is expected to be heavy at times within a couple days, and excessive runoff is possible, which may contain mud, ash and debris

All At-Risk Homes & Businesses Notified

➤ FLASH FLOOD WARNING

MUST GO

0-2 HOURS NOTICE

ALERT - Mandatory Evacuation Order

Heavy rain has occurred and flash floods with water, mud, ash, trees, or other debris are occurring or imminent

Road Closures Established

*Flood Advisory – Moderate to briefly heavy rainfall with some flooding or minor debris flows in most flood prone areas.

Napa County's EPM Mission in cooperation with CCC



- ~25,000LF of fiber rolls.
- ~3,000LF of silt socks
- ~100LF flood flight walls.
- 200 gravel bags

Erosion Control & Site Stabilization

- Property owners may use the Napa County Stormwater Pollution Prevention Checklist to help determine what erosion control and site stabilization methods are relevant to their property.

<https://www.countyofnapa.org/3015/Erosion-Control-and-Site-Stabilization>

- Erosion Control Support
 - Watershed Hazard Hotline
(707) 299-1350
 - Engineering Services
(707) 253-4417
 - Napa RCD
(707) 690-3116

Napa County – Post-Fire Watershed Recovery



Stormwater Pollution Prevention Plan Checklist

APPLICANT COMPLETE THIS SECTION		PERMIT #:			
Assessor's Parcel Number:					
Site Address:					
Applicant Name:					
Applicant Phone Number:					
Owner Name:					
Owner Phone number:					
Owner Mailing Address:					
Instructions:					
- Attach a site plan or aerial image of your property. Identify natural features such as streams or drainages, structures, slopes over 5%, dirt roads, etc. If known, circle areas where vegetation may be preserved.					
- Select erosion and sediment control BMPs in the table below to correspond with site characteristics and features.					
- Refer to the BMP Fact Sheets at https://www.countyofnapa.org/2112/Fire-Related-Information for installation guidelines for the BMPs selected below.					
- If you have questions about the BMPs required for your site, please call 707-253-4417 and request Engineering					
BEST MANAGEMENT PRACTICE (BMP) EROSION AND SEDIMENT CONTROL PLAN					
Recommended for all sites	Yes	No	N/A	Erosion Control Measures	BMP Fact Sheet
Select the erosion control measures you will employ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil cover (e.g. Straw mulching and bark)	EC-6, EC-8, EC-14, EC-16
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Revegetation or Hydroseed	EC-4
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Geotextile erosion control fabric or soil stabilizer	EC-7
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Earth dikes or drainage swales	EC-9
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fiber rolls (e.g. Straw wattles)	SE-5
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Geotextile erosion control fabric	EC-7
Does your site have the following characteristics?	Yes	No	N/A		
Potential for stormwater run-on from slopes above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Run-On Management BMPs (Slopes)	
If yes, select the run-on management BMPs you will employ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preserve existing vegetation	EC-2
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Earth Dikes and Drainage Swales	EC-9
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slope Drain	EC-11
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pea-gravel bags	SE-6

Additional Resources

- Napa County's Post-Fire Watershed Recovery Webpage.



- Ready Napa County – Wildfire Recovery
 - <https://readynapacounty.org/432/Wildfire-Recovery>
- Napa County Flood Preparedness
 - <https://www.countyofnapa.org/367/Flood-Preparedness>



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Questions?