

**Experimental Post Wildfire Debris Flow and Flash Flood Web Pages  
(National)  
Product Description Document (PDD)**

**Part I – Mission Connection**

- a. Product Description – In the West, debris flows and flash flooding that occur after a wildfire pose a significant threat to life and property. A wildfire dramatically alters the landscape. Alterations to soil and the vegetation canopy often lead to a marked increase in debris flows and flash flooding. The experimental post wildfire debris flow and flash flood web pages display recent wildfire burn scars, impacts related to those burn scars, and public safety information. An overview web page is provided showing all recent burn scars within the National Weather Service’s (NWS’) Western Region and western portions of Central Region (CO, WY, and SD) and western portions of Southern Region (NM and southwest TX). The user then can click on a particular fire and drill down for more information on that particular burn scar.
- b. Purpose –  
The purpose of the experimental post wildfire debris flow web pages is to provide:
- A single web portal that our users can obtain information on recent burn scars that pose an increased threat to life and property within and downstream from the burn scar;
  - An overview page for the entire region serving users that span county warning area boundaries (e.g. State agencies, Federal Emergency Management Agency (FEMA) Regions, etc.);
  - More detailed information (such as a map of the burn scar, road, communities, and other values at risk) for each individual burn scar; and
  - Public safety information to educate and inform the public regarding the post wildfire debris flow and flash flood hazard.
- c. Audience – The audience is Federal, state, and local emergency managers, city planners, flood control districts and the general public. The Regional Operations Centers (ROCs) will also use the pages for an overview for locations of recent burn scars that Weather Forecast Offices (WFOs) have deemed to have an increased risk to life and property.
- d. Presentation Format – The product will be in the form of public facing web pages that include a single regional overview page that shows all recent burn scars that pose an increased risk to life and property and individual web pages; one per burn scar. Web pages will be hosted at Western Region Headquarters. Examples of the regional and burn scar specific web pages respectively are shown in figures 1-3. The prototype page can be seen here - <http://www.wrh.noaa.gov/wrh/postwildfire/>.

e. Example

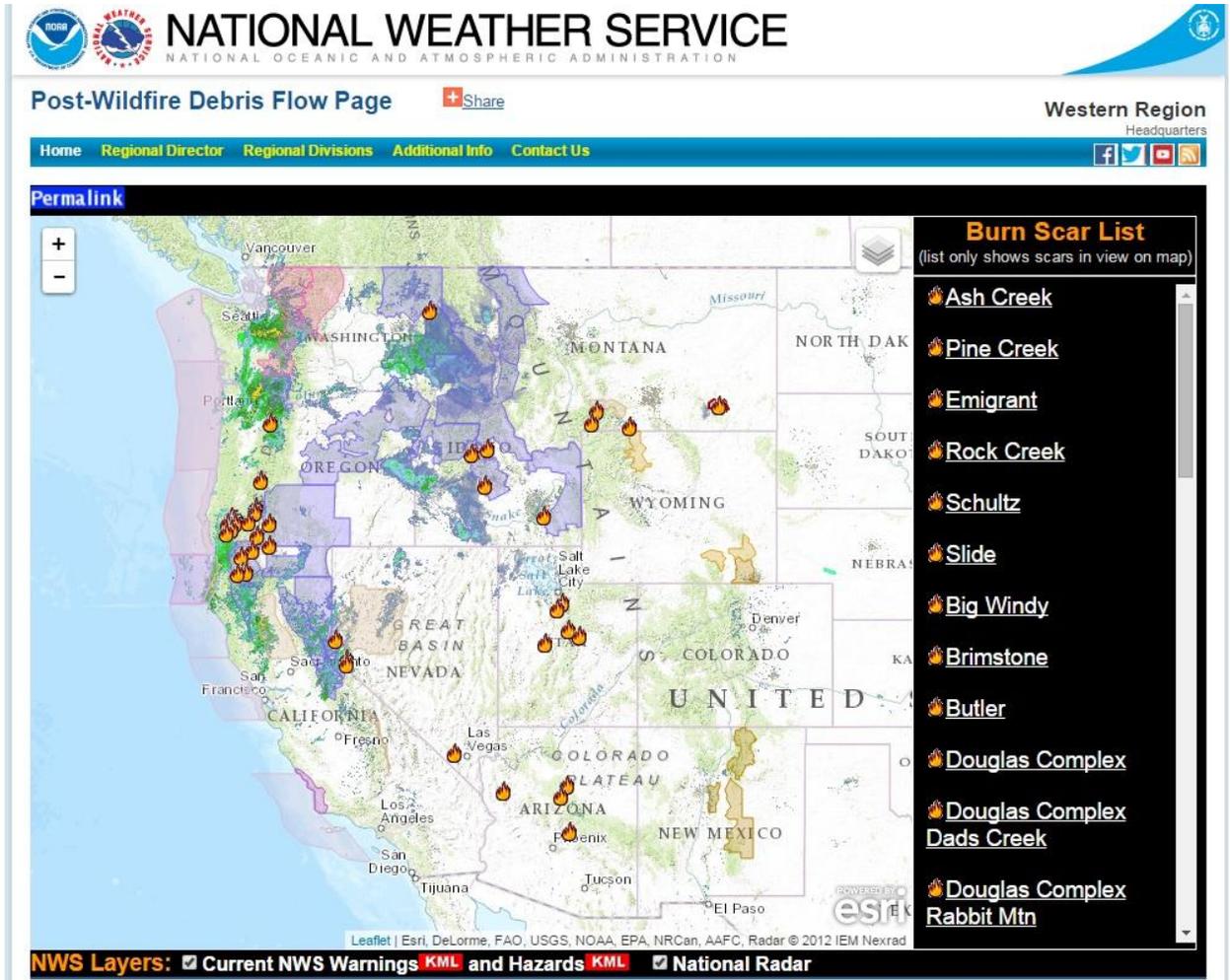


Figure 1 – Overview page

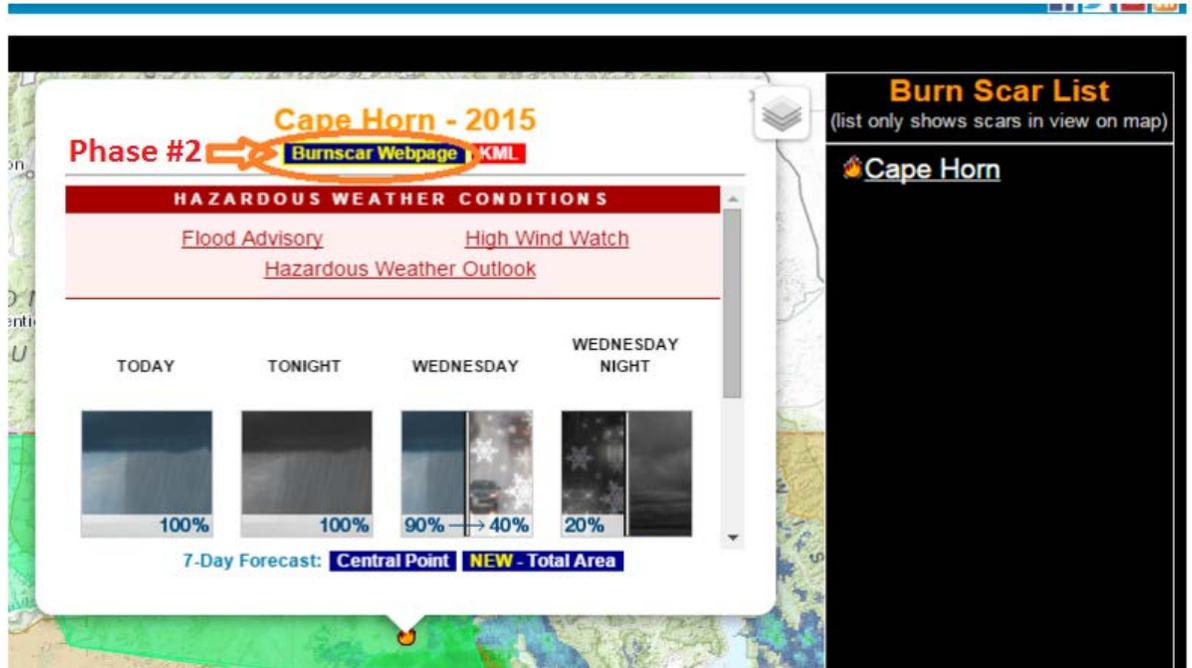


Figure 2 – Example of pop up window after clicking on a specific fire on the overview page

**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Burn Area Information [Home](#)

Phoenix, AZ  
Weather Forecast Office

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## Sunflower Burn Area Flash Flood/Debris Flow Threat Information

Downloads: [KML File](#) [KMZ File](#) [PDF Safety Handout](#) [YouTube Briefing](#)



**Populated Areas Affected:** Cross F Ranch, Sunflower, Round Valley, Dos S Ranch  
**Major Roads Affected:** Sunflower Frontage Rd, Old Beeline Hwy, FR22  
**Rivers and Streams Affected:** Sycamore Creek, Mesquite Wash  
**Bridges Affected:** FR22 un-bridged crossings

**Other Impacts**

- Flooding at TNF Sunflower Work Center
- Flooding at Cross F Ranch
- Flooding of all nearby low-lying trails/campgrounds

[Why Are Burn Scars Susceptible to Flash Floods/Debris Flows?](#)  
[Burn Scar Flash Flood Safety Information](#)

**USA.gov** | U.S. Dept of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, Phoenix Weather Forecast Office, P.O. Box 62228, Phoenix, AZ 85072, (602) 278-0073, Webmaster's Email: [webmaster@cross.gov](mailto:webmaster@cross.gov)

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Figure 3 - Individual web page

- f. Feedback Method – Customers will be encouraged to provide feedback via e-mail and the [survey form](#). Feedback and questions will go to the WFO (webmaster and Hydrology Program Manager) for the local burn scar web pages and to the Western Region Webmaster e-mail address for the regional overview page.

## Part II – Technical Description

- a. Format and Science Basis – The product will provide information to users before a hydrologic event for planning and preparedness purposes. The individual web pages will

include a map of the burn scar, populations and infrastructure that may be affected, and safety information.

- b. Availability – The experimental product will be available on the Internet on Western Region's home page and will be produced each day as updates are provided by WFOs within Western, Central and Southern Region.