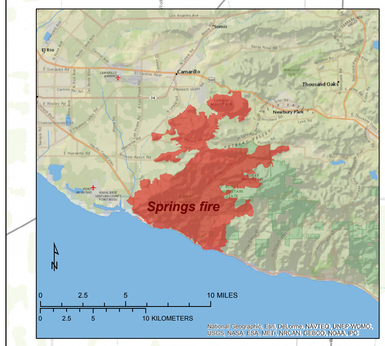
U.S. Department of the Interior
U.S. Geological Survey

USGS
science for a changing world

OPEN-FILE REPORT 2014–1001
PLATE 1
PROBABILITY

Estimated probability of post-fire debris flows in the area burned by the 2013 Springs fire, Ventura County, California

By Dennis M. Staley



EXPLANATION

- Basin Outlet
- Springs Fire Perimeter
- Drainages within and below the burn area that can be impacted by the combined effects of debris flows and floods generated from side tributaries
- Unmodeled Stream

Basin Probability	Segment Probability
0-20%	0-20%
20-40%	20-40%
40-60%	40-60%
60-80%	60-80%
80-100%	80-100%

Probability of a debris flow in response to a 10-year-recurrence, 30-minute rainstorm based on data from NOAA Atlas 14 Vol. 6 precipitation frequency estimates. Numbers within basins represent the basin ID number referred to in the accompanying report.

Debris-flow probability is estimated for a basin outlet at the most downstream end of each drainage basin and for segments of the drainage network that contained burned terrain.

0 0.5 1 2 MILES
0 0.5 1 2 KILOMETERS

Basemap Credit

This work is preliminary and is subject to revision. It is being provided to fulfill the need for timely best science information. The assessment is provided on the condition that neither the U.S. Geological Survey nor the U.S. Government may be held liable for any damages resulting from the authorized or unauthorized use of the assessment.

Citation:
Staley, D.M., 2014, Emergency assessment of post-fire debris-flow hazards for the 2013 Springs fire, Ventura County, California, U.S. Geological Survey Open-File Report 2014–1001, 10 p. 3 Plates. *http://dx.doi.org/10.3133/ofr20141001*.

ISSN 2331-1258
http://dx.doi.org/10.3133/ofr20141001

Projection is North American Datum of 1983, Universal Transverse Mercator coordinate system Zone 11 North.

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community