

Prepared in cooperation with Gunnison County

# Estimated Probabilities, Volumes, and Inundation Area Depths of Potential Postwildfire Debris Flows from Carbonate, Slate, Raspberry, and Milton Creeks, near Marble, Gunnison County, Colorado



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

Front cover: Debris-flow deposits on Slate Creek west of Marble, Colorado, in July 2008, just upstream from the confluence with the Crystal River (Photograph taken by Mike Rupert, U.S. Geological Survey).

Back cover: View north of the Carbonate Creek watershed and confluence of Carbonate Creek with the Crystal River at Marble, Colorado, in July 2008 (Photograph taken by Mike Stevens, U.S. Geological Survey).

# **Estimated Probabilities, Volumes, and Inundation Area Depths of Potential Postwildfire Debris Flows from Carbonate, Slate, Raspberry, and Milton Creeks, near Marble, Gunnison County, Colorado**

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

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**U.S. Geological Survey**  
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## Conversion Factors

SI to Inch/Pound

Multiply	By	To obtain
Length		
millimeter (mm)	0.03937	inch (in.)
meter (m)	3.281	foot (ft)
kilometer (km)	0.6214	mile (mi)
Area		
square meter (m <sup>2</sup> )	0.0002471	acre
hectare (ha)	2.471	acre
square kilometer (km <sup>2</sup> )	247.1	acre
square meter (m <sup>2</sup> )	10.76	square foot (ft <sup>2</sup> )
hectare (ha)	0.003861	square mile (mi <sup>2</sup> )
square kilometer (km <sup>2</sup> )	0.3861	square mile (mi <sup>2</sup> )
Volume		
cubic meter (m <sup>3</sup> )	35.31	cubic foot (ft <sup>3</sup> )
cubic meter (m <sup>3</sup> )	1.308	cubic yard (yd <sup>3</sup> )
cubic meter (m <sup>3</sup> )	0.0008107	acre-foot (acre-ft)
Flow rate		
cubic meter per second (m <sup>3</sup> /s)	70.07	acre-foot per day (acre-ft/d)
cubic meter per second (m <sup>3</sup> /s)	35.31	cubic foot per second (ft <sup>3</sup> /s)
Pressure		
dynes per square centimeter (dynes/cm <sup>2</sup> )	0.00001450	pounds per square inch (psi)
Velocity		
millimeters per hour (mm/hr)	0.03937	inches per hour (in/hr)

Vertical coordinate information is referenced to the North American Vertical Datum of 1988 (NAVD 88).

Horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83).

