

# Geologic and Geophysical Characterization Studies of Yucca Mountain, Nevada, A Potential High-Level Radioactive-Waste Repository

U.S. Geological Survey Digital Data Series 058

*Prepared in cooperation with the  
NEVADA OPERATIONS OFFICE,  
U.S. DEPARTMENT OF ENERGY, under  
Interagency Agreement DE-AI0897NV12033*



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

**Cover.** A view across central Crater Flat to Yucca Mountain from southern Bare Mountain.

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*By John W. Whitney and William R. Keefer, Scientific Editors*

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U.S. Geological Survey

**U.S. Department of the Interior**  
Bruce Babbitt, Secretary

**U.S. Geological Survey**  
Charles G. Groat, Director

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## CONVERSION FACTORS, EQUIVALENT UNITS, AND ABBREVIATIONS

Multiply	By	To obtain
gram (g)	0.0353	ounce (oz)
kilometer (km)	0.6214	mile (mi)
meter (m)	3.2808	foot (ft)
centimeter (cm)	0.3937	inch (in.)
millimeter (mm)	0.0394	inch (in.)
kilometers per second (km/s)	0.6214	miles per second (mi/s)
cubic meter (m <sup>3</sup> )	35.3	cubic foot (ft <sup>3</sup> )
kilobar (kb)	0.001	atmosphere
bar	0.9869	atmosphere

Quantity	SI unit	(In emu (electromagnetic units))
magnetic field	nanotesla (nT)	1 nT = 1 gamma
magnetization	ampere/meter (A/m)	1 A/m = 10 <sup>-3</sup> gauss
susceptibility	dimensionless	(4π) <sup>-1</sup>

g	gram
at/g	atoms per gram
Ma	millions of years before present, Mega annum
m.y.	million years
ka	thousands of years before present
k.y.	thousand years
cm/yr	centimeters per year
mm/yr	millimeters per year
m/s	meters per second
K/Ar	potassium/argon
M <sub>L</sub>	local magnitude, earthquake
M <sub>S</sub>	surface-wave magnitude, earthquake
M	duration magnitude, earthquake
M <sub>D</sub>	network duration magnitude
M <sub>O</sub>	seismic moment
M <sub>W</sub>	moment-magnitude
Pn	upper-mantle <i>P</i> -wave refraction at regional distances
g	force of gravity, gravitational acceleration
km/s	kilometers per second

gravity field      1 milligal = 10<sup>-3</sup> cm/s<sup>2</sup>

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