CALIFORNIA GEOLOGICAL SURVEY JEREMY LANCASTER, STATE GEOLOGIST

## STATE OF CALIFORNIA - GAVIN NEWSOM, GOVERNOR THE NATURAL RESOURCES AGENCY - WADE CROWFOOT, SECRETARY **DEPARTMENT OF CONSERVATION - JENNIFER LUCCHESI, DIRECTOR**

## MAP SHEET 48 (REVISED 2025) EARTHQUAKE SHAKING POTENTIAL FOR CALIFORNIA



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Visalia

Oxnard

Bakersfield

Los

Angeles

Anaheim

Mammoth

Bishop

, San

Riverside

Bernardino

San Diego

Lakes

Intensity (MMI) scale, which measures perceived shaking and correlates with earthquake damage. The MMI scale ranges from I (no shaking felt) to XII (complete damage); in California, the lowest intensity level is VI (strong shaking). Although the greatest hazard is in areas of highest shaking intensity, everywhere in California could potentially experience damaging earthquake shaking. The MMI in this map is calculated as the level of shaking that has a 2% chance of being exceeded in 50 years, which is the same as the level of shaking with about a 2500year average repeat time and includes many of the most extreme earthquakes that are relevant to society. To note, the shaking depicted here is not from a singular earthquake, but rather what an area could experience over the course of time.

**El**Centro

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Scan the QR Code to view additional intensity maps and scientific background



ARIZONA

**Department of Conservation** 

**California Geological Survey** 

REMEMBER, if you feel shaking and/or receive an earthquake alert:



## DROP! | COVER! | HOLD ON!



DISCLAIMER: This map is one of the many ways to depict earthquake shaking hazards, and conclusions drawn from it are the sole responsibility of the user. The Department of Conservation makes no warranties as to the suitability of this product for any particular purpose. Copyright@ 2025 by the California Department of Conservation, California Geological Survey. All rights reserved. No part of this publication may be reproduced without written consent of the copyright owner.

Stockton

• Modesto

San Luis

• Obispo

0

Santa

Maria

Merced

Fresno

Hanford

Concord

• San Jose

0 Salinas 0

Hollister

Oakland

NO

San

Mateo

Santa Cruz

San

Francisco

DATA SOURCES: Ground motions were calculated by Rui Chen using the 2023 update of the USGS National Seismic Hazard Model. Map design by Meerea Kang, California Geological Survey. National Geographic Style basemap from ESRI, 2025. Terrain: Multi-directional Hillshade from ESRI, 2020. ACCESSIBILITY STATEMENT: If you find any part of this document to be inaccessible with assistive technology, visit our Accessibility web page at conservation.ca.gov to report the issue and request alternative means of access. To help us respond to your concern, please include in your request: the title of this document, the web address where you obtained it, and your contact information.