Post-ShakeAlert® Message Summary

Earthquake:

Advanced National Seismic System (ANSS):				
M 3.7 - 52.6 km (32.7 mi) S of King City				
35.749, -121.242				
5.9 km (3.7 mi)				
2023-03-15 11:29:41.8				
2023-03-15 18:29:41.8				
2023-03-15 18:29:49.6				
ew 1678904980				
ShakeAlert Messages Issued (after origin time):				
7.8 sec				
7.8 sec				
10.5 sec				
ShakeAlert System Magnitude Estimates:				
M 3.7				
M 3.7				
M 3.7				
ShakeAlert System Location Accuracy:				
mi) S				
mi) S				

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Final:	1.3 km (0.8 mi)
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Wireless Emergency Alert:

Magnitude below threshold for WEA system.

WEA alerts are distributed to the MMI 4+ area if ShakeAlert Peak M>=5.0

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Number of Stations Reporting:

0 within 10 km of epicenter

24 within 100 km of epicenter

11 used in final ShakeAlert Message

City	Distance	Time*	MMI**
King City	53 km (33 mi)	~7 sec	<2
Paso Robles	54 km (33 mi)	~7 sec	<2
San Luis Obispo	74 km (46 mi)	~13 sec	<2
San Francisco	248 km (154 mi)	~62 sec	<2

Radius shaken before message release: 28 km (17 mi)

Footnotes:

* Time -- Time between message release and

arrival of the S-wave at the location. ** MMI -- Modified Mercalli Intensity: a scale to measure

ground shaking severity.

*** For earthquakes deeper than ~15 km, the ShakeAlert Message may be sent before peak shaking reaches the surface.

Disclaimer:

This information is provisional and subject to revision. It is being provided to meet the need for timely best science. The information has not received final approval by the U.S. Geological Survey (USGS) and is provided on the condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from the authorized or unauthorized use of the information.

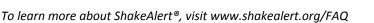




Figure 1. ShakeAlert initial earthquake location (black dot). Star is ANSS earthquake epicenter. Polygon approximates the outer range for felt ground motion. If shown, red circle is front of peak shaking when the message was released***. Shaking takes 10 s to expand from circle to circle.



Figure 2. Polygons show shaking intensity contours for the peak magnitude estimate. Shaking of MMI 3 or less is often not felt. Star shows the ANSS earthquake epicenter.