ShakeAlert® Post-Alert Summary

Earthquake:

M 4.1 - 32.6 km (20.3 mi) E of King City

ANSS origin (Local): 2020-07-29 20:23:01.9
ANSS origin (UTC): 2020-07-30 03:23:01.9
ShakeAlert alert (UTC): 2020-07-30 03:23:09.7
ANSS location: 36.186, -120.764
ANSS depth: 9.5 km (5.9 mi)
ShakeAlert Event ID: ew1596079382

Time To Alert After Earthquake Start:

Initial alert after origin time: 7.8 sec Final alert after origin time: 19.0 sec

Magnitude Accuracy:

Initial ShakeAlert: M 4.0 Peak ShakeAlert: M 4.1 Final ShakeAlert: M 4.1 ANSS report: M 4.1

Location Accuracy:

Initial alert: 1.0 km (0.6 mi) SE Final alert: 2.3 km (1.4 mi) SW Number of Stations Reporting: 1 within 10 km of epicenter

28 within 100 km of epicenter 39 used in final ShakeAlert update

Nearby Cities:

City	Distance	Warning*	MMI**
King City	33 km (20 mi)	~2 sec	2
Coalinga	37 km (23 mi)	~3 sec	2
Parkfield	44 km (27 mi)	~5 sec	<2
San Francisco	230 km (143 mi)	~57 sec	<2

Zone Shaken by S-wave Before Alert: 28 km (17 mi)

Footnotes:

- *Warning -- Time between alert production and arrival of the S-wave at a chosen site.
- **MMI -- Modified Mercalli Intensity: a scale to measure ground shaking.

Disclaimer:

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Figure 1. ShakeAlert initial earthquake location (black dot). Star is regional network epicenter. Polygon is the predicted outer range for felt ground motion (MMI 2). Red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.



Figure 2. Polygons show shaking intensity contours for the peak magnitude ShakeAlert. Shaking of intensity 3 or less is often not felt. Star shows the regional network epicenter.