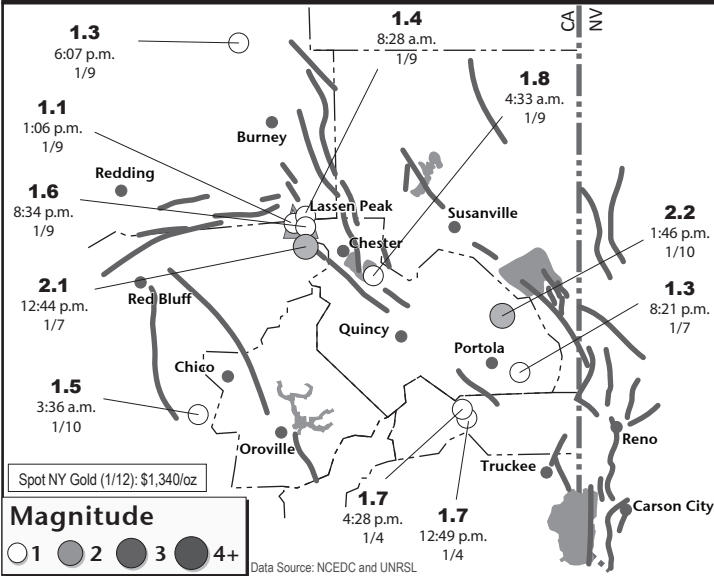


# Earthquake Report

January 4–10, 2018

By: Charles P. Watson, California Professional Geologist No. 7818



Magnitude $M \geq 1$	1	2	3+	Total
<b>Regional</b>	<b>9</b>	<b>2</b>	<b>0</b>	<b>11</b>
Previous week	6	1	0	7

- Earthquake activity increased slightly from the previous week and rose back over the 10 quake-per-week level.
- The intensity of seismicity increased as well, producing two quakes in the M 2 range, although they were still rather small.
- The largest earthquake measured M 2.2 and occurred at 1:46 p.m. Wednesday, January 10, between Milford and Portola in the Diamond Range. It was centered in the upper reaches of Red Clover Creek near the Coyote Hills. This is the northern-most

portion of the Sierra Nevada, which are composed of mostly granites and metamorphic sedimentary rocks, and the quake was probably related to the internal deformation of these rocks.

- An earthquake measuring M 2.1 was recorded mid day on January 7 south-southeast of Lassen Peak near the Fire Mountain Resort on Highway 36. This area is also the northern margin of the Sierra, but the "recent" Lassen volcanic rocks have covered the older basement rocks. What we see on the surface today is a blanket of volcanic rocks forming a tableland appearance.
- The largest of three quakes centered under Lassen Peak measured M 1.6.

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