Table 5.21-- EARTHQUAKES WITH INTENSITIES OF V OR GREATER ON OAHU: 1859 TO 2024

[As of June 7, 2024]

1861: Dec. 5 Dec. 15Molokai-Lanai vicinity (?) Molokai-Lanai vicinity (?)1868: Apr. 2 Apr. 4SE coast of Hawaii Maui group vicinity (?)1870: Aug. 7Near Molokai S coast of Lanai1871: Feb. 19S coast of Lanai1881: Sep. 30Maui vicinity1887: Jan. 13Oahu vicinity1896: Sep. 13Maui vicinity (?)1926: Mar. 19N of Kohala, Hawaii1929: Oct. 5Hualalei1938: Jan. 22N of Maui1940: June 16N of Hawaii1973: Apr. 26Honomu, Hawaii1975: Nov. 29Kalapana, Hawaii1981: Mar. 5Kalohi Channel2006: Oct. 15Kiholo Bay, Hawaii	 5.9 Mid V 5.6 Lower V - mid V 7.9 Upper IV - lower V 6.5 Lower V 6.4 V 6.8 Upper VI - lower VII 6.4 IV - V 5.3 V 5.4 Mid V 6.6 IV - V 5.5 Upper IV - lower V 6.5 Lower V 6.8 Upper V - lower VI 6.8 Upper V - lower VI 6.9 IV - V 5.2 Mid VI 5.2 Mid V 5.2 Mid V 5.3 V 5.4 V

1/ Modified Mercalli Scale of 1931, 1956 abridged version further simplified. This scale, which extends from I to XII, reads in part:

IV. Hanging objects swing. Vibration like passing of heavy trucks or sensation of a jolt. Standing autos rock. Windows, dishes, doors rattle. Crockery clashes. In the upper part of range wooden construction creaks.

V. Felt outdoors; direction estimated. Sleepers wakened. Liquids distributed, some spilled. Small unstable objects displaced or upset. Doors, shutters, pictures swing. Pendulum clocks stop.

VI. Felt by all. Many frightened, run outdoors. Persons walk unsteadily. Windows, dishes, glassware broken. Knickknacks, books thrown off shelves, pictures off walls. Furniture moved, overturned. Weak plaster and masonry cracked. Small bells ring. Trees, bushes noticeably shaken.

VII. Difficulty in standing. Noticed by drivers of autos. Hanging objects quiver. Furniture broken. Damage to weak masonry. Weak chimneys broken at roof line. Fall of plaster, loose bricks, etc. Some cracks in ordinary masonry. Waves on ponds. Small slides on sand and gravel banks. Large bells ring. Irrigation ditches damaged.

Source: Cox, D.C. (1986a), *Earthquakes Felt on Oahu, Hawaii and Their Intensities*, Environmental Center Special Report, Vol. 38, University of Hawaii, 120 pp.; Cox, D.C. (1986b), *The Oahu Earthquake of June 1948, Associated Shocks, and the Hypothetical Diamond Head Fault*, Environmental Center Special Report, Vol. 36, University of Hawaii, 32 pp.; Cox, D.C. (1987), *Earthquake Experience in Honolulu*, Hawaiian Journal of History, Vol. 21, pp 98-109; Klein, F.C. and T.L. Wright (2000), *Catalog of Hawaiian* Earthquakes, 1823-1959, U.S. Geological Survey Professional Paper 1623, 98 pp.; Wyss, M. and R.Y. Koyanagi (1992), Isoseismal maps, *macroseismic epicenters, and estimated magnitudes of historical* earthquakes in the Hawaiian Islands, U.S. Geological Survey Bulletin 2006, 93 pp.; U.S. Geological Survey, Hawaiian Volcano Observatory, Seismic Catalog; and U.S. Geological Survey, National Earthquake Information Center, ShakeMap; and records. U.S. Geological Survey, Hawaiian Volcano Observatory, Seismic Catalog https://earthquake.usgs.gov/earthquakes/ accessed June 7, 2024.