

Table 5.22-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1812 TO 2024

[As of June 14, 2024]

| Date | Place of observation | Source | Maximum height in Hawaii | | Deaths in Hawaii | Damage in Hawaii |
|------------------|-------------------------|------------------|--------------------------|------|------------------|--------------------------------------|
| | | | Meters | Feet | | |
| 1812: Dec. 21 1/ | Hookena, Hawaii | California | 3.0 | 10 | - | Hut flooded |
| 1819: April 12 | W. Hawaii | Chile | 2.0 | 7 | - | Houses destroyed |
| 1837: Nov. 7 | Hilo, Hawaii | Chile | 6.0 | 20 | 16 | 100 houses destroyed |
| 1841: May 17 | Hilo, Hawaii | Kamchatka | 4.6 | 15 | - | Unknown |
| 1854: Jan. 27 | Hilo, Hawaii | Alaska | 2.4 | 8 | - | (NA) |
| 1868: April 2 | Keauhou Landing, Hawaii | Ka'u | 13.7 | 45 | 47 | Severe in Puna and Ka'u |
| 1868: Aug. 13 | Hilo, Hawaii | Chile | 4.5 | 15 | - | Houses, bridges destroyed |
| 1869: Aug. 24 | S.E. Puna | S. Pacific 2/ | 8.2 | 27 | - | Houses destroyed, roads washed out |
| 1877: May 10 | Hilo, Hawaii | Chile | 4.8 | 16 | 5 | Severe in Hilo |
| 1878: Jan. 10 | Maliko Bay, Maui | Alaska | 3.6 | 12 | - | Scattered flooding, N. Maui, N. Oahu |
| 1896: June 15 | Keauhou, Hawaii | Japan | 5.5 | 18 | - | Houses, wharfs, stores destroyed |
| 1906: Aug. 17 | Maalaea, Maui | Chile | 3.5 | 12 | - | Piers damaged |
| 1919: Oct. 2 | Hoopuloa, Hawaii | S. Kona | 4.3 | 14 | - | Wharf damaged, car swept away |
| 1922: Nov. 11 | Hilo, Hawaii | Chile | 2.1 | 7 | - | Fishing boats swept away |
| 1923: Feb. 3 | Hilo, Hawaii | Kamchatka | 6.1 | 20 | 1 | \$1,500,000 |
| 1933: March 2 | Keauhou, Hawaii | Japan | 3.3 | 11 | - | Boathouses, walls destroyed in Kona |
| 1946: April 4 | Waikolu Valley, Molokai | Aleutian Islands | 16.5 | 54 | 158 | \$26,000,000 |
| 1952: March 17 | Kalapana, Hawaii | Hawaii | 3.0 | 10 | - | No damage |
| 1952: Nov. 4 | Kaena, Oahu | Kamchatka | 10.4 | 34 | - | \$1,000,000 |
| 1957: March 9 | Wainiha Bay, Kauai | Aleutian Islands | 16.2 | 53 | - | \$5,000,000 |
| 1960: May 22 | Hilo, Hawaii | Chile | 10.7 | 35 | 61 | \$23,000,000 |
| 1964: March 27 | Waimea Bay, Oahu | Alaska | 4.9 | 16 | - | \$68,000 |
| 1975: Nov. 29 | Keauhou Landing, Hawaii | S. Puna | 14.3 | 47 | 2 | \$1,500,000 |
| 2011: March 11 | Kealakekua Bay, Hawaii | Japan | 5.4 | 18 | - | (NA) |

Continued on next page.

Table 5.22-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1812 TO 2023 -- Con.

NA Not available.

1/ Earliest tsunami for which definite information exists.

2/ Probable source.

Source: George Pararas-Carayannis, "Catalog of Tsunamis in the Hawaiian Islands" (U.S. Coast and Geodetic Survey, May 1969); Harold G. Loomis, "The Tsunami of November 29, 1975 in Hawaii" (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, "Local Tsunamis and Possible Local Tsunamis in Hawaii" (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977); Doak C. Cox, "Tsunami Casualties and Mortality in Hawaii" (University of Hawaii, Environment Center, June 1987), p. 39; James F. Lander and Patricia A. Lockridge, *United States Tsunamis (Including United States Possessions) 1690-1988*, Publication 41-2, National Geophysical Data Center, August 1989, pp.17-77; U.S. Geological Survey, Hawaiian Volcano Observatory, records; Pacific Tsunami Warning Center, records; and National Oceanic and Atmospheric Administration, National Geophysical Data Center, Tsunami Runup database <<https://www.ngdc.noaa.gov/hazel/view/hazards/tsunami/runup-search>> accessed June 14, 2024.