



Table 1.—Chronological listing of earthquakes for the State of Connecticut

DATE YEAR MONTH DAY	ORIGIN TIME(UTC) H M S	LAT. (N.)	LONG. (W.)	DEPTH (KM)	HYPOCENTER QUAL. REF.	MAGNITUDE USGS OTHER	INTENSITY MM REF.
1568	...	41.5	72.5	..	H 126	..	VI 126
1574	...	41.5	72.5	..	H 126	..	V 126
1584	...	41.5	72.5	..	H 126	..	V 126
1592	...	41.5	72.5	..	H 126	..	V 126
1677	DEC 13	41.1	73.5	..	H 126	..	IV 126
1688	SEP 07	41.7	72.9	..	H 126	..	II 126
1698	...	41.4	73.5	..	H 126	..	IV 76
1702	...	41.4	73.5	..	H 126	..	IV 76
1729	MAR 30	41.4	73.5	..	H 126	..	II 126
1729	AUG 06	41.4	73.5	..	H 76	..	IV 76
1791	MAY 16	13 00	41.5	72.5	..	G 78	VII 76
1791	MAY 19	03 00	41.5	72.4	..	G 126	..
1792	AUG 29	03	41.5	72.5	..	H 38	..
1792	OCT 24	06	41.5	72.5	..	H 126	..
1793	JAN 11	13	41.5	72.5	..	H 38	..
1793	JUL 06	11	41.5	72.5	..	H 126	..
1794	MAR 06	19	41.5	72.5	..	H 38	..
1794	MAR 07	04	41.5	72.5	..	H 38	..
1794	MAR 09	19	41.5	72.5	..	H 126	..
1794	MAR 10	04	41.5	72.5	..	H 126	..
1805	DEC 30	11	41.5	72.4	..	H 76	..
1791	MAY 16	13 00	41.5	72.5	..	G 78	VII 76
1791	MAY 19	03 00	41.5	72.4	..	G 126	..
1792	AUG 29	03	41.5	72.5	..	H 38	..
1792	OCT 24	06	41.5	72.5	..	H 126	..
1793	JAN 11	13	41.5	72.5	..	H 38	..
1793	JUL 06	11	41.5	72.5	..	H 126	..
1794	MAR 06	19	41.5	72.5	..	H 38	..
1794	MAR 07	04	41.5	72.5	..	H 38	..
1794	MAR 09	19	41.5	72.5	..	H 126	..
1794	MAR 10	04	41.5	72.5	..	H 126	..
1805	DEC 30	11	41.5	72.4	..	H 76	..
1811	JUL 01	14	41.5	72.4	..	H 76	..
1812	FEB 09	14	41.5	72.4	..	H 76	..
1812	JUL 05	13	41.5	72.4	..	H 76	..
1813	DEC 28	21	41.5	72.4	..	H 76	..
1827	AUG 23	00	41.4	72.1	..	H 76	..
1827	MAR 24	23 12	41.3	72.9	..	H 126	..
1828	FEB 03	01	41.5	72.5	..	H 76	..
1840	AUG 09	20 30	41.5	72.9	..	H 38	..
1844	JUN 01	01	41.5	72.4	..	H 126	..
1845	JAN 01	01	41.5	72.4	..	H 126	..
1845	OCT 26	23 15	41.2	73.3	..	G 78	..
1852	AUG 01	03	41.4	72.6	..	H 76	..
1856	MAR 13	03	41.4	72.6	..	H 76	..
1857	JUL 01	03 45	41.5	72.5	..	H 76	..
1858	JUN 27	00	41.4	72.8	..	H 76	..
1858	JUL 01	03 45	41.3	73.7	..	H 38	..
1860	MAR 12	01	41.5	72.5	..	H 76	..
1862	FEB 03	01	41.5	72.5	..	H 76	..
1875	FEB 09	00	41.5	72.0	..	G 126	..
1875	JUL 28	09 10	41.8	73.2	..	G 38	..
1875	SEP 26	02 00	41.3	73.3	..	H 126	..
1899	MAY 17	01	41.3	72.9	..	H 126	..
1885	APR 28	22 10	41.3	72.7	..	G 126	..
1885	DEC 29	09 30	41.8	72.7	..	H 84	..
1886	JAN 09	21 15	41.9	73.1	..	H 126	..
1886	FEB 05	00	41.2	73.2	..	H 126	..
1886	SEP 05	00	41.5	72.5	..	G 76	..
1894	APR 10	00	41.6	72.5	..	G 76	..
1894	NOV 23	13 30	41.4	72.1	..	G 126	..
1897	SEP 05	00	41.5	72.5	..	G 76	..
1899	MAY 17	01	41.3	72.9	..	H 126	..
1906	MAY 08	13 30	41.5	72.5	..	G 76	..
1906	MAY 14	00	41.2	73.2	..	H 126	..
1908	FEB 05	08 20	41.4	73.2	..	G 76	..
1913	NOV 15	00	41.5	72.5	..	G 126	..
1916	DEC 02	09	41.5	72.1	..	G 126	..
1917	FEB 16	09	41.5	72.5	..	G 126	..
1917	MAR 11	00	41.5	72.5	..	G 76	..
1919	AUG 11	00	41.5	72.5	..	G 126	..
1925	OCT 24	01 30	41.4	73.3	..	G 76	..
1925	OCT 30	00	41.5	72.5	..	G 126	..
1925	NOV 01	00	41.5	72.5	..	G 126	..
1925	NOV 14	13 04	41.7	72.4	..	F 78	..
1925	NOV 16	06 20	41.8	72.7	..	G 126	..
1926	JAN 04	00	41.6	71.8	..	G 76	..
1927	MAR 30	00	41.7	72.8	..	G 126	..
1928	NOV 14	08 07	41.5	72.5	..	H 84	..
1928	NOV 16	01 20	41.7	72.7	..	H 84	..
1928	DEC 08	04 12	41.8	72.5	..	G 1	..
1931	JUL 01	02 45	41.6	73.4	..	G 77	..
1934	JAN 30	10 30	41.8	72.6	..	G 77	..
1935	AUG 09	07 30	41.4	72.1	..	G 77	..
1937	JUL 27	09 10	41.8	72.4	..	D 10	..
1938	JUN 14	04 02	41.4	73.4	..	G 77	..
1938	JUN 14	19 30	41.4	73.4	..	G 77	..
1938	AUG 02	09 02 30	41.1	73.7	..	C 77	..
1938	SEP 20	00	41.4	72.2	..	G 77	..
1939	AUG 12	00	41.5	72.5	..	H 82	..
1940	MAR 02	04 15 36	41.5	72.5	..	C 13	..
1940	MAR 13	01 29 00	41.5	72.0	..	C 13	..
1942	DEC 09	00	41.8	72.7	..	G 77	..
1944	DEC 14	03 15	41.6	72.8	..	G 77	..
1947	JAN 04	18 51 04	41.0	73.6	..	G 77	..
1948	JUN 04	09 00	41.3	72.5	..	G 77	..
1950	MAR 29	14 43 02	41.0	73.6	..	C 23	..
1951	JAN 26	03 00	41.5	73.6	..	H 77	..
1951	MAR 27	18 50	41.1	73.5	..	G 77	..
1959	APR 13	21 20 19	41.92	73.27	..	C 77	3.40TT 1
1968	NOV 03	08 33 52.5	41.4	72.5	..	G 78	..
1976	APR 24	10 22 22.1	41.7	72.5	..	A 85	2.20ON 2
1976	DEC 17	10 30	41.5	72.1	..	C 126	2.2WES 1

Table 3.—List of data sources

- Heck, N. H. and Bodle, R. R., 1930, United States Earthquakes 1928, U. S. Coast and Geodetic Survey, Serial No. 483, p. 1-28.
- Neumann, F., 1936, United States Earthquakes 1934, U. S. Coast and Geodetic Survey, Serial No. 532, p. 1-99.
- Neumann, F., 1940, United States Earthquakes 1937, U. S. Coast and Geodetic Survey, Serial No. 619, p. 1-55.
- Neumann, F., 1940, United States Earthquakes 1938, U. S. Coast and Geodetic Survey, Serial No. 624, p. 1-59.
- Neumann, F., 1942, United States Earthquakes 1940, U. S. Coast and Geodetic Survey, Serial No. 647, p. 1-74.
- Bodle, R. R., 1946, United States Earthquakes 1944, U. S. Coast and Geodetic Survey, Serial No. 682, p. 1-43.
- Murphy, L. M. and Ulrich, P. P., 1952, United States Earthquakes 1950, U. S. Coast and Geodetic Survey, Serial No. 755, p. 1-47.
- Murphy, L. M. and Cloud, W. K., 1953, United States Earthquakes 1951, U. S. Coast and Geodetic Survey, Serial No. 762, p. 1-50.
- Murphy, L. M. and Cloud, W. K., 1955, United States Earthquakes 1953, U. S. Coast and Geodetic Survey, Serial No. 785, p. 1-51.
- Coffman, J. L. and von Hake, C. A., 1973, Earthquake History of the United States, National Oceanic and Atmospheric Administration, No. 41-1 (through 1970), p. 1-208.
- von Hake, C. A. and Cloud, W. K., 1969, United States Earthquakes 1967, U. S. Coast and Geodetic Survey, p. 1-90.
- Coffman, J. L. and Cloud, W. K., 1970, United States Earthquakes 1968, Environmental Science Services Administration, p. 1-111.
- Coffman, J. L. and Stover, C. W., 1976, United States Earthquakes 1974, National Oceanic and Atmospheric Administration and U. S. Geological Survey, p. 1-135.
- Coffman, J. L. and Stover, C. W., 1978, United States Earthquakes, 1976, National Oceanic and Atmospheric Administration and U. S. Geological Survey, p. 1-94.
- von Hake, C. A. and Cloud, W. K., 1967, United States Earthquakes 1965, U. S. Coast and Geodetic Survey, p. 1-91.
- Smith, W. E. T., 1962, Earthquakes of eastern Canada and adjacent areas, 1534-1927, Publications of the Dominion Observatory Ottawa, v. 26, no. 5, p. 271-301.
- Smith, W. E. T., 1966, Earthquakes of eastern Canada and adjacent areas, 1928-1959, Publications of the Dominion Observatory Ottawa, v. 32, no. 3, p. 87-121.
- Weston Geophysical Research, Inc., Weston, Ma., 1976, Historical seismicity of New England, for Boston Edison Company, Preliminary Safety Analysis Report, Docket No. 50-471, p. 1-641.
- Brooks, J. E., 1960, A study of seismicity and structural geology: Part II, Earthquakes of northeastern United States and eastern Canada, Bulletin of Geophysics, Obs. Geophys. College Jean-de-Brébeuf, Bull. Geophys., no. 7, p. 12-40.
- Mather, K. F. and Godfrey, H., assisted by Hampson, K., 1927, The record of earthquakes felt by man in New England: Copy of the manuscript of a paper presented to Eastern Section, Seismological Society of America meeting in May 1927.
- Woolard, G. P., 1946, Catalog of earthquakes in the United States prior to 1925 based on unpublished data compiled by Harry Fielding Reid and unpublished sources prior to 1930, Hawaii Institute of Geophysics, University of Hawaii, Data Report No. 10.
- Person, W. J., Simon, R. B., Stover, C. W., and Winesch, J. H., 1979, Earthquakes in the United States, April 1976, U. S. Geological Survey Circular 766-B, p. 1-27.
- Stover, C. W., Simon, R. B., and Person, W. J., 1976, Earthquakes in the United States, October-December 1974, U. S. Geological Survey Circular 723-D, p. 1-27.
- Chiburis, E. P., 1979, Seismicity, recurrence rates, and the regionalization of the northeast United States and adjacent areas, Weston Observatory Report (unpublished).
- Rockwood, C. C., 1876, Notices of recent American earthquakes—no. 8, American Journal of Science, v. 112, third series, p. 25-30.
- Milne, W. G. and Smith, U. E. T., 1964, Canadian earthquakes - 1960, Seismological Series of the Dominion Observatory, table I, Ottawa, p. 4.

MODIFIED MERCALLI INTENSITY SCALE OF 1931

- Not felt - or, except rarely under especially favorable circumstances. Under certain conditions, at and outside the boundary of the area in which a great shock is felt: sometimes birds, animals, reported uneasy or disturbed; sometimes dizziness or nausea experienced; sometimes trees, structures, liquids, bodies of water, may sway—doors may swing, very slowly.
- Felt indoors by few, especially on upper floors, or by sensitive, or nervous persons. Also, as in grade I, but often more noticeably: sometimes hanging objects may swing, especially when delicately suspended; sometimes trees, structures, liquids, bodies of water, may sway, doors may swing, very slowly; sometimes birds, animals, reported uneasy or disturbed; sometimes dizziness or nausea experienced.
- Felt indoors by several, motion usually rapid vibration. Sometimes not recognized to be an earthquake at first. Duration estimated in some cases. Vibration like that due to passing of light, or lightly loaded trucks, or heavy trucks some distance away. Hanging objects may swing slightly. Movements may be appreciable on upper levels of tall structures. Rocked standing motor cars slightly.
- Felt indoors by many, outdoors by few. Awakened few, especially light sleepers. Frightened no one, unless apprehensive from previous experience. Vibration like that due to passing of heavy or heavily loaded trucks. Sensation like heavy body striking building or falling of heavy objects inside. Rattling of dishes, windows, doors; glassware and crockery clink and clash. Creaking of walls, frame, especially in the upper range of this grade. Hanging objects swung, in numerous instances. Disturbed liquids in open vessels slightly. Rocked standing motor cars noticeably.
- Felt indoors by practically all, outdoors by many or most; outdoors direction estimated. Awakened many, or most. Frightened few—slight excitement, a few ran outdoors. Buildings trembled throughout. Broke dishes, glassware, to some extent. Cracked windows—in some cases, but not generally. Overturned vessels, small or unstable objects, in many instances, with occasional fall. Hanging objects, doors, swung generally or considerably. Knocked pictures against walls, or swung them out of place. Opened, or closed, doors, shutters, abruptly. Pendulum clocks stopped, started or ran fast, or slow. Moved small objects, furnishings, the latter to slight extent. Spilled liquids in small amounts from well-filled open containers. Trees, bushes, shaken slightly.
- Felt by all, indoors and outdoors. Frightened many, excitement general, some alarm, many ran outdoors. Awakened all. Persons made to move unsteadily. Trees, bushes, shaken slightly to moderately. Liquid set in strong motion. Small bells rang—church, chapel, school, etc. Damage slight in poorly built buildings. Fall of plaster in small amount. Cracked plaster somewhat, especially fine cracks chimneys in some instances. Broke dishes, glassware, in considerable quantity, also some windows. Fall of knick-knacks, books, pictures. Overturned furniture in many instances. Moved furnishings of moderately heavy kind.
- Frightened all—general alarm, all ran outdoors. Some, or many, found it difficult to stand. Noticed by persons driving motor cars. Trees and bushes shaken moderately to strongly. Waves on ponds, lakes, and running water. Water turbid from mud stirred up. Incausing to some extent of sand or gravel stream banks. Rang large church bells, etc. Suspended objects made to quiver. Damage negligible in buildings of good design and construction, slight to moderate in well-built ordinary buildings, considerable in poorly built or badly designed buildings; adobe houses, old walls (especially where laid up without mortar), spires, etc. Cracked chimneys to considerable extent, walls to some extent. Fall of plaster in considerable amount. Large amount of loose stucco. Broke numerous windows, furniture to some extent. Shook down loosened brickwork and tiles. Broke neck chimneys at the roof-line (sometimes damaging roofs). Fall of cornices from towers and high buildings. Dislodged bricks and stones. Overturned heavy furniture, with damage from breaking. Damage considerable to concrete irrigation ditches.
- Fright general—alarm approaches panic. Disturbed persons driving motor cars. Trees shaken strongly—branches, trunks, broken off, especially palm trees. Ejected sand and mud in small amounts. Changes: temporary, permanent; in flow of springs and wells; dry, renewed flow; in temperature of spring and well waters. Damage to structures especially brick built especially in well-built ordinary buildings. Considerable in ordinary substantial buildings, partial collapse: tumbled down, wooden houses in some cases; threw out panel walls in frame structures, broke off decayed piling. Fall of walls. Cracked, broke, solid stone walls seriously. Wet ground to some extent, also ground on steep slopes. Twisting, fall, of chimneys, columns, monuments, also factory stacks, towers. Moved conspicuously, overturned, very heavy furniture.
- Panic general. Cracked ground conspicuously. Damage considerable in (masonry) structures built especially to withstand earthquakes: Threw out of plumb some wood-frame houses built especially to withstand earthquakes; to great in substantial (masonry) buildings, some collapse in large part; or wholly shifted frame buildings off foundations, racked frames; serious to reservoirs; underground pipes several broken.
- Cracked ground, especially when loose and wet, up to widths of several inches; fissures up to yard in width parallel to canal and stream banks. Landslides considerable from river banks and steep slopes. Shifted sand and mud horizontally on beaches and flat land. Changed level of water in wells. Threw water on banks of canals, lakes, rivers, etc. Damage serious to dams, dikes, embankments. Severe to well-built wooden structures and bridges, some destroyed. Developed dangerous cracks in excellent brick walls. Destroyed most masonry and frame structures, also their foundations. Bent railroad rails slightly. Tore apart, or crushed and enlarged, pipe lines buried in earth. Open cracks and broad wavy folds in cement pavements and asphalt road surfaces.
- Disturbances in ground many and widespread, varying with ground material. Broad fissures, earth slumps, and landslides in soft, wet ground. Ejected water in large amounts charged with sand and mud. Caused sea-waves ("tidal" waves) of significant magnitude. Damage severe to wood-frame structures, especially near shock centers. Great to dams, dikes, embankments often for long distances. Few, if any (masonry) structures remained standing. Destroyed large well-built bridges by the wrecking of supporting piers, or pillars, and by the great yielding of wooden bridges. Bent railroad rails greatly, and thrust them endwise. Put pipe lines buried in earth completely out of service.
- Damage total—practically all works of construction damaged greatly or destroyed. Disturbances in ground great and varied, numerous shearing cracks. Landslides, falling of rock of significant character, slumping of river banks, etc., numerous and extensive. Wrenched loose, tore off, large rock masses. Fault slips in firm rock, with notable horizontal and vertical offset displacements. Water channels, surface and underground, disturbed and modified greatly. Dammed lakes, produced waterfalls, deflected rivers, etc. Waves seen on ground surfaces (actually seen, probably, in some cases). Distorted lines of sight and level. Threw objects upward into the air.

Table 2.—Chronological listing of earthquakes for the State of Rhode Island

DATE YEAR MONTH DAY	ORIGIN TIME(UTC) H M S	LAT. (N.)	LONG. (W.)	DEPTH (KM)	HYPOCENTER QUAL. REF.	MAGNITUDE USGS OTHER	INTENSITY MM REF.
1766	APR 25	41.5	71.3	..	I 126	..	V 76
1776	FEB 07	41.7	71.4	..	H 126	..	II 126
1843	OCT 24	41.1	71.2	..	I 126	..	IV 126
1849	FEB 04	41.5	71.3	..	H 76	..	III 76
1852	JAN 10	41.2	71.0	..	H 76	..	IV 76
1875	MAR 09	41.7	71.5	..	I 211	..	VI 211
1876	SEP 22	04 30	41.5	71.3	..	H 78	..
1882	MAY 01	41.6	71.4	..	I 126	..	II 126
1883	FEB 28	03 30	41.5	71.5	..	H 38	..
1905	NOV 26	00 30	41.5	71.5	..	I 126	..
1913	NOV 03	14 30	41.5	71.5	..	H 126	..
1928	JAN 13	19 50	41.2	71.6	..	G 1	..
1940	JAN 03	01 30	41.2	71.6	..	H 77	..
1940	JAN 03	02 00	41.2	71.6	..	H 77	