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GL02800 - 1 of 3

## DESTRUCTIVE AND NEAR-DESTRUCTIVE EARTHQUAKES WITH NEVADA EPICENTERS

Date Year-Mo-Day	Time (P.S.T.) Hr-Min-Sec	Lat. N	Long. W	Mag.	REMARKS
1852		39.5	119.5		Paiute Indians report earthquake near Pyramid Lake. Great cracks opened from which water spouted 100 feet in air. Large landslide occurred on Slide Mountain in Carson Range.
1860-03-15	10:45:			7.	Widely felt from California (Sacramento-Yreka) to Utah. Very violent in Carson City. First known event in Virginia City. Felt area over 250,000 sq. mi.
1868-05-29	21:11:	39.5	120.	6.	Maximum intensity of VII in Virginia City area. Several aftershocks. Felt area of at least 40,000 sq. mi. Double shock.
1869-12-26	17:30:	39.5	120.		Maximum intensity of IX. Three shocks at Gold Hill. N-S motion felt underground in Virginia City mines. Brick buildings damaged. Felt in Camptonville, Sacramento, Stockton, Chico, and Truckee, Calif. Buildings damaged in Downieville, Calif. 26 aftershocks felt at Virginia City.
1869-12-26	21:50:	39.5	120.		Maximum intensity of VII. Three aftershocks of 12-26 event. E-W motion at Gold Hill. Felt at Nevada City, Calif. Not as strong as main shock. Epicenter may be in California.
1869-12-27	01:40:	39.5	120.		Maximum intensity of VIII. Aftershock of 12-26 event. E-W motion at Gold Hill, Nevada. Strong at Marysville, Calif. Epicenter may be to NW of 12-26 event.
1872-03-23	13:41:	40.0	117.5	5.5	Maximum intensity of VII at Austin. Felt in Unionville & Winnemucca. Violent shock at Austin, E to W motion. Shook brick walls; some plaster in courthouse fell. Felt area over 12,000 sq. mi.
1872-11-12				6.	Light at Stockton, Calif. and sharp at Austin, Nev. Felt area over 50,000 sq. mi.
1873-11-05	09:00:	40.0	118.	5.5	Heavy at Unionville; four shocks at Virginia City. Eight shocks in 2 days at Carson Sink. Waters agitated. Felt area over 10,000 sq. mi.
1875-04-01	18:00:	39.5	115.8		Maximum intensity of VII at Eureka. Shock of 3-6 sec. duration. Frightened many. Buildings seriously damaged. E-W motion at Eureka.
1887-06-03	02:48:	39.2	119.8		Maximum intensity of VII in Carson City, very severe for 6 or 7 sec. Rotary motion, noise like thunder prior to shock. Stone and brick walls cracked.
1894-11-18	02:49:	39.2	119.5		VII at Virginia City, with cracked plaster, some damaged walls, and many broken windows. N-S motion. III at Carson City, E-W motion. This is probably the main shock. Over 100 shocks were felt in Virginia City within a week.
1896-01-27	13:01:	39.1	119.8		VI at Carson City. Mainly vertical, with SW to NE component. Large crack in side of government building, and plaster fell in county building, Carson City.
1897-05-15	11:04:	39.3	119.7		Intensity V, severe 3-sec. shock in Carson City. NE to SW motion. Plaster broken in many buildings.
1901-07-26	14:20:	40.8	115.7	5.0	Intensity VII in Elko. Series of heavy shocks, N to S vibrations, dishes broken, new brick school and other buildings damaged. At Deeth, goods shaken from shelves (V). Felt in Carlin. Felt area 3,500 sq. mi.
1903?		39.5	118.1		Wonder, Nevada. Historic faulting over a distance of at least 3 miles along the Gold King fault. Year of earthquake is uncertain.
1910-11-21	15:23:	38.	118.		Intensity VIII. Duration of 2 min. at Tonopah Junction. Broke windows. Threw watchman's car

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1910-11-21	15:23:	38.	118.		Intensity VIII. Duration of 2 min. at Tonopah Junction. Broke windows. Threw watchman's car from track.
1914-02-18	10:17:	39.5	119.8	6.	Intensity VII in Truckee Meadows area. Two distinct shocks lasting from 6 to 30 sec. Cracked buildings. Felt area 50,000 sq. mi. Palisades, Nev. to Downieville, Calif., and as far south as Tonopah.
1914-04-24	00:34:	39.5	119.8	6.4	Intensity VIII in Reno. Heaviest shock in Reno since 1868, and in U.S. this year. Lasted 10 sec., toppled chimneys. Felt area about 100,000 sq. mi. Intensities at Winnemucca and at Stockton and Susanville, Calif. were IV.
1915-10-02	17:49:	40.5	117.5		Intensity VIII in a strong Pleasant Valley foreshock. Felt 200 mi. away in Camptonville, Calif. Felt 45-50 sec. in Reno — no damage.
1915-10-02	22:53:	40.5	117.5	7.8	Maximum intensity X in great Pleasant Valley shock. Felt from Wash. to Mexican border, and from Pacific Ocean to Mont., Colo., and Ariz. — over 500,000 sq. mi. Surface fault up to 15 feet high extending for 20 miles along and near foot of Tobin Range. Destructive in sparsely settled country.
1916-02-02	21:03:04	41.	117.8	5.9	Maximum intensity over VI. Origin probably somewhat N of Pleasant Valley quake. Felt in Gerlach (VI), Rebel Creek (IV to V), Fallon (III), Amos and Winnemucca (IV). Felt area about 30,000 sq. mi.
1916-08-03	05:50:	41.5	116.5	5.6	Intensity over IV. Felt in Elko and Winnemucca; lasted 12 seconds.
1916-08-03	06:21:	41.5	116.5	5.8	Intensity over III. Northern Nevada. Reported from Winnemucca, McDermitt, and Rebel Creek.
1916-11-10	01:11:	35.5	116.0	6.1	Intensity over V. Southern Nevada. May have originated east of Death Valley.
1932-12-20	22:10:04	38.80	117.98	7.2	Maximum intensity X in western Nevada, in Basin between Gabbs Valley Range and Pilot Mountains on west and Paradise Range and Cedar Mountain on east. Major event. Recorded 2,000 aftershocks, accompanied by formation of a group of tension faults or rifts in the epicentral area 38 miles long by 4-9 miles wide. Felt in Reno.
1933-01-04	22:51:	38.77	117.74	5.9	Intensity IV. Felt in Mina, Potts, and Wabuska. Aftershock of 12-20 event.
1933-02-13	14:09:	38.	118.	5.5	Intensity IV at Benton, III at Reno, Mina, and Austin.
1933-06-25	12:45:	39.1	119.3	6.0	Intensity VII near Wabuska and Yerington. Felt area 40,000 sq. mi., including Sacramento, Stockton, Tahoe City, Reno, Fallon.
1934-01-30	11:24:	38.3	118.4	5.6	Intensity VII at Mina. Strong foreshock of later one same day; did slight damage — cracked plaster and courthouse wall. Slighter foreshock 6 min. later felt at Fallon, Hawthorne, Lone. One shock 16 min. later.
1934-01-30	12:16:35	38.28	118.37	6.3	Maximum intensity VIII. Severe quake, felt widely over Nevada, and parts of Utah and Calif. Damaged several buildings in Mina. Many small aftershocks were felt. Fault developed on Excelsior Mtn. up to 3 inches wide, and with vertical displacement of up to 5 inches on main scarp. Some left-lateral displacement.
1934-01-30	12:30:	38.3	118.4	5.7	In Hawthorne. Aftershock of medium intensity. Lasted 15 sec. Not felt at Bishop.
1934-02-09	01:21:	38.3	118.4	5.5	Intensity IV. Epicenter in western Nevada.
1939-05-11	10:40:	38.6	117.8	5.5	Maximum intensity of VI in west-central Nevada, from Beatty to Lovelock, and Reno to Eureka. Felt area 38,000 sq. mi. Two foreshocks 33 min. earlier were felt in Reno.
1942-12-03	01:44:42	39.7	119.3	5.9	Intensity VI at Fernley, Fallon, and Reno, where small objects fell. Duration 1½ min. at Fernley. Felt by and awakened many at Minden. Windows rattled. Felt over 24,000 sq. mi.
1943-08-08	21:30:04	38.2	118.2	5.5	Maximum intensity VI. Felt over an area of 34 000

Date	Time	Magnitude	Depth (km)	Distance (mi)	Intensity	Description
1948-12-29	04:53:27	39.5	120.1	6.0		Maximum intensity VII at Verdi. Strong quake affected a 40,000 sq. mi. area, with epicenter apparently in Verdi Fault; many were awakened and frightened; the first and strongest shock lasted 5 to 20 sec. Damage was minor, except in Verdi, where walls, windows, and dishes were cracked and broken. Town's 75 houses all damaged. Over 200 aftershocks with average magnitude of about 3 were recorded at Reno in the next few weeks.
1950-12-14	05:24:19	40.08	120.07	5.6		Intensity VII at Herlong, Calif. Main shock, felt over an area of 20,000 sq. mi. in northeast Calif. and western Nevada. Considerable damage was done at Herlong and Doyle, Calif., and plaster was cracked at Flanigan, Nev.
1953-09-25	19:34:29	39.53	119.98	5.5		Maximum intensity VI. 8 miles west of Reno. Shock felt over approximately 12,000 sq. mi. of western Nevada and northeast California. Minor damage at Reno. Maximum intensity VI at Olinghouse Canyon, Reno, and Vista. In Reno at least two chimneys toppled, dishes rattled, chandeliers swung. Near Vista the temblor caused an earthslide partly blocking U.S. Highway 40.
1954-07-06	03:13:20	39.42	118.53	6.8		Maximum intensity IX E. of Fallon. Epicenter was assigned to the main fault zone on the east edge of Rainbow Mt. in the Stillwater Range, 15 miles SE of Fallon. Felt over about 130,000 sq. mi. Principal damage was to the canal and drainage system of the Newlands Project — estimated at \$200,000. Highway 50 east of Fallon was cracked and buckled.
1954-07-06	03:49:00	39.42	118.53	5.7		Felt at Fallon.
1954-07-06	14:07:41	39.3	118.5	6.0		Fallon aftershock. Frame store creaked at Baxter, Calif. Aftershock at 15:57:07 felt at Wabuska.
1954-08-23	21:51:32	39.42	118.53	6.8		VIII. Fallon. Second major Fallon earthquake. Felt over 150,000 sq. mi. Additional vertical surface movement, west side uplifted, occurred in the same rupture zone as July 6 event, with the extension of breakage 11 miles to the North. Rogers Dam was considerably damaged. Instances of more severe damage than with main shock.
1954-08-31	14:20:32	39.6	118.2	5.8		Intensity VII at Dixie Valley. Felt very strongly in the Stillwater Mtns. Epicenter vicinity of Job Peak.
1954-12-16	03:07:11	39.28	118.12	7.3		Maximum intensity X at Frenchman Station. Felt over area of 200,000 sq. mi. Maximum intensity X assigned to surface faulting. 50-foot section of Highway 50 E of Frenchmans dropped 5.5 feet; \$3,000 in store goods lost. Other damage in Fallon, Carson City, Elko, and in Sacramento, Calif. About 50 miles of normal faulting occurred on Fairview Peak, and along the Clan Alpine Range to E. Displacements were mainly vertical; maximum exceeded 20 feet, with the mountain rising relative to the valley.
1954-12-16	03:11:34	39.8	118.1	6.9		Maximum intensity X in Dixie Valley.
1954-12-16	06:16:57	39.5	118.0	5.8		Aftershock, with surface faulting on W side of Dixie Valley at E side of Stillwater Range.
1959-03-22	23:10:20	39.60	118.07	6.3		Intensity VI in Dixie Valley. Slight plaster cracks reported at Frenchman Station and Carson City. Reports from Dixie Valley indicate shock had rolling motion and was not too strong. Felt over an area of about 50,000 sq. mi.
1959-04-01	10:18:28	39.7	120.2	5.8		Intensity VII at Doyle, Calif. Felt from Reno to San Francisco. Damage amounted to \$5,000 at Loyalton, Calif., where chimneys toppled, merchandise was knocked from shelves, windows cracked. An old stone building near Vinton collapsed; a crack appeared in Sacramento city hall.
1959-06-23	06:35:02	39.08	118.82	6.3		Intensity VI at Schurz. Main shock of series. One foreshock and 2 aftershocks. Felt over about 35,000 sq. mi. area, including Reno, Fallon, Lovelock, Car-

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1959-06-23 06:35:02 39.08 118.82 6.3

San Francisco. Damage amounted to \$5,000 at Loyalton, Calif., where chimneys toppled, merchandise was knocked from shelves, windows cracked. An old stone building near Vinton collapsed; a crack appeared in Sacramento city hall.

Intensity VI at Schurz. Main shock of series. One foreshock and 2 aftershocks. Felt over about 35,000 sq. mi. area, including Reno, Fallon, Lovelock, Carson City, and Hawthorne, Nev., and Turlock, Calif. Principal effects in Schurz, where a road embankment cracked.

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