

1896

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

An Earthquake Catalog
for
The Basin and Range Province
1803 - 1977

by

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This report is preliminary and has not be reviewed for conformity with U. S. Geological Survey editorial standards.

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INTRODUCTION

This map report is one of a series of geologic and hydrologic maps for States in the Basin and Range Province. These map reports contain detailed information on subjects including ground-water hydrology, ground-water quality, surface distribution of selected rock types, data bearing on tectonic conditions, areal geophysical data, Pleistocene hydrologic features, and natural resources. These compilations of geologic and hydrologic information are the basis for a summary report on the Basin and Range which characterize the geology and hydrology of the Basin and Range Province. The geologic and hydrologic information will be used to evaluate the Province for prospective regions for further study relative to isolation of high-level radioactive waste. This work is a part of the U.S. Geological Survey's program for geologic and hydrologic evaluation of broad physiographic provinces to identify potentially suitable environments for storage of high-level nuclear waste (Bedinger, Sargent, and Schneider, 1981).

The need for an improved catalog of seismicity for hazard assessment in the United States has become increasingly apparent since the publication, in 1976, of a probabilistic hazard map of the United States (Algermissen and Perkins, 1976). As part of the probabilistic hazard and risk assessment effort in the U.S. Geological Survey there has been a continuing effort to update and improve basic seismicity data for a number of years. In addition, there has recently been an increased research and compilation effort in a number of other research groups and agencies aimed at improving regional earthquake catalogs in the United States, and we are much indebted to a number of workers who have made their revised regional catalogs available to us.

The need for the location of suitable areas for the disposal of nuclear waste has made improved earthquake catalogs especially important. The catalog of earthquakes in the Basin and Range province provided in this publication is part of this effort.

This catalog is a compilation of 470 events in the Basin and Range province with magnitude (M_s) of 5.0 or greater, in the time interval 1803 through 1977. For each event, data are included that give the date and origin time; the epicenter and depth; a rating of the quality of the hypocentral data; the maximum Modified Mercalli intensity; and from one to three reported or computed magnitudes. An M_s magnitude is included for each event, and when available M_L and m_b values are also included. An epicenter plot of these events is contained in plate 1.

SOURCES OF DATA

This catalog was compiled from three principal sources: 1) from a catalog of Utah earthquakes prepared by the University of Utah (Arabasz and others, 1979); 2) from catalogs published by the California Division of Mines and Geology (Real and others, 1978; Topozada and others, 1980); and 3) from unpublished seismicity data files compiled by Algermissen. In all cases, the primary source was compared with other sources to check for significant discrepancies in the data and to detect duplicates or omissions. Because of the number of events in the California catalog, only events prior to 1900 and events after 1900 greater than magnitude 5.0 were analyzed.

All large shocks were given individual consideration. Large generally refers to events greater than magnitude 7.0 in California and Nevada and magnitude 6.0 elsewhere. Intensities and magnitudes were reconsidered based on all available information, including the distribution of intensities. Epicenters of large shocks have been located on faults if the faults on which the events occurred were known. All events along the Wasatch Fault were given special attention in order to determine the size of the event and whether it occurred on the Wasatch Fault or in an adjacent zone. If this process resulted in reassignment of locations or intensities, this data is given a reference code of 'ASG' in the appendix.

DESCRIPTION OF THE CATALOG

Geographical Boundaries

This catalog covers the Basin and Range province as defined by Fenneman's (1946) map. The province is labeled 22a through 22e by Fenneman, and for this work, is assumed to terminate at the U.S. border. This province boundary is shown in figure 1. The actual catalog covers a slightly larger area than shown in figure 1 in order to include events outside the province boundary which have a significant effect on the hazard within the boundary. This second boundary (also shown in figure 1) is simplified into segments following latitude and longitude lines. The coordinates defining these segments are given in table 1.

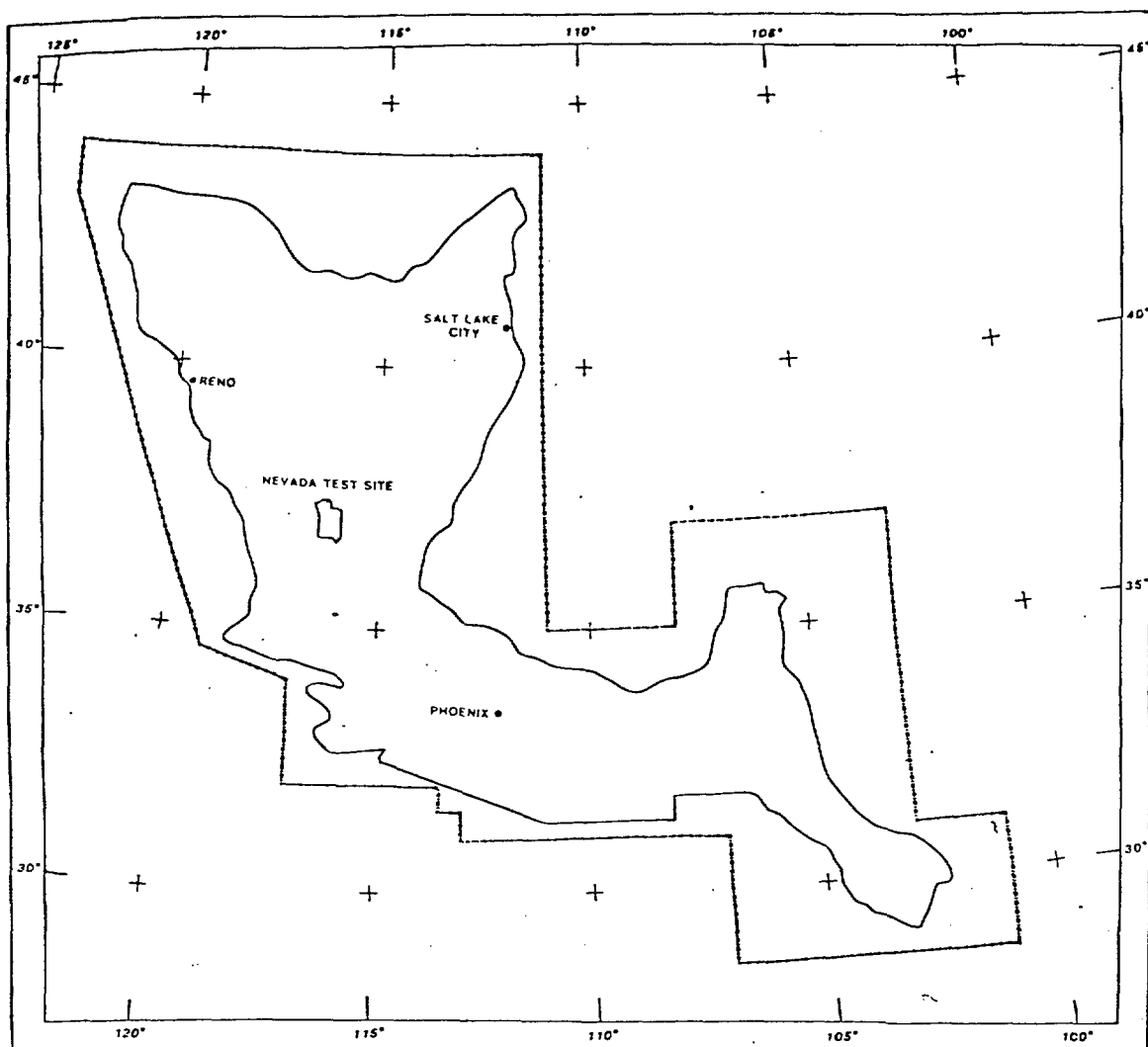


Figure 1 - Solid line shows boundary of Basin and Range province as defined by Fenneman (1946). Dotted line shows boundary of area included in catalog.

Table 1.--Basin and range catalog boundary

<u>Latitude</u>	<u>Longitude</u>
44.0	-123.0
44.0	-111.0
35.0	-111.0
35.0	-108.0
37.0	-108.0
37.0	-103.0
31.0	-103.0
31.0	-101.0
28.5	-101.0
28.5	-107.0
31.0	-107.0
31.0	-113.0
31.5	-113.0
31.5	-113.5
32.0	-113.5
32.0	-117.0
34.0	-117.0
34.6	-119.0
43.0	-119.0
44.0	-123.0

Nevada Test Site

At the Nevada Test Site, events were deleted from the catalog if they could be identified as explosions or aftershocks of explosions. Rogers and others (1976) have published a catalog of events at the Test Site with known nuclear explosions deleted. Through 1974, any events which were not listed by Rogers in his catalog of the area were assumed to be explosions or their aftershocks. After 1974, it is likely that some of these events remain in the catalog.

Hypocenter Quality Factor

The catalog includes a quality rating for the hypocenter of each event. The hypocenter quality has been estimated by analyzing the reports available for the event. For earlier events, particularly pre-instrumental events, the data are not as good, and these estimates are less reliable. References taken from the California Division of Mines and Geology catalog contained quality factors assigned by California Institute of Technology (CIT) as described by Real and others (1978). The CIT quality factors were converted to the ones used here according to the following table:

Cal Tech	New Value
A	A
B	A
C	B
D	X
E	X

Table 2 gives a description of the codes used in this catalog.

Magnitudes

The magnitudes available for the catalog are from a variety of sources. A local M_L scale has been used in Utah since 1962. The development of this scale is described by Griscom and Arabasz (1979). The M_L used in Utah is believed to be approximately equal to the original M_L developed in California by Richter (1958) but this has not been proven rigorously. Magnitudes in Nevada are generally M_s for the larger shocks although some m_b and M_L magnitudes are also given and identified as such. For California, M_L is usually given for earthquakes up to about 6.75. M_s is normally given for larger earthquakes. For earthquakes outside of California prior to about 1960, instrumental magnitudes are generally available for the larger earthquakes and are taken principally from Gutenberg and Richter (1965) or the station bulletins of the California Institute of Technology or the University of California at Berkeley. For earthquakes for which no magnitudes have been computed, magnitudes are estimated using $M_L = 1 + 2/3 I_0$ (Gutenberg and Richter, 1956). The magnitude conversions used are listed in table 6.

Table 2.--Hypocenter quality factor

A	Instrumental epicenter estimated to be good within 0.1 degrees
B	Instrumental epicenter estimated to be good from 0.1 to 0.2 degrees
C	Instrumental epicenter estimated to be good from 0.2 to 0.5 degrees
D	Instrumental epicenter estimated to be good from 0.5 to 1.0 degrees
E	Instrumental epicenter estimated to be in error by more than 1.0 degree
F	Epicenter from felt data estimated to be good to 0.5 degrees
G	Epicenter from felt data estimated to be good from 0.5 to 1.0 degrees
H	Epicenter from felt data estimated to be good from 1.0 to 2.0 degrees
I	Epicenter from felt data estimated to be in error by more than 2.0 degrees
X	Epicenter quality undetermined

Table 3.--Catalog format summary

<u>Columns</u>	<u>Description</u>
5 - 10	Identifying number
13 - 14	State
17 - 26	Date
29 - 38	Time
41 - 45	Latitude
47 - 53	Longitude
55 - 57	Depth
59	Hypocenter quality factor
61 - 63	Hypocenter reference
66 - 67	Maximum intensity
69 - 71	Maximum intensity reference
74 - 81	First magnitude and reference
83 - 90	Second magnitude and reference
92 - 99	Third magnitude and reference

Format

A description of the data, which is listed for all events in Appendix A, follows. Titles abbreviated in Appendix A are shown in parentheses. Table 3 is a summary of the format and defines the column position of each item of data.

Number -- identifying number uniquely assigned to each earthquake. Numbers less than 100000 indicate the maximum intensity is less than V. Numbers greater than or equal to 100000 indicate the maximum intensity is greater than or equal to V.

State (ST) -- two-letter code identifying the state where the earthquake was located. See list of codes in table 4.

Date -- date of occurrence, Greenwich time, shown as year, month, day. Zeroes for the month or day indicate that information is not known.

Time -- time of occurrence, Greenwich time. The time is listed to the nearest tenth of a second, but this does not indicate the accuracy. Accuracy varies and is undetermined.

Latitude, longitude (LAT, LONG) -- coordinates of the epicenter, listed to hundredths of a degree, but not necessarily reported with that accuracy. West longitudes are listed as negative values.

Depth (DEP) -- focal depth in kilometers, given to the nearest kilometer. If the depth is unknown, the value listed identifies a general range as follows:

990-shallow, 0-70 km
880-intermediate, 71-200 km
770-deep, 201-700 km
999-range undetermined

In the Basin and Range, all depths are shallow. If a negative value was reported in a source, it was assigned a value of zero.

Quality factor (Q) -- a single letter code indicating the approximate accuracy of the hypocenter. See table 2 for listing of codes.

Reference (REF) -- three character code identifying the primary source of the hypocenter, date, and time listed. See table 5 for listing of references.

Intensity (I) -- maximum intensity of the earthquake on the Modified Mercalli scale. Rossi-Forel intensities were converted to the MM scale using Richter, (1958, p. 651). Where a Rossi-Forel value had 2 possible conversions, reported effects were examined to determine the value used. If a value was computed from a magnitude and resulted in an intensity less than one, a value of one was assigned.

Reference (REF) -- 3 character code (table 5) referencing the source for the intensity listed. A code beginning with * indicates the intensity was converted from a magnitude. The next character is a letter code indicating the relationship used for the conversion. (See table 6). The third character indicates from which column the magnitude was taken for conversion.

Magnitudes -- space is provided to report three magnitudes: M_s , M_L , and m_b . An M_s magnitude, which may be either reported or computed from another magnitude, is always included. Values are listed to the nearest tenth. A four-character reference code follows each magnitude. The first part of this code consists of two letters indicating the source reporting the magnitude or the method of computation. (See table 7 for source codes). A * in the first position indicates the magnitude was computed from the maximum intensity; a \$ indicates it was converted from another magnitude. In both cases the second character indicates the relationship used as listed in table 4. The second part of the code is two digits defining the type as shown in table 8. Magnitudes reported by Pasadena (PS), Berkeley (BK), Reno (RN), and the California Department of Water Resources (CW) were assigned a type of M_L (code 01) if the magnitude was less than 6.75 and a type of M_s (code 10) otherwise. Any magnitude which was less than 0.1 was assigned a value of 0.1.

Table 4.--State abbreviations

AZ	Arizona
CA	California
ID	Idaho
MX	Mexico
NM	New Mexico
NV	Nevada
OR	Oregon
TX	Texas
UT	Utah

Table 5.--References for hypocenter parameters, quality factor, and maximum intensity (I)

ASG - assigned by S. T. Algermissen and B. L. Askew.

CMG - Real, C. R., Toppozada, T. R., and Parke, D. L., 1978, Earthquake Catalog of California, January 1, 1900-December 31, 1974: California Division of Mines and Geology, Special Publication 52 and magnetic tape, 15 p. Toppozada, T. R., Real, C. R., Bezore, S. P., Parke, D. L., 1980, Preparation of Isoleismal Maps and Summaries of Reported Effects for Pre-1900 California Earthquakes: California Division of Mines and Geology, Annual Technical Report Fiscal Year 1979-1980, 79 p.

RCH - Richter, C. F., 1958, Elementary seismology: San Francisco, California, W. H. Freeman and Company, 768 p.

RYL - Ryall, F. D., and Smith, G. M., 1980, Bulletin of the Seismological Laboratory for the period January 1, 1975 to December 31, 1979: University of Nevada, Reno, Nevada, 84 p.

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Table 6.--Conversion relations

CODE	RELATION	REFERENCE
A	$M_s = 1.59 m_b - 3.6$	Nuttli, O. W., and Zollweg, J. E., 1974, The Relation Between Felt Area and Magnitude for Central United States Earthquakes: Seismological Society of America Bulletin, vol. 64, p. 82.
B	$M_s = 1.32 M_L - 2.112$	Gutenberg, B., and Richter, C. F., 1956 Earthquake Magnitude, Intensity, Energy and Acceleration: Seismological Society of America Bulletin, vol. 46, p. 137.
M	$M_L = 1.0 + (2/3) I$	Gutenberg, B., and Richter, C. F., 1956 Earthquake Magnitude, Intensity Energy, and Acceleration, Seismological Society of America Bulletin, p. 131.

TABLE 7.--Magnitude source codes

BK	Bulletin of the Seismographic Stations, University of California, Berkeley, California; various volumes.
CG	Real, C. R., Toppozada, T. R., and Parke, D. L., 1978, Earthquake Catalog of California January 1, 1900-December 31, 1974: California Division of Mines and Geology, Special Publication 52 and magnetic tape, 15 p. Toppozada, T. R., Real, C. R., Bezore, S. P., Parke, D. L., 1980, Preparation of Isoseismal Maps and Summaries of Reported Effects for Pre-1900 California Earthquakes: California Division of Mines and Geology, Annual Technical Report Fiscal Year 1979-1980, 78 p.
CW	California Department of Water Resources, unpublished earthquake data.
ED	Department of Energy, depending upon the location of the earthquake either unpublished data from: (1) Nevada Operations Office, Las Vegas, Nevada; or (2) Idaho National Engineering Laboratory, Idaho Falls, Idaho; personal communication to NEIS.
FS	Various U.S. Geological Survey Open-File Reports on the seismicity of southern California by Fuis and others.
GS	National Earthquake Information Service (and predecessor organizations), Preliminary Determination of Epicenters and various U.S. Geological Survey circulars, Earthquakes in the United States, issued quarterly since January, 1974.
KN	Kanamori, H. and Geller, R. J., 1977, Magnitudes of Great Shallow Earthquakes from 1904 to 1952: Seismological Society of America Bulletin, vol. 67, p. 587-598.
NU	Nuttli, O. W., 1973, The Mississippi Valley Earthquakes of 1811 and 1812: Intensities, Ground Motion, and Magnitude: Seismological Society of America Bulletin, vol. 63, p. 227-248.
PS	Hileman, J. A., Allen, C. R., and Nordquist, J. M., Seismicity of the Southern California Region, 1 January 1932 to 31 December 1972, and various other reports: Seismological Laboratory, California Institute of Technology, Pasadena, California.
RN	Bulletin of the Seismological Laboratory, University of Nevada, Reno, Nevada; various volumes.
UU	Arabasz, W. J., Smith, R. B., and Richins, W. D., 1979, Earthquake Studies in Utah 1850-1978: Special Publication of the University of Utah Seismograph Stations, Department of Geology and Geophysics, University of Utah, 552 p. (local ML magnitudes determined from instruments other than standard Wood-Anderson seismographs).

- UW Arabasz, W. J., Smith, R. B., and Richins, W. D., 1979, Earthquake Studies in Utah 1850-1978: Special Publication of the University of Utah Seismograph Stations, Department of Geology and Geophysics, University of Utah, 552 p. (local ML magnitudes determined from Wood-Anderson seismographs).
- * Magnitude derived from Modified Mercalli Intensity (MMI). Second column indicates relationship used.
- \$ Derived from another magnitude. Second column indicates relationship used.

Table 8.--Magnitude type codes

01	M_L	(Richter, Southern California)
03	M_L	(Local, Utah)
10	M_s	(M_s - Horizontal)
20	M_b	(Coast and Geodetic Survey)
21	M_b	(Geological Survey)
29	M_b	(Other)

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APPENDIX A

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE

$$M_s \geq 5.0$$

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
104661	MX	1803 05 25	00:00:00.0	32.50	-117.00	990	I	38	6	38	5.0	*M10	---	---	---	---
100336	AZ	1852 11 09	00:00:00.0	33.00	-114.50	990	I	38	8	38	6.3	*M10	---	---	---	---
101759	CA	1852 11 27	00:00:00.0	34.50	-119.00	990	I	38	8	38	6.3	*M10	---	---	---	---
101769	CA	1856 09 21	07:30:00.0	33.00	-116.50	990	I	38	7	38	5.7	*M10	---	---	---	---
101770	CA	1857 01 09	16:00:00.0	34.81	-119.02	990	I	ASG	11	38	8.3	*M10	---	---	---	---
101807	CA	1867 12 02	07:12:00.0	39.30	-121.00	990	H	56	6	56	5.0	*M10	---	---	---	---
101808	CA	1868 05 00	00:00:00.0	33.50	-115.50	990	H	38	8	38	6.3	*M10	---	---	---	---
103284	NV	1868 05 30	05:11:00.0	39.50	-120.00	990	G	54	7	54	5.8	\$B10	6.0	RN01	---	---
103285	NV	1868 05 30	05:21:00.0	39.50	-120.00	990	G	54	6	54	5.0	*M10	---	---	---	---
103286	NV	1868 05 30	05:23:00.0	39.50	-120.00	990	H	54	6	54	5.0	*M10	---	---	---	---
101809	CA	1868 07 25	02:30:00.0	36.00	-119.00	990	I	56	6	56	5.0	*M10	---	---	---	---
101811	CA	1868 09 04	16:00:00.0	37.00	-118.00	990	I	38	8	38	6.3	*M10	---	---	---	---
100644	NM	1869 04 00	00:00:00.0	34.00	-107.00	990	G	38	7	38	5.7	*M10	---	---	---	---
103287	NV	1869 12 27	01:30:00.0	39.50	-120.00	990	G	54	9	54	7.0	*M10	---	---	---	---
103288	NV	1869 12 27	05:50:00.0	39.50	-120.00	990	G	54	7	54	5.7	*M10	---	---	---	---
103289	NV	1869 12 27	09:40:00.0	39.50	-120.00	990	G	54	8	54	6.3	*M10	---	---	---	---
101818	CA	1871 07 05	00:00:00.0	37.00	-118.00	990	H	38	6	38	5.0	*M10	---	---	---	---
103291	NV	1872 03 23	21:41:00.0	40.00	-117.50	990	G	54	7	54	5.1	\$B10	5.5	RN01	---	---
101819	CA	1872 03 26	10:30:00.0	36.61	-118.08	990	H	38	11	38	8.3	*M10	---	---	---	---
105704	CA	1872 03 26	14:06:00.0	36.90	-118.20	990	X	CMG	5	CMG	6.7	\$B10	6.7	CG01	---	---
101100	CA	1872 03 28	13:00:00.0	39.50	-120.50	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
105703	CA	1872 04 11	19:00:00.0	37.50	-118.50	990	X	CMG	9	CMG	7.0	\$B10	6.9	CG01	---	---
101822	CA	1872 04 18	12:00:00.0	36.00	-118.00	990	I	56	6	56	5.0	*M10	---	---	---	---
105669	CA	1872 05 03	01:00:00.0	33.00	-115.00	990	X	CMG	7	CMG	5.7	\$B10	5.9	CG01	---	---
101823	CA	1872 05 17	21:00:00.0	36.60	-118.10	990	H	56	6	56	5.0	*M10	---	---	---	---

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
103292	NV	1873 11 05	17:00:00.0	40.00	-118.00	990	G	54	7	*M1	5.1	\$B10	5.5	RN01	---	----
103294	NV	1875 04 02	02:00:00.0	39.50	-115.80	990	G	54	7	54	5.7	*M10	---	----	---	----
100337	CA	1875 11 01	00:00:00.0	32.70	-114.60	990	I	56	6	56	5.0	*M10	---	----	---	----
103148	UT	1876 03 22	00:00:00.0	39.53	-111.58	990	X	UTH	6	UTH	5.0	*M10	---	----	---	----
101102	CA	1881 02 02	00:11:00.0	36.30	-119.30	990	H	56	8	CMG	6.3	*M10	---	----	---	----
100581	ID	1884 11 09	10:00:00.0	42.20	-111.30	990	G	56	7	56	5.7	*M10	---	----	---	----
103152	UT	1884 11 10	08:50:00.0	42.00	-111.27	990	X	UTH	8	UTH	6.3	*M10	---	----	---	----
101840	CA	1885 01 30	18:45:00.0	40.50	-120.50	990	H	38	7	38	5.7	*M10	---	----	---	----
105607	CA	1885 01 31	05:45:00.0	40.40	-120.50	990	X	CMG	7	CMG	5.3	\$B10	5.6	CG01	---	----
103295	NV	1886 04 14	03:20:00.0	37.20	-117.70	990	H	54	6	54	5.0	*M10	---	----	---	----
105154	MX	1887 05 03	14:30:00.0	31.00	-109.00	990	X	ASG	9	ASG	7.0	*M10	---	----	---	----
103296	NV	1887 06 03	10:48:00.0	39.20	-119.80	990	F	54	7	54	5.7	*M10	---	----	---	----
103153	UT	1887 12 05	15:30:00.0	37.05	-112.52	990	X	UTH	7	UTH	5.7	*M10	---	----	---	----
105575	CA	1888 04 29	04:48:00.0	39.70	-120.70	990	X	CMG	7	CMG	5.5	\$B10	5.8	CG01	---	----
101856	CA	1889 06 20	06:00:00.0	40.50	-120.50	990	H	38	7	38	5.7	*M10	---	----	---	----
101859	CA	1889 09 30	04:10:00.0	37.50	-119.70	990	H	56	6	56	5.0	*M10	---	----	---	----
103154	UT	1891 04 20	13:55:00.0	37.11	-113.57	990	X	UTH	6	UTH	5.0	*M10	---	----	---	----
101113	CA	1892 06 14	13:25:00.0	34.00	-117.40	990	H	56	6	CMG	5.0	*M10	---	----	---	----
101873	CA	1893 04 04	19:40:00.0	34.50	-118.50	990	G	38	8	38	6.3	*M10	---	----	---	----
100648	NM	1893 09 07	00:00:00.0	34.70	-106.60	990	G	38	7	38	5.7	*M10	---	----	---	----
103156	UT	1894 07 18	22:50:00.0	41.22	-111.96	990	X	UTH	7	UTH	5.7	*M10	---	----	---	----
101115	CA	1894 07 30	05:12:00.0	35.00	-118.00	990	H	38	6	CMG	5.0	*M10	---	----	---	----
101878	CA	1894 10 23	23:03:00.0	33.00	-117.00	990	H	38	7	38	5.7	*M10	---	----	---	----
103300	NV	1894 11 18	10:49:00.0	39.20	-119.50	990	G	54	7	54	5.7	*M10	---	----	---	----
100650	NM	1895 10 31	12:00:00.0	34.00	-107.00	990	G	38	6	38	5.0	*M10	---	----	---	----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
105443	NV	1896 01 27	21:01:00.0	39.10	-119.80	990	F	54	6	54	5.0	*M10	---	----	----	----
100651	NM	1897 00 00	00:00:00.0	34.00	-107.00	990	G	38	6	38	5.0	*M10	---	----	----	----
105220	CA	1899 07 22	00:46:00.0	34.20	-117.40	990	X	CMG	7	CMG	5.3	\$B10	5.6	CG01	---	----
101887	CA	1899 07 22	20:32:00.0	34.50	-117.50	990	H	38	8	38	6.3	*M10	---	----	----	----
101889	CA	1899 12 25	12:25:00.0	33.47	-116.52	990	G	ASG	9	CMG	6.3	*M10	---	----	----	----
101890	CA	1899 12 26	00:00:00.0	33.80	-117.00	990	H	58	7	58	5.7	*M10	---	----	----	----
103157	UT	1900 08 01	07:45:00.0	39.95	-112.11	990	X	UTH	7	UTH	5.7	*M10	---	----	----	----
103158	UT	1901 11 14	04:39:00.0	38.77	-112.08	990	X	UTH	8	UTH	6.3	*M10	---	----	----	----
104559	CA	1901 12 27	11:00:00.0	34.10	-117.30	990	X	CMG	6	CMG	5.0	*M10	---	----	----	----
103160	UT	1902 11 17	19:50:00.0	37.39	-113.52	990	X	UTH	8	UTH	6.3	*M10	---	----	----	----
103161	UT	1902 12 05	00:00:00.0	37.39	-113.52	990	X	UTH	6	UTH	5.0	*M10	---	----	----	----
104557	CA	1903 01 08	00:30:00.0	35.30	-119.00	990	X	CMG	6	CMG	5.0	*M10	---	----	----	----
101910	CA	1905 07 15	20:41:00.0	34.10	-117.30	990	G	56	6	56	5.0	*M10	---	----	----	----
103163	ID	1905 11 11	21:26:00.0	42.90	-114.50	990	X	UTH	7	UTH	5.7	*M10	---	----	----	----
100584	ID	1905 11 12	03:45:00.0	42.90	-114.30	990	G	56	6	56	5.0	*M10	---	----	----	----
101912	CA	1905 12 23	22:23:00.0	35.30	-118.90	990	H	56	7	56	5.0	*M10	---	----	----	----
100338	AZ	1906 01 25	20:32:30.0	35.30	-111.60	990	G	38	7	38	5.7	*M10	---	----	----	----
103279	CA	1906 05 15	09:32:00.0	39.20	-121.10	990	X	CMG	6	CMG	5.0	*M10	---	----	----	----
100655	NM	1906 07 12	12:15:00.0	34.00	-107.00	990	G	38	7	38	5.7	*M10	---	----	----	----
100656	NM	1906 07 16	19:00:00.0	34.00	-107.00	990	G	38	8	38	6.3	*M10	---	----	----	----
100657	NM	1906 11 15	12:15:00.0	34.00	-107.00	990	G	38	7	38	5.7	*M10	---	----	----	----
103278	CA	1907 05 22	06:52:00.0	34.00	-117.40	990	X	CMG	6	CMG	5.0	*M10	---	----	----	----
101928	CA	1907 09 20	01:54:00.0	34.10	-117.30	990	G	56	7	56	5.8	\$B10	6.0	CG01	---	----
101929	CA	1908 01 27	02:00:00.0	40.30	-120.30	990	G	56	6	56	5.0	*M10	---	----	----	----
103277	CA	1908 03 23	13:57:00.0	33.00	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	----	----	----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE			TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
103166	UT	1908	04	15	00:00:00.0	38.39	-113.01	990	X	UTH	6	UTH	5.0	*M10	---	----	---	----
103276	CA	1908	09	04	00:00:00.0	35.30	-119.00	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
101935	CA	1908	11	04	08:37:00.0	36.00	-117.00	990	H	38	7	38	5.7	*M10	---	----	---	----
101937	CA	1909	06	23	07:24:00.0	39.50	-121.00	990	H	38	7	38	5.1	\$B10	5.5	CG01	---	----
103167	UT	1909	10	06	02:50:00.0	41.77	-112.70	990	X	UTH	8	UTH	6.3	*M10	---	----	---	----
103169	UT	1910	01	10	13:00:00.0	38.68	-112.15	990	X	UTH	6	UTH	5.0	*M10	---	----	---	----
103170	UT	1910	01	12	03:00:00.0	38.68	-112.15	990	X	UTH	6	UTH	5.0	*M10	---	----	---	----
101941	CA	1910	05	06	16:40:00.0	37.33	-118.42	990	X	CMG	6	56	5.1	\$B10	5.5	CG01	---	----
103171	UT	1910	05	22	14:28:00.0	40.75	-111.85	990	X	UTH	7	UTH	5.7	*M10	---	----	---	----
100339	AZ	1910	09	24	04:05:00.0	36.00	-111.10	990	G	38	8	ALG	6.3	*M10	---	----	---	----
103305	NV	1910	11	07	17:20:00.0	37.50	-117.00	990	G	54	7	54	5.7	*M10	---	----	---	----
103306	NV	1910	11	19	02:25:00.0	38.00	-118.00	990	G	54	7	54	5.7	*M10	---	----	---	----
103307	NV	1910	11	21	23:23:00.0	38.00	-118.00	990	G	54	8	54	6.3	*M10	---	----	---	----
103308	NV	1910	11	22	00:30:00.0	38.00	-118.00	990	G	54	6	54	5.0	*M10	---	----	---	----
103309	NV	1910	11	22	06:05:00.0	38.00	-118.00	990	G	54	7	54	5.7	*M10	---	----	---	----
103269	CA	1910	12	27	17:15:00.0	33.25	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
103252	CA	1912	01	05	03:54:00.0	37.33	-118.42	990	X	CMG	7	CMG	5.1	\$B10	5.5	CG01	---	----
100340	AZ	1912	08	18	21:12:00.0	36.50	-111.50	990	H	38	8	ALG	6.3	*M10	---	----	---	----
103310	NV	1914	02	18	18:17:00.0	39.50	-119.80	990	G	54	7	54	5.8	\$B10	6.0	RN01	---	----
103311	NV	1914	02	20	10:00:00.0	39.50	-120.00	990	G	54	6	54	5.0	*M10	---	----	---	----
103312	NV	1914	04	24	08:34:00.0	39.50	-119.80	990	F	54	8	54	6.3	\$B10	6.4	RN01	---	----
103174	UT	1914	05	13	17:15:00.0	41.22	-111.96	990	X	UTH	7	UTH	5.7	*M10	---	----	---	----
101956	CA	1915	02	22	00:00:00.0	40.58	-121.82	990	X	CMG	7	38	5.7	*M10	---	----	---	----
101959	CA	1915	06	23	03:59:00.0	32.80	-115.50	990	D	38	8	38	6.3	*M10	---	----	---	----
101960	CA	1915	06	23	04:56:00.0	32.80	-115.50	990	D	38	8	38	6.3	*M10	---	----	---	----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
103213	CA	1915 07 03	23:45:00.0	32.80	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
103210	CA	1915 07 04	00:45:00.0	32.80	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
103208	CA	1915 07 04	05:00:00.0	32.80	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
103176	UT	1915 07 15	22:00:00.0	40.24	-111.66	990	X	UTH	6	UTH	5.0	*M10	---	----	---	----
103178	UT	1915 08 11	10:20:00.0	40.50	-112.65	990	X	UTH	6	UTH	5.0	*M10	---	----	---	----
103313	NV	1915 10 02	23:41:00.0	40.50	-117.50	990	F	54	6	54	5.0	*M10	---	----	---	----
103314	NV	1915 10 03	01:49:00.0	40.50	-117.50	990	F	54	8	54	6.3	*M10	---	----	---	----
103315	NV	1915 10 03	06:53:00.0	40.50	-117.50	990	C	54	10	54	7.7	KN10	7.8	PS10	7.3	KN29
103179	UT	1915 10 05	08:00:00.0	40.10	-114.00	990	X	UTH	6	UTH	5.0	*M10	---	----	---	----
104663	MX	1915 11 21	00:13:42.0	32.00	-115.00	990	E	73	7	38	5.7	*M10	---	----	---	----
103317	NV	1916 02 03	05:03:04.0	41.00	-117.80	990	E	54	6	54	5.7	\$B10	5.9	RN01	---	----
103318	NV	1916 02 14	06:00:00.0	41.50	-117.60	990	H	54	6	54	5.0	*M10	---	----	---	----
100587	ID	1916 05 13	02:26:00.0	43.60	-116.10	990	G	56	6	56	5.0	*M10	---	----	---	----
33296	NV	1916 08 03	13:50:00.0	41.50	-116.50	990	E	54	4	54	5.3	\$B10	5.6	RN01	---	----
26225	NV	1916 08 03	14:21:00.0	41.50	-116.50	990	E	54	3	54	5.5	\$B10	5.8	RN01	---	----
101966	CA	1916 10 23	02:44:00.0	34.90	-118.90	990	G	38	7	38	5.8	\$B10	6.0	CG01	---	----
103132	CA	1916 10 23	02:54:00.0	34.70	-119.00	990	X	CMG	6	CMG	5.1	\$B10	5.5	CG01	---	----
101968	CA	1916 11 10	09:11:00.0	35.50	-116.00	990	D	54	5	54	5.9	\$B10	6.1	RN01	---	----
101971	CA	1917 05 28	06:06:00.0	32.80	-115.30	990	X	CMG	7	38	5.1	\$B10	5.5	CG01	---	----
103122	CA	1917 05 31	02:10:00.0	33.00	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
103108	CA	1917 07 06	11:01:00.0	36.58	-118.08	990	X	CMG	7	CMG	5.0	*M10	---	----	---	----
101976	CA	1918 03 12	10:30:00.0	39.58	-120.83	990	X	CMG	6	ALG	5.0	*M10	---	----	---	----
103093	CA	1918 03 23	15:15:00.0	35.50	-118.00	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
103089	CA	1918 03 30	16:05:00.0	33.50	-116.80	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
101978	CA	1918 04 21	22:32:25.0	33.79	-117.00	990	D	ASG	9	38	6.9	\$B10	6.8	CG01	---	----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE		TIME		LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
101980	CA	1918	05	01	04:32:00.0	32.70	-115.50	990	G	58	6	CMG	5.0	*M10	---	---	---	---
103079	CA	1918	05	11	08:05:00.0	33.10	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
100659	NM	1918	05	28	11:30:00.0	35.50	-106.60	990	G	38	7	38	5.7	*M10	---	---	---	---
103064	CA	1919	01	04	23:00:00.0	40.58	-121.82	990	X	CMG	6	ASG	5.0	*M10	---	---	---	---
103052	CA	1919	10	01	19:31:00.0	33.00	-114.50	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
101991	CA	1920	01	01	02:34:30.0	33.30	-116.70	990	G	58	6	CMG	5.0	*M10	---	---	---	---
101996	CA	1920	07	23	03:55:00.0	40.50	-121.83	990	X	CMG	7	38	5.7	*M10	---	---	---	---
103047	CA	1920	10	12	17:48:00.0	33.20	-116.60	990	X	CMG	7	CMG	5.0	*M10	---	---	---	---
102001	CA	1921	07	21	20:15:00.0	40.67	-120.75	990	X	CMG	6	38	5.0	*M10	---	---	---	---
103036	CA	1921	07	21	20:20:00.0	40.67	-120.75	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
104664	MX	1921	09	08	19:24:00.0	32.50	-115.50	990	D	38	6	38	5.0	*M10	---	---	---	---
103187	UT	1921	09	29	14:12:00.0	38.68	-112.15	990	X	UTH	8	UTH	6.3	*M10	---	---	---	---
103188	UT	1921	09	30	02:30:00.0	38.68	-112.15	990	X	UTH	8	UTH	6.3	*M10	---	---	---	---
103189	UT	1921	10	01	15:32:00.0	38.68	-112.15	990	X	UTH	8	UTH	6.3	*M10	---	---	---	---
100722	OR	1923	01	11	04:29:00.0	42.20	-120.30	990	H	53	6	53	5.0	*M10	---	---	---	---
102006	CA	1923	07	23	07:30:26.0	34.00	-117.25	990	X	CMG	7	38	6.2	\$B10	6.3	CG01	---	---
104665	MX	1923	11	05	22:07:00.0	32.50	-115.50	990	G	38	7	38	5.7	*M10	---	---	---	---
104666	MX	1923	11	07	23:57:00.0	32.50	-115.50	990	G	38	8	38	6.3	*M10	---	---	---	---
103015	CA	1924	10	24	07:39:00.0	33.00	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
103014	CA	1925	03	31	05:47:00.0	39.33	-120.32	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
102013	CA	1925	04	16	03:30:00.0	32.70	-115.50	990	G	56	6	56	5.0	*M10	---	---	---	---
102014	CA	1926	04	03	20:08:00.0	34.00	-116.00	990	C	38	6	38	5.1	\$B10	5.5	CG01	---	---
104667	MX	1926	04	19	15:17:00.0	32.50	-115.00	990	D	38	6	38	5.0	*M10	---	---	---	---
102016	CA	1926	06	30	13:31:00.0	35.50	-118.70	990	H	56	6	56	5.0	*M10	---	---	---	---
104668	MX	1927	01	01	08:16:45.0	32.50	-115.50	990	C	38	8	38	6.3	*M10	---	---	---	---

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
102982	CA	1927 01 01	09:05:00.0	32.70	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	-----	---	-----
104669	MX	1927 01 01	09:13:30.0	32.50	-115.50	990	C	38	8	38	6.3	*M10	---	-----	---	-----
102977	CA	1927 01 01	10:10:00.0	32.70	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	-----	---	-----
102975	CA	1927 01 01	13:00:00.0	32.70	-115.50	990	X	CMG	7	CMG	5.0	*M10	---	-----	---	-----
102970	CA	1927 01 16	19:05:00.0	32.70	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	-----	---	-----
102969	CA	1927 02 12	08:58:00.0	32.80	-115.50	990	X	CMG	6	CMG	5.0	*M10	---	-----	---	-----
102963	CA	1927 08 14	14:48:00.0	32.80	-116.80	990	X	CMG	6	CMG	5.0	*M10	---	-----	---	-----
102037	CA	1927 09 18	02:07:07.0	37.50	-118.75	990	X	CMG	7	38	5.8	\$B10	6.0	CG01	---	-----
102961	CA	1928 09 12	01:20:00.0	37.00	-120.07	990	X	CMG	6	CMG	5.0	*M10	---	-----	---	-----
102047	CA	1929 11 28	19:49:00.0	36.90	-118.19	990	X	CMG	7	38	5.1	\$B10	5.5	CG01	---	-----
102955	CA	1929 12 02	07:00:00.0	37.00	-118.17	990	X	CMG	7	CMG	5.0	*M10	---	-----	---	-----
102954	CA	1929 12 08	12:45:00.0	37.00	-118.17	990	X	CMG	7	CMG	5.0	*M10	---	-----	---	-----
100661	NM	1931 02 05	04:48:00.0	35.00	-106.50	990	G	4	6	4	5.0	*M10	---	-----	---	-----
100178	TX	1931 08 16	11:40:21.0	30.60	-104.10	990	X	173	8	173	5.3	\$A10	---	-----	5.6	NU23
100179	TX	1931 08 19	02:36:00.0	30.60	-104.10	990	X	173	6	173	5.0	*M10	---	-----	---	-----
103334	NV	1932 12 21	06:10:04.0	38.71	-117.98	990	C	RCH	10	54	7.2	PS10	---	-----	---	-----
103337	NV	1932 12 25	03:55:00.0	38.80	-118.00	990	E	54	7	*M1	5.1	\$B10	5.5	RN01	---	-----
26289	NV	1933 01 05	06:51:00.0	38.80	-117.70	990	C	54	4	54	5.7	\$B10	5.9	RN01	---	-----
103194	UT	1933 01 20	13:10:00.0	37.84	-112.83	990	X	UTH	6	UTH	5.0	*M10	---	-----	---	-----
103359	NV	1933 02 13	22:09:00.0	38.00	-118.00	990	E	54	5	54	5.1	\$B10	5.5	RN01	---	-----
103366	NV	1933 06 25	20:45:00.0	39.10	-119.30	990	D	54	7	54	5.8	\$B10	6.0	RN01	---	-----
103369	NV	1933 10 27	10:59:00.0	38.90	-117.60	990	E	54	5	54	5.1	\$B10	5.5	RN01	---	-----
103371	NV	1934 01 30	19:24:00.0	38.30	-118.40	990	E	54	7	54	5.3	\$B10	5.6	RN01	---	-----
103372	NV	1934 01 30	20:16:31.0	38.30	-118.40	990	D	7	8	7	6.3	PS10	---	-----	---	-----
103373	NV	1934 01 30	20:30:00.0	38.30	-118.40	990	E	54	7	*M1	5.4	\$B10	5.7	RN01	---	-----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	Ms	REF	ML	REF	Mb	REF
103373	NV	1934 01 30	20:30:00.0	38.30	-118.40	990	E	54	7	*M1	5.4	\$B10	5.7	RN01	---	----
103374	NV	1934 01 30	23:40:00.0	38.10	-118.50	990	E	54	7	*M1	5.0	\$B10	5.4	RN01	---	----
103379	NV	1934 02 01	11:46:00.0	38.30	-118.40	990	E	54	5	54	5.0	\$B10	5.4	RN01	---	----
26314	NV	1934 02 09	09:21:00.0	38.30	-118.40	990	D	54	4	54	5.5	PS10	---	----	---	----
103195	UT	1934 03 12	15:05:48.0	41.70	-112.80	990	X	UTH	8	UTH	6.6	PS10	---	----	---	----
103196	UT	1934 03 12	18:20:12.0	41.70	-112.80	990	X	UTH	7	UTH	5.9	\$B10	6.1	RN01	---	----
103199	UT	1934 04 14	21:26:32.0	41.80	-112.80	990	X	UTH	7	UTH	5.3	\$B10	5.6	RN01	---	----
103394	NV	1934 04 15	12:09:00.0	38.00	-115.00	990	E	54	6	*M1	5.0	CW10	---	----	---	----
103200	UT	1934 05 06	08:09:42.0	41.70	-112.80	990	X	UTH	6	UTH	5.3	\$B10	5.6	RN01	---	----
103397	NV	1934 06 23	15:04:34.0	39.10	-118.80	990	D	54	7	*M1	5.5	CW10	---	----	---	----
104676	MX	1934 11 25	08:18:00.0	32.10	-116.70	990	C	73	6	73	5.0	CW10	---	----	---	----
104678	MX	1934 12 30	13:52:14.0	32.20	-115.50	990	D	73	9	38	6.5	PS10	---	----	---	----
104684	MX	1934 12 31	18:45:45.0	32.00	-114.70	990	D	73	10	38	7.0	PS10	---	----	---	----
100345	AZ	1935 01 02	07:30:00.0	32.70	-114.20	990	G	8	6	38	5.0	*M10	---	----	---	----
100346	AZ	1935 01 10	08:10:00.0	36.10	-112.10	990	G	8	6	8	5.0	*M10	---	----	---	----
100663	NM	1935 02 21	01:25:00.0	34.40	-106.80	990	F	8	6	8	5.0	*M10	---	----	---	----
104688	MX	1935 02 24	01:45:00.0	32.00	-115.20	990	C	33	7	33	6.0	PS10	---	----	---	----
104689	MX	1935 02 24	01:45:10.0	32.50	-115.00	990	D	73	6	73	5.3	PS10	---	----	---	----
102915	CA	1935 07 19	01:22:00.0	40.00	-121.00	990	X	CMG	6	CMG	5.0	*M10	---	----	---	----
102100	CA	1935 09 08	17:03:00.0	32.90	-115.20	990	C	73	6	8	5.0	PS10	---	----	---	----
102101	CA	1935 10 11	14:06:00.0	32.90	-115.22	990	B	CMG	6	73	5.0	CW10	---	----	---	----
102102	CA	1935 10 24	14:48:00.0	34.10	-116.90	990	B	73	5	73	5.0	PS10	---	----	---	----
102106	CA	1935 12 20	07:45:00.0	33.17	-115.50	990	B	CMG	6	73	5.0	CW10	---	----	---	----
102110	CA	1936 05 10	17:40:13.3	37.61	-118.37	10	X	CMG	6	38	5.0	PS10	---	----	---	----
103408	NV	1936 07 02	16:29:00.0	39.30	-118.20	990	E	54	6	*M1	5.0	PS10	---	----	---	----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
102117	CA	1937 03 25	16:49:01.8	33.41	-116.26	10	B	CMG	7	38	6.0	PS10	---	----	---	----
103415	NV	1937 05 25	05:36:00.0	41.50	-119.80	990	E	54	6	*M1	5.0	PS10	---	----	---	----
103206	ID	1937 11 18	23:50:00.0	42.10	-113.90	990	X	UTH	6	UTH	5.0	SB10	5.4	RN01	---	----
102129	CA	1938 06 06	02:42:00.0	32.90	-115.22	990	B	CMG	6	73	5.0	CW10	---	----	---	----
102135	CA	1938 09 17	14:23:04.1	35.63	-117.51	990	B	CMG	6	73	5.0	CW10	---	----	---	----
100665	NM	1938 09 17	17:20:00.0	33.20	-108.60	990	G	11	6	11	5.0	*M10	---	----	---	----
100666	NM	1938 10 01	13:15:00.0	33.00	-109.00	990	D	73	6	73	5.0	PS10	---	----	---	----
100667	NM	1938 10 08	08:30:00.0	33.00	-109.00	990	D	73	6	73	5.0	PS10	---	----	---	----
100668	NM	1938 11 01	08:25:00.0	33.00	-109.00	990	D	73	6	73	5.0	PS10	---	----	---	----
100669	NM	1938 11 11	18:26:00.0	33.00	-109.00	990	D	73	6	73	5.0	PS10	---	----	---	----
102139	CA	1938 12 03	17:42:52.5	37.45	-118.60	10	A	CMG	6	38	5.5	PS10	---	----	---	----
100672	NM	1939 02 26	23:27:00.0	33.00	-109.00	990	D	73	7	73	5.5	PS10	---	----	---	----
103424	NV	1939 05 04	20:44:00.0	36.00	-114.80	990	C	54	6	54	5.0	PS10	5.0	RN01	---	----
103426	NV	1939 05 11	18:04:00.0	38.60	-117.80	990	C	73	7	73	5.5	PS10	---	----	---	----
103427	NV	1939 05 11	18:40:00.0	38.60	-117.80	990	B	54	6	54	5.5	PS10	---	----	---	----
103432	NV	1939 06 13	17:16:00.0	37.20	-117.10	990	E	54	6	*M1	5.0	PS10	---	----	---	----
102152	CA	1940 02 08	08:05:59.0	40.00	-121.60	990	X	CMG	7	38	6.0	PS10	---	----	---	----
102157	CA	1940 05 18	05:03:58.5	34.08	-116.30	990	A	CMG	6	CMG	5.5	PS10	---	----	---	----
102158	CA	1940 05 18	05:51:20.2	34.07	-116.33	990	A	CMG	6	73	5.5	CW10	---	----	---	----
102160	CA	1940 05 18	07:21:32.7	34.07	-116.33	990	A	CMG	6	73	7.0	PS10	---	----	---	----
102164	CA	1940 05 19	04:36:40.9	32.75	-115.45	990	A	ASG	10	38	7.0	PS10	---	----	---	----
102166	CA	1940 05 19	04:55:00.0	32.77	-115.48	990	B	CMG	7	73	5.5	CW10	---	----	---	----
102169	CA	1940 05 19	05:51:34.0	32.77	-115.48	990	B	CMG	7	*M1	5.5	CW10	---	----	---	----
102172	CA	1940 05 19	06:33:20.0	32.77	-115.48	990	B	CMG	6	73	5.0	CW10	---	----	---	----
102173	CA	1940 05 19	06:35:40.0	32.77	-115.48	990	B	CMG	7	73	5.5	CW10	---	----	---	----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
102181	CA	1940 06 04	10:35:08.3	33.00	-116.43	990	A	CMG	6	73	5.0	CW10	---	---	---	---
103438	NV	1941 07 18	03:53:42.0	40.00	-119.00	990	E	54	6	*M1	5.0	PS10	---	---	---	---
102199	CA	1941 09 14	16:43:31.8	37.57	-118.73	990	A	CMG	7	38	6.0	PS10	---	---	---	---
102201	CA	1941 09 14	18:21:18.8	37.57	-118.73	990	A	CMG	7	73	5.5	PS10	---	---	---	---
102202	CA	1941 09 14	18:39:12.0	37.57	-118.73	990	A	CMG	7	38	6.0	PS10	---	---	---	---
102203	CA	1941 09 14	21:16:01.0	37.57	-118.73	990	B	CMG	6	73	5.0	CW10	---	---	---	---
102205	CA	1941 09 21	19:53:07.3	34.87	-118.93	990	A	CMG	6	73	5.0	CW10	---	---	---	---
102211	CA	1941 12 31	06:48:44.0	37.57	-118.73	990	A	CMG	6	38	5.5	PS10	---	---	---	---
102217	CA	1942 03 03	01:03:24.0	34.00	-115.75	990	B	CMG	6	73	5.0	CW10	---	---	---	---
103440	NV	1942 05 09	15:31:32.0	39.40	-119.80	990	D	54	6	*M1	5.1	CW10	---	---	---	---
102218	CA	1942 05 23	15:47:29.0	32.98	-115.98	990	B	CMG	6	73	5.0	CW10	---	---	---	---
103212	UT	1942 08 30	22:08:00.0	37.68	-113.07	990	X	UTH	6	UTH	5.0	*M10	---	---	---	---
103447	NV	1942 09 09	05:15:00.0	36.00	-114.70	990	E	54	6	54	5.0	*M10	---	---	---	---
103215	UT	1942 09 26	14:50:00.0	37.68	-113.07	990	X	UTH	6	UTH	5.0	*M10	---	---	---	---
102225	CA	1942 10 21	16:22:13.0	32.97	-116.00	990	B	CMG	7	38	6.5	PS10	---	---	---	---
102226	CA	1942 10 21	16:25:19.0	32.97	-116.00	990	B	CMG	6	73	5.0	CW10	---	---	---	---
102232	CA	1942 10 22	18:13:26.0	32.97	-116.00	990	B	CMG	6	73	5.0	CW10	---	---	---	---
102231	CA	1942 10 22	01:50:38.0	33.23	-115.72	990	B	CMG	7	CMG	5.5	CW10	---	---	---	---
102807	CA	1942 11 18	20:20:00.0	39.90	-121.50	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
102806	CA	1942 11 18	20:35:00.0	39.90	-121.50	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
103448	NV	1942 12 03	09:44:42.0	39.70	-119.30	990	C	54	6	54	5.7	\$B10	5.9	RN01	---	---
103449	NV	1942 12 17	15:07:42.0	38.70	-119.70	990	C	54	5	54	5.5	CW10	---	---	---	---
103217	UT	1943 02 22	14:20:00.0	40.40	-111.80	990	X	ASG	6	UTH	5.0	*M10	---	---	---	---
102247	CA	1943 03 30	21:07:28.0	39.43	-120.40	990	X	CMG	5	73	5.3	BK10	---	---	---	---
103453	NV	1943 08 09	05:30:04.0	38.20	-118.20	990	C	54	6	54	5.5	PS10	---	---	---	---

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
102251	CA	1943 08 29	03:45:13.0	34.27	-116.97	990	B	CMG	6	38	5.5	PS10	----	-----	----	-----
19872	CA	1943 12 22	15:50:28.0	34.33	-115.80	990	B	CMG	4	CMG	5.5	CW10	----	-----	----	-----
102266	CA	1944 06 12	10:45:34.8	33.98	-116.72	10	A	CMG	6	73	5.0	CW10	----	-----	----	-----
102267	CA	1944 06 12	11:16:36.0	33.99	-116.71	10	A	CMG	6	73	5.3	PS10	----	-----	----	-----
102278	CA	1945 03 20	21:55:07.0	34.25	-116.17	990	B	CMG	6	73	5.0	CW10	----	-----	----	-----
102283	CA	1945 06 14	03:30:13.0	37.08	-117.50	990	B	CMG	6	73	5.0	CW10	----	-----	----	-----
102284	CA	1945 08 15	17:56:24.0	33.22	-116.13	990	B	CMG	6	38	5.6	PS10	----	-----	----	-----
26533	NV	1945 09 18	21:39:00.0	40.60	-116.50	990	H	54	4	54	5.1	PS10	----	-----	----	-----
103220	UT	1945 11 18	01:15:00.0	38.76	-111.99	990	X	UTH	6	UTH	5.0	*M10	----	-----	----	-----
102287	CA	1946 01 08	18:54:18.0	33.00	-115.83	990	B	CMG	6	73	5.4	CW10	----	-----	----	-----
103454	NV	1946 01 15	22:31:56.0	40.50	-117.30	990	E	54	6	*M1	5.1	CW10	----	-----	----	-----
102292	CA	1946 03 15	13:21:01.9	35.75	-117.99	990	B	CMG	6	73	5.1	CW10	----	-----	----	-----
102293	CA	1946 03 15	13:49:35.9	35.72	-118.06	22	A	CMG	8	73	6.3	PS10	----	-----	----	-----
102294	CA	1946 03 15	14:00:35.4	35.72	-118.07	990	B	CMG	6	73	5.3	CW10	----	-----	----	-----
102296	CA	1946 03 15	19:18:53.5	35.71	-117.98	990	B	CMG	6	73	5.4	CW10	----	-----	----	-----
102297	CA	1946 03 15	21:54:33.5	35.75	-118.03	990	B	CMG	6	73	5.1	CW10	----	-----	----	-----
102298	CA	1946 03 16	09:46:17.9	35.74	-118.04	990	B	CMG	6	73	5.0	CW10	----	-----	----	-----
102303	CA	1946 03 18	15:50:42.6	35.75	-117.91	4	B	CMG	6	38	5.3	PS10	----	-----	----	-----
102314	CA	1946 07 07	06:55:15.0	40.50	-121.50	990	B	73	6	38	5.0	BK10	----	-----	----	-----
102315	CA	1946 07 18	14:27:58.0	34.53	-115.98	990	B	CMG	6	38	5.5	PS10	----	-----	----	-----
102317	CA	1946 09 28	07:19:09.0	33.95	-116.85	990	B	CMG	6	38	5.0	PS10	----	-----	----	-----
102322	CA	1947 04 10	15:58:06.0	34.98	-116.55	990	A	CMG	7	38	6.1	PS10	----	-----	----	-----
102323	CA	1947 04 10	16:03:00.0	34.97	-116.55	990	A	CMG	6	73	5.0	CW10	----	-----	----	-----
102326	CA	1947 04 10	17:18:22.0	34.95	-116.53	990	A	CMG	6	73	5.0	CW10	----	-----	----	-----
102329	CA	1947 04 11	07:47:00.0	34.97	-116.55	990	A	CMG	6	73	5.0	CW10	----	-----	----	-----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
102335	CA	1947 07 24	22:10:46.0	34.02	-116.50	990	A	CMG	5	38	5.5	PS10	---	---	---	---
102341	CA	1947 07 25	06:19:49.0	34.02	-116.50	990	B	CMG	6	73	5.1	CW10	---	---	---	---
102338	CA	1947 07 25	00:46:31.0	34.02	-116.50	990	B	CMG	6	73	5.0	CW10	---	---	---	---
102343	CA	1947 07 26	02:49:41.0	34.02	-116.50	990	B	CMG	6	73	5.0	CW10	---	---	---	---
100676	NM	1947 11 06	16:50:00.0	33.90	-106.90	990	H	20	6	20	5.0	*M10	---	---	---	---
102364	CA	1948 12 04	23:43:17.0	33.93	-116.38	990	A	CMG	7	38	6.5	PS10	---	---	---	---
102373	CA	1948 12 29	12:53:28.0	39.55	-120.08	990	X	CMG	7	38	6.0	BK10	---	---	---	---
102378	CA	1949 02 11	21:05:24.0	37.08	-117.75	990	B	CMG	6	38	5.5	PS10	---	---	---	---
103223	UT	1949 03 07	06:50:00.0	40.75	-111.85	990	X	UTH	6	UTH	5.0	*M10	---	---	---	---
102384	CA	1949 05 02	11:25:47.0	34.02	-115.68	990	B	CMG	6	38	5.9	PS10	---	---	---	---
104731	MX	1949 11 04	20:42:38.0	32.20	-116.50	990	C	73	6	73	5.0	*M10	---	---	5.6	GS20
104732	MX	1949 11 05	04:35:24.0	32.20	-116.50	990	D	73	6	73	5.0	*M10	---	---	5.0	GS20
102399	CA	1950 03 20	15:22:17.0	40.45	-121.47	990	X	CMG	5	38	5.5	BK10	---	---	---	---
102405	CA	1950 07 28	17:50:48.0	33.12	-115.57	990	B	CMG	7	23	5.6	PS10	---	---	---	---
102408	CA	1950 07 29	14:36:32.0	33.12	-115.57	990	B	CMG	8	38	5.5	PS10	---	---	---	---
102422	CA	1950 12 14	13:24:19.0	40.08	-120.07	990	X	CMG	7	73	5.5	BK10	---	---	---	---
102730	CA	1950 12 31	10:00:00.0	40.10	-120.10	990	X	CMG	6	CMG	5.0	*M10	---	---	---	---
102425	CA	1951 01 24	07:17:02.6	32.98	-115.73	990	B	CMG	7	38	5.5	PS10	---	---	---	---
102443	CA	1951 12 28	02:49:27.0	37.57	-118.58	990	B	CMG	6	38	5.1	PS10	---	---	---	---
103479	NV	1952 02 20	13:41:18.0	36.00	-114.80	990	H	54	6	54	5.0	*M10	---	---	---	---
103480	NV	1952 05 09	15:31:32.0	39.40	-119.70	990	H	54	6	54	5.1	BK10	---	---	---	---
102448	CA	1952 07 21	11:52:14.0	35.00	-119.02	990	A	CMG	11	38	7.7	PS10	---	---	---	---
102454	CA	1952 07 21	12:02:00.0	35.00	-119.03	990	X	CMG	7	73	5.5	CW10	---	---	---	---
102455	CA	1952 07 21	12:05:36.0	35.00	-119.00	990	A	73	5	38	6.4	CW10	---	---	---	---
102461	CA	1952 07 21	12:19:36.0	34.95	-118.87	990	A	CMG	6	73	5.3	CW10	---	---	---	---

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE			TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF	
102470	CA	1952	07	21	15:13:58.0	35.18	-118.65	990	X	CMG	6	73	5.0	CW10	---	----	---	----	
102473	CA	1952	07	21	17:42:44.0	35.23	-118.53	990	A	CMG	6	73	5.0	CW10	---	----	---	----	
102478	CA	1952	07	21	19:41:22.0	35.13	-118.77	990	A	CMG	5	CMG	5.5	CW10	---	----	---	----	
102492	CA	1952	07	23	00:38:32.0	35.37	-118.58	990	A	CMG	5	38	6.0	CW10	---	----	---	----	
102495	CA	1952	07	23	03:19:23.0	35.37	-118.58	990	A	CMG	6	73	5.0	CW10	---	----	---	----	
102500	CA	1952	07	23	07:53:19.0	35.00	-118.83	990	A	CMG	7	38	5.4	PS10	---	----	---	----	
102501	CA	1952	07	23	13:17:05.0	35.22	-118.82	990	A	CMG	7	38	5.6	PS10	---	----	---	----	
102506	CA	1952	07	23	18:13:51.0	35.00	-118.83	990	A	CMG	6	38	5.1	PS10	---	----	---	----	
102511	CA	1952	07	25	13:13:08.3	35.31	-118.50		3	A	CMG	6	73	5.0	CW10	---	----	---	----
102513	CA	1952	07	25	19:09:44.5	35.32	-118.49		6	A	CMG	7	38	5.6	PS10	---	----	---	----
102514	CA	1952	07	25	19:43:23.8	35.32	-118.52		11	A	CMG	7	73	5.6	CW10	---	----	---	----
102520	CA	1952	07	29	07:03:47.0	35.38	-118.85	990	A	CMG	7	38	6.0	PS10	---	----	---	----	
102521	CA	1952	07	29	08:01:46.0	35.40	-118.82	990	A	CMG	6	73	5.0	CW10	---	----	---	----	
102525	CA	1952	07	31	12:09:09.0	35.33	-118.60	990	A	CMG	6	38	5.8	PS10	---	----	---	----	
102529	CA	1952	08	01	13:04:30.0	34.90	-118.95	990	A	CMG	6	73	5.0	CW10	---	----	---	----	
102540	CA	1952	08	22	22:41:24.0	35.33	-118.92	990	A	CMG	8	38	5.8	PS10	---	----	---	----	
102542	CA	1952	08	23	10:09:07.1	34.52	-118.20		13	B	CMG	6	38	5.0	PS10	---	----	---	----
103482	NV	1952	10	20	07:26:39.0	36.00	-114.80	990	H	54	6	54	5.0	*M10	---	----	---	----	
102565	CA	1953	03	22	05:19:00.0	38.82	-119.98	990	X	CMG	6	73	5.0	BK10	---	----	---	----	
102571	CA	1953	06	14	04:17:29.9	32.95	-115.72	990	B	CMG	7	38	5.5	PS10	---	----	---	----	
103492	NV	1953	09	26	03:34:29.0	39.50	-120.00	990	C	54	6	54	5.5	BK10	---	----	---	----	
102584	CA	1954	01	12	23:33:49.0	35.00	-119.02	990	A	CMG	7	38	5.9	PS10	---	----	---	----	
102586	CA	1954	01	27	14:19:48.0	35.15	-118.63	990	B	CMG	6	38	5.0	PS10	---	----	---	----	
104738	MX	1954	02	01	04:23:57.0	32.30	-115.30	990	D	73	6	73	5.1	CW10	---	----	---	----	
104739	MX	1954	02	01	04:32:02.0	32.30	-115.30	990	D	73	7	73	5.5	CW10	---	----	---	----	

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
104741	MX	1954 02 01	13:05:29.0	32.30	-115.30	990	D	73	6	73	5.0	CW10	----	----	----	----
102592	CA	1954 03 19	09:54:29.0	33.28	-116.18	990	B	CMG	6	38	6.1	PS10	----	----	----	----
102593	CA	1954 03 19	09:55:56.0	33.28	-116.18	990	B	CMG	6	73	5.0	CW10	----	----	----	----
102597	CA	1954 03 19	10:21:17.0	33.28	-116.18	990	B	CMG	7	73	5.5	CW10	----	----	----	----
102601	CA	1954 03 23	04:14:50.0	33.28	-116.18	990	B	CMG	6	38	5.0	PS10	----	----	----	----
102607	CA	1954 05 23	23:52:43.0	34.98	-118.98	990	A	CMG	6	73	5.0	CW10	----	----	----	----
103494	NV	1954 07 06	11:13:20.0	39.42	-118.55	990	B	RCH	9	54	6.8	BK10	----	----	----	----
103495	NV	1954 07 06	11:18:04.0	39.40	-118.50	990	B	54	7	*M1	5.1	\$B10	5.5	RN01	----	----
103498	NV	1954 07 06	11:49:00.0	39.40	-118.50	990	E	54	7	*M1	5.7	CW10	----	----	----	----
103501	NV	1954 07 06	13:15:11.0	39.40	-118.50	990	E	54	6	*M1	5.2	CW10	----	----	----	----
103509	NV	1954 07 06	22:07:41.0	39.30	-118.50	990	B	54	8	54	5.8	\$B10	6.0	RN01	----	----
26877	NV	1954 07 12	16:05:25.0	39.30	-118.50	990	E	54	4	54	5.1	CW10	----	----	----	----
103536	NV	1954 07 20	00:11:38.0	38.20	-116.40	990	E	54	6	*M1	5.0	CW10	----	----	----	----
103540	NV	1954 07 30	02:00:10.0	39.30	-118.50	990	E	54	6	*M1	5.1	CW10	----	----	----	----
103544	NV	1954 08 02	10:18:53.0	39.40	-118.50	990	B	54	5	54	5.0	\$B10	5.4	RN01	----	----
103549	NV	1954 08 24	05:51:32.0	39.58	-118.45	990	B	RCH	9	38	6.8	BK10	----	----	----	----
103550	NV	1954 08 24	05:57:46.0	39.50	-118.50	990	E	54	6	*M1	5.2	BK10	----	----	----	----
103568	NV	1954 08 31	22:20:32.0	39.60	-118.20	990	B	54	7	54	5.8	BK10	----	----	----	----
103569	NV	1954 09 01	05:18:46.5	39.60	-118.20	990	E	54	7	*M1	5.5	BK10	----	----	----	----
103578	NV	1954 12 16	11:07:11.0	39.28	-118.12	990	B	RCH	10	54	7.3	RN10	----	----	----	----
103579	NV	1954 12 16	11:11:34.0	39.82	-118.06	990	B	RCH	9	*M1	6.9	BK10	----	----	----	----
103580	NV	1954 12 16	11:50:36.0	39.50	-118.00	990	E	54	6	*M1	5.0	BK10	----	----	----	----
103581	NV	1954 12 16	11:57:30.0	39.50	-118.00	990	E	54	6	*M1	5.0	BK10	----	----	----	----
103582	NV	1954 12 16	13:15:03.0	39.30	-118.20	990	B	73	6	73	5.0	BK10	----	----	----	----
103583	NV	1954 12 16	14:16:57.0	39.50	-118.00	990	C	54	7	*M1	5.8	BK10	----	----	----	----

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
103584	NV	1954 12 16	14:24:10.0	39.50	-118.00	990	E	54	6	*M1	5.3	BK10	---	---	---	---
103585	NV	1954 12 16	15:09:42.0	39.50	-118.00	990	C	54	6	*M1	5.1	BK10	---	---	---	---
103586	NV	1954 12 17	20:28:00.0	39.50	-118.00	990	E	54	6	*M1	5.0	BK10	---	---	---	---
103589	NV	1954 12 20	17:36:47.0	40.00	-118.00	990	E	54	6	*M1	5.0	BK10	---	---	---	---
103590	NV	1955 01 01	12:13:54.0	39.00	-118.00	990	E	54	6	*M1	5.1	CW10	---	---	---	---
104778	MX	1955 04 25	10:43:08.0	32.30	-115.00	990	D	73	6	73	5.1	CW10	---	---	---	---
103635	NV	1955 06 19	19:25:16.0	39.00	-118.50	990	D	73	6	73	5.0	BK10	---	---	---	---
103638	NV	1955 08 08	10:35:38.0	38.30	-118.70	990	C	54	5	54	5.2	BK10	---	---	---	---
103647	NV	1955 11 21	20:25:34.5	39.40	-118.10	990	C	54	7	*M1	5.1	\$B10	5.5	RN01	---	---
102635	CA	1955 12 17	06:07:29.0	33.00	-115.50	990	B	73	7	38	5.4	PS10	---	---	---	---
103664	NV	1956 07 26	09:53:17.0	39.60	-118.50	990	C	54	5	54	5.1	BK10	---	---	---	---
100349	AZ	1956 11 02	10:38:55.0	32.00	-112.00	990	D	73	6	73	5.0	Cl0	---	---	---	---
103669	NV	1956 12 31	17:37:45.0	38.30	-118.90	990	C	54	6	*M1	5.0	BK10	---	---	---	---
103670	NV	1956 12 31	17:39:24.0	38.30	-119.00	990	C	54	6	54	5.1	BK10	---	---	---	---
102656	CA	1957 04 25	21:57:38.8	33.22	-115.81	990	B	CMG	7	38	5.2	PS10	---	---	---	---
102657	CA	1957 04 25	22:24:12.0	33.18	-115.85	990	B	CMG	6	73	5.0	CW10	---	---	---	---
102658	CA	1957 05 26	15:59:33.6	33.23	-116.00	15	A	CMG	5	38	5.0	PS10	---	---	---	---
103239	UT	1958 02 13	22:52:00.0	40.34	-111.44	990	X	UTH	6	UTH	5.0	*M10	---	---	---	---
103678	NV	1958 04 19	09:01:02.0	36.00	-114.80	990	H	54	6	54	5.0	*M10	---	---	---	---
104915	MX	1958 12 01	03:21:18.0	32.20	-115.70	990	B	73	7	73	5.8	PS10	---	---	---	---
104916	MX	1958 12 01	03:50:00.0	32.20	-115.70	990	D	73	6	73	5.0	PS10	---	---	---	---
104918	MX	1958 12 01	06:02:00.0	32.20	-115.70	990	D	73	7	73	5.5	PS10	---	---	---	---
103245	UT	1959 02 27	22:19:52.0	38.00	-112.50	990	X	UTH	6	UTH	5.0	*M10	---	---	---	---
103686	NV	1959 03 23	07:10:20.0	39.60	-118.10	990	C	54	6	54	6.3	BK10	---	---	---	---
102682	CA	1959 04 01	18:18:30.0	39.72	-120.20	990	X	CMG	7	73	5.5	BK10	---	---	---	---

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
103692	NV	1959 06 23	14:35:02.0	39.10	-118.80	990	C	54	6	54	6.2	\$B10	6.3	RN01	----	-----
103693	NV	1959 06 23	15:04:34.0	39.10	-118.80	990	E	54	7	*M1	5.5	BK10	----	-----	----	-----
100352	AZ	1959 07 21	17:39:29.0	37.00	-112.50	990	D	32	6	32	5.5	PS10	----	-----	----	-----
103246	UT	1959 07 21	17:39:29.0	37.00	-112.50	990	X	UTH	6	UTH	5.5	PS10	----	-----	----	-----
102691	CA	1959 08 04	07:36:59.0	37.35	-118.55	990	B	CMG	6	38	5.2	CW10	----	-----	----	-----
103697	NV	1959 09 26	03:34:29.0	39.50	-120.00	990	C	54	6	*M1	5.3	CW10	----	-----	----	-----
102699	CA	1960 06 05	07:47:07.0	37.52	-118.73	990	B	CMG	6	73	5.1	BK10	----	-----	----	-----
100683	NM	1960 07 23	14:15:26.0	34.00	-106.50	990	C	72	6	38	5.0	*M10	----	-----	----	-----
100604	ID	1960 08 07	16:27:16.2	42.40	-111.50	49	A	33	6	33	5.0	*M10	----	-----	----	-----
102706	CA	1961 01 28	08:12:46.2	35.78	-118.05	6	A	CMG	6	73	5.3	PS10	----	-----	----	-----
102707	CA	1961 02 02	00:04:16.0	37.45	-118.63	990	B	CMG	6	73	5.3	BK10	----	-----	----	-----
102709	CA	1961 02 02	00:07:42.0	37.42	-118.67	990	B	CMG	6	73	5.0	BK10	----	-----	----	-----
103250	UT	1961 04 16	05:02:39.0	39.34	-111.66	990	X	UTH	6	UTH	5.0	*M10	----	-----	----	-----
100684	NM	1961 07 03	07:06:16.0	33.60	-106.90	990	C	34	6	34	5.0	*M10	----	-----	----	-----
103708	NV	1961 07 04	04:56:02.1	40.90	-118.40	33	E	54	5	54	5.4	BK10	----	-----	----	-----
103710	NV	1961 07 04	11:09:11.0	40.10	-118.60	33	C	54	6	*M1	5.0	BK10	----	-----	----	-----
102722	CA	1961 10 19	05:09:43.9	35.83	-117.76	990	A	CMG	7	38	5.1	PS10	----	-----	----	-----
102728	CA	1961 11 15	05:38:55.5	34.94	-118.99	11	B	CMG	6	73	5.0	PS10	----	-----	----	-----
103254	ID	1962 08 30	13:35:24.4	42.04	-111.74	7	X	UTH	7	*M1	5.0	*M10	5.7	UW03	----	-----
103255	UT	1962 09 05	16:04:27.8	40.72	-112.09	7	X	UTH	6	*M1	5.0	*M10	5.2	UW03	----	-----
102751	CA	1963 03 01	00:25:57.9	34.93	-118.98	14	B	CMG	6	36	5.0	PS10	----	-----	----	-----
103721	NV	1963 03 25	09:28:44.1	36.00	-114.90	990	D	36	6	36	5.0	*M10	----	-----	4.3	GS20
102771	CA	1963 09 23	14:41:52.6	33.71	-116.93	17	B	CMG	6	38	5.3	PS10	----	-----	----	-----
103732	NV	1964 10 30	19:03:12.3	37.70	-118.00	20	C	74	6	37	5.0	*M10	----	-----	4.4	GS20
102819	CA	1965 09 25	17:43:44.0	34.71	-116.50	11	B	CMG	7	38	5.2	PS10	----	-----	5.0	GS20

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
102821	CA	1965 09 26	07:00:01.7	34.71	-116.03	8	B	CMG	5	8	5.0	PS10	----	----	4.5	GS20
100685	NM	1966 01 23	01:56:38.8	37.00	-107.00	14	C	74	7	74	5.0	*M10	----	----	5.5	GS20
103742	NV	1966 04 02	12:48:39.8	38.40	-118.10	19	C	74	6	81	5.0	*M10	----	----	4.6	GS20
100697	NM	1966 06 02	21:59:11.5	36.90	-107.00	5	C	74	6	74	5.0	*M10	----	----	5.0	GS20
103746	NV	1966 08 16	18:02:36.1	37.40	-114.20	990	C	81	6	81	5.0	*M10	----	----	6.1	GS20
103750	NV	1966 08 18	17:35:06.4	37.40	-114.20	33	C	74	6	74	5.0	*M10	----	----	5.2	GS20
103756	NV	1966 08 22	08:27:30.2	37.30	-114.20	33	C	74	6	74	5.0	*M10	----	----	4.8	GS20
102851	CA	1966 09 12	16:41:01.9	39.40	-120.10	8	X	74	7	38	5.8	\$B10	6.0	CG01	5.4	GS20
103758	NV	1966 09 22	18:56:40.9	37.30	-114.10	33	C	74	6	74	5.0	*M10	----	----	5.0	GS20
103760	NV	1966 09 22	19:59:40.2	37.30	-114.10	33	C	74	6	74	5.0	*M10	----	----	4.7	GS20
103770	NV	1966 12 07	01:07:15.9	37.30	-114.20	33	C	74	6	74	5.0	*M10	----	----	4.7	GS20
103771	NV	1966 12 22	17:30:01.1	37.20	-116.60	33	C	74	6	74	5.0	*M10	----	----	4.8	GS20
104961	MX	1967 01 17	23:07:00.1	32.30	-115.00	11	A	74	6	74	5.0	*M10	----	----	4.7	GS20
103777	NV	1967 05 07	18:01:36.1	37.00	-115.00	20	A	74	6	74	5.0	*M10	----	----	4.7	GS20
103267	UT	1967 10 04	10:20:12.8	38.54	-112.16	7	X	UTH	6	*M1	5.0	*M10	5.2	UW03	----	----
100702	NM	1967 12 10	19:30:00.1	36.70	-107.20	990	A	74	6	74	5.0	*M10	----	----	5.1	GS20
102911	CA	1968 04 09	02:28:59.1	33.19	-116.13	11	B	CMG	8	74	6.3	\$B10	6.4	CG01	6.1	GS20
104999	MX	1968 04 23	13:22:38.0	32.00	-116.80	33	A	74	6	74	5.0	*M10	----	----	5.0	GS20
103790	NV	1968 05 22	13:21:55.7	38.60	-116.20	13	A	74	6	74	5.0	*M10	----	----	5.1	GS20
103791	NV	1968 05 29	11:41:09.5	39.00	-118.00	33	A	74	6	74	5.0	*M10	----	----	4.9	GS20
100753	OR	1968 05 30	00:35:59.8	42.30	-119.80	24	A	74	6	74	5.0	*M10	----	----	5.1	GS20
100755	OR	1968 06 03	13:27:39.7	42.20	-119.80	20	A	74	6	74	5.0	*M10	----	----	5.0	GS20
100756	OR	1968 06 04	02:34:15.7	42.30	-119.90	21	A	74	6	74	5.0	*M10	----	----	4.7	GS20
100762	OR	1968 06 05	04:51:56.8	42.30	-119.90	21	A	74	6	74	5.0	*M10	----	----	4.7	GS20
103792	NV	1968 07 06	14:02:42.0	41.00	-117.40	33	A	74	6	74	5.0	*M10	----	----	5.1	GS20

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
102965	CA	1969 04 28	23:20:43.0	33.34	-116.35	20	B	CMG	7	74	6.1	BK10	---	----	5.7	GS20
103268	UT	1970 03 29	12:40:40.3	41.66	-113.84	7	X	UTH	6	*M1	5.0	*M10	4.7	UW03	---	----
103025	CA	1970 09 12	14:30:53.0	34.27	-117.54	8	A	CMG	7	38	5.4	BK10	---	----	5.4	GS20
103808	NV	1970 12 16	16:00:00.1	37.10	-116.00	990	A	74	6	74	5.1	BK10	---	----	5.1	GS20
103809	NV	1970 12 17	16:05:00.2	37.10	-116.10	990	A	74	7	74	5.7	BK10	---	----	5.7	GS20
105083	MX	1971 01 23	22:07:35.0	32.50	-115.70	8	A	74	6	74	5.0	*M10	---	----	5.1	GS20
103040	CA	1971 02 09	14:00:41.8	34.41	-118.40	8	B	CMG	9	ASG	6.3	\$B10	6.4	CG01	6.2	GS20
6626	CA	1971 02 09	14:01:08.0	34.41	-118.40	8	X	CMG	4	*M1	5.5	\$B10	5.8	CG01	---	----
103817	NV	1971 06 23	15:30:00.0	37.00	-116.00	990	A	74	6	74	5.0	*M10	---	----	4.8	GS20
103825	NV	1971 11 30	15:45:03.4	37.10	-116.10	38	A	74	6	74	5.0	*M10	---	----	4.7	GS20
103826	NV	1971 12 08	17:18:51.5	37.70	-115.00	5	A	74	6	74	5.0	*M10	---	----	4.8	GS20
103827	NV	1971 12 14	21:09:59.2	37.10	-116.10	990	A	74	6	74	5.0	*M10	---	----	4.7	GS20
103832	NV	1972 09 21	15:30:00.2	37.10	-116.00	990	A	74	7	74	5.0	*M10	---	----	5.7	GS20
103836	NV	1972 12 21	20:15:00.2	37.10	-116.10	990	A	74	6	74	5.0	*M10	---	----	5.0	GS20
103839	NV	1973 03 03	03:00:03.3	41.80	-118.50	5	A	74	6	74	5.0	*M10	---	----	4.7	GS20
103843	NV	1973 05 24	13:30:00.7	37.20	-116.10	5	A	74	6	74	5.0	*M10	---	----	4.8	GS20
103844	NV	1973 06 21	14:44:59.6	37.10	-116.00	5	A	74	6	74	5.0	*M10	---	----	5.3	GS20
103849	NV	1974 05 23	13:38:30.2	37.10	-116.10	5	A	74	6	74	5.0	*M10	---	----	4.8	GS21
105377	NV	1975 02 28	15:15:00.0	37.11	-116.06	990	X	87	7	*M1	5.5	BK10	---	----	5.7	GS21
105378	NV	1975 03 07	15:00:00.0	37.13	-116.08	990	X	87	6	*M1	5.2	BK10	---	----	5.5	GS21
105706	ID	1975 03 28	02:31:05.7	42.06	-112.55	5	X	87	8	87	6.0	GS10	6.2	PS10	6.1	GS21
105433	ID	1975 04 02	21:06:45.9	42.09	-112.44	7	X	88	6	*M1	5.0	*M10	3.2	UU03	4.7	GS21
105381	NV	1975 04 30	15:00:00.0	37.11	-116.03	990	X	88	6	*M1	5.0	*M10	---	----	5.2	GS21
105382	NV	1975 05 14	14:00:00.4	37.22	-116.47	990	X	88	7	*M1	5.8	BK10	---	----	6.0	GS21
30583	CA	1975 06 01	01:38:49.2	34.52	-116.50	4	X	88	4	88	5.2	PS10	---	----	5.1	GS21

EARTHQUAKE CATALOG FOR THE BASIN AND RANGE PROVINCE (continued)

NUMBER	ST	DATE	TIME	LAT	LONG	DEP	Q	REF	I	REF	MS	REF	ML	REF	Mb	REF
105383	NV	1975 06 03	14:20:00.2	37.34	-116.52	990	X	88	8	*M1	6.0	BK10	---	----	5.9	GS21
105386	NV	1975 06 19	13:00:00.1	37.35	-116.32	990	X	88	7	*M1	5.9	BK10	---	----	6.1	GS21
105387	NV	1975 06 26	12:30:00.2	37.28	-116.37	990	X	88	6	*M1	5.0	GS10	6.1	BK10	6.2	GS21
105397	NV	1975 10 28	14:30:00.2	37.29	-116.41	990	X	90	6	90	5.4	GS10	6.3	PS10	6.4	GS21
105400	NV	1975 11 20	15:00:00.1	37.22	-116.37	990	X	90	8	*M1	6.0	PS10	---	----	6.0	GS21
105449	NV	1976 01 03	19:15:00.2	37.30	-116.33	990	X	91	7	*M1	5.5	GS10	6.2	PS10	6.2	GS21
105456	NV	1976 02 04	14:20:00.1	37.07	-116.03	990	X	91	7	*M1	5.4	BK10	---	----	5.8	GS21
105457	NV	1976 02 04	14:40:00.2	37.11	-116.04	990	X	91	7	*M1	5.6	BK10	---	----	5.7	GS21
105460	NV	1976 02 12	14:45:00.2	37.27	-116.49	990	X	91	7	*M1	5.5	GS10	6.3	BK10	6.3	GS21
105462	NV	1976 02 14	11:30:00.2	37.24	-116.42	990	X	91	7	*M1	5.7	BK10	---	----	6.0	GS21
105468	NV	1976 03 14	12:30:00.2	37.31	-116.47	990	X	91	6	*M1	5.3	GS10	6.2	BK10	6.3	GS21
105523	NV	1976 07 27	20:30:00.1	37.07	-116.04	990	X	112	6	*M1	5.2	BK10	---	----	5.3	GS21
105537	CA	1976 11 04	10:41:37.5	33.12	-115.59	4	X	95	6	95	5.3	GS10	4.9	PS10	4.6	GS21
105565	NV	1976 12 28	18:00:00.1	37.10	-116.04	990	X	95	7	*M1	5.5	BK10	---	----	5.5	GS21
105621	NV	1977 04 05	15:00:00.2	37.12	-116.06	990	X	94	6	*M1	5.3	GS10	5.5	BK10	5.6	GS21
105624	NV	1977 05 25	17:00:00.1	37.09	-116.05	990	X	94	6	*M1	5.2	BK10	---	----	5.3	GS21
105659	NV	1977 08 04	16:40:00.1	37.09	-116.01	990	X	98	7	*M1	5.7	GS10	5.0	BK10	5.0	GS21
105662	NV	1977 08 19	17:55:00.1	37.11	-116.06	990	X	98	7	*M1	5.5	BK10	---	----	5.6	GS21
105699	NV	1977 12 14	15:30:00.2	37.14	-116.09	990	X	92	7	*M1	5.6	BK10	---	----	5.7	GS21

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