

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
9/10/1918 16:30	35.500	-98.000	5	CANADIAN	3.4	mbLg	OGS
9/11/1918 5:30	35.500	-98.000		CANADIAN	3.3	MFA	USGS
9/11/1918 6:30	35.500	-98.000	5	CANADIAN	3.4	mbLg	OGS
6/20/1926 14:20	35.600	-94.900	5	SEQUOYAH	4.3	mbLg	OGS
12/28/1929 0:30	35.500	-98.000	5	CANADIAN	4.0	mbLg	OGS
12/28/1929 0:30	35.500	-98.000		CANADIAN	3.9	MFA	USGS
8/19/1933 19:30	35.500	-98.000	5	CANADIAN	3.3	mbLg	OGS
8/19/1933 19:30	35.500	-98.000		CANADIAN	3.4	MFA	USGS
3/14/1936 17:20	34.000	-95.000	5	MCCURTAIN	3.6	mbLg	OGS
7/12/1936 0:23	36.900	-102.999	5	CIMARRON	3.3	mbLg	OGS
6/8/1937 14:26	35.300	-96.900	5	POTTAWATOMIE	3.6	mbLg	OGS
6/1/1939 7:30	35.000	-96.400	5	HUGHES	4.4	mbLg	OGS
10/18/1941 7:48	35.400	-99.000	5	WASHITA	3.2	mbLg	OGS
6/12/1942 5:50	36.400	-97.900	5	GARFIELD	3.7	mbLg	OGS
4/9/1952 16:29	35.400	-97.800	5	CANADIAN	5.5	MS	USGS
4/11/1952 20:30	35.400	-97.800	5	CANADIAN	3.8	mbLg	OGS
4/16/1952 5:58	35.400	-97.800	5	CANADIAN	3.8	mbLg	OGS
4/16/1952 6:05	35.400	-97.800	5	CANADIAN	3.8	mbLg	OGS
3/17/1953 14:25	35.400	-98.000	5	CANADIAN	3.8	mbLg	OGS
3/17/1953 14:25	35.600	-98.000		CANADIAN	3.8	MFA	USGS
4/2/1956 16:03	34.200	-95.600	5	PUSHMATAHA	3.8	mbLg	OGS
10/30/1956 10:36	36.200	-95.800	5	ROGERS	4.1	mbLg	OGS
6/15/1959 12:45	34.800	-96.700	5	PONTOTOC	4.0	mbLg	OGS
6/17/1959 10:27	34.500	-98.500	5	COMANCHE	4.2	mbLg	OGS
1/11/1961 1:40	34.800	-95.500	5	LATIMER	3.8	mbLg	OGS
4/27/1961 7:30	34.900	-95.300	5	LATIMER	4.1	mbLg	OGS
10/14/1968 14:42	34.000	-96.400	5	BRYAN	3.5	M3Hz	OGS
5/2/1969 11:33	35.500	-96.200	5	OKFUSKEE	3.5	mbLg	OGS
2/15/1974 13:33	36.500	-100.693	24	BEAVER	4.5	mb	USGS
9/13/1975 1:25	34.100	-97.400	5	CARTER	3.4	mbLg	OGS
10/12/1975 2:58	35.500	-97.700	5	CANADIAN	3.2	mbLg	OGS
11/29/1975 14:29	34.650	-97.530	5	GARVIN	3.5	mbLg	USGS
4/16/1976 18:59	35.870	-99.970	5	ROGER MILLS	3.4	mbLg	OGS
4/19/1976 4:42	35.870	-99.970	5	ROGER MILLS	3.5	mbLg	OGS
10/22/1976 17:15	35.380	-97.060	5	POTTAWATOMIE	3.0	mbLg	OGS
3/5/1978 14:46	34.699	-95.033	7	LE FLORE	3.1	M3Hz	OGS
8/6/1978 4:28	36.073	-99.935	5	ELLIS	3.0	M3Hz	OGS
6/7/1979 7:39	35.187	-99.812	5	BECKHAM	3.2	M3Hz	OGS
9/13/1979 0:49	35.217	-99.362	4.5	WASHITA	3.3	M3Hz	OGS
11/27/1979 9:10	35.630	-98.408	5	BLAINE	3.3	M3Hz	OGS
5/30/1980 7:44	35.512	-99.390	5	ROGER MILLS	3.0	M3Hz	OGS
7/18/1980 14:29	35.180	-99.698	5	BECKHAM	3.2	mbLg	OGS

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(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
11/2/1980 10:00	35.429	-97.777	7.5	CANADIAN	3.0	M3Hz	OGS
12/19/1982 5:15	34.891	-97.584	5	MCCLAIN	3.0	M3Hz	OGS
1/24/1984 15:34	35.033	-96.366	5	HUGHES	3.1	M3Hz	OGS
2/3/1984 4:38	34.665	-97.356	5	GARVIN	3.2	mbLg	USGS
11/20/1984 10:57	34.707	-97.410	5	GARVIN	3.0	M3Hz	OGS
2/10/1985 14:15	36.433	-98.412	5	MAJOR	3.0	M3Hz	OGS
5/5/1985 1:39	34.664	-97.529	5	GARVIN	3.0	M3Hz	OGS
9/23/1985 1:03	34.725	-95.059	5	LE FLORE	3.3	M3Hz	OGS
12/31/1985 18:27	34.703	-97.459	5	GARVIN	3.0	M3Hz	OGS
1/24/1987 16:08	35.828	-98.097	5	KINGFISHER	3.4	M3Hz	OGS
12/6/1987 17:43	34.664	-97.394	5	GARVIN	3.0	M3Hz	OGS
12/8/1987 1:42	36.055	-98.024	5	KINGFISHER	3.7	mbLg	USGS
7/20/1989 6:07	36.382	-98.818	5	MAJOR	3.1	M3Hz	OGS
9/16/1990 21:13	34.855	-95.577	5	PITTSBURG	3.2	M3Hz	OGS
10/11/1990 11:07	34.777	-97.503	5	GARVIN	3.6	M3Hz	OGS
11/15/1990 11:44	34.761	-97.550	0	GARVIN	4.0	M3Hz	OGS
1/24/1991 5:00	36.352	-97.271	5	NOBLE	3.0	mbLg	USGS
12/17/1992 7:18	34.730	-97.541	5	GARVIN	3.8	M3Hz	OGS
1/14/1993 17:06	35.595	-98.275	5	CANADIAN	3.2	M3Hz	OGS
10/19/1993 16:59	36.546	-98.173	5	ALFALFA	3.1	M3Hz	OGS
4/16/1994 7:20	34.663	-97.713	5	STEPHENS	3.1	M3Hz	OGS
4/29/1994 3:29	36.203	-98.052	5	GARFIELD	3.0	mbLg	USGS
1/18/1995 15:51	34.712	-97.542	5	GARVIN	4.1	M3Hz	OGS
6/1/1995 4:49	34.134	-96.683	5	MARSHALL	3.3	M3Hz	OGS
9/15/1995 0:31	36.870	-98.726	5	WOODS	3.7	M3Hz	OGS
9/6/1997 23:38	34.676	-96.499	5	COAL	4.2	mbLg	USGS
4/28/1998 14:13	34.755	-98.447	5	COMANCHE	3.9	mb	USGS
7/7/1998 18:44	34.629	-97.430	0.1	GARVIN	3.2	mbLg	USGS
10/30/1998 17:41	36.771	-97.623	7.8	GRANT	3.4	mbLg	USGS
1/14/2000 10:39	34.673	-95.094	7.57	PUSHMATAHA	3.0	M3Hz	OGS
2/8/2002 16:07	34.651	-98.302	5	COMANCHE	3.5	M3Hz	OGS
6/19/2002 12:14	36.542	-102.918	5	CIMARRON	3.6	mbLg	OGS
10/20/2002 2:18	34.214	-96.181	5	ATOKA	3.6	M3Hz	OGS
6/8/2004 0:15	34.041	-97.307	5	LOVE	3.5	M3Hz	OGS
11/22/2004 23:42	34.864	-97.672	5	GRADY	3.0	M3Hz	OGS
2/6/2005 15:59	34.238	-95.238	5	PUSHMATAHA	3.2	M3Hz	OGS
4/22/2005 5:17	34.179	-95.192	5	PUSHMATAHA	3.1	M3Hz	OGS
3/15/2006 8:30	34.836	-96.178	5	HUGHES	3.0	Md	OGS
4/5/2006 18:46	34.069	-97.314	5	LOVE	3.0	mbLg	OGS
10/6/2006 22:13	34.122	-97.625	5	JEFFERSON	3.5	mbLg	USGS
5/27/2007 21:03	35.149	-95.976	5	PITTSBURG	3.2	Md	OGS
6/9/2008 22:59	35.882	-97.020	5	LINCOLN	3.1	Md	OGS

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(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
10/30/2008 16:25	35.443	-97.118	5	POTTAWATOMIE	3.1	mbLg	USGS
1/28/2009 11:19	35.163	-97.871	5	GRADY	3.4	mbLg	USGS
2/3/2009 10:23	34.589	-96.340	5	COAL	3.1	mbLg	USGS
2/22/2009 9:43	36.369	-98.087	5	GARFIELD	3.2	mbLg	USGS
2/25/2009 4:14	34.735	-96.036	5	PITTSBURG	3.3	mbLg	USGS
3/8/2009 13:06	35.446	-97.456	5	OKLAHOMA	3.4	mbLg	USGS
6/14/2009 21:31	35.659	-96.850	5	LINCOLN	3.4	mbLg	USGS
6/26/2009 21:23	36.361	-97.467	5	GARFIELD	3.7	mbLg	USGS
7/1/2009 17:14	35.547	-97.169	5	OKLAHOMA	3.4	mbLg	USGS
7/22/2009 2:26	35.742	-96.944	5	LINCOLN	3.3	mbLg	USGS
8/27/2009 8:22	34.942	-96.618	5	SEMINOLE	3.4	mbLg	USGS
8/28/2009 2:09	35.565	-97.290	5	OKLAHOMA	3.5	mbLg	USGS
10/23/2009 3:56	35.804	-97.029	5	OKLAHOMA	3.0	mbLg	USGS
11/14/2009 11:13	35.494	-97.204	5	OKLAHOMA	3.1	mbLg	USGS
11/16/2009 11:12	35.482	-97.228	5	OKLAHOMA	3.0	mbLg	USGS
11/17/2009 4:00	34.462	-97.532	5	OKLAHOMA	3.1	mbLg	USGS
11/29/2009 1:36	35.563	-97.275	5	OKLAHOMA	3.0	mbLg	USGS
12/7/2009 17:44	35.556	-97.250	5	OKLAHOMA	3.5	mbLg	USGS
12/12/2009 11:34	35.556	-97.316	5	OKLAHOMA	3.1	mbLg	USGS
12/13/2009 8:38	35.587	-97.285	5	OKLAHOMA	3.6	mbLg	USGS
12/20/2009 5:05	35.554	-97.267	5	OKLAHOMA	3.1	mbLg	USGS
1/14/2010 10:05	35.495	-97.200	3.161	OKLAHOMA	3.2	ML	OGS
1/15/2010 15:18	35.527	-97.299	5.1	OKLAHOMA	3.8	MW	USGS
1/15/2010 15:27	35.528	-97.304	5.7	OKLAHOMA	3.7	MW	USGS
1/24/2010 7:14	35.500	-97.242	5.6	OKLAHOMA	3.6	MW	USGS
2/13/2010 5:30	35.531	-97.294	4	OKLAHOMA	3.2	MW	USGS
2/15/2010 3:32	35.562	-97.295	4.4	OKLAHOMA	3.0	MW	USGS
2/19/2010 16:12	35.618	-97.064	4.8	LINCOLN	3.2	ML	OGS
2/26/2010 9:02	35.620	-97.066	4.7	LINCOLN	3.2	ML	OGS
2/27/2010 22:22	35.535	-96.757	3.7	LINCOLN	4.1	MW	USGS
3/5/2010 20:35	35.532	-96.761	2.9	LINCOLN	3.3	ML	OGS
3/10/2010 6:04	35.525	-96.776	4.4	LINCOLN	3.4	ML	OGS
3/11/2010 23:57	35.379	-98.105	0.118	CANADIAN	3.3	ML	OGS
3/13/2010 9:02	35.357	-98.066	5	GRADY	3.0	ML	OGS
3/22/2010 2:37	35.527	-96.775	4.4	LINCOLN	3.7	MW	OGS
3/22/2010 8:20	35.528	-96.777	4.6	LINCOLN	3.1	ML	OGS
3/22/2010 9:18	35.538	-96.756	4.1	LINCOLN	3.1	ML	OGS
4/8/2010 12:42	35.526	-97.288	4.6	OKLAHOMA	3.5	ML	OGS
4/12/2010 4:04	35.609	-97.123	4.5	LINCOLN	3.2	ML	OGS
4/15/2010 0:49	34.605	-96.222	3.182	COAL	3.1	ML	OGS
4/15/2010 13:22	34.647	-96.286	0.014	COAL	3.1	ML	OGS
5/7/2010 12:44	35.530	-97.298	4.8	OKLAHOMA	3.4	ML	OGS

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Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
8/2/2010 9:52	35.554	-97.247	4.5	OKLAHOMA	3.9	ML	OGS
9/1/2010 0:46	35.611	-97.243	2.5	OKLAHOMA	3.2	ML	OGS
9/4/2010 16:22	35.611	-97.245	4.7	OKLAHOMA	3.2	ML	OGS
9/15/2010 20:03	35.611	-97.248	4.2	OKLAHOMA	3.1	ML	OGS
9/16/2010 21:41	35.610	-97.248	4.6	OKLAHOMA	3.3	MW	USGS
9/19/2010 22:01	35.611	-97.249	4.6	OKLAHOMA	3.5	MW	USGS
9/25/2010 12:19	34.109	-96.715	5	MARSHALL	3.3	ML	OGS
10/1/2010 22:39	34.862	-96.030	5	PITTSBURG	3.0	ML	OGS
10/13/2010 14:06	35.176	-97.321	3.137	CLEVELAND	4.4	MW	USGS
10/19/2010 17:53	35.173	-97.323	0.069	CLEVELAND	3.2	ML	OGS
10/25/2010 20:53	34.876	-97.740	0.005	GRADY	3.2	ML	OGS
11/24/2010 22:48	35.612	-97.252	4.6	OKLAHOMA	3.9	MW	OGS
11/24/2010 23:45	35.609	-97.237	4.6	OKLAHOMA	3.3	ML	OGS
11/28/2010 2:46	35.609	-97.240	4.2	OKLAHOMA	3.2	ML	OGS
11/28/2010 3:26	35.609	-97.240	4.7	OKLAHOMA	3.0	mbLg	USGS
11/28/2010 3:28	35.609	-97.241	4.2	OKLAHOMA	3.5	ML	OGS
11/28/2010 13:46	35.618	-97.241	4.4	OKLAHOMA	3.4	ML	OGS
12/12/2010 1:07	35.437	-96.986	4.6	POTTAWATOMIE	3.2	MW	USGS
12/19/2010 5:05	35.818	-96.777	5	LINCOLN	3.6	ML	OGS
12/28/2010 1:49	34.720	-95.911	0.081	PITTSBURG	3.1	ML	OGS
1/4/2011 18:31	35.552	-97.238	4.5	OKLAHOMA	3.0	ML	OGS
1/15/2011 10:51	35.515	-97.222	5.6	OKLAHOMA	3.4	ML	OGS
3/11/2011 10:56	35.451	-97.093	3.3	POTTAWATOMIE	3.2	ML	OGS
3/31/2011 5:41	35.441	-96.533	4.7	SEMINOLE	3.2	MW	USGS
8/1/2011 1:20	35.514	-97.219	6.4	OKLAHOMA	3.0	ML	OGS
8/31/2011 19:58	35.492	-97.260	5.5	OKLAHOMA	3.0	ML	OGS
9/6/2011 0:19	35.451	-97.037	8.2	POTTAWATOMIE	3.0	ML	OGS
9/12/2011 15:35	35.621	-97.238	2.6	OKLAHOMA	3.3	ML	OGS
10/5/2011 10:40	35.503	-97.238	6.6	OKLAHOMA	3.0	ML	OGS
10/18/2011 5:51	35.461	-97.397	6.5	OKLAHOMA	3.3	ML	OGS
10/28/2011 6:24	35.517	-97.378	3.9	OKLAHOMA	3.5	ML	OGS
10/28/2011 9:18	35.519	-97.375	3.8	OKLAHOMA	3.7	ML	OGS
10/29/2011 11:28	35.395	-96.530	2.6	SEMINOLE	3.0	Md	OGS
11/5/2011 7:12	35.538	-96.781	3.4	LINCOLN	4.8	MW	USGS
11/5/2011 7:18	35.517	-96.784	1.7	LINCOLN	3.0	ML	OGS
11/5/2011 7:27	35.531	-96.771	3.1	LINCOLN	3.3	ML	OGS
11/5/2011 9:12	35.530	-96.787	3.2	LINCOLN	3.3	ML	OGS
11/5/2011 11:24	35.526	-96.783	3.5	LINCOLN	3.4	ML	OGS
11/5/2011 13:42	35.523	-96.802	3.5	LINCOLN	3.2	ML	OGS
11/5/2011 14:36	35.522	-96.791	3.6	LINCOLN	3.6	ML	OGS
11/6/2011 1:03	35.538	-96.753	5.1	LINCOLN	3.0	ML	OGS
11/6/2011 3:53	35.532	-96.771	3.1	LINCOLN	5.6	MW	USGS

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11/6/2011 3:53	35.532	-96.771	5.2	LINCOLN	5.6	MW	USGS
11/6/2011 3:53	35.532	-96.771	5.2	LINCOLN	5.6	MW	USGS
11/6/2011 4:03	35.519	-96.784	5	LINCOLN	4.0	ML	OGS
11/6/2011 4:03	35.519	-96.784	5	LINCOLN	4.0	ML	OGS
11/6/2011 4:03	35.519	-96.784	5	LINCOLN	4.0	ML	OGS
11/6/2011 4:08	35.518	-96.800	5.6	LINCOLN	3.0	ML	OGS
11/6/2011 4:31	35.522	-96.791	4.687	LINCOLN	3.9	ML	OGS
11/6/2011 4:31	35.522	-96.791	5.4	LINCOLN	3.9	ML	OGS
11/6/2011 4:31	35.522	-96.791	4.687	LINCOLN	3.9	ML	OGS
11/6/2011 4:53	35.535	-96.761	6.2	LINCOLN	3.3	ML	OGS
11/6/2011 6:31	35.480	-96.862	2.197	LINCOLN	3.7	ML	OGS
11/6/2011 6:31	35.480	-96.862	3.6	LINCOLN	3.7	ML	OGS
11/6/2011 6:31	35.480	-96.862	2.197	LINCOLN	3.7	ML	OGS
11/6/2011 7:32	35.481	-96.854	3.8	LINCOLN	3.2	ML	OGS
11/6/2011 7:38	35.517	-96.834	5	LINCOLN	3.6	mbLg	USGS
11/6/2011 8:04	35.585	-96.836	5	LINCOLN	3.0	mbLg	USGS
11/6/2011 8:14	35.528	-96.778	5.3	LINCOLN	3.1	ML	OGS
11/6/2011 9:22	35.486	-96.850	1.621	LINCOLN	3.5	ML	OGS
11/6/2011 9:22	35.486	-96.850	1.621	LINCOLN	3.5	ML	OGS
11/6/2011 9:22	35.486	-96.850	3.9	LINCOLN	3.5	ML	OGS
11/6/2011 9:39	35.468	-96.869	0.927	LINCOLN	3.7	MW	USGS
11/6/2011 9:39	35.468	-96.869	0.927	LINCOLN	3.7	MW	USGS
11/6/2011 9:39	35.468	-96.869	2.2	LINCOLN	3.7	MW	USGS
11/6/2011 10:52	35.523	-96.791	2.631	LINCOLN	3.6	MW	USGS
11/6/2011 10:52	35.523	-96.791	3	LINCOLN	3.6	MW	USGS
11/6/2011 10:52	35.523	-96.791	2.631	LINCOLN	3.6	MW	USGS
11/6/2011 11:03	35.493	-96.842	4.2	LINCOLN	3.1	ML	OGS
11/6/2011 15:07	35.484	-96.870	4	LINCOLN	3.8	MW	USGS
11/6/2011 15:07	35.484	-96.870	1.28	LINCOLN	3.8	MW	USGS
11/6/2011 15:07	35.484	-96.870	1.28	LINCOLN	3.8	MW	USGS
11/6/2011 17:52	35.490	-96.824	2.133	LINCOLN	3.4	MW	USGS
11/6/2011 17:52	35.490	-96.824	4.4	LINCOLN	3.4	MW	USGS
11/6/2011 17:52	35.490	-96.824	2.133	LINCOLN	3.4	MW	USGS
11/6/2011 18:26	35.464	-96.858	3.1	LINCOLN	3.1	Md	OGS
11/7/2011 1:26	35.506	-96.782	3.5	LINCOLN	3.6	ML	OGS
11/7/2011 2:38	35.535	-96.767	5.8	LINCOLN	3.1	ML	OGS
11/7/2011 8:12	35.501	-96.788	3.7	LINCOLN	3.0	ML	OGS
11/7/2011 9:32	35.520	-96.795	1.9	LINCOLN	3.0	ML	OGS
11/7/2011 13:50	35.477	-96.868	3.8	LINCOLN	3.3	ML	OGS
11/7/2011 17:09	35.505	-96.806	4.7	LINCOLN	3.2	ML	OGS
11/8/2011 2:46	35.518	-96.786	4.811	LINCOLN	4.8	MW	USGS
11/8/2011 2:46	35.518	-96.786	4.811	LINCOLN	4.8	MW	USGS

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11/8/2011 2:46	35.518	-96.786	2.5	LINCOLN	4.8	MW	USGS
11/8/2011 3:05	35.522	-96.789	3.3	LINCOLN	3.0	ML	OGS
11/8/2011 19:05	35.520	-96.785	5.3	LINCOLN	3.5	MW	USGS
11/8/2011 19:05	35.520	-96.785	3.876	LINCOLN	3.5	MW	USGS
11/8/2011 19:05	35.520	-96.785	3.876	LINCOLN	3.5	MW	USGS
11/9/2011 10:11	35.522	-96.799	2.8	LINCOLN	3.0	ML	OGS
11/9/2011 10:11	35.522	-96.799	2.8	LINCOLN	3.0	ML	OGS
11/9/2011 12:08	35.527	-96.774	2.99	LINCOLN	3.4	ML	OGS
11/9/2011 12:08	35.527	-96.774	4.3	LINCOLN	3.4	ML	OGS
11/9/2011 15:21	35.513	-97.384	3.6	OKLAHOMA	3.0	Md	OGS
11/9/2011 15:21	35.513	-97.384	3.6	OKLAHOMA	3.0	Md	OGS
11/9/2011 15:21	35.513	-97.384	3.6	OKLAHOMA	3.0	Md	OGS
11/9/2011 15:21	35.513	-97.384	3.6	OKLAHOMA	3.0	Md	OGS
11/9/2011 15:21	35.513	-97.384	3.6	OKLAHOMA	3.0	Md	OGS
11/9/2011 15:21	35.513	-97.384	3.6	OKLAHOMA	3.0	Md	OGS
11/10/2011 8:36	35.482	-96.850	3.3	LINCOLN	3.4	ML	OGS
11/10/2011 8:36	35.482	-96.850	4.481	LINCOLN	3.4	ML	OGS
11/11/2011 19:19	35.533	-96.758	4.4	LINCOLN	3.2	ML	OGS
11/11/2011 19:19	35.533	-96.758	4.56	LINCOLN	3.2	ML	OGS
11/12/2011 1:18	35.539	-96.743	4.1	LINCOLN	3.1	ML	OGS
11/12/2011 1:18	35.539	-96.743	3.731	LINCOLN	3.1	ML	OGS
11/12/2011 1:41	35.531	-96.761	4.9	LINCOLN	3.2	ML	OGS
11/12/2011 1:41	35.531	-96.761	4.921	LINCOLN	3.2	ML	OGS
11/13/2011 9:49	35.463	-96.875	3.3	POTTAWATOMIE	3.2	ML	OGS
11/13/2011 9:49	35.463	-96.875	3.827	POTTAWATOMIE	3.2	ML	OGS
11/14/2011 5:31	35.511	-96.788	2.9	LINCOLN	3.2	ML	OGS
11/14/2011 5:31	35.511	-96.788	3.08	LINCOLN	3.2	ML	OGS
11/16/2011 17:10	35.497	-96.805	4.08	LINCOLN	3.2	ML	OGS
11/16/2011 17:10	35.497	-96.805	3.9	LINCOLN	3.2	ML	OGS
11/18/2011 7:41	35.534	-96.764	6.069	LINCOLN	3.3	ML	OGS
11/18/2011 7:41	35.534	-96.764	7.6	LINCOLN	3.3	ML	OGS
11/21/2011 21:46	35.507	-96.807	4.7	LINCOLN	3.0	ML	OGS
11/21/2011 21:46	35.507	-96.807	2.136	LINCOLN	3.0	ML	OGS
11/24/2011 21:11	35.560	-96.791	3.853	LINCOLN	3.4	MW	USGS
11/24/2011 21:11	35.560	-96.791	7.3	LINCOLN	3.4	MW	USGS
11/24/2011 21:11	35.560	-96.791	3.853	LINCOLN	3.4	MW	USG
11/24/2011 21:11	35.560	-96.791	3.853	LINCOLN	3.4	MW	USG
11/25/2011 20:09	35.470	-96.883	3.2	LINCOLN	3.4	ML	OGS
11/25/2011 20:09	35.470	-96.883	5	LINCOLN	3.4	ML	OGS
11/25/2011 21:24	35.514	-96.757	2.163	LINCOLN	3.4	ML	OGS
11/25/2011 21:24	35.514	-96.757	5.2	LINCOLN	3.4	ML	OGS
11/27/2011 11:52	35.725	-97.150	2.3	LOGAN	3.1	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
12/3/2011 4:42	35.531	-96.773	7.8	LINCOLN	3.3	ML	OGS
12/3/2011 4:42	35.531	-96.773	7.8	LINCOLN	3.3	ML	OGS
12/9/2011 16:46	35.471	-96.865	3	LINCOLN	3.0	ML	OGS
12/9/2011 16:46	35.471	-96.865	3	LINCOLN	3.0	ML	OGS
12/25/2011 14:10	35.396	-96.531	1	SEMINOLE	3.6	ML	OGS
12/31/2011 8:07	35.393	-96.528	1.2	SEMINOLE	3.6	ML	OGS
1/3/2012 10:56	35.534	-96.758	4.6	LINCOLN	3.4	ML	OGS
1/3/2012 10:56	35.534	-96.758	4.6	LINCOLN	3.4	ML	OGS
1/17/2012 13:26	35.386	-96.550	3.4	SEMINOLE	3.0	ML	OGS
1/26/2012 19:04	35.605	-96.903	3.8	LINCOLN	3.0	ML	OGS
1/26/2012 19:04	35.605	-96.903	3.8	LINCOLN	3.0	ML	OGS
1/27/2012 17:53	35.603	-96.896	3.5	LINCOLN	3.0	ML	OGS
1/27/2012 17:53	35.603	-96.896	3.5	LINCOLN	3.0	ML	OGS
2/7/2012 16:29	35.384	-96.543	2.5	SEMINOLE	3.3	ML	OGS
2/29/2012 22:20	35.723	-97.161	2.6	OKLAHOMA	3.0	ML	OGS
3/10/2012 10:11	35.430	-96.571	2.1	OKFUSKEE	3.1	ML	OGS
3/31/2012 11:54	35.434	-96.581	6.5	OKFUSKEE	3.3	ML	OGS
4/3/2012 7:34	34.639	-95.882	5	ATOKA	4.0	mb	USGS
4/6/2012 16:20	35.726	-97.178	6.1	LOGAN	3.3	mb	USGS
4/12/2012 12:10	35.518	-96.775	2.3	LINCOLN	3.1	mb	USGS
4/12/2012 12:15	35.518	-96.773	2.2	LINCOLN	3.0	ML	OGS
4/14/2012 7:35	34.944	-96.001	5	PITTSBURG	3.0	mb	USGS
4/16/2012 8:12	35.530	-96.768	3.5	LINCOLN	3.7	MW	USGS
4/16/2012 8:12	35.530	-96.759	4	LINCOLN	3.8	MW	USGS
4/30/2012 17:14	35.531	-96.771	4.6	LINCOLN	3.2	mb	USGS
5/10/2012 21:14	35.517	-96.789	1.7	LINCOLN	3.8	MW	USGS
6/13/2012 6:21	35.498	-97.276	6.3	OKLAHOMA	3.3	mb	USGS
6/13/2012 22:44	35.458	-96.702	4.2	POTTAWATOMIE	3.3	mb	USGS
7/3/2012 16:11	35.582	-97.331	5.268	OKLAHOMA	3.2	ML	OGS
7/30/2012 8:43	35.402	-96.576	5	OKFUSKEE	3.0	mb	USGS
7/30/2012 19:35	35.497	-96.824	5	LINCOLN	3.1	mb	USGS
8/7/2012 10:47	35.381	-96.576	3.5	SEMINOLE	3.0	ML	OGS
8/7/2012 10:47	35.395	-96.587	5	SEMINOLE	3.0	ML	OGS
8/18/2012 3:30	35.530	-96.777	3.2	LINCOLN	3.0	mb	USGS
9/9/2012 1:58	35.372	-96.530	2.5	SEMINOLE	3.4	ML	OGS
9/30/2012 19:17	35.526	-96.779	5	LINCOLN	3.0	ML	OGS
10/9/2012 8:49	36.083	-97.386	8.947	LOGAN	3.3	ML	OGS
10/17/2012 4:42	35.679	-97.112	6.5	LINCOLN	3.2	ML	OGS
10/21/2012 10:44	35.649	-97.221	4.1	OKLAHOMA	3.4	ML	OGS
10/28/2012 4:00	35.422	-96.537	3.3	SEMINOLE	3.3	ML	OGS
11/17/2012 4:48	36.661	-97.381	5	KAY	3.0	ML	OGS
12/12/2012 3:30	35.532	-96.759	5	LINCOLN	3.1	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
12/12/2012 18:37	35.370	-96.496	5	SEMINOLE	3.0	ML	OGS
12/16/2012 16:46	36.128	-96.855	5	PAYNE	3.1	ML	OGS
1/4/2013 1:59	35.380	-96.515	5	SEMINOLE	3.5	MW	OGS
1/16/2013 6:26	35.599	-97.352	5.7	OKLAHOMA	3.3	ML	OGS
1/16/2013 20:51	35.598	-97.349	5.8	OKLAHOMA	3.2	ML	OGS
2/27/2013 19:51	35.468	-97.345	2.928	OKLAHOMA	3.5	MW	USGS
3/4/2013 10:22	34.095	-96.650	5	MARSHALL	3.5	MW	USGS
3/6/2013 18:24	35.528	-96.744	5	LINCOLN	3.4	MW	USGS
3/11/2013 17:32	35.452	-96.556	5	OKFUSKEE	3.2	MW	USGS
3/16/2013 19:39	35.521	-96.783	5	LINCOLN	3.0	ML	OGS
3/21/2013 15:56	35.464	-97.393	5.1	OKLAHOMA	3.3	MW	USGS
3/21/2013 16:34	35.464	-97.388	6.356	OKLAHOMA	3.2	MW	USGS
4/16/2013 6:56	35.686	-97.089	6.173	LINCOLN	4.4	MW	USGS
4/16/2013 7:15	35.672	-97.107	6.98	LINCOLN	3.0	ML	OGS
4/16/2013 7:16	35.674	-97.106	6.874	LINCOLN	3.3	MW	USGS
4/16/2013 10:16	35.681	-97.098	6.969	LINCOLN	4.2	MW	USGS
4/16/2013 10:20	35.684	-97.093	6.471	LINCOLN	3.3	ML	OGS
4/16/2013 16:44	35.671	-97.119	7.115	LINCOLN	3.5	ML	OGS
4/16/2013 16:47	35.668	-97.115	6.901	LINCOLN	3.3	ML	OGS
4/16/2013 17:07	35.668	-97.119	6.963	LINCOLN	3.7	ML	OGS
4/16/2013 17:09	35.671	-97.117	6.564	LINCOLN	3.3	MW	USGS
4/16/2013 21:03	35.525	-96.770	6.688	LINCOLN	3.2	ML	OGS
4/16/2013 21:51	35.660	-97.124	7.314	LINCOLN	3.6	ML	OGS
4/17/2013 1:14	35.659	-97.125	7.712	LINCOLN	3.2	MW	US
4/17/2013 14:56	35.659	-97.123	7.66	LINCOLN	3.4	MW	US
4/17/2013 16:25	35.685	-97.082	7.038	LINCOLN	3.2	ML	OGS
4/17/2013 16:51	35.686	-97.083	6.745	LINCOLN	3.2	ML	OGS
4/18/2013 19:59	35.659	-97.139	6.459	LINCOLN	3.1	ML	OGS
4/23/2013 19:33	35.677	-97.098	5	LINCOLN	3.1	ML	OGS
4/24/2013 18:04	35.686	-97.093	4.838	LINCOLN	3.3	ML	OGS
4/26/2013 1:20	35.671	-97.101	5.303	LINCOLN	3.3	ML	OGS
4/26/2013 6:01	35.665	-97.089	4.422	LINCOLN	3.3	ML	OGS
4/28/2013 3:06	34.123	-96.810	5	MARSHALL	3.3	MW	USGS
4/28/2013 12:13	35.610	-97.147	7.194	OKLAHOMA	3.3	ML	OGS
5/20/2013 1:46	35.666	-97.105	5.525	LINCOLN	3.2	ML	OGS
5/27/2013 7:58	34.075	-96.590	6.669	MARSHALL	3.2	ML	OGS
6/7/2013 6:52	35.010	-96.308	16.674	HUGHES	3.0	ML	OGS
6/9/2013 7:12	35.608	-97.262	7.215	OKLAHOMA	3.7	ML	OGS
6/10/2013 22:24	35.463	-97.011	6.625	POTTAWATOMIE	3.3	ML	OGS
6/12/2013 16:05	35.575	-97.292	6.064	OKLAHOMA	3.1	ML	OGS
6/14/2013 22:25	35.571	-97.291	5.156	OKLAHOMA	3.1	ML	OGS
6/16/2013 8:08	35.565	-97.308	7.171	OKLAHOMA	3.1	ML	OGS

**Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)**

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
6/16/2013 11:49	35.406	-96.473	3.599	SEMINOLE	3.0	ML	OGS
6/16/2013 18:06	35.565	-97.306	7.285	OKLAHOMA	3.6	ML	OGS
6/16/2013 18:06	35.568	-97.309	7.056	OKLAHOMA	3.6	ML	OGS
6/16/2013 22:35	35.564	-97.293	6.053	OKLAHOMA	3.2	ML	OGS
6/17/2013 6:39	35.463	-97.116	7.373	POTTAWATOMIE	3.3	ML	OGS
6/18/2013 12:42	35.473	-97.118	13.469	LINCOLN	3.2	ML	OGS
6/24/2013 23:07	34.470	-96.283	5.51	COAL	3.2	ML	OGS
6/26/2013 21:00	35.960	-96.908	5	PAYNE	3.0	ML	OGS
6/27/2013 0:38	35.466	-97.114	10.797	LINCOLN	3.4	ML	OGS
6/29/2013 0:46	35.458	-97.006	6.575	POTTAWATOMIE	3.3	ML	OGS
6/30/2013 2:55	34.099	-96.550	5	BRYAN	3.0	ML	OGS
7/1/2013 8:19	36.674	-97.668	7.952	GRANT	3.2	ML	OGS
7/1/2013 9:11	36.638	-97.683	4.8	GRANT	3.5	ML	OGS
7/24/2013 11:52	35.373	-96.481	8.578	SEMINOLE	3.5	ML	OGS
7/27/2013 20:23	36.660	-97.387	5	KAY	3.3	ML	OGS
7/31/2013 2:43	35.572	-97.302	6.977	OKLAHOMA	3.0	ML	OGS
8/1/2013 2:39	35.518	-97.128	13.025	LINCOLN	3.0	ML	OGS
8/8/2013 6:57	35.348	-96.568	4.44	SEMINOLE	3.3	ML	OGS
8/8/2013 22:46	36.863	-97.994	5	GRANT	3.2	ML	OGS
8/10/2013 8:44	35.570	-97.289	5.868	OKLAHOMA	3.3	ML	OGS
9/15/2013 5:58	35.409	-96.543	4.88	OKFUSKEE	3.1	ML	OGS
9/23/2013 11:40	33.954	-97.111	3	LOVE	3.2	ML	OGS
9/23/2013 13:56	34.028	-97.162	3	LOVE	3.4	ML	OGS
9/26/2013 5:17	35.590	-97.375	5	OKLAHOMA	3.2	ML	OGS
10/1/2013 19:26	36.592	-97.837	5	GARFIELD	3.2	ML	OGS
10/1/2013 19:26	36.586	-97.837	5	GARFIELD	3.2	ML	OGS
10/1/2013 23:28	36.593	-97.836	5	GARFIELD	3.1	ML	OGS
10/2/2013 0:38	36.594	-97.831	4.152	GRANT	3.5	ML	OGS
10/5/2013 7:11	36.580	-97.816	5.12	GARFIELD	3.3	ML	OGS
10/8/2013 10:48	36.726	-98.006	3.432	GRANT	3.2	ML	OGS
10/12/2013 3:25	34.086	-96.579	5	MARSHALL	3.0	ML	OGS
10/20/2013 9:17	36.648	-97.829	5	GRANT	3.1	ML	OGS
10/26/2013 3:04	36.592	-97.826	3.47	GARFIELD	3.0	ML	OGS
11/2/2013 9:36	35.598	-97.367	5	OKLAHOMA	3.5	MW	USGS
11/2/2013 12:04	35.598	-97.378	5.775	OKLAHOMA	3.2	ML	OGS
11/2/2013 14:19	35.611	-97.361	5	OKLAHOMA	3.4	MW	USGS
11/2/2013 15:30	35.595	-97.390	5	OKLAHOMA	3.0	ML	OGS
11/4/2013 1:52	35.599	-97.386	5.821	OKLAHOMA	3.3	MW	USGS
11/5/2013 4:01	35.602	-97.373	5	OKLAHOMA	3.8	MW	USGS
11/5/2013 8:32	35.599	-97.379	4.502	OKLAHOMA	3.2	MW	USGS
11/8/2013 5:50	35.591	-97.381	5	OKLAHOMA	3.3	ML	OGS
11/8/2013 5:52	35.592	-97.387	5	OKLAHOMA	3.3	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
11/10/2013 23:25	35.722	-97.430	5.034	OKLAHOMA	3.5	ML	OGS
11/11/2013 11:07	35.721	-97.431	5	OKLAHOMA	3.2	ML	OGS
11/11/2013 21:15	35.716	-97.438	5	OKLAHOMA	3.3	ML	OGS
11/12/2013 4:00	36.587	-97.838	5.761	GARFIELD	3.4	MW	USGS
11/12/2013 23:04	35.388	-96.656	2.106	SEMINOLE	3.2	ML	OGS
11/15/2013 0:17	35.596	-97.382	7.04	OKLAHOMA	3.4	ML	OGS
11/18/2013 8:37	36.183	-96.958	5	PAYNE	3.2	ML	OGS
11/22/2013 14:33	36.179	-96.954	3.11	PAYNE	3.5	MW	USGS
11/26/2013 21:43	35.602	-97.378	6.622	OKLAHOMA	3.0	ML	OGS
11/27/2013 7:36	36.585	-97.845	5.262	GARFIELD	3.0	ML	OGS
11/30/2013 21:13	35.893	-97.296	5	LOGAN	3.0	ML	OGS
12/2/2013 7:10	35.611	-97.379	8.656	OKLAHOMA	3.2	ML	OGS
12/2/2013 7:21	35.611	-97.377	9.014	OKLAHOMA	3.1	ML	OGS
12/6/2013 0:37	36.875	-97.989	5	GRANT	3.1	ML	OGS
12/7/2013 18:10	35.607	-97.385	8.435	OKLAHOMA	4.5	MW	USGS
12/7/2013 19:26	35.609	-97.398	6.431	OKLAHOMA	3.0	ML	OGS
12/7/2013 23:58	35.608	-97.399	6.728	OKLAHOMA	3.2	ML	OGS
12/8/2013 6:27	35.605	-97.397	6.179	OKLAHOMA	3.3	ML	OGS
12/10/2013 18:46	35.565	-97.235	6.218	OKLAHOMA	3.0	ML	OGS
12/17/2013 13:23	35.400	-96.648	3.266	POTTAWATOMIE	3.2	MW	USGS
12/22/2013 16:28	36.473	-97.047	5	NOBLE	3.3	MW	USGS
12/25/2013 3:08	35.682	-97.393	5	OKLAHOMA	3.7	MW	USGS
12/25/2013 10:30	35.601	-97.384	5.95	OKLAHOMA	3.0	ML	OGS
12/27/2013 22:19	35.684	-97.383	3.553	OKLAHOMA	3.1	ML	OGS
12/28/2013 14:26	36.140	-97.322	5	PAYNE	3.3	ML	OGS
12/29/2013 2:41	36.958	-97.670	12.524	GRANT	3.6	MW	USGS
12/29/2013 8:14	35.891	-97.297	5	LOGAN	3.7	MW	USGS
1/2/2014 13:19	36.123	-97.323	5	PAYNE	3.1	ML	OGS
1/2/2014 17:20	36.127	-96.895	4.384	PAYNE	3.2	ML	OGS
1/4/2014 5:27	35.557	-97.234	5.104	OKLAHOMA	3.0	ML	OGS
1/4/2014 20:35	36.840	-98.358	2.988	ALFALFA	3.5	MW	USGS
1/4/2014 21:26	35.819	-96.940	5	LINCOLN	3.2	MW	USGS
1/4/2014 23:33	36.129	-97.322	5	PAYNE	3.7	MW	USGS
1/9/2014 3:26	35.542	-96.773	3.206	LINCOLN	3.4	MW	OGS
1/9/2014 23:07	35.818	-96.934	2.663	LINCOLN	3.0	ML	OGS
1/26/2014 6:38	35.110	-96.179	2.54	HUGHES	3.1	ML	OGS
1/28/2014 15:05	35.600	-97.389	6.267	OKLAHOMA	3.0	ML	OGS
1/29/2014 2:07	35.945	-96.911	5	PAYNE	3.0	ML	OGS
1/29/2014 2:24	35.941	-96.907	5	LINCOLN	3.2	ML	OGS
1/30/2014 4:50	35.947	-96.915	5.769	PAYNE	3.2	ML	OGS
1/31/2014 15:52	36.653	-98.208	8.282	ALFALFA	3.1	ML	OGS
2/1/2014 9:08	35.951	-96.907	5	PAYNE	3.6	MW	USGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
2/4/2014 15:59	36.129	-97.310	5	PAYNE	3.0	ML	OGS
2/5/2014 23:15	36.836	-97.750	10.649	GRANT	3.5	ML	OGS
2/6/2014 12:48	36.746	-98.295	4.449	ALFALFA	3.3	ML	OGS
2/9/2014 2:16	35.893	-97.291	5	LOGAN	3.8	MW	OGS
2/10/2014 23:37	35.816	-96.932	5	LINCOLN	3.5	MW	USGS
2/11/2014 3:19	36.866	-97.735	5	GRANT	3.0	ML	OGS
2/11/2014 8:49	36.127	-97.295	7.78	PAYNE	3.0	ML	OGS
2/12/2014 12:41	36.996	-97.927	10.427	GRANT	3.4	ML	OGS
2/14/2014 20:46	35.776	-97.469	5	LOGAN	3.0	ML	OGS
2/15/2014 0:19	35.782	-97.481	5	LOGAN	3.1	ML	OGS
2/16/2014 1:51	35.781	-97.477	5	LOGAN	3.3	ML	OGS
2/17/2014 4:54	35.776	-97.469	7.363	LOGAN	3.8	MW	USGS
2/17/2014 5:02	35.777	-97.466	5.391	LOGAN	3.2	ML	OGS
2/17/2014 12:57	35.772	-97.463	5	LOGAN	3.1	ML	OGS
2/17/2014 14:19	35.775	-97.475	4.428	LOGAN	3.0	ML	OGS
2/18/2014 11:53	35.777	-97.467	5.031	LOGAN	3.4	ML	OGS
2/18/2014 12:16	35.770	-97.459	5.144	LOGAN	3.2	ML	OGS
2/19/2014 16:44	35.777	-97.466	5	LOGAN	3.1	ML	OGS
2/20/2014 10:47	36.711	-97.705	5	GRANT	3.0	ML	OGS
2/21/2014 14:26	36.869	-97.889	5	GRANT	3.2	ML	OGS
2/21/2014 21:38	35.781	-97.475	5.166	LOGAN	3.1	ML	OGS
2/23/2014 3:11	36.103	-97.081	5	PAYNE	3.0	ML	OGS
2/23/2014 4:44	36.175	-96.981	5	PAYNE	3.2	ML	OGS
2/23/2014 7:23	36.035	-97.336	5	PAYNE	3.0	ML	OGS
2/23/2014 9:15	36.036	-97.341	5	PAYNE	3.3	MW	USGS
2/24/2014 0:11	36.171	-96.979	5	PAYNE	3.1	ML	OGS
2/24/2014 16:44	35.817	-96.943	4.31	LINCOLN	3.2	ML	OGS
2/26/2014 18:18	36.587	-97.812	5.172	GARFIELD	3.0	ML	OGS
2/26/2014 19:30	36.675	-97.693	5	GRANT	3.4	ML	OGS
2/26/2014 19:44	36.591	-97.810	5	GARFIELD	3.0	ML	OGS
2/27/2014 0:19	36.448	-97.074	0.001	NOBLE	3.2	ML	OGS
2/27/2014 10:14	36.544	-97.062	7.75	NOBLE	3.4	ML	OGS
2/28/2014 19:39	36.700	-97.161	5	KAY	3.0	ML	OGS
3/2/2014 4:21	35.636	-97.041	4.394	LINCOLN	3.5	ML	OGS
3/2/2014 14:55	36.544	-97.050	0.032	NOBLE	3.0	ML	OGS
3/5/2014 14:17	35.593	-97.383	6.433	OKLAHOMA	3.3	MW	USGS
3/8/2014 1:29	35.889	-97.284	4.61	LOGAN	3.0	ML	OGS
3/8/2014 1:34	35.890	-97.281	5	LOGAN	3.1	ML	OGS
3/8/2014 21:50	35.796	-96.976	4.694	LINCOLN	3.3	ML	OGS
3/9/2014 17:05	35.492	-97.247	7.285	OKLAHOMA	3.0	ML	OGS
3/10/2014 14:11	36.125	-96.907	4.334	PAYNE	3.5	ML	OGS
3/11/2014 12:55	35.890	-97.282	4.891	LOGAN	3.4	MW	USGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
3/14/2014 2:22	36.021	-97.112	4.435	PAYNE	3.1	ML	OGS
3/15/2014 19:27	36.632	-97.669	5	GRANT	3.0	ML	OGS
3/17/2014 8:13	35.496	-97.307	7.006	OKLAHOMA	3.4	ML	OGS
3/17/2014 18:45	35.893	-97.275	5.101	LOGAN	3.1	ML	OGS
3/17/2014 23:38	36.080	-97.547	4.023	LOGAN	3.0	ML	OGS
3/19/2014 8:54	36.076	-97.550	3.752	LOGAN	3.1	ML	OGS
3/19/2014 11:23	36.079	-97.550	3.711	LOGAN	3.1	ML	OGS
3/19/2014 20:15	35.949	-96.918	0.047	PAYNE	3.4	MW	USGS
3/20/2014 5:12	36.638	-97.672	6.715	GRANT	3.1	ML	OGS
3/20/2014 14:39	35.891	-97.275	5.144	LOGAN	3.3	ML	OGS
3/20/2014 22:42	36.567	-97.825	5	GARFIELD	3.3	ML	OGS
3/21/2014 9:05	36.080	-97.549	4.296	LOGAN	3.0	ML	OGS
3/22/2014 2:30	35.896	-97.270	4.454	LOGAN	3.1	ML	OGS
3/22/2014 3:01	35.892	-97.279	5	LOGAN	3.0	ML	OGS
3/22/2014 3:02	35.888	-97.290	4.473	LOGAN	3.1	ML	OGS
3/22/2014 3:05	35.888	-97.299	2.936	LOGAN	3.9	MW	USGS
3/22/2014 19:15	36.638	-97.661	5	GRANT	3.0	ML	OGS
3/22/2014 19:42	36.851	-97.618	5	GRANT	3.3	ML	OGS
3/24/2014 23:32	35.769	-96.652	5.216	LINCOLN	3.0	ML	OGS
3/25/2014 14:01	35.743	-97.556	6.109	LOGAN	3.0	MW	USGS
3/27/2014 20:05	35.897	-97.286	4.652	LOGAN	3.2	ML	OGS
3/28/2014 17:56	36.126	-97.633	5	LOGAN	3.1	ML	OGS
3/28/2014 23:16	36.167	-96.982	6.986	PAYNE	3.2	ML	OGS
3/29/2014 6:11	35.491	-97.241	7.049	OKLAHOMA	3.1	ML	OGS
3/30/2014 3:08	35.491	-97.248	7.008	OKLAHOMA	3.4	MW	USGS
3/30/2014 3:55	36.129	-97.644	0	LOGAN	3.5	MW	USGS
3/30/2014 5:49	35.491	-97.246	7.464	OKLAHOMA	3.0	ML	OGS
3/30/2014 6:37	36.129	-97.640	4.637	LOGAN	3.3	ML	OGS
3/30/2014 6:51	36.129	-97.636	4.855	LOGAN	4.2	MW	USGS
3/30/2014 6:59	36.125	-97.644	5	LOGAN	3.3	ML	OGS
3/30/2014 8:07	36.137	-97.624	0.08	LOGAN	3.3	MW	USGS
3/30/2014 8:10	36.132	-97.628	0.373	LOGAN	3.3	MW	USGS
3/30/2014 8:42	36.134	-97.628	0.01	LOGAN	3.9	MW	USGS
3/30/2014 12:49	36.130	-97.636	5	LOGAN	3.4	ML	OGS
3/30/2014 14:09	36.126	-97.637	3.903	LOGAN	4.1	MW	USGS
3/31/2014 17:17	35.793	-96.977	3.412	LINCOLN	3.2	ML	OGS
3/31/2014 23:59	35.887	-97.262	5	LOGAN	3.0	ML	OGS
4/1/2014 17:07	35.884	-97.285	5	LOGAN	3.2	ML	OGS
4/2/2014 0:56	36.622	-97.635	5	GRANT	3.3	ML	OGS
4/2/2014 7:10	35.495	-97.250	7.369	OKLAHOMA	3.0	ML	OGS
4/3/2014 16:56	35.891	-97.270	4.797	LOGAN	3.3	ML	OGS
4/3/2014 20:33	36.448	-97.068	5	NOBLE	3.1	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
4/3/2014 20:58	36.681	-98.217	5	ALFALFA	3.1	ML	OGS
4/4/2014 2:23	35.894	-97.268	5.22	LOGAN	3.5	ML	OGS
4/4/2014 3:15	35.891	-97.273	5	LOGAN	3.1	ML	OGS
4/4/2014 6:42	35.895	-97.268	4.176	LOGAN	3.0	ML	OGS
4/4/2014 18:54	35.889	-97.284	5	LOGAN	3.1	MW	USGS
4/5/2014 10:54	36.079	-97.546	3.997	LOGAN	3.0	ML	OGS
4/5/2014 12:42	36.131	-97.631	2.174	LOGAN	3.8	MW	USGS
4/6/2014 14:25	35.893	-97.268	5.015	LOGAN	3.0	ML	OGS
4/6/2014 14:58	35.892	-97.266	5.076	LOGAN	3.8	MW	USGS
4/7/2014 1:01	35.889	-97.271	5	LOGAN	3.1	ML	OGS
4/7/2014 3:25	36.837	-98.269	5	ALFALFA	3.4	MW	USGS
4/7/2014 5:59	36.285	-96.981	2.972	NOBLE	3.0	ML	OGS
4/7/2014 16:03	35.891	-97.274	5.164	LOGAN	4.2	MW	USGS
4/7/2014 18:01	35.893	-97.293	5.316	LOGAN	3.1	ML	OGS
4/9/2014 3:36	35.894	-97.293	4.667	LOGAN	3.2	ML	OGS
4/9/2014 17:27	35.777	-97.483	6.832	LOGAN	3.0	ML	OGS
4/9/2014 21:09	35.374	-96.638	6.033	SEMINOLE	3.2	ML	OGS
4/10/2014 4:48	36.394	-97.148	5.282	NOBLE	3.2	ML	OGS
4/10/2014 7:33	35.775	-97.482	6.805	LOGAN	4.0	MW	USGS
4/10/2014 7:35	35.777	-97.483	6.837	LOGAN	3.2	ML	OGS
4/10/2014 7:37	35.776	-97.487	6.942	LOGAN	3.0	ML	OGS
4/10/2014 8:19	35.771	-97.481	5.537	LOGAN	3.4	MW	USGS
4/10/2014 8:20	35.781	-97.484	5	LOGAN	3.5	ML	OGS
4/10/2014 16:53	36.289	-96.951	8.018	NOBLE	3.1	ML	OGS
4/10/2014 18:00	36.289	-96.952	8.129	NOBLE	3.7	ML	OGS
4/10/2014 18:18	36.289	-96.954	7.952	NOBLE	3.1	ML	OGS
4/11/2014 5:17	35.892	-97.274	5.105	LOGAN	3.0	ML	OGS
4/12/2014 2:53	35.767	-97.481	5.251	LOGAN	3.0	ML	OGS
4/12/2014 5:32	36.278	-97.249	5	NOBLE	3.6	MW	USGS
4/12/2014 16:13	35.890	-97.268	3.075	LOGAN	3.3	ML	OGS
4/13/2014 17:00	35.770	-97.479	5.818	LOGAN	3.4	ML	OGS
4/13/2014 20:02	35.771	-97.483	6.143	LOGAN	3.5	ML	OGS
4/14/2014 13:17	35.775	-97.484	7.45	LOGAN	3.1	ML	OGS
4/17/2014 11:50	36.680	-98.217	5	ALFALFA	3.6	ML	OGS
4/19/2014 10:43	36.276	-97.250	4.157	NOBLE	3.8	MW	USGS
4/20/2014 19:07	35.774	-97.482	6.717	LOGAN	3.7	MW	USGS
4/20/2014 19:13	35.772	-97.483	6.181	LOGAN	3.0	ML	OGS
4/20/2014 19:31	35.772	-97.472	7.193	LOGAN	3.3	ML	OGS
4/21/2014 18:16	36.603	-97.842	5	GRANT	3.2	ML	OGS
4/22/2014 9:57	35.593	-97.379	5.913	OKLAHOMA	3.3	ML	OGS
4/23/2014 15:35	36.713	-98.592	5	WOODS	3.1	ML	OGS
4/24/2014 17:46	36.768	-98.715	5	WOODS	3.2	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
4/25/2014 7:38	36.599	-97.827	6.178	GRANT	3.2	ML	OGS
4/25/2014 23:54	36.152	-97.295	5	PAYNE	3.0	ML	OGS
4/27/2014 0:22	36.075	-97.558	4.633	LOGAN	3.0	ML	OGS
4/28/2014 2:26	36.106	-97.044	7.036	PAYNE	3.2	ML	OGS
4/30/2014 7:48	36.604	-97.834	5	GRANT	3.1	ML	OGS
4/30/2014 8:06	36.776	-98.073	5	GRANT	3.0	ML	OGS
4/30/2014 19:46	36.597	-97.681	5	GRANT	3.4	ML	OGS
4/30/2014 21:26	36.066	-97.047	5	PAYNE	3.1	ML	OGS
5/1/2014 10:04	35.811	-96.936	5	LINCOLN	3.4	MW	USGS
5/1/2014 19:07	36.276	-97.252	3.994	NOBLE	3.1	ML	OGS
5/2/2014 5:46	36.078	-97.552	4.67	LOGAN	3.2	ML	OGS
5/2/2014 10:29	35.876	-97.299	5.979	LOGAN	3.0	ML	OGS
5/2/2014 19:44	35.590	-97.399	5	OKLAHOMA	3.2	MW	USGS
5/3/2014 9:39	36.604	-97.837	5	GRANT	3.6	ML	OGS
5/6/2014 6:08	35.904	-97.265	4.776	LOGAN	3.2	ML	OGS
5/7/2014 18:57	36.391	-97.152	4.758	NOBLE	3.2	ML	OGS
5/8/2014 4:32	36.631	-97.828	5	GRANT	3.2	ML	OGS
5/8/2014 15:08	36.453	-97.043	5	NOBLE	3.0	ML	OGS
5/8/2014 20:40	36.577	-97.627	5	GARFIELD	3.5	MW	USGS
5/9/2014 18:52	36.583	-97.619	5	GARFIELD	3.9	MW	USGS
5/11/2014 7:50	36.583	-97.610	5.793	GARFIELD	3.0	ML	OGS
5/11/2014 19:29	36.907	-97.662	5	GRANT	3.0	ML	OGS
5/12/2014 0:13	36.309	-96.675	5	PAWNEE	3.0	ML	OGS
5/13/2014 21:39	36.139	-96.894	5	PAYNE	3.3	ML	OGS
5/15/2014 0:28	36.798	-97.660	5	GRANT	3.3	ML	OGS
5/15/2014 20:23	35.776	-97.479	6.987	LOGAN	3.4	MW	USGS
5/16/2014 3:35	34.429	-96.312	5	COAL	3.0	ML	OGS
5/16/2014 20:00	36.161	-96.860	7.806	PAYNE	3.1	ML	OGS
5/17/2014 10:47	36.279	-97.261	5	NOBLE	3.1	ML	OGS
5/17/2014 20:54	36.095	-97.070	1.039	PAYNE	3.2	ML	OGS
5/18/2014 8:29	35.808	-96.937	5	LINCOLN	3.2	ML	OGS
5/18/2014 18:53	36.592	-97.799	5	GARFIELD	3.0	ML	OGS
5/19/2014 4:16	36.110	-97.445	5	LOGAN	3.2	ML	OGS
5/19/2014 6:29	36.091	-97.069	4.203	PAYNE	3.0	ML	OGS
5/20/2014 3:58	35.485	-97.254	7.602	OKLAHOMA	3.2	ML	OGS
5/20/2014 5:42	35.481	-97.248	7.552	OKLAHOMA	3.3	ML	OGS
5/20/2014 7:30	35.490	-97.246	7.482	OKLAHOMA	3.4	MW	USGS
5/20/2014 13:59	35.498	-97.241	6.884	OKLAHOMA	3.1	ML	OGS
5/22/2014 2:46	35.778	-97.468	6.978	LOGAN	3.5	MW	USGS
5/25/2014 9:10	36.798	-97.667	5	GRANT	3.0	ML	OGS
5/30/2014 14:32	36.813	-97.760	3.187	GRANT	3.4	ML	OGS
5/30/2014 21:42	36.601	-98.380	6.447	ALFALFA	3.3	MW	USGS

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Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
5/30/2014 22:44	36.480	-97.966	4.487	GARFIELD	3.1	ML	OGS
5/31/2014 10:18	35.491	-97.252	7.087	OKLAHOMA	3.7	MW	USGS
6/1/2014 5:50	35.418	-96.506	2.823	SEMINOLE	3.1	ML	OGS
6/1/2014 19:54	35.503	-97.236	5	OKLAHOMA	3.6	MW	USGS
6/2/2014 17:38	35.494	-97.258	6.122	OKLAHOMA	3.2	ML	OGS
6/2/2014 22:35	35.718	-97.427	5.284	OKLAHOMA	3.2	ML	OGS
6/2/2014 23:08	35.719	-97.424	5.301	OKLAHOMA	3.1	ML	OGS
6/10/2014 7:19	35.717	-97.428	5	OKLAHOMA	3.1	ML	OGS
6/10/2014 15:13	35.716	-97.429	5.224	OKLAHOMA	3.1	ML	OGS
6/11/2014 9:42	36.929	-97.649	9.145	GRANT	3.0	ML	OGS
6/14/2014 22:55	36.604	-97.623	5	GRANT	3.3	ML	OGS
6/15/2014 13:51	36.866	-97.857	5.254	GRANT	3.0	ML	OGS
6/15/2014 17:33	36.833	-97.639	1.891	GRANT	3.0	ML	OGS
6/16/2014 10:31	35.592	-97.403	6.67	OKLAHOMA	3.5	MW	USGS
6/16/2014 10:47	35.592	-97.399	5	OKLAHOMA	4.3	MW	USGS
6/16/2014 11:25	35.586	-97.380	6.589	OKLAHOMA	3.3	ML	OGS
6/16/2014 11:25	35.587	-97.380	6.536	OKLAHOMA	3.2	ML	OGS
6/17/2014 16:29	35.591	-97.374	5.053	OKLAHOMA	3.0	ML	OGS
6/18/2014 7:08	35.977	-97.183	5.568	PAYNE	3.4	ML	OGS
6/18/2014 10:30	35.597	-97.400	5.309	OKLAHOMA	3.0	ML	OGS
6/18/2014 10:53	35.593	-97.396	5	OKLAHOMA	4.1	MW	USGS
6/18/2014 14:08	35.976	-97.176	5.967	PAYNE	3.2	MW	USGS
6/18/2014 17:26	35.977	-97.181	5	PAYNE	3.1	ML	OGS
6/18/2014 17:44	36.721	-97.896	4.087	GRANT	3.0	ML	OGS
6/18/2014 18:42	35.977	-97.190	5	PAYNE	3.2	ML	OGS
6/18/2014 19:11	36.723	-97.901	4.401	GRANT	3.6	ML	OGS
6/18/2014 19:44	35.976	-97.179	5.627	PAYNE	3.2	ML	OGS
6/20/2014 12:46	35.599	-97.409	4.642	OKLAHOMA	3.1	ML	OGS
6/20/2014 14:46	35.975	-97.178	6.702	PAYNE	3.3	MW	USGS
6/20/2014 23:10	36.726	-97.905	5	GRANT	3.9	MW	USGS
6/21/2014 1:57	36.720	-97.884	5	GRANT	3.0	ML	OGS
6/23/2014 7:42	35.774	-97.479	5.403	LOGAN	3.2	ML	OGS
6/23/2014 9:48	36.853	-97.859	6.068	GRANT	3.3	ML	OGS
6/23/2014 13:44	36.851	-97.856	5.488	GRANT	3.4	MW	USGS
6/24/2014 14:15	36.599	-97.614	5.536	GRANT	3.0	ML	OGS
6/24/2014 16:57	36.884	-97.377	6.099	KAY	3.2	ML	OGS
6/24/2014 17:38	36.871	-97.694	5	GRANT	3.0	ML	OGS
6/25/2014 13:09	36.638	-98.107	5	GRANT	3.3	ML	OGS
6/26/2014 5:26	35.772	-97.491	5	LOGAN	3.6	MW	USGS
6/26/2014 5:38	35.768	-97.485	5.563	LOGAN	3.5	MW	USGS
6/26/2014 5:41	35.767	-97.476	6.551	LOGAN	3.1	ML	OGS
6/26/2014 6:13	35.775	-97.491	6.166	LOGAN	3.3	MW	USGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
6/26/2014 7:45	36.755	-98.047	5.768	GRANT	3.2	ML	OGS
6/26/2014 7:57	36.758	-98.050	5.716	GRANT	3.0	ML	OGS
6/26/2014 14:02	36.868	-97.688	1.46	GRANT	3.2	MW	USGS
6/26/2014 23:28	35.886	-97.263	4.989	LOGAN	3.7	MW	USGS
6/27/2014 7:10	35.884	-97.261	4.762	LOGAN	3.5	ML	OGS
6/27/2014 12:36	35.886	-97.312	5	LOGAN	3.3	ML	OGS
6/27/2014 15:09	35.886	-97.310	5	LOGAN	3.6	MW	USGS
6/27/2014 20:18	36.565	-97.837	5	GARFIELD	3.1	ML	OGS
6/27/2014 22:35	36.719	-97.903	6.037	GRANT	3.7	MW	USGS
6/28/2014 6:08	36.683	-98.261	5	ALFALFA	3.0	ML	OGS
6/29/2014 16:29	35.596	-97.404	5.503	OKLAHOMA	3.0	ML	OGS
6/30/2014 1:30	36.853	-97.854	4.476	GRANT	3.0	ML	OGS
6/30/2014 11:03	35.886	-97.266	4.518	LOGAN	3.2	ML	OGS
7/1/2014 7:42	35.825	-97.075	5.643	LINCOLN	3.0	ML	OGS
7/1/2014 8:20	36.651	-97.959	5	GRANT	3.2	ML	OGS
7/1/2014 14:22	36.584	-97.819	5	GARFIELD	3.1	ML	OGS
7/3/2014 14:43	36.756	-98.048	5	GRANT	3.1	ML	OGS
7/3/2014 16:09	36.384	-96.931	5	PAWNEE	3.0	ML	OGS
7/3/2014 20:14	35.936	-97.075	4.656	LINCOLN	3.2	ML	OGS
7/3/2014 20:24	36.760	-98.052	3.975	GRANT	3.0	ML	OGS
7/4/2014 4:55	36.894	-97.371	7.049	KAY	3.2	ML	OGS
7/4/2014 20:48	36.723	-97.929	5	GRANT	3.0	ML	OGS
7/6/2014 1:44	36.216	-97.542	4.925	GARFIELD	3.3	ML	OGS
7/6/2014 4:10	36.750	-97.750	4.821	GRANT	3.3	ML	OGS
7/6/2014 15:22	36.727	-97.893	5	GRANT	3.1	ML	OGS
7/7/2014 6:53	36.757	-98.049	6.034	GRANT	3.0	ML	OGS
7/7/2014 7:44	36.677	-98.211	0.079	ALFALFA	3.2	ML	OGS
7/7/2014 14:38	34.071	-97.484	7.444	LOVE	3.2	ML	OGS
7/11/2014 12:17	36.560	-97.837	6.398	GARFIELD	3.4	ML	OGS
7/12/2014 11:27	35.863	-97.312	5	LOGAN	3.2	ML	OGS
7/12/2014 17:11	35.862	-97.324	4.047	LOGAN	4.0	MW	USGS
7/12/2014 17:34	35.858	-97.325	4.997	LOGAN	3.1	ML	OGS
7/13/2014 14:51	35.859	-97.324	4.825	LOGAN	3.0	ML	OGS
7/14/2014 7:15	36.716	-97.891	5	GRANT	3.9	MW	USGS
7/14/2014 16:50	35.872	-97.309	5.117	LOGAN	3.3	MW	USGS
7/15/2014 7:19	35.546	-97.154	0.006	OKLAHOMA	3.9	ML	OGS
7/15/2014 7:19	35.524	-97.155	5	OKLAHOMA	3.5	MW	USGS
7/15/2014 9:08	35.524	-97.159	6.654	OKLAHOMA	3.9	MW	USGS
7/15/2014 10:47	36.750	-97.747	4.844	GRANT	3.0	ML	OGS
7/18/2014 1:37	36.121	-97.319	4.963	PAYNE	3.0	ML	OGS
7/18/2014 13:41	36.675	-98.210	5	ALFALFA	3.3	ML	OGS
7/23/2014 2:02	35.878	-97.309	5.264	LOGAN	3.3	MW	USGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
7/23/2014 5:58	35.878	-97.306	4.988	LOGAN	3.1	ML	OGS
7/25/2014 4:56	36.662	-98.280	0.714	ALFALFA	3.4	MW	USGS
7/27/2014 22:19	36.144	-96.809	0.046	PAYNE	3.2	ML	OGS
7/28/2014 15:08	36.747	-98.406	4.221	ALFALFA	3.0	ML	OGS
7/28/2014 22:26	36.747	-98.408	4.76	ALFALFA	3.3	ML	OGS
7/29/2014 2:46	36.756	-98.045	5.287	GRANT	4.3	MW	USGS
7/30/2014 16:21	35.719	-97.427	5.283	OKLAHOMA	3.3	MW	USGS
7/30/2014 16:46	35.718	-97.427	5	OKLAHOMA	3.3	ML	OGS
7/30/2014 23:48	35.719	-97.432	5	OKLAHOMA	3.2	ML	OGS
7/31/2014 6:09	36.301	-97.543	4.996	GARFIELD	3.2	ML	OGS
7/31/2014 23:28	36.582	-97.611	5.287	GARFIELD	3.2	ML	OGS
8/1/2014 14:19	36.750	-98.045	4.6	GRANT	3.1	MW	USGS
8/1/2014 14:44	36.762	-98.044	11.682	GRANT	3.2	MW	USGS
8/2/2014 1:44	36.773	-98.069	5.776	GRANT	3.1	ML	OGS
8/3/2014 4:57	35.772	-97.480	6.664	LOGAN	3.2	ML	OGS
8/3/2014 12:21	35.818	-97.422	3.775	LOGAN	3.0	ML	OGS
8/3/2014 17:11	35.614	-96.941	5.595	LINCOLN	3.1	ML	OGS
8/4/2014 15:30	35.815	-97.420	5	LOGAN	3.3	MW	USGS
8/4/2014 18:23	35.598	-97.407	6.39	OKLAHOMA	3.2	MW	USGS
8/5/2014 17:09	36.819	-97.989	4.175	GRANT	3.3	ML	OGS
8/6/2014 16:06	36.581	-97.606	5	GARFIELD	3.0	ML	OGS
8/7/2014 16:03	35.578	-97.277	5.313	OKLAHOMA	3.0	ML	OGS
8/7/2014 16:39	36.817	-97.996	5.393	GRANT	3.2	ML	OGS
8/8/2014 18:07	35.820	-97.429	5	LOGAN	3.3	ML	OGS
8/8/2014 20:21	35.816	-97.420	4.04	LOGAN	3.3	MW	USGS
8/8/2014 20:45	35.814	-97.417	4.161	LOGAN	3.0	ML	OGS
8/8/2014 20:58	35.816	-97.422	3.815	LOGAN	3.0	ML	OGS
8/10/2014 14:54	36.859	-97.863	5	GRANT	3.3	ML	OGS
8/10/2014 22:29	36.289	-97.122	5	NOBLE	3.3	ML	OGS
8/12/2014 12:34	36.044	-97.514	5	LOGAN	3.0	ML	OGS
8/13/2014 15:44	36.627	-97.685	5.645	GRANT	3.3	ML	OGS
8/14/2014 14:15	35.861	-97.323	5.117	LOGAN	3.2	ML	OGS
8/16/2014 10:54	36.861	-97.871	6.097	GRANT	3.4	ML	OGS
8/17/2014 6:18	36.861	-97.873	5.009	GRANT	3.4	MW	USGS
8/17/2014 6:31	36.856	-97.869	5	GRANT	3.2	MW	USGS
8/17/2014 15:59	36.858	-97.871	5	GRANT	3.1	MW	USGS
8/17/2014 16:35	36.856	-97.870	5	GRANT	3.1	ML	OGS
8/17/2014 16:35	36.853	-97.871	4.808	GRANT	3.1	ML	OGS
8/18/2014 1:25	36.840	-98.254	5	ALFALFA	3.7	MW	USGS
8/18/2014 2:50	35.372	-96.487	1.585	SEMINOLE	3.5	MW	USGS
8/18/2014 19:14	36.632	-98.188	5	ALFALFA	3.4	ML	OGS
8/19/2014 12:41	35.773	-97.468	4.923	LOGAN	4.4	MW	USGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
8/20/2014 11:01	35.883	-97.263	4.463	LOGAN	3.1	ML	OGS
8/20/2014 11:31	35.886	-97.263	4.887	LOGAN	3.3	ML	OGS
8/20/2014 12:27	36.857	-97.867	5	GRANT	3.0	ML	OGS
8/20/2014 12:38	35.883	-97.269	5	LOGAN	3.0	ML	OGS
8/22/2014 19:23	36.859	-98.255	3.362	ALFALFA	3.1	ML	OGS
8/23/2014 11:06	35.813	-97.436	5.243	LOGAN	3.0	MW	USGS
8/23/2014 11:22	36.720	-97.920	5	GRANT	3.3	ML	OGS
8/25/2014 21:41	36.118	-97.316	5.084	PAYNE	3.3	ML	OGS
8/26/2014 16:05	35.817	-97.435	5	LOGAN	3.1	MW	USGS
8/27/2014 15:44	36.094	-97.229	4.814	PAYNE	3.1	ML	OGS
8/27/2014 15:44	36.093	-97.229	4.498	PAYNE	3.1	ML	OGS
8/29/2014 9:52	36.221	-97.555	3.488	GARFIELD	3.0	ML	OGS
8/29/2014 15:39	35.819	-97.431	3.61	LOGAN	3.2	ML	OGS
8/31/2014 7:20	36.619	-97.998	5.217	GRANT	3.4	MW	USGS
8/31/2014 16:57	36.625	-97.986	4.917	GRANT	3.4	ML	OGS
8/31/2014 18:49	35.588	-97.322	4.861	OKLAHOMA	3.2	ML	OGS
8/31/2014 22:04	35.587	-97.321	5.289	OKLAHOMA	3.1	ML	OGS
9/1/2014 11:46	36.195	-97.406	3.956	NOBLE	3.0	ML	OGS
9/1/2014 17:36	36.904	-97.762	5	GRANT	3.0	ML	OGS
9/1/2014 18:31	36.727	-97.913	5	GRANT	3.2	ML	OGS
9/2/2014 4:58	36.718	-97.919	13.438	GRANT	3.3	ML	OGS
9/2/2014 8:05	36.519	-98.473	4.12	ALFALFA	3.4	ML	OGS
9/4/2014 11:41	36.579	-97.606	5	GARFIELD	3.4	ML	OGS
9/4/2014 23:02	36.197	-97.404	5	NOBLE	3.0	ML	OGS
9/4/2014 23:32	36.198	-97.419	5	NOBLE	3.3	MW	USGS
9/6/2014 18:53	36.636	-97.700	5	GRANT	3.4	MW	USGS
9/8/2014 1:52	36.820	-97.716	4.742	GRANT	3.1	ML	OGS
9/8/2014 16:21	36.821	-97.722	5	GRANT	3.9	MW	USGS
9/8/2014 18:04	36.814	-97.724	3.708	GRANT	3.6	ML	OGS
9/8/2014 21:02	36.854	-97.887	6.175	GRANT	3.5	ML	OGS
9/9/2014 9:06	36.198	-97.412	5	NOBLE	3.4	MW	USGS
9/9/2014 10:06	36.217	-97.394	11.684	NOBLE	3.0	ML	OGS
9/9/2014 19:49	36.178	-96.968	5.993	PAYNE	3.0	ML	OGS
9/10/2014 0:11	36.968	-97.785	7.509	GRANT	3.3	ML	OGS
9/12/2014 14:41	36.184	-97.270	5	NOBLE	3.7	MW	USGS
9/13/2014 8:22	36.623	-97.693	4.68	GRANT	3.4	ML	OGS
9/13/2014 16:58	36.222	-97.555	3.186	GARFIELD	3.2	ML	OGS
9/13/2014 20:01	36.196	-97.415	5	NOBLE	3.0	ML	OGS
9/14/2014 4:10	36.178	-97.268	5.267	NOBLE	3.3	ML	OGS
9/14/2014 12:01	36.629	-97.982	5	GRANT	3.5	MW	USGS
9/15/2014 0:11	35.816	-97.418	4.324	LOGAN	3.1	ML	OGS
9/15/2014 9:21	36.841	-98.245	3.551	ALFALFA	3.1	ML	OGS

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Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
9/15/2014 13:27	36.634	-97.981	4.009	GRANT	3.1	ML	OGS
9/15/2014 20:08	35.814	-97.427	4.427	LOGAN	3.9	MW	USGS
9/15/2014 20:14	35.820	-97.426	4.966	LOGAN	3.2	ML	OGS
9/16/2014 6:16	35.820	-97.423	4.452	LOGAN	3.0	ML	OGS
9/16/2014 22:35	36.820	-97.715	4.238	GRANT	3.2	ML	OGS
9/17/2014 11:09	36.846	-97.878	5.581	GRANT	3.2	ML	OGS
9/17/2014 11:58	36.148	-96.805	7.234	PAYNE	3.0	ML	OGS
9/17/2014 12:02	36.147	-96.808	7.48	PAYNE	3.2	ML	OGS
9/17/2014 13:21	36.178	-97.264	3.334	NOBLE	3.3	MW	USGS
9/18/2014 7:12	36.181	-97.269	5.214	NOBLE	3.8	MW	USGS
9/18/2014 19:52	36.273	-97.253	3.288	NOBLE	3.2	ML	OGS
9/19/2014 0:08	35.818	-97.423	4.488	LOGAN	3.0	ML	OGS
9/19/2014 1:31	36.603	-97.613	4.564	GRANT	3.8	MW	USGS
9/19/2014 1:34	36.602	-97.608	5.26	GRANT	3.3	ML	OGS
9/19/2014 5:08	36.178	-97.259	5	NOBLE	3.3	ML	OGS
9/19/2014 10:55	36.821	-97.719	4.408	GRANT	3.0	ML	OGS
9/19/2014 17:23	35.818	-97.420	4.141	LOGAN	3.6	MW	USGS
9/20/2014 7:10	36.822	-97.724	3.693	GRANT	3.0	ML	OGS
9/21/2014 0:36	35.821	-97.423	4.716	LOGAN	3.1	ML	OGS
9/22/2014 19:28	34.629	-97.546	5	GARVIN	3.6	ML	OGS
9/23/2014 7:58	35.447	-96.526	3.893	OKFUSKEE	3.3	ML	OGS
9/23/2014 10:34	35.818	-97.420	5	LOGAN	3.0	ML	OGS
9/24/2014 5:49	36.404	-96.762	5	PAWNEE	3.5	MW	USGS
9/26/2014 13:27	36.303	-96.974	5	NOBLE	3.2	ML	OGS
9/27/2014 12:14	35.820	-97.432	4.48	LOGAN	3.4	MW	USGS
9/27/2014 12:29	35.826	-97.433	4.442	LOGAN	3.1	ML	OGS
9/28/2014 2:26	36.391	-97.152	5	NOBLE	3.2	ML	OGS
9/29/2014 14:43	36.078	-97.230	3.999	PAYNE	3.1	ML	OGS
9/30/2014 3:01	36.223	-97.554	2.2	GARFIELD	4.0	MW	USGS
9/30/2014 5:35	36.209	-97.536	5	GARFIELD	3.0	ML	OGS
9/30/2014 6:06	36.214	-97.536	3.953	GARFIELD	3.2	MW	USGS
9/30/2014 6:22	36.173	-97.247	4.141	NOBLE	3.0	ML	OGS
9/30/2014 22:12	35.591	-97.395	6.518	OKLAHOMA	3.0	ML	OGS
10/1/2014 18:18	36.765	-97.986	5	GRANT	3.6	ML	OGS
10/1/2014 19:24	36.860	-97.861	4.493	GRANT	3.0	ML	OGS
10/1/2014 22:15	35.816	-97.420	4.556	LOGAN	3.0	ML	OGS
10/3/2014 0:19	36.850	-97.852	4.152	GRANT	3.1	ML	OGS
10/4/2014 14:11	36.308	-96.971	5	NOBLE	3.0	ML	OGS
10/4/2014 20:23	36.845	-97.881	5.711	GRANT	3.1	ML	OGS
10/5/2014 1:10	36.615	-98.358	5.674	ALFALFA	3.2	ML	OGS
10/5/2014 10:24	35.817	-97.422	4.776	LOGAN	3.0	ML	OGS
10/7/2014 12:03	36.316	-97.033	7.933	NOBLE	3.1	ML	OGS

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Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
10/7/2014 16:51	35.948	-96.766	5.28	PAYNE	4.0	MW	USGS
10/7/2014 23:57	35.944	-96.779	3.342	PAYNE	3.0	ML	OGS
10/8/2014 1:48	35.751	-97.120	4.566	LINCOLN	3.2	MW	USGS
10/8/2014 19:44	36.177	-97.256	5.222	NOBLE	3.3	MW	USGS
10/10/2014 7:38	35.818	-97.418	4.687	LOGAN	3.0	ML	OGS
10/10/2014 13:51	35.947	-96.759	5	PAYNE	4.2	MW	USGS
10/10/2014 16:18	35.750	-97.121	3.267	LINCOLN	3.2	MW	USGS
10/10/2014 17:26	35.748	-97.123	3.562	LINCOLN	3.1	ML	OGS
10/12/2014 19:40	36.670	-98.302	3.506	ALFALFA	3.0	ML	OGS
10/13/2014 1:44	36.287	-96.919	7.708	PAWNEE	3.2	ML	OGS
10/13/2014 8:58	36.651	-97.923	5	GRANT	3.1	ML	OGS
10/13/2014 12:24	35.734	-97.525	5	LOGAN	3.2	MW	USGS
10/13/2014 16:03	36.820	-97.718	3.378	GRANT	3.0	ML	OGS
10/14/2014 1:18	35.478	-97.354	6.238	OKLAHOMA	3.0	ML	OGS
10/14/2014 4:55	36.519	-98.473	3.502	ALFALFA	3.3	ML	OGS
10/14/2014 5:06	35.813	-97.411	3.158	LOGAN	3.1	ML	OGS
10/14/2014 6:26	36.658	-97.903	2.337	GRANT	3.3	ML	OGS
10/14/2014 18:28	36.351	-97.093	4.531	NOBLE	3.1	ML	OGS
10/15/2014 9:51	36.503	-99.052	7.859	WOODWARD	3.5	ML	OGS
10/15/2014 12:33	36.334	-97.582	5	GARFIELD	3.0	ML	OGS
10/17/2014 8:49	36.504	-99.067	7.754	WOODWARD	3.1	ML	OGS
10/17/2014 12:43	36.505	-99.083	6.954	WOODWARD	3.0	ML	OGS
10/17/2014 12:51	36.510	-99.032	5	WOODWARD	3.1	ML	OGS
10/17/2014 15:11	35.818	-97.415	5	LOGAN	3.2	ML	OGS
10/17/2014 16:47	36.513	-99.051	6.113	WOODWARD	3.2	ML	OGS
10/17/2014 16:56	36.214	-97.538	5	GARFIELD	3.3	ML	OGS
10/18/2014 12:34	36.508	-99.058	5	WOODWARD	3.0	ML	OGS
10/18/2014 19:26	36.204	-97.534	0.374	GARFIELD	3.0	ML	OGS
10/19/2014 1:16	36.285	-96.928	4.364	NOBLE	3.3	ML	OGS
10/19/2014 1:49	36.282	-96.930	5	NOBLE	3.0	ML	OGS
10/19/2014 3:04	36.280	-96.923	6.007	PAWNEE	3.0	ML	OGS
10/19/2014 17:11	36.493	-99.046	3.988	WOODWARD	3.0	ML	OGS
10/20/2014 15:35	36.680	-98.158	3.764	ALFALFA	3.0	ML	OGS
10/20/2014 20:34	35.417	-96.558	4.833	OKFUSKEE	3.5	ML	OGS
10/21/2014 0:46	36.744	-97.884	2.41	GRANT	3.3	ML	OGS
10/21/2014 8:55	36.635	-97.700	3.93	GRANT	3.1	ML	OGS
10/21/2014 8:55	36.636	-97.704	3.985	GRANT	3.0	ML	OGS
10/22/2014 15:58	36.503	-99.060	6.907	WOODWARD	3.5	ML	OGS
10/22/2014 22:31	36.499	-99.063	7.259	WOODWARD	3.2	ML	OGS
10/23/2014 7:06	36.680	-97.715	3.899	GRANT	3.1	ML	OGS
10/25/2014 12:36	35.860	-97.304	5	LOGAN	3.1	ML	OGS
10/25/2014 17:10	35.545	-97.237	6.819	OKLAHOMA	3.2	ML	OGS

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Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
10/25/2014 20:21	36.506	-99.028	5	WOODWARD	3.1	ML	OGS
10/26/2014 18:23	36.490	-99.088	8.649	WOODWARD	3.7	ML	OGS
10/27/2014 10:42	36.500	-99.081	7.121	WOODWARD	3.5	ML	OGS
10/29/2014 0:29	36.111	-97.432	2.988	LOGAN	3.1	ML	OGS
10/29/2014 16:53	35.734	-97.527	6.116	LOGAN	3.1	MW	USGS
10/30/2014 18:57	36.045	-97.258	1.937	PAYNE	3.3	MW	USGS
10/31/2014 0:39	35.966	-97.378	4.542	LOGAN	3.2	ML	OGS
10/31/2014 0:49	36.608	-97.671	3.584	GRANT	3.1	ML	OGS
10/31/2014 6:22	36.494	-99.081	7.446	WOODWARD	3.4	MW	USGS
11/1/2014 6:03	36.048	-97.253	5	PAYNE	3.0	MW	USGS
11/2/2014 0:58	36.843	-97.754	3.653	GRANT	3.1	ML	OGS
11/3/2014 5:58	35.606	-97.212	5.941	OKLAHOMA	3.0	ML	OGS
11/3/2014 7:10	35.607	-97.211	6.009	OKLAHOMA	3.3	ML	OGS
11/3/2014 22:16	35.776	-97.456	4.906	LOGAN	3.0	ML	OGS
11/4/2014 4:16	36.753	-97.558	4.322	GRANT	3.0	ML	OGS
11/4/2014 16:46	36.587	-97.778	5	GARFIELD	3.0	ML	OGS
11/4/2014 23:13	35.461	-97.033	6.261	POTTAWATOMIE	3.2	ML	OGS
11/5/2014 2:05	36.586	-97.781	5	GARFIELD	3.0	ML	OGS
11/7/2014 20:08	36.607	-97.815	5.876	GRANT	3.2	ML	OGS
11/8/2014 9:28	36.173	-96.847	5.264	PAYNE	3.0	ML	OGS
11/8/2014 10:10	36.393	-97.298	6.373	NOBLE	3.0	ML	OGS
11/9/2014 0:35	36.330	-97.527	8.2	GARFIELD	3.3	MW	USGS
11/9/2014 1:20	36.714	-98.041	4.733	GRANT	3.0	ML	OGS
11/9/2014 12:55	36.276	-97.262	7.026	NOBLE	3.1	ML	OGS
11/9/2014 18:39	36.331	-97.521	5	GARFIELD	3.1	ML	OGS
11/9/2014 20:10	36.026	-97.082	4.356	PAYNE	3.8	MW	USGS
11/10/2014 2:11	36.024	-97.093	4.74	PAYNE	3.1	ML	OGS
11/10/2014 2:30	36.756	-97.565	4.109	GRANT	3.5	ML	OGS
11/11/2014 14:09	36.756	-97.565	5.173	GRANT	3.5	ML	OGS
11/11/2014 23:17	36.765	-97.561	6.813	GRANT	3.0	ML	OGS
11/12/2014 21:37	36.648	-97.602	5.37	GRANT	3.1	ML	OGS
11/13/2014 1:28	35.350	-96.539	3.079	SEMINOLE	3.6	MW	USGS
11/13/2014 14:34	36.753	-97.562	5	GRANT	3.2	ML	OGS
11/14/2014 3:54	36.165	-96.901	5.856	PAYNE	3.0	ML	OGS
11/14/2014 7:06	36.845	-97.877	5.159	GRANT	3.3	ML	OGS
11/14/2014 7:10	36.848	-97.877	4.874	GRANT	3.0	ML	OGS
11/14/2014 7:34	36.844	-97.886	4.438	GRANT	3.1	ML	OGS
11/14/2014 7:43	36.843	-97.877	4.849	GRANT	3.0	ML	OGS
11/14/2014 11:58	36.626	-98.000	3.524	GRANT	3.6	ML	OGS
11/14/2014 15:41	36.024	-97.091	4.651	PAYNE	3.0	ML	OGS
11/15/2014 13:39	36.617	-97.710	6.204	GRANT	3.4	ML	OGS
11/16/2014 7:26	36.065	-97.324	4.743	PAYNE	3.4	ML	OGS

**Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)**

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
11/16/2014 10:32	36.278	-96.931	4.902	NOBLE	3.2	ML	OGS
11/16/2014 22:41	36.280	-97.236	2.806	NOBLE	3.3	ML	OGS
11/17/2014 20:40	36.421	-97.037	5	NOBLE	3.0	ML	OGS
11/18/2014 16:16	36.866	-98.335	4.655	ALFALFA	3.6	ML	OGS
11/18/2014 21:43	36.281	-96.974	5	NOBLE	3.4	ML	OGS
11/19/2014 3:34	35.928	-97.441	5.895	LOGAN	3.3	ML	OGS
11/19/2014 4:06	36.590	-98.256	6.164	ALFALFA	3.1	ML	OGS
11/19/2014 12:19	36.845	-97.899	5	GRANT	3.1	ML	OGS
11/19/2014 13:28	36.197	-96.721	5.266	PAWNEE	3.0	ML	OGS
11/21/2014 13:03	36.846	-97.896	5.469	GRANT	3.3	ML	OGS
11/21/2014 14:56	36.879	-98.243	4.459	ALFALFA	3.0	ML	OGS
11/22/2014 2:39	36.118	-97.435	5.784	LOGAN	3.1	ML	OGS
11/22/2014 9:39	36.756	-97.578	5.106	GRANT	3.7	ML	OGS
11/22/2014 14:36	36.640	-97.773	6.197	GRANT	3.5	ML	OGS
11/22/2014 14:54	36.637	-97.771	6.09	GRANT	3.0	ML	OGS
11/22/2014 18:31	36.595	-97.648	4.483	GRANT	3.1	ML	OGS
11/23/2014 4:25	36.829	-97.867	5	GRANT	3.4	ML	OGS
11/23/2014 4:50	35.495	-97.262	6.846	OKLAHOMA	3.0	ML	OGS
11/24/2014 6:36	36.328	-97.531	5	GARFIELD	3.8	MW	USGS
11/24/2014 6:55	36.327	-97.529	7.374	GARFIELD	3.4	ML	OGS
11/24/2014 7:17	36.118	-97.247	3.956	PAYNE	3.0	ML	OGS
11/24/2014 8:28	35.816	-97.433	6.169	LOGAN	3.5	ML	OGS
11/24/2014 14:08	36.326	-97.528	6.869	GARFIELD	3.0	ML	OGS
11/24/2014 19:05	36.868	-98.334	5.326	ALFALFA	3.7	MW	USGS
11/25/2014 14:43	36.820	-97.719	4.129	GRANT	3.6	MW	USGS
11/25/2014 22:04	35.818	-97.430	4.818	LOGAN	3.4	MW	USGS
11/25/2014 23:32	36.809	-97.864	5.575	GRANT	3.5	ML	OGS
11/26/2014 9:14	36.817	-97.711	5.37	GRANT	3.0	ML	OGS
11/26/2014 14:56	35.815	-97.419	5.314	LOGAN	3.3	ML	OGS
11/26/2014 16:54	36.115	-97.310	4.272	PAYNE	3.1	ML	OGS
11/26/2014 19:29	35.817	-97.430	5.551	LOGAN	3.0	ML	OGS
11/27/2014 0:54	36.589	-97.808	6.198	GARFIELD	3.1	ML	OGS
11/28/2014 3:35	36.819	-97.711	4.853	GRANT	3.0	ML	OGS
11/28/2014 8:36	36.629	-97.981	5.846	GRANT	3.0	ML	OGS
11/30/2014 6:59	35.538	-96.771	6.895	LINCOLN	3.6	MW	USGS
11/30/2014 8:54	36.601	-97.765	5	GRANT	3.0	ML	OGS
11/30/2014 10:24	36.603	-97.607	5.684	GRANT	4.0	MW	USGS
11/30/2014 12:18	35.673	-97.379	6.265	OKLAHOMA	3.3	MW	USGS
12/1/2014 17:57	36.495	-99.083	7.423	WOODWARD	3.3	MW	USGS
12/2/2014 12:04	35.671	-97.379	7.103	OKLAHOMA	3.4	MW	USGS
12/2/2014 16:25	36.177	-97.264	4.973	NOBLE	3.0	ML	OGS
12/3/2014 13:33	36.502	-99.028	6.661	WOODWARD	3.5	MW	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
12/4/2014 6:39	35.820	-97.438	5	LOGAN	3.2	MW	USGS
12/4/2014 8:38	36.421	-97.290	7.671	NOBLE	3.0	ML	OGS
12/4/2014 11:34	36.287	-97.433	7.177	NOBLE	3.0	ML	OGS
12/4/2014 18:04	36.758	-97.578	5	GRANT	3.5	ML	OGS
12/4/2014 23:29	35.900	-97.254	4.961	LOGAN	3.1	ML	OGS
12/5/2014 3:54	36.023	-97.094	4.007	PAYNE	3.7	MW	USGS
12/6/2014 7:04	36.761	-98.051	5.8	GRANT	3.2	ML	OGS
12/7/2014 20:57	34.175	-96.756	5	JOHNSTON	3.0	ML	OGS
12/7/2014 22:13	35.820	-97.439	5.147	LOGAN	3.6	MW	USGS
12/8/2014 14:05	35.738	-97.586	6.978	LOGAN	3.2	ML	OGS
12/9/2014 6:28	35.819	-96.821	6.036	LINCOLN	3.5	MW	OGS
12/9/2014 8:38	36.751	-97.556	4.531	GRANT	3.1	MW	OGS
12/10/2014 6:39	36.841	-97.815	5.651	GRANT	3.1	ML	OGS
12/10/2014 10:09	35.818	-97.433	4.865	LOGAN	3.1	ML	OGS
12/10/2014 16:47	36.872	-98.123	5.318	ALFALFA	3.0	ML	OGS
12/10/2014 17:43	36.147	-97.008	5.516	PAYNE	3.0	ML	OGS
12/11/2014 7:53	36.760	-98.054	3.663	GRANT	3.8	MW	USGS
12/11/2014 19:57	36.951	-97.800	5	GRANT	3.1	ML	OGS
12/11/2014 20:51	36.871	-98.122	5.615	ALFALFA	3.4	ML	OGS
12/12/2014 11:31	36.353	-97.090	8.474	NOBLE	3.3	ML	OGS
12/12/2014 19:48	36.262	-97.038	5.088	NOBLE	3.3	ML	OGS
12/13/2014 9:51	36.324	-97.535	6.495	GARFIELD	3.6	ML	OGS
12/14/2014 5:01	36.325	-97.530	6.574	GARFIELD	3.0	ML	OGS
12/14/2014 9:14	36.871	-98.127	5.413	ALFALFA	3.9	MW	USGS
12/14/2014 10:19	36.318	-96.757	5.221	PAWNEE	3.1	ML	OGS
12/14/2014 15:48	36.326	-97.532	6.423	GARFIELD	3.8	ML	OGS
12/14/2014 16:09	36.327	-97.534	5.511	GARFIELD	3.0	ML	OGS
12/14/2014 21:07	36.325	-97.535	6.649	GARFIELD	3.1	ML	OGS
12/14/2014 21:18	36.317	-96.756	4.679	PAWNEE	4.0	MW	USGS
12/14/2014 22:22	36.327	-97.526	6.641	GARFIELD	3.2	ML	OGS
12/15/2014 2:32	36.313	-96.757	4.047	PAWNEE	3.0	ML	OGS
12/15/2014 17:01	36.182	-97.372	5.78	NOBLE	3.2	ML	OGS
12/15/2014 18:22	35.493	-96.829	6.581	LINCOLN	3.0	ML	OGS
12/16/2014 17:01	36.868	-98.122	5.69	ALFALFA	3.4	ML	OGS
12/16/2014 17:18	36.869	-98.124	5.638	ALFALFA	3.1	ML	OGS
12/18/2014 23:06	36.151	-97.490	4.659	LOGAN	3.4	MW	USGS
12/19/2014 13:18	36.756	-97.566	4.474	GRANT	3.3	ML	OGS
12/21/2014 1:17	36.175	-97.387	5.187	NOBLE	3.0	ML	OGS
12/21/2014 5:59	36.761	-97.572	7.594	GRANT	3.1	ML	OGS
12/21/2014 8:53	36.528	-98.227	4.215	ALFALFA	3.0	ML	OGS
12/21/2014 15:44	36.938	-97.725	1.487	GRANT	3.3	ML	OGS
12/21/2014 18:36	36.627	-97.715	4.664	GRANT	3.4	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
12/21/2014 18:42	36.629	-97.710	4.018	GRANT	3.4	ML	OGS
12/22/2014 3:40	36.802	-98.193	5	ALFALFA	3.6	MW	USGS
12/22/2014 5:05	36.067	-97.359	6.97	LOGAN	3.0	ML	OGS
12/22/2014 11:12	36.277	-97.225	6.162	NOBLE	3.0	ML	OGS
12/23/2014 4:50	35.442	-97.927	7.817	CANADIAN	3.1	ML	OGS
12/23/2014 11:58	36.803	-98.177	5.941	ALFALFA	3.1	ML	OGS
12/23/2014 20:35	36.891	-97.691	5.554	GRANT	3.0	ML	OGS
12/25/2014 20:32	35.812	-97.417	6.945	LOGAN	3.5	MW	USGS
12/25/2014 23:11	36.368	-97.068	1.98	NOBLE	3.9	ML	OGS
12/26/2014 17:12	36.802	-98.162	5	ALFALFA	3.0	ML	OGS
12/26/2014 18:03	35.810	-97.416	5.483	LOGAN	3.1	ML	OGS
12/27/2014 3:21	35.814	-97.418	6.738	LOGAN	3.0	ML	OGS
12/27/2014 11:17	35.911	-97.251	4.832	LOGAN	3.0	ML	OGS
12/27/2014 16:39	36.284	-96.892	4.466	PAWNEE	3.3	MW	OGS
12/28/2014 10:02	35.815	-97.418	7.123	LOGAN	3.0	ML	OGS
12/29/2014 16:15	36.836	-97.876	4.874	GRANT	3.3	ML	OGS
12/29/2014 17:50	36.754	-98.178	5	ALFALFA	3.1	ML	OGS
12/30/2014 11:05	36.625	-97.723	6.548	GRANT	3.0	ML	OGS
12/30/2014 12:43	36.362	-97.451	6.495	NOBLE	3.1	ML	OGS
12/30/2014 15:11	36.571	-98.325	5	ALFALFA	3.1	ML	OGS
12/30/2014 21:24	36.725	-98.308	5.55	ALFALFA	3.3	MW	OGS
12/30/2014 21:37	36.725	-98.308	5.485	ALFALFA	3.8	ML	OGS
12/31/2014 7:19	36.721	-98.171	5.836	ALFALFA	3.1	ML	OGS
1/1/2015 0:26	36.656	-97.635	5.319	GRANT	3.0	ML	OGS
1/1/2015 12:05	36.929	-97.493	6.535	GRANT	3.1	ML	OGS
1/1/2015 14:44	36.814	-97.710	3.2	GRANT	3.5	MW	OGS
1/2/2015 0:19	36.889	-98.240	6.652	ALFALFA	3.1	ML	OGS
1/2/2015 9:23	36.730	-98.306	5.566	ALFALFA	3.1	ML	OGS
1/2/2015 16:52	36.286	-96.899	4.005	PAWNEE	3.0	ML	OGS
1/3/2015 12:16	36.847	-97.814	6.076	GRANT	3.4	ML	OGS
1/3/2015 16:54	36.659	-97.626	5	GRANT	3.4	ML	OGS
1/3/2015 18:28	36.853	-98.277	6.269	ALFALFA	3.0	ML	OGS
1/4/2015 21:37	35.820	-97.436	6.604	LOGAN	3.6	MW	USGS
1/5/2015 12:14	36.741	-98.112	6.598	ALFALFA	3.5	ML	OGS
1/5/2015 13:52	36.745	-98.111	6.522	ALFALFA	3.1	ML	OGS
1/5/2015 22:06	36.261	-97.262	5	NOBLE	3.6	MW	USGS
1/5/2015 22:27	36.260	-97.262	3.408	NOBLE	3.6	MW	USGS
1/6/2015 15:45	36.259	-97.260	5.456	NOBLE	3.1	ML	OGS
1/6/2015 18:28	36.259	-97.261	5.572	NOBLE	3.1	ML	OGS
1/6/2015 23:10	36.693	-97.676	4.809	GRANT	3.0	ML	OGS
1/7/2015 19:41	35.817	-97.429	6.933	LOGAN	3.8	MW	USGS
1/8/2015 5:07	36.872	-98.135	7.034	ALFALFA	3.0	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
1/8/2015 22:03	36.585	-98.471	5	ALFALFA	3.0	ML	OGS
1/9/2015 6:44	35.814	-97.418	6.964	LOGAN	3.5	MW	USGS
1/9/2015 6:53	35.816	-97.421	7.452	LOGAN	3.1	ML	OGS
1/9/2015 16:39	36.284	-96.978	5.284	NOBLE	3.5	ML	OGS
1/9/2015 16:51	36.289	-96.893	4.898	PAWNEE	3.3	ML	OGS
1/10/2015 4:26	35.814	-97.415	7.063	LOGAN	3.0	ML	OGS
1/10/2015 6:14	36.270	-97.247	5.329	NOBLE	3.0	ML	OGS
1/10/2015 8:39	36.916	-97.799	3.081	GRANT	3.0	ML	OGS
1/10/2015 13:27	36.234	-97.572	5	GARFIELD	3.2	ML	OGS
1/11/2015 10:28	35.805	-97.406	6.686	LOGAN	3.4	MW	USGS
1/13/2015 2:10	35.876	-97.239	6.577	LOGAN	3.1	ML	OGS
1/13/2015 9:59	36.817	-97.707	5.5	GRANT	3.6	ML	OGS
1/14/2015 0:06	35.808	-97.415	6.712	LOGAN	3.0	ML	OGS
1/14/2015 0:46	36.754	-97.555	5	GRANT	3.1	ML	OGS
1/14/2015 1:42	36.332	-97.516	7.158	GARFIELD	3.1	ML	OGS
1/14/2015 3:45	36.728	-98.312	4.915	ALFALFA	3.3	ML	OGS
1/14/2015 18:23	35.877	-97.245	5.296	LOGAN	3.0	ML	OGS
1/15/2015 6:57	36.952	-97.616	5	GRANT	3.0	ML	OGS
1/15/2015 7:36	36.329	-97.521	7.045	GARFIELD	3.3	ML	OGS
1/15/2015 7:47	36.715	-97.873	5.58	GRANT	3.0	ML	OGS
1/15/2015 18:47	36.952	-97.615	5.049	GRANT	3.6	ML	OGS
1/16/2015 6:53	36.938	-97.907	4.546	GRANT	3.0	ML	OGS
1/16/2015 13:41	36.489	-99.085	7.684	WOODWARD	3.1	ML	OGS
1/16/2015 22:29	36.603	-97.613	5.645	GRANT	3.4	ML	OGS
1/17/2015 1:04	36.930	-98.031	5	GRANT	3.2	ML	OGS
1/17/2015 6:33	36.603	-98.217	5	ALFALFA	3.4	ML	OGS
1/17/2015 17:47	36.289	-96.806	5	PAWNEE	3.1	ML	OGS
1/17/2015 22:42	35.894	-97.266	6.898	LOGAN	3.2	MW	OGS
1/18/2015 10:17	36.799	-98.271	6.003	ALFALFA	3.1	ML	OGS
1/18/2015 23:54	36.975	-97.856	5	GRANT	3.1	ML	OGS
1/19/2015 0:31	36.333	-97.513	6.262	GARFIELD	3.0	ML	OGS
1/19/2015 1:01	36.818	-97.709	4.946	GRANT	3.5	MW	OGS
1/19/2015 10:19	36.802	-98.196	4.268	ALFALFA	3.8	MW	USGS
1/19/2015 14:48	36.291	-96.811	3.947	PAWNEE	3.0	MW	OGS
1/19/2015 21:17	36.288	-96.802	3.966	PAWNEE	3.0	ML	OGS
1/20/2015 0:25	36.805	-98.166	5.959	ALFALFA	3.1	ML	OGS
1/20/2015 15:27	36.939	-97.618	1.705	GRANT	3.5	MW	USGS
1/22/2015 3:23	36.931	-97.644	2.275	GRANT	3.1	ML	OGS
1/22/2015 5:36	36.130	-97.273	5.09	PAYNE	3.0	ML	OGS
1/23/2015 21:49	36.654	-97.639	5.084	GRANT	3.2	ML	OGS
1/24/2015 2:23	36.367	-98.057	7.001	GARFIELD	3.6	MW	OGS
1/24/2015 15:36	36.807	-98.360	4.523	ALFALFA	3.6	MW	OGS

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Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
1/24/2015 20:38	36.822	-97.702	5	GRANT	3.4	ML	OGS
1/25/2015 7:29	36.127	-97.279	4.762	PAYNE	3.1	ML	OGS
1/25/2015 9:36	36.952	-97.615	5	GRANT	3.7	MW	USGS
1/26/2015 0:18	36.231	-97.577	6.084	GARFIELD	3.2	ML	OGS
1/26/2015 19:30	36.848	-97.702	6.645	GRANT	3.8	MW	OGS
1/26/2015 21:45	35.808	-97.417	6.034	LOGAN	3.2	ML	OGS
1/26/2015 23:46	36.557	-98.646	13.733	WOODS	3.0	ML	OGS
1/27/2015 11:31	36.262	-97.264	3.408	NOBLE	4.2	MW	USGS
1/27/2015 11:36	36.259	-97.279	5	NOBLE	3.3	MW	OGS
1/27/2015 15:58	36.629	-97.712	2.951	GRANT	4.0	MW	USGS
1/27/2015 16:10	36.954	-97.618	10.811	GRANT	3.1	ML	OGS
1/27/2015 16:55	36.631	-97.706	5.438	GRANT	3.2	ML	OGS
1/27/2015 17:47	36.256	-97.262	4.905	NOBLE	3.0	ML	OGS
1/28/2015 5:39	36.127	-97.276	5.131	PAYNE	3.1	ML	OGS
1/28/2015 9:33	35.540	-97.231	6.809	OKLAHOMA	3.2	ML	OGS
1/28/2015 13:22	36.809	-98.363	3.778	ALFALFA	3.0	ML	OGS
1/28/2015 15:48	36.616	-97.705	4.912	GRANT	3.0	ML	OGS
1/29/2015 19:38	35.539	-96.761	5	LINCOLN	3.0	MW	OGS
1/29/2015 20:44	36.945	-97.631	6.031	GRANT	3.3	ML	OGS
1/29/2015 21:55	36.309	-98.168	6.79	MAJOR	3.0	ML	OGS
1/30/2015 0:07	35.588	-97.399	6.97	OKLAHOMA	3.2	ML	OGS
1/30/2015 14:24	36.808	-98.364	3.755	ALFALFA	3.6	MW	USGS
2/1/2015 18:06	36.945	-97.630	4.842	GRANT	3.7	MW	USGS
2/2/2015 13:34	36.649	-97.663	4.88	GRANT	3.1	MW	OGS
2/2/2015 21:52	36.455	-98.766	4.241	WOODS	3.1	ML	OGS
2/2/2015 22:09	36.264	-97.285	6.851	NOBLE	3.5	MW	OGS
2/3/2015 12:37	36.810	-98.285	6.324	ALFALFA	3.5	ML	OGS
2/4/2015 9:12	36.809	-98.352	4.764	ALFALFA	3.0	ML	OGS
2/4/2015 15:20	36.311	-98.164	7.446	MAJOR	3.1	ML	OGS
2/4/2015 18:20	36.814	-98.289	4.568	ALFALFA	3.2	ML	OGS
2/5/2015 1:36	36.891	-97.894	5	GRANT	3.2	ML	OGS
2/5/2015 3:56	36.812	-98.350	3.748	ALFALFA	3.0	ML	OGS
2/5/2015 5:09	36.816	-98.286	5.537	ALFALFA	3.3	ML	OGS
2/5/2015 7:06	36.533	-98.217	4.89	ALFALFA	3.4	MW	USGS
2/5/2015 15:08	36.815	-98.292	4.381	ALFALFA	4.2	MW	USGS
2/5/2015 22:24	36.812	-98.280	6.974	ALFALFA	3.1	MW	OGS
2/5/2015 22:48	36.946	-97.619	2.135	GRANT	3.4	ML	OGS
2/6/2015 15:31	35.546	-96.758	4.959	LINCOLN	3.1	ML	OGS
2/6/2015 16:49	36.731	-98.334	4.383	ALFALFA	3.4	ML	OGS
2/6/2015 17:11	36.731	-98.335	4.066	ALFALFA	3.1	ML	OGS
2/6/2015 17:20	36.126	-97.279	5	PAYNE	3.3	ML	OGS
2/7/2015 18:40	36.261	-97.276	5.405	NOBLE	3.9	MW	USGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
2/8/2015 4:03	36.943	-97.622	3.959	GRANT	3.2	ML	OGS
2/8/2015 4:41	36.256	-97.264	6.047	NOBLE	3.3	MW	USGS
2/8/2015 10:15	35.859	-97.346	6.041	LOGAN	3.1	ML	OGS
2/9/2015 20:30	36.608	-98.348	5	ALFALFA	3.0	ML	OGS
2/10/2015 20:23	36.838	-97.813	5.965	GRANT	3.0	ML	OGS
2/11/2015 17:23	36.699	-97.826	5.36	GRANT	3.1	ML	OGS
2/11/2015 22:31	36.811	-98.278	5.839	ALFALFA	3.3	ML	OGS
2/11/2015 23:56	36.700	-97.824	5.788	GRANT	3.1	ML	OGS
2/12/2015 4:51	36.186	-97.028	4.77	PAYNE	3.2	ML	OGS
2/12/2015 17:45	36.891	-97.889	3.437	GRANT	3.3	MW	OGS
2/13/2015 17:42	36.952	-97.624	6.991	GRANT	3.8	ML	OGS
2/14/2015 16:39	36.598	-97.629	5	GRANT	3.6	MW	OGS
2/14/2015 17:13	36.597	-97.632	5	GRANT	3.2	ML	OGS
2/14/2015 17:23	36.598	-97.633	3.53	GRANT	3.6	MW	OGS
2/14/2015 19:52	36.598	-97.629	5.419	GRANT	3.1	ML	OGS
2/15/2015 4:22	36.598	-97.622	5.317	GRANT	3.3	ML	OGS
2/15/2015 6:42	36.597	-97.638	5.214	GRANT	3.3	ML	OGS
2/15/2015 13:15	36.599	-97.619	5.723	GRANT	3.0	ML	OGS
2/16/2015 9:50	35.818	-97.449	5.274	LOGAN	3.5	MW	OGS
2/16/2015 12:54	36.813	-98.278	3.512	ALFALFA	3.5	ML	OGS
2/17/2015 15:21	36.017	-97.037	4.2	PAYNE	3.0	ML	OGS
2/17/2015 17:13	36.532	-98.214	4.514	ALFALFA	3.6	ML	OGS
2/18/2015 19:10	36.557	-98.156	5.535	ALFALFA	3.4	ML	OGS
2/18/2015 19:29	36.558	-98.157	5.872	ALFALFA	3.2	ML	OGS
2/18/2015 21:36	36.599	-97.629	5	GRANT	3.1	ML	OGS
2/19/2015 4:06	35.887	-97.268	2.226	LOGAN	3.1	ML	OGS
2/20/2015 3:24	35.818	-97.421	6.23	LOGAN	3.2	MW	OGS
2/20/2015 9:57	36.534	-98.209	5	ALFALFA	3.1	ML	OGS
2/21/2015 4:47	36.398	-97.297	6.096	NOBLE	3.1	ML	OGS
2/21/2015 6:45	36.600	-97.628	3.267	GRANT	3.0	ML	OGS
2/21/2015 12:42	35.481	-96.947	6.161	LINCOLN	3.0	ML	OGS
2/23/2015 17:05	36.943	-97.627	5	GRANT	3.0	ML	OGS
2/24/2015 18:30	36.600	-97.622	7.067	GRANT	3.4	ML	OGS
2/25/2015 2:08	36.868	-98.299	5	ALFALFA	3.3	ML	OGS
2/25/2015 17:30	36.947	-97.628	7.001	GRANT	3.0	ML	OGS
2/25/2015 17:58	36.246	-97.604	3.963	GARFIELD	3.1	ML	OGS
2/26/2015 7:32	36.393	-97.287	6.755	NOBLE	3.0	ML	OGS
2/27/2015 20:23	36.266	-97.381	6.809	NOBLE	3.3	ML	OGS
2/28/2015 20:01	36.127	-97.277	4.646	PAYNE	3.1	ML	OGS
3/1/2015 0:05	35.953	-96.774	3.88	PAYNE	3.2	ML	OGS
3/1/2015 8:58	35.950	-96.775	4.673	PAYNE	3.0	ML	OGS
3/2/2015 19:07	36.224	-97.645	3.222	GARFIELD	3.0	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
3/2/2015 20:06	36.221	-97.654	3.917	GARFIELD	3.2	ML	OGS
3/3/2015 12:06	36.057	-97.516	5	LOGAN	3.4	ML	OGS
3/3/2015 20:05	36.163	-96.995	4.464	PAYNE	3.0	ML	OGS
3/5/2015 9:51	36.812	-98.277	5.182	ALFALFA	3.1	ML	OGS
3/5/2015 20:33	36.812	-98.273	5.449	ALFALFA	3.2	ML	OGS
3/5/2015 20:59	36.810	-98.274	5.359	ALFALFA	3.5	ML	OGS
3/5/2015 21:01	36.195	-97.289	5.04	NOBLE	3.0	ML	OGS
3/6/2015 8:59	36.624	-97.673	6.374	GRANT	3.1	ML	OGS
3/7/2015 20:44	36.599	-97.620	5.692	GRANT	3.0	ML	OGS
3/7/2015 21:11	36.597	-97.633	5.878	GRANT	3.8	MW	OGS
3/7/2015 22:46	36.627	-97.668	5.417	GRANT	3.3	ML	OGS
3/8/2015 13:51	36.630	-97.654	5.401	GRANT	3.0	ML	OGS
3/8/2015 16:48	35.635	-97.274	5.823	OKLAHOMA	3.6	ML	OGS
3/8/2015 17:02	36.615	-97.644	5.559	GRANT	3.0	ML	OGS
3/8/2015 22:14	36.269	-97.289	5.586	NOBLE	3.3	ML	OGS
3/9/2015 3:24	35.815	-97.448	4.525	LOGAN	3.9	MW	OGS
3/9/2015 4:01	35.814	-97.451	5	LOGAN	3.2	ML	OGS
3/9/2015 10:48	35.821	-97.438	4.897	LOGAN	3.3	ML	OGS
3/9/2015 22:28	35.541	-97.243	6.048	OKLAHOMA	3.0	ML	OGS
3/10/2015 4:21	36.751	-97.534	6.58	GRANT	3.8	ML	OGS
3/10/2015 20:28	36.265	-97.276	5.405	NOBLE	3.0	ML	OGS
3/11/2015 14:44	36.116	-97.308	4.852	PAYNE	3.3	ML	OGS
3/12/2015 10:40	36.870	-98.117	5	ALFALFA	3.1	ML	OGS
3/12/2015 20:34	36.628	-97.667	5.274	GRANT	3.7	MW	OGS
3/13/2015 6:49	35.744	-97.378	5	LOGAN	3.0	ML	OGS
3/13/2015 7:38	35.746	-97.382	6.194	LOGAN	3.1	MW	OGS
3/13/2015 10:04	36.940	-97.635	2.3	GRANT	3.3	MW	OGS
3/14/2015 13:57	36.744	-97.629	5	GRANT	3.1	ML	OGS
3/15/2015 5:10	36.264	-97.279	5.422	NOBLE	3.1	ML	OGS
3/16/2015 13:19	35.808	-97.240	6.955	LOGAN	3.2	ML	OGS
3/16/2015 14:15	35.812	-97.239	4.3	LOGAN	3.0	ML	OGS
3/16/2015 15:28	35.812	-97.237	5.73	LOGAN	3.0	ML	OGS
3/16/2015 22:34	36.353	-97.118	6.112	NOBLE	3.0	MW	OGS
3/16/2015 22:46	35.809	-97.235	7.112	LOGAN	3.4	ML	OGS
3/17/2015 0:03	36.360	-97.102	4.799	NOBLE	3.1	ML	OGS
3/17/2015 23:45	36.599	-97.622	2.381	GRANT	4.1	MW	OGS
3/18/2015 18:13	36.779	-98.030	6.489	GRANT	3.0	ML	OGS
3/19/2015 14:48	36.603	-97.608	6.114	GRANT	3.1	ML	OGS
3/20/2015 9:00	36.580	-97.597	5.656	GARFIELD	3.2	ML	OGS
3/21/2015 10:08	36.351	-97.088	5	NOBLE	3.8	MW	OGS
3/21/2015 10:58	36.607	-98.381	5.97	ALFALFA	3.2	ML	OGS
3/21/2015 19:57	36.258	-97.250	4.976	NOBLE	3.0	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
3/21/2015 19:58	36.260	-97.255	4.677	NOBLE	3.4	ML	OGS
3/22/2015 11:12	36.332	-97.197	5	NOBLE	3.2	MW	OGS
3/22/2015 22:45	36.332	-97.517	6.626	GARFIELD	3.4	ML	OGS
3/23/2015 7:24	36.782	-98.030	6.601	GRANT	3.6	ML	OGS
3/23/2015 16:18	36.783	-98.024	6.811	GRANT	3.3	ML	OGS
3/23/2015 16:23	36.782	-98.021	5.76	GRANT	3.3	ML	OGS
3/23/2015 17:17	35.791	-96.987	5.275	LINCOLN	3.8	ML	OGS
3/23/2015 20:16	36.122	-97.566	4.214	LOGAN	3.8	MW	OGS
3/23/2015 21:41	36.783	-98.025	7.012	GRANT	3.0	ML	OGS
3/23/2015 23:29	36.634	-97.654	2.588	GRANT	4.0	MW	OGS
3/24/2015 0:27	36.356	-97.112	0.835	NOBLE	4.1	ML	OGS
3/24/2015 9:39	36.517	-98.956	0.416	WOODS	3.5	ML	OGS
3/24/2015 9:45	36.517	-98.986	5	WOODWARD	3.0	ML	OGS
3/24/2015 10:07	36.518	-99.004	7.408	WOODWARD	3.3	ML	OGS
3/24/2015 13:54	36.078	-97.224	5.269	PAYNE	3.2	ML	OGS
3/24/2015 14:31	36.542	-98.381	5	ALFALFA	3.1	ML	OGS
3/24/2015 19:48	36.778	-98.030	6.513	GRANT	4.0	MW	OGS
3/24/2015 20:25	36.331	-97.520	6.795	GARFIELD	3.6	MW	OGS
3/24/2015 23:45	36.445	-97.729	4.766	GARFIELD	3.0	ML	OGS
3/24/2015 23:53	36.446	-97.728	4.545	GARFIELD	3.2	ML	OGS
3/25/2015 0:10	36.775	-98.030	6.728	GRANT	3.2	ML	OGS
3/25/2015 0:15	36.600	-97.628	5.234	GRANT	3.7	MW	OGS
3/25/2015 3:15	36.272	-97.378	5.567	NOBLE	3.5	ML	OGS
3/25/2015 8:54	36.117	-97.302	5	PAYNE	3.1	ML	OGS
3/25/2015 17:33	35.650	-97.367	5.181	OKLAHOMA	3.2	ML	OGS
3/26/2015 22:16	36.776	-98.027	6.514	GRANT	3.2	ML	OGS
3/27/2015 10:32	36.194	-97.007	5.212	PAYNE	3.0	ML	OGS
3/27/2015 16:39	36.114	-97.234	4.778	PAYNE	3.3	ML	OGS
3/28/2015 10:12	36.851	-97.699	6.477	GRANT	3.1	ML	OGS
3/28/2015 11:08	36.515	-99.017	8.74	WOODWARD	3.4	ML	OGS
3/28/2015 11:23	36.506	-99.025	7.081	WOODWARD	3.1	ML	OGS
3/29/2015 5:06	35.814	-97.451	6.712	LOGAN	3.0	ML	OGS
3/30/2015 5:57	36.115	-97.232	5.499	PAYNE	3.1	ML	OGS
3/30/2015 6:06	36.112	-97.232	5.147	PAYNE	3.0	ML	OGS
3/30/2015 14:17	36.357	-97.097	5	NOBLE	3.0	ML	OGS
3/31/2015 3:42	36.784	-98.018	6.365	GRANT	3.1	ML	OGS
3/31/2015 14:46	36.326	-97.526	2.554	GARFIELD	3.0	ML	OGS
3/31/2015 15:21	36.603	-97.616	2.713	GRANT	3.4	ML	OGS
3/31/2015 16:23	36.921	-97.793	2.634	GRANT	3.0	ML	OGS
4/1/2015 19:19	36.122	-97.565	5.459	LOGAN	3.2	ML	OGS
4/1/2015 23:03	36.597	-97.608	6.13	GRANT	3.1	ML	OGS
4/2/2015 0:46	36.599	-97.605	5.824	GRANT	3.1	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
4/2/2015 2:10	36.775	-98.031	5.301	GRANT	3.5	ML	OGS
4/2/2015 3:05	36.119	-97.561	4.842	LOGAN	3.3	ML	OGS
4/2/2015 3:58	36.119	-97.564	5.428	LOGAN	3.4	ML	OGS
4/3/2015 2:16	36.488	-98.164	5.599	ALFALFA	3.6	ML	OGS
4/3/2015 20:54	36.487	-98.152	6.912	ALFALFA	3.3	ML	OGS
4/3/2015 21:28	36.689	-97.679	5.977	GRANT	3.4	ML	OGS
4/4/2015 0:20	36.940	-97.634	5.394	GRANT	3.3	MW	OGS
4/4/2015 0:48	36.938	-97.634	4.713	GRANT	3.0	ML	OGS
4/4/2015 0:49	36.116	-97.564	5.268	LOGAN	3.8	MW	OGS
4/4/2015 4:10	36.511	-99.052	9.772	WOODWARD	3.2	ML	OGS
4/4/2015 5:02	36.117	-97.572	5	LOGAN	3.2	ML	OGS
4/4/2015 8:35	36.331	-97.528	6.088	GARFIELD	3.6	MW	OGS
4/4/2015 9:11	36.328	-97.527	6.828	GARFIELD	3.0	ML	OGS
4/4/2015 13:21	36.118	-97.572	5.047	LOGAN	4.1	MW	USGS
4/4/2015 16:15	35.953	-96.780	4.48	PAYNE	3.0	ML	OGS
4/5/2015 4:49	36.504	-97.145	6.907	NOBLE	3.1	ML	OGS
4/5/2015 10:22	36.467	-97.322	7.305	NOBLE	3.2	ML	OGS
4/6/2015 9:01	36.511	-99.045	8.848	WOODWARD	3.2	ML	OGS
4/6/2015 15:30	36.636	-97.660	5.226	GRANT	3.7	MW	OGS
4/6/2015 15:37	36.633	-97.650	6.364	GRANT	3.1	ML	OGS
4/7/2015 3:52	36.370	-97.831	5.734	GARFIELD	3.1	ML	OGS
4/7/2015 17:25	36.331	-97.525	6.866	GARFIELD	3.7	ML	OGS
4/7/2015 21:21	36.890	-98.197	4.651	ALFALFA	3.3	ML	OGS
4/7/2015 22:10	36.502	-97.151	6.822	NOBLE	3.0	ML	OGS
4/8/2015 1:42	36.283	-97.517	2.723	GARFIELD	3.0	ML	OGS
4/8/2015 1:47	36.187	-97.030	4.65	PAYNE	3.2	ML	OGS
4/8/2015 3:15	36.266	-97.267	4.852	NOBLE	3.0	ML	OGS
4/8/2015 20:47	35.822	-97.424	4.722	LOGAN	3.1	ML	OGS
4/8/2015 20:52	35.819	-97.419	2.487	LOGAN	4.3	MW	OGS
4/9/2015 3:38	36.722	-97.831	5.95	GRANT	3.0	ML	OGS
4/9/2015 9:29	35.625	-97.205	5.393	OKLAHOMA	3.2	ML	OGS
4/9/2015 18:40	36.125	-97.551	5	LOGAN	3.0	ML	OGS
4/10/2015 10:07	35.811	-97.234	5.752	LOGAN	3.2	ML	OGS
4/11/2015 18:58	36.511	-99.031	7.231	WOODWARD	3.1	ML	OGS
4/12/2015 0:42	36.120	-97.564	5.518	LOGAN	3.4	ML	OGS
4/12/2015 8:18	35.808	-97.416	5.262	LOGAN	3.0	ML	OGS
4/12/2015 12:10	36.721	-97.933	6.885	GRANT	3.2	ML	OGS
4/12/2015 22:55	35.949	-96.775	4.45	PAYNE	3.5	ML	OGS
4/13/2015 12:39	36.077	-97.558	5.06	LOGAN	3.3	ML	OGS
4/13/2015 14:10	36.507	-99.053	9.177	WOODWARD	3.5	ML	OGS
4/15/2015 3:25	36.314	-97.515	6.438	GARFIELD	3.0	ML	OGS
4/15/2015 19:12	36.329	-97.523	6.978	GARFIELD	3.3	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
4/16/2015 15:49	36.516	-99.011	4.941	WOODWARD	3.5	ML	OGS
4/17/2015 8:37	35.921	-97.330	4.359	LOGAN	3.7	ML	OGS
4/17/2015 9:08	35.923	-97.331	3.089	LOGAN	3.8	ML	OGS
4/17/2015 9:37	35.919	-97.326	5.134	LOGAN	3.3	ML	OGS
4/17/2015 10:42	35.915	-97.410	5.977	LOGAN	3.1	ML	OGS
4/17/2015 16:48	35.920	-97.327	5.433	LOGAN	3.4	ML	OGS
4/18/2015 18:34	36.945	-97.631	5	GRANT	3.3	ML	OGS
4/19/2015 6:28	35.919	-97.324	5.631	LOGAN	3.6	MW	OGS
4/20/2015 12:08	36.849	-97.880	5.31	GRANT	3.7	ML	OGS
4/22/2015 20:57	36.943	-97.633	6.4	GRANT	3.4	ML	OGS
4/23/2015 5:20	36.624	-97.657	7.098	GRANT	3.0	ML	OGS
4/23/2015 5:21	36.630	-97.654	6.515	GRANT	3.4	ML	OGS
4/23/2015 6:20	36.624	-97.657	5.855	GRANT	3.7	ML	OGS
4/24/2015 6:16	36.274	-97.463	5.278	GARFIELD	3.0	ML	OGS
4/24/2015 12:01	36.116	-97.580	3.134	LOGAN	3.0	ML	OGS
4/24/2015 12:32	35.585	-97.372	6.588	OKLAHOMA	3.6	ML	OGS
4/24/2015 22:23	35.747	-97.380	5.461	LOGAN	3.2	ML	OGS
4/25/2015 23:13	36.403	-97.333	7.512	NOBLE	3.4	ML	OGS
4/26/2015 1:43	36.282	-96.910	5.015	PAWNEE	3.0	ML	OGS
4/26/2015 2:29	35.971	-97.381	4.743	LOGAN	3.0	ML	OGS
4/26/2015 2:43	36.273	-96.941	4.877	NOBLE	3.0	ML	OGS
4/26/2015 13:53	35.967	-97.380	6.079	LOGAN	3.1	ML	OGS
4/26/2015 19:07	36.283	-97.513	4.953	GARFIELD	3.3	ML	OGS
4/27/2015 6:23	36.280	-97.511	6.789	GARFIELD	3.1	ML	OGS
4/27/2015 22:22	35.919	-97.326	5.279	LOGAN	4.1	MW	USGS
4/28/2015 0:20	36.558	-98.152	6.617	ALFALFA	3.0	ML	OGS
4/28/2015 20:59	36.283	-97.511	5.673	GARFIELD	3.3	ML	OGS
4/29/2015 5:25	35.744	-97.383	5.696	LOGAN	3.2	ML	OGS
4/29/2015 15:06	36.182	-97.326	4.439	NOBLE	3.1	ML	OGS
4/29/2015 16:42	36.284	-97.518	5.661	GARFIELD	4.0	ML	OGS
4/29/2015 20:30	36.285	-97.516	8.843	GARFIELD	3.0	ML	OGS
5/1/2015 7:26	35.813	-97.242	4.186	LOGAN	3.1	ML	OGS
5/1/2015 7:32	36.522	-98.991	4.965	WOODWARD	3.9	MW	OGS
5/2/2015 17:05	36.138	-96.855	5.007	PAYNE	3.0	ML	OGS
5/4/2015 1:30	36.726	-97.917	4.12	GRANT	3.5	ML	OGS
5/4/2015 2:10	36.513	-98.982	5.398	WOODWARD	3.0	ML	OGS
5/4/2015 8:15	36.945	-97.639	5.377	GRANT	3.0	ML	OGS
5/4/2015 11:04	36.329	-96.946	2.523	NOBLE	3.0	ML	OGS
5/4/2015 20:13	36.116	-97.232	5.06	PAYNE	3.0	ML	OGS
5/4/2015 23:59	35.600	-97.054	4.775	LINCOLN	3.2	ML	OGS
5/6/2015 9:29	36.871	-98.154	6.744	ALFALFA	3.1	ML	OGS
5/6/2015 11:06	35.923	-97.342	3.747	LOGAN	3.4	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
5/6/2015 11:33	35.926	-97.345	4.885	LOGAN	3.1	ML	OGS
5/6/2015 14:10	36.875	-98.162	3.276	ALFALFA	3.5	ML	OGS
5/6/2015 17:11	36.320	-96.753	1.137	PAWNEE	3.1	ML	OGS
5/7/2015 0:58	36.120	-97.576	3.332	LOGAN	3.0	ML	OGS
5/7/2015 2:48	35.607	-97.054	4.28	LINCOLN	3.0	ML	OGS
5/7/2015 12:48	36.298	-96.881	5	PAWNEE	3.1	ML	OGS
5/7/2015 21:31	36.509	-99.068	7.986	WOODWARD	3.3	ML	OGS
5/8/2015 1:06	36.513	-99.049	14.442	WOODWARD	3.2	ML	OGS
5/8/2015 14:10	36.603	-97.823	5.762	GRANT	3.5	ML	OGS
5/8/2015 16:43	35.819	-97.242	2.432	LOGAN	3.2	ML	OGS
5/8/2015 23:05	36.515	-99.015	7.567	WOODWARD	3.1	ML	OGS
5/8/2015 23:19	36.026	-97.108	5.081	PAYNE	3.2	ML	OGS
5/9/2015 3:01	36.943	-97.637	5.644	GRANT	3.0	ML	OGS
5/9/2015 3:49	36.935	-97.641	1.888	GRANT	3.1	ML	OGS
5/9/2015 4:52	36.514	-97.274	6.8	NOBLE	3.0	ML	OGS
5/9/2015 18:41	36.960	-97.588	5.037	GRANT	3.0	ML	OGS
5/10/2015 1:33	36.820	-97.717	6.627	GRANT	3.1	ML	OGS
5/10/2015 2:57	36.076	-97.452	4.137	LOGAN	3.0	ML	OGS
5/10/2015 4:11	36.624	-97.690	6.368	GRANT	3.3	ML	OGS
5/10/2015 21:15	36.764	-98.688	8.163	WOODS	3.3	ML	OGS
5/12/2015 15:59	36.517	-98.965	3.522	WOODWARD	3.1	ML	OGS
5/12/2015 21:31	36.351	-97.081	3.888	NOBLE	3.2	ML	OGS
5/14/2015 4:08	36.940	-97.849	5	GRANT	3.1	ML	OGS
5/14/2015 18:39	35.668	-97.315	3.727	OKLAHOMA	3.2	ML	OGS
5/14/2015 22:08	36.677	-98.154	6.49	ALFALFA	3.0	ML	OGS
5/15/2015 5:29	36.335	-96.817	5	PAWNEE	3.1	ML	OGS
5/16/2015 3:15	36.630	-97.714	6.558	GRANT	3.0	ML	OGS
5/16/2015 12:03	35.608	-97.060	3.744	LINCOLN	3.3	ML	OGS
5/16/2015 14:25	35.606	-97.063	4.178	LINCOLN	3.1	ML	OGS
5/17/2015 15:20	36.554	-97.182	7.995	NOBLE	3.2	ML	OGS
5/17/2015 18:36	35.826	-97.225	6.466	LOGAN	3.4	ML	OGS
5/17/2015 20:38	36.960	-97.592	4.78	GRANT	3.1	ML	OGS
5/18/2015 2:01	35.814	-97.452	5.227	LOGAN	3.0	ML	OGS
5/18/2015 2:52	35.808	-97.445	5.398	LOGAN	3.8	ML	OGS
5/18/2015 7:14	36.607	-98.692	13.73	WOODS	3.4	ML	OGS
5/18/2015 16:46	35.826	-97.224	6.318	LOGAN	3.0	ML	OGS
5/18/2015 21:45	36.941	-97.634	4.659	GRANT	3.0	ML	OGS
5/19/2015 14:54	36.599	-98.660	5	WOODS	3.0	ML	OGS
5/20/2015 10:44	36.514	-99.009	6.243	WOODWARD	3.3	ML	OGS
5/20/2015 11:25	36.853	-97.913	3.739	GRANT	3.1	ML	OGS
5/21/2015 2:29	36.109	-97.311	5.283	PAYNE	3.0	ML	OGS
5/21/2015 11:03	35.994	-97.226	4.498	PAYNE	3.3	ML	OGS

**Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)**

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
5/22/2015 7:17	36.515	-99.019	5.876	WOODWARD	3.0	ML	OGS
5/22/2015 10:57	36.618	-98.408	2.412	ALFALFA	3.3	ML	OGS
5/23/2015 10:46	36.849	-97.698	7.128	GRANT	3.5	MW	OGS
5/24/2015 17:32	36.233	-97.594	3.726	GARFIELD	3.0	ML	OGS
5/24/2015 20:37	36.249	-97.533	6.756	GARFIELD	3.0	ML	OGS
5/25/2015 12:38	35.597	-97.065	5.925	LINCOLN	3.2	ML	OGS
5/26/2015 13:50	36.297	-97.558	7.221	GARFIELD	3.0	ML	OGS
5/26/2015 14:36	36.296	-97.556	7.26	GARFIELD	3.0	ML	OGS
5/26/2015 16:00	36.298	-97.560	6.915	GARFIELD	3.0	ML	OGS
5/26/2015 17:30	36.247	-97.532	6.973	GARFIELD	3.0	ML	OGS
5/26/2015 22:27	36.521	-99.008	7.24	WOODWARD	3.0	ML	OGS
5/26/2015 23:30	35.925	-97.345	5.752	LOGAN	3.1	ML	OGS
5/27/2015 16:16	36.137	-97.282	5.933	PAYNE	3.0	ML	OGS
5/27/2015 19:13	36.306	-96.661	5.58	PAWNEE	3.1	ML	OGS
5/28/2015 0:38	35.746	-97.389	5.778	LOGAN	3.0	ML	OGS
5/28/2015 12:00	36.136	-97.279	5.664	PAYNE	3.6	MW	OGS
5/31/2015 2:59	36.743	-98.234	4.885	ALFALFA	3.0	ML	OGS
5/31/2015 20:18	36.708	-98.652	4.869	WOODS	3.1	ML	OGS
6/1/2015 15:19	35.923	-97.337	5.973	LOGAN	3.1	ML	OGS
6/1/2015 17:35	35.788	-96.987	6.167	LINCOLN	3.4	MW	OGS
6/1/2015 19:19	35.788	-96.988	6.269	LINCOLN	3.4	ML	OGS
6/1/2015 21:31	35.786	-96.987	6.55	LINCOLN	3.3	ML	OGS
6/2/2015 0:45	36.305	-96.662	3.544	PAWNEE	3.1	ML	OGS
6/2/2015 4:18	36.263	-97.387	7.077	NOBLE	3.0	ML	OGS
6/2/2015 4:58	36.267	-98.537	8.433	MAJOR	3.0	ML	OGS
6/2/2015 6:45	36.944	-97.619	5	GRANT	3.0	ML	OGS
6/2/2015 7:55	36.952	-97.618	7.578	GRANT	3.7	MW	OGS
6/2/2015 21:34	35.788	-96.988	5.758	LINCOLN	3.7	ML	OGS
6/3/2015 5:28	35.787	-96.987	6.113	LINCOLN	3.6	ML	OGS
6/3/2015 5:55	35.789	-96.990	6.854	LINCOLN	3.0	ML	OGS
6/4/2015 0:17	36.802	-98.540	5	ALFALFA	3.2	ML	OGS
6/4/2015 10:49	36.515	-97.256	6.23	NOBLE	3.2	ML	OGS
6/4/2015 18:02	35.786	-96.988	6.06	LINCOLN	3.4	ML	OGS
6/5/2015 6:15	36.226	-97.222	4.887	NOBLE	3.0	ML	OGS
6/5/2015 13:28	36.319	-97.519	6.92	GARFIELD	3.0	ML	OGS
6/5/2015 17:57	36.664	-98.295	4.632	ALFALFA	3.3	ML	OGS
6/5/2015 18:31	36.166	-96.984	5.237	PAYNE	3.2	ML	OGS
6/5/2015 22:25	36.138	-97.287	5.518	PAYNE	3.1	ML	OGS
6/6/2015 15:55	36.252	-97.534	6.668	GARFIELD	3.0	ML	OGS
6/7/2015 12:56	36.944	-97.635	6.509	GRANT	3.1	ML	OGS
6/7/2015 17:15	35.677	-97.397	5	OKLAHOMA	3.5	ML	OGS
6/7/2015 20:20	36.851	-97.818	3.513	GRANT	3.0	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
6/8/2015 13:20	36.392	-98.655	4.027	MAJOR	3.7	MW	OGS
6/8/2015 21:36	36.282	-97.524	2.959	GARFIELD	3.9	MW	USGS
6/8/2015 21:41	36.280	-97.514	6.738	GARFIELD	3.4	ML	OGS
6/9/2015 1:26	36.286	-97.531	6.171	GARFIELD	3.8	MW	OGS
6/9/2015 19:47	36.743	-98.223	4.753	ALFALFA	3.3	ML	OGS
6/10/2015 13:05	36.288	-97.518	7.969	GARFIELD	3.7	ML	OGS
6/11/2015 2:25	36.624	-97.667	5	GRANT	3.0	ML	OGS
6/11/2015 10:18	36.293	-97.526	5.658	GARFIELD	3.2	ML	OGS
6/11/2015 22:55	36.872	-98.833	2.518	WOODS	3.0	ML	OGS
6/11/2015 23:29	36.285	-97.521	5.735	GARFIELD	3.6	ML	OGS
6/11/2015 23:29	36.286	-97.524	5.555	GARFIELD	3.6	ML	OGS
6/11/2015 23:31	36.283	-97.519	5.651	GARFIELD	3.7	MW	USGS
6/12/2015 4:21	36.812	-98.284	6.337	ALFALFA	3.1	ML	OGS
6/12/2015 4:38	36.292	-97.534	6.049	GARFIELD	3.8	ML	OGS
6/12/2015 22:35	35.558	-97.125	6.527	LINCOLN	3.5	ML	OGS
6/12/2015 22:42	36.301	-96.674	0.355	PAWNEE	4.0	ML	OGS
6/12/2015 23:20	36.296	-96.673	0.978	PAWNEE	3.4	ML	OGS
6/13/2015 6:40	36.297	-96.668	5	PAWNEE	3.1	ML	OGS
6/13/2015 7:33	36.503	-97.145	5.776	NOBLE	3.0	ML	OGS
6/13/2015 20:54	36.268	-97.386	7.12	NOBLE	3.7	ML	OGS
6/14/2015 5:57	36.288	-97.525	6.462	GARFIELD	3.2	ML	OGS
6/14/2015 18:17	36.286	-97.522	6.278	GARFIELD	4.0	MW	USGS
6/14/2015 19:10	36.292	-97.531	6.018	GARFIELD	3.4	ML	OGS
6/16/2015 2:20	36.303	-96.661	4.651	PAWNEE	3.2	ML	OGS
6/16/2015 3:59	36.511	-98.706	5	WOODS	3.1	ML	OGS
6/16/2015 15:35	36.516	-97.281	4.871	NOBLE	3.1	ML	OGS
6/17/2015 19:17	36.285	-97.523	6.008	GARFIELD	4.3	ML	OGS
6/17/2015 19:21	36.290	-97.541	6.433	GARFIELD	3.1	ML	OGS
6/18/2015 22:29	36.304	-96.676	5.015	PAWNEE	3.0	ML	OGS
6/18/2015 23:02	35.772	-97.482	7.019	LOGAN	3.0	ML	OGS
6/18/2015 23:10	35.774	-97.484	6.87	LOGAN	3.5	ML	OGS
6/18/2015 23:13	35.774	-97.486	6.411	LOGAN	3.2	ML	OGS
6/19/2015 3:07	36.295	-97.535	5.16	GARFIELD	3.0	ML	OGS
6/19/2015 13:16	36.296	-97.534	6.339	GARFIELD	3.1	ML	OGS
6/19/2015 16:23	36.125	-97.280	3.542	PAYNE	3.0	ML	OGS
6/19/2015 21:56	36.852	-98.276	5.774	ALFALFA	3.2	ML	OGS
6/20/2015 4:29	35.745	-97.392	5.649	LOGAN	3.6	ML	OGS
6/20/2015 4:36	35.745	-97.392	5.667	LOGAN	3.3	MW	OGS
6/20/2015 5:10	35.739	-97.387	3	LOGAN	4.0	MW	USGS
6/20/2015 5:23	35.746	-97.399	5.376	LOGAN	3.4	ML	OGS
6/20/2015 6:26	35.902	-97.261	4.929	LOGAN	3.1	ML	OGS
6/20/2015 6:46	35.742	-97.387	5	LOGAN	3.0	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
6/20/2015 10:56	35.747	-97.400	5.589	LOGAN	3.5	MW	OGS
6/20/2015 11:21	35.739	-97.384	5.35	LOGAN	3.6	MW	OGS
6/20/2015 11:59	36.288	-96.862	5	PAWNEE	3.3	ML	OGS
6/20/2015 15:50	36.294	-97.536	6.006	GARFIELD	3.0	ML	OGS
6/20/2015 21:07	35.743	-97.384	6.149	LOGAN	3.1	ML	OGS
6/20/2015 22:00	35.741	-97.382	5.918	LOGAN	3.0	ML	OGS
6/21/2015 0:58	35.747	-97.401	5.882	LOGAN	3.4	ML	OGS
6/21/2015 12:22	36.552	-97.184	6.496	NOBLE	3.0	ML	OGS
6/21/2015 12:25	36.553	-97.190	6.12	NOBLE	3.1	ML	OGS
6/21/2015 17:51	36.292	-96.860	5	PAWNEE	3.4	ML	OGS
6/21/2015 18:58	36.286	-97.520	6.33	GARFIELD	3.3	ML	OGS
6/22/2015 4:00	35.744	-97.384	6.181	LOGAN	3.7	ML	OGS
6/22/2015 4:05	35.743	-97.394	5.278	LOGAN	3.0	ML	OGS
6/22/2015 4:54	36.213	-97.562	5.625	GARFIELD	3.9	ML	OGS
6/22/2015 19:47	35.817	-97.446	4.854	LOGAN	3.5	ML	OGS
6/22/2015 19:47	35.817	-97.447	5.454	LOGAN	3.4	ML	OGS
6/22/2015 21:06	35.748	-97.399	5.854	LOGAN	3.5	MW	OGS
6/22/2015 21:09	35.750	-97.400	5	LOGAN	3.4	MW	OGS
6/22/2015 22:16	35.743	-97.388	5.534	LOGAN	3.9	MW	OGS
6/23/2015 17:37	36.688	-98.611	4.526	WOODS	3.4	ML	OGS
6/25/2015 6:03	36.731	-98.316	5.737	ALFALFA	3.1	ML	OGS
6/25/2015 12:54	35.819	-97.439	4.04	LOGAN	3.0	ML	OGS
6/26/2015 4:35	35.739	-97.388	4.856	LOGAN	3.5	MW	USGS
6/26/2015 5:54	35.742	-97.380	5	LOGAN	3.7	MW	OGS
6/26/2015 6:19	35.744	-97.377	5.752	LOGAN	3.3	MW	OGS
6/26/2015 10:18	36.101	-97.344	5	PAYNE	3.1	ML	OGS
6/26/2015 10:49	35.740	-97.379	4.8	LOGAN	3.4	ML	OGS
6/27/2015 0:56	36.852	-97.698	6.76	GRANT	3.2	ML	OGS
6/27/2015 2:38	35.877	-97.044	5	LINCOLN	3.0	ML	OGS
6/27/2015 3:31	36.746	-98.224	4.61	ALFALFA	3.5	MW	USGS
6/27/2015 13:03	36.537	-97.729	4.994	GARFIELD	3.0	ML	OGS
6/27/2015 20:09	36.945	-97.633	5.357	GRANT	3.0	ML	OGS
6/27/2015 22:49	36.591	-97.565	5.961	GARFIELD	3.1	ML	OGS
6/28/2015 1:35	36.678	-98.162	5	ALFALFA	3.4	MW	USGS
6/28/2015 14:37	36.289	-97.520	6.481	GARFIELD	3.3	ML	OGS
6/28/2015 15:36	36.079	-97.585	5.642	LOGAN	3.1	ML	OGS
6/28/2015 22:38	36.320	-96.823	3.41	PAWNEE	3.1	ML	OGS
6/29/2015 2:46	36.951	-97.691	5	GRANT	3.1	ML	OGS
6/29/2015 4:12	36.920	-97.863	0.165	GRANT	3.5	ML	OGS
6/30/2015 11:20	35.594	-97.373	4.319	OKLAHOMA	3.3	ML	OGS
6/30/2015 21:42	35.916	-97.313	5.079	LOGAN	3.2	ML	OGS
7/1/2015 17:15	36.091	-97.100	3.848	PAYNE	3.6	MW	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
7/1/2015 21:59	36.071	-97.437	5.508	LOGAN	3.3	ML	OGS
7/2/2015 18:31	36.711	-98.029	5	GRANT	3.0	ML	OGS
7/2/2015 20:28	36.421	-97.334	5	NOBLE	3.2	ML	OGS
7/2/2015 22:40	36.824	-97.720	4.914	GRANT	3.1	ML	OGS
7/3/2015 5:19	36.281	-97.519	5	GARFIELD	3.8	ML	OGS
7/3/2015 10:43	36.757	-97.565	6.445	GRANT	3.0	ML	OGS
7/4/2015 1:05	36.293	-96.861	3.842	PAWNEE	3.4	MW	USGS
7/4/2015 11:57	36.281	-97.516	5.699	GARFIELD	3.3	MW	USGS
7/4/2015 12:33	36.761	-97.557	5	GRANT	3.1	ML	OGS
7/4/2015 21:00	36.520	-98.475	3.151	ALFALFA	3.6	ML	OGS
7/6/2015 6:20	35.745	-97.376	5.581	LOGAN	3.3	ML	OGS
7/7/2015 10:53	35.744	-97.375	5	LOGAN	3.1	ML	OGS
7/8/2015 1:13	36.843	-97.883	5.499	GRANT	3.0	ML	OGS
7/8/2015 16:33	35.741	-97.383	6.21	LOGAN	3.4	ML	OGS
7/8/2015 17:52	36.806	-98.191	3.291	ALFALFA	3.0	ML	OGS
7/9/2015 6:45	35.666	-97.095	5	LINCOLN	3.0	ML	OGS
7/10/2015 9:58	36.522	-98.468	4.243	ALFALFA	3.5	ML	OGS
7/10/2015 23:09	36.662	-98.285	5.426	ALFALFA	4.3	ML	OGS
7/11/2015 0:56	36.289	-97.517	7.44	GARFIELD	3.6	ML	OGS
7/11/2015 1:21	36.294	-97.523	7.22	GARFIELD	3.1	ML	OGS
7/11/2015 9:23	36.025	-97.105	3.855	PAYNE	3.8	ML	OGS
7/11/2015 21:52	36.526	-98.465	5	ALFALFA	3.1	ML	OGS
7/12/2015 22:37	36.868	-98.009	5.425	GRANT	3.1	ML	OGS
7/14/2015 1:33	35.742	-97.576	6.169	LOGAN	3.4	ML	OGS
7/14/2015 8:22	34.978	-97.680	4.776	GRADY	3.5	ML	OGS
7/14/2015 10:58	35.817	-97.446	4.783	LOGAN	3.2	ML	OGS
7/15/2015 8:57	35.987	-97.565	4.136	LOGAN	3.7	ML	OGS
7/15/2015 17:10	36.443	-98.261	6.84	MAJOR	3.0	ML	OGS
7/17/2015 12:30	36.524	-98.465	4.632	ALFALFA	3.7	MW	OGS
7/17/2015 21:42	36.899	-97.655	5.841	GRANT	3.0	ML	OGS
7/17/2015 23:11	35.888	-96.894	5	LINCOLN	3.1	ML	OGS
7/20/2015 3:33	36.871	-97.895	3.961	GRANT	3.1	ML	OGS
7/20/2015 20:19	36.842	-98.259	4.079	ALFALFA	4.4	MW	US
7/20/2015 20:50	36.388	-96.860	5	PAWNEE	3.4	ML	OGS
7/20/2015 20:54	36.846	-98.252	5	ALFALFA	3.8	MW	OGS
7/21/2015 2:10	36.848	-98.259	3.909	ALFALFA	3.4	ML	OGS
7/21/2015 5:02	36.600	-97.689	5.696	GRANT	3.3	ML	OGS
7/21/2015 7:38	36.281	-97.459	1.106	NOBLE	3.0	ML	OGS
7/21/2015 8:46	36.282	-97.643	2.959	GARFIELD	3.4	ML	OGS
7/21/2015 9:04	36.840	-98.235	4.582	ALFALFA	3.1	ML	OGS
7/21/2015 9:08	36.834	-98.250	4.946	ALFALFA	3.5	ML	OGS
7/21/2015 11:16	36.837	-98.245	5	ALFALFA	3.6	MW	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
7/21/2015 13:10	36.284	-97.638	4.013	GARFIELD	3.0	ML	OGS
7/21/2015 13:10	36.283	-97.645	5.507	GARFIELD	3.1	ML	OGS
7/21/2015 18:24	36.837	-98.245	5.338	ALFALFA	3.5	ML	OGS
7/22/2015 1:19	36.846	-98.228	0.149	ALFALFA	3.2	ML	OGS
7/22/2015 10:48	36.600	-97.685	6.216	GRANT	3.2	ML	OGS
7/23/2015 12:20	36.344	-96.794	4.323	PAWNEE	3.3	ML	OGS
7/23/2015 13:28	36.340	-96.804	5	PAWNEE	3.3	ML	OGS
7/23/2015 17:33	35.448	-97.115	6.039	POTTAWATOMIE	3.0	ML	OGS
7/24/2015 12:31	36.615	-98.406	3.497	ALFALFA	3.9	ML	OGS
7/24/2015 16:01	36.296	-97.523	8.233	GARFIELD	3.1	ML	OGS
7/24/2015 16:21	36.842	-98.230	5.208	ALFALFA	3.1	ML	OGS
7/25/2015 4:10	36.605	-97.615	5.161	GRANT	3.2	ML	OGS
7/25/2015 4:49	36.159	-96.948	4.161	PAYNE	3.0	ML	OGS
7/25/2015 5:03	36.835	-98.246	4.172	ALFALFA	3.0	ML	OGS
7/25/2015 8:47	36.340	-96.820	1.296	PAWNEE	3.0	ML	OGS
7/25/2015 11:14	35.989	-97.566	4.269	LOGAN	3.8	MW	OGS
7/26/2015 6:59	35.988	-97.566	5.964	LOGAN	3.2	ML	OGS
7/26/2015 9:15	35.946	-96.780	5.053	PAYNE	3.0	ML	OGS
7/26/2015 9:54	35.989	-97.569	5.468	LOGAN	3.6	MW	OGS
7/26/2015 11:30	36.519	-98.999	5	WOODWARD	3.2	ML	OGS
7/26/2015 13:26	35.989	-97.565	5.635	LOGAN	3.6	ML	OGS
7/27/2015 9:25	36.835	-97.807	5	GRANT	3.2	ML	OGS
7/27/2015 12:31	35.989	-97.560	5.68	LOGAN	3.0	ML	OGS
7/27/2015 17:06	35.988	-97.561	5.647	LOGAN	3.4	ML	OGS
7/27/2015 17:49	35.991	-97.560	4.01	LOGAN	3.8	MW	OGS
7/27/2015 18:12	35.989	-97.572	5	LOGAN	4.5	MW	USGS
7/27/2015 19:27	35.988	-97.577	5	LOGAN	3.0	ML	OGS
7/28/2015 0:24	35.989	-97.579	4.658	LOGAN	3.5	ML	OGS
7/28/2015 1:18	35.991	-97.581	5.253	LOGAN	4.1	MW	OGS
7/28/2015 8:11	36.287	-97.516	7.414	GARFIELD	3.5	ML	OGS
7/28/2015 12:30	35.985	-97.556	4.536	LOGAN	3.3	ML	OGS
7/31/2015 1:39	35.980	-97.556	0.133	LOGAN	3.3	ML	OGS
7/31/2015 13:26	36.059	-97.250	2.195	PAYNE	3.3	ML	OGS
8/1/2015 20:28	36.684	-97.859	6.607	GRANT	3.2	MW	OGS
8/2/2015 14:43	36.765	-98.542	6.27	WOODS	3.0	ML	OGS
8/3/2015 22:08	36.689	-98.609	4.033	WOODS	3.1	ML	OGS
8/4/2015 8:58	36.836	-98.292	4.303	ALFALFA	3.2	ML	OGS
8/4/2015 18:16	36.838	-97.804	3.692	GRANT	3.4	ML	OGS
8/4/2015 22:54	35.795	-97.316	0.106	LOGAN	3.0	ML	OGS
8/5/2015 3:42	36.288	-97.522	7.627	GARFIELD	3.2	ML	OGS
8/5/2015 7:30	36.597	-97.691	6.704	GRANT	3.4	ML	OGS
8/5/2015 7:48	36.598	-97.692	6.021	GRANT	4.0	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
8/5/2015 12:01	36.831	-97.801	2.567	GRANT	3.5	ML	OGS
8/5/2015 12:03	36.831	-97.796	2.881	GRANT	3.3	ML	OGS
8/5/2015 13:07	35.921	-97.335	5.448	LOGAN	3.2	ML	OGS
8/5/2015 14:23	36.285	-97.517	6.994	GARFIELD	3.1	MW	OGS
8/5/2015 15:55	36.659	-97.724	8.782	GRANT	3.0	ML	OGS
8/5/2015 23:09	36.630	-97.812	3.062	GRANT	3.3	ML	OGS
8/6/2015 3:51	36.535	-97.840	4.69	GARFIELD	3.1	ML	OGS
8/7/2015 3:04	35.437	-96.514	2.912	OKFUSKEE	3.0	ML	OGS
8/7/2015 14:51	36.694	-98.667	2.407	WOODS	3.1	ML	OGS
8/7/2015 18:50	36.929	-97.686	3.39	GRANT	3.0	ML	OGS
8/7/2015 21:43	35.937	-97.075	4.663	LINCOLN	3.0	ML	OGS
8/8/2015 1:48	36.200	-96.754	4.327	PAWNEE	3.3	ML	OGS
8/9/2015 2:56	35.439	-97.109	6.89	POTTAWATOMIE	3.6	ML	OGS
8/9/2015 7:05	36.835	-97.797	0.672	GRANT	3.5	ML	OGS
8/9/2015 16:26	36.789	-98.265	4.936	ALFALFA	3.1	ML	OGS
8/10/2015 1:44	36.930	-97.682	0.113	GRANT	3.0	ML	OGS
8/10/2015 17:39	36.677	-98.152	5.705	ALFALFA	3.5	ML	OGS
8/11/2015 4:49	36.621	-97.811	5	GRANT	3.0	ML	OGS
8/11/2015 10:23	36.893	-97.682	2.348	GRANT	3.0	ML	OGS
8/13/2015 0:36	36.817	-97.617	4.842	GRANT	3.0	ML	OGS
8/13/2015 4:15	36.278	-97.520	5.401	GARFIELD	3.4	ML	OGS
8/13/2015 13:59	35.745	-97.389	5	LOGAN	3.4	ML	OGS
8/13/2015 14:48	35.746	-97.390	6.15	LOGAN	3.1	ML	OGS
8/13/2015 17:15	36.848	-97.880	5	GRANT	3.3	ML	OGS
8/13/2015 20:02	36.066	-97.207	4.778	PAYNE	3.6	ML	OGS
8/14/2015 21:25	36.831	-97.801	0.091	GRANT	4.4	ML	OGS
8/15/2015 3:34	36.481	-98.918	6.467	MAJOR	3.2	ML	OGS
8/15/2015 12:36	35.984	-97.551	5.372	LOGAN	3.0	ML	OGS
8/16/2015 0:00	36.843	-97.822	3.382	GRANT	3.0	ML	OGS
8/16/2015 8:49	36.840	-97.823	4.25	GRANT	3.4	ML	OGS
8/16/2015 11:06	36.931	-97.680	2.167	GRANT	3.1	ML	OGS
8/17/2015 10:57	36.896	-97.686	1.516	GRANT	3.3	ML	OGS
8/17/2015 11:53	35.336	-96.670	5.37	SEMINOLE	3.3	ML	OGS
8/18/2015 4:40	36.292	-97.533	6.843	GARFIELD	3.3	ML	OGS
8/19/2015 23:13	36.551	-98.462	5.227	ALFALFA	3.3	ML	OGS
8/20/2015 0:47	36.844	-98.269	4.001	ALFALFA	4.1	ML	OGS
8/20/2015 0:49	36.848	-98.255	3.933	ALFALFA	3.5	ML	OGS
8/20/2015 8:28	36.291	-97.525	6.982	GARFIELD	3.6	ML	OGS
8/22/2015 8:46	36.842	-97.827	5.256	GRANT	3.8	MW	USGS
8/23/2015 4:30	36.765	-98.540	2.12	WOODS	3.4	ML	OGS
8/23/2015 13:53	36.280	-97.518	7.421	GARFIELD	3.1	ML	OGS
8/23/2015 15:00	36.597	-97.698	6.835	GRANT	3.3	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
8/23/2015 16:21	36.030	-97.119	5.773	PAYNE	3.5	ML	OGS
8/24/2015 16:09	35.829	-97.406	5.767	LOGAN	3.0	ML	OGS
8/25/2015 3:34	36.005	-97.103	2.442	PAYNE	3.1	ML	OGS
8/25/2015 12:18	36.856	-97.399	5.381	KAY	3.0	ML	OGS
8/25/2015 12:59	36.034	-97.120	3.263	PAYNE	3.8	ML	OGS
8/26/2015 5:05	36.277	-97.267	4.469	NOBLE	3.2	ML	OGS
8/26/2015 7:33	36.884	-98.134	0	ALFALFA	3.4	ML	OGS
8/26/2015 7:41	36.937	-97.684	5	GRANT	3.0	ML	OGS
8/27/2015 0:56	36.850	-97.698	4.476	GRANT	3.0	ML	OGS
8/28/2015 22:05	36.076	-97.581	5.228	LOGAN	3.3	ML	OGS
8/29/2015 0:36	36.031	-97.121	5.016	PAYNE	3.1	ML	OGS
8/30/2015 1:08	36.638	-97.645	5.383	GRANT	3.0	ML	OGS
8/30/2015 6:16	36.505	-99.057	0.876	WOODWARD	3.1	ML	OGS
8/30/2015 8:27	36.807	-98.345	4.677	ALFALFA	3.5	ML	OGS
8/30/2015 12:19	35.675	-97.399	6.009	OKLAHOMA	3.7	ML	OGS
8/31/2015 1:04	35.746	-97.359	5	LOGAN	3.0	ML	OGS
8/31/2015 14:44	36.785	-98.454	0.123	ALFALFA	3.5	ML	OGS
9/1/2015 9:43	35.949	-96.784	3.892	PAYNE	3.4	ML	OGS
9/1/2015 18:00	35.951	-96.780	4.102	PAYNE	3.0	ML	OGS
9/2/2015 13:50	36.488	-98.511	4.381	ALFALFA	3.8	ML	OGS
9/2/2015 14:01	35.949	-96.781	3.672	PAYNE	3.3	MW	OGS
9/2/2015 23:52	36.939	-98.018	5.589	GRANT	3.0	MW	OGS
9/8/2015 3:34	36.529	-98.492	4.592	ALFALFA	3.0	ML	OGS
9/8/2015 21:26	36.178	-97.486	5.819	GARFIELD	3.3	ML	OGS
9/9/2015 3:42	36.182	-97.498	3.473	GARFIELD	3.4	MW	OGS
9/10/2015 1:05	36.181	-97.486	5.638	GARFIELD	3.3	ML	OGS
9/10/2015 18:41	36.030	-97.122	5.336	PAYNE	3.1	ML	OGS
9/10/2015 19:26	36.903	-97.682	6.56	GRANT	3.8	ML	OGS
9/12/2015 10:55	35.985	-97.562	6.369	LOGAN	3.2	ML	OGS
9/12/2015 13:47	35.744	-97.355	6.457	LOGAN	3.1	ML	OGS
9/14/2015 0:04	36.069	-97.439	5.387	LOGAN	3.2	ML	OGS
9/14/2015 2:06	36.071	-97.439	5.197	LOGAN	3.1	ML	OGS
9/14/2015 7:04	36.278	-97.512	6.851	GARFIELD	3.1	ML	OGS
9/14/2015 17:25	35.744	-97.355	5.391	LOGAN	3.3	ML	OGS
9/15/2015 2:12	36.073	-97.441	2.087	LOGAN	3.0	ML	OGS
9/15/2015 13:58	35.513	-97.303	6.372	OKLAHOMA	3.0	ML	OGS
9/15/2015 16:28	35.671	-97.415	3.076	OKLAHOMA	3.1	ML	OGS
9/15/2015 22:57	36.482	-98.937	6.273	MAJOR	3.4	ML	OGS
9/15/2015 23:45	36.482	-98.921	5	MAJOR	3.6	ML	OGS
9/16/2015 2:30	35.978	-96.795	4.019	PAYNE	3.7	MW	USGS
9/16/2015 4:48	36.475	-98.949	10.742	MAJOR	3.7	MW	USGS
9/16/2015 12:09	36.329	-96.789	3.093	PAWNEE	3.5	ML	OGS

**Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)**

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
9/16/2015 15:17	36.333	-96.792	5	PAWNEE	3.3	ML	OGS
9/16/2015 19:34	36.280	-97.513	9.424	GARFIELD	3.0	ML	OGS
9/17/2015 15:03	36.843	-97.811	4.889	GRANT	3.1	ML	OGS
9/18/2015 9:16	35.991	-96.794	5	PAYNE	3.5	ML	OGS
9/18/2015 9:33	35.983	-96.796	4.327	PAYNE	3.0	ML	OGS
9/18/2015 12:35	35.989	-96.796	0.208	PAYNE	4.1	MW	USGS
9/18/2015 13:10	36.278	-97.509	6.779	GARFIELD	3.0	ML	OGS
9/18/2015 23:51	36.833	-97.799	1.105	GRANT	3.2	ML	OGS
9/19/2015 4:20	36.333	-96.791	5	PAWNEE	3.1	ML	OGS
9/19/2015 5:16	35.986	-96.796	4.573	PAYNE	3.0	ML	OGS
9/19/2015 5:20	35.988	-96.796	4.478	PAYNE	3.1	ML	OGS
9/20/2015 13:06	35.984	-96.806	4.789	PAYNE	3.2	ML	OGS
9/20/2015 21:39	35.901	-97.255	5	LOGAN	3.1	ML	OGS
9/21/2015 2:48	36.269	-98.517	0.78	MAJOR	3.1	ML	OGS
9/21/2015 19:50	36.266	-98.531	6.167	MAJOR	3.5	MW	OGS
9/22/2015 6:33	36.291	-98.190	4.924	MAJOR	3.6	ML	OGS
9/22/2015 12:29	36.280	-97.512	4.629	GARFIELD	3.0	ML	OGS
9/23/2015 4:05	35.594	-97.403	5.571	OKLAHOMA	3.1	ML	OGS
9/24/2015 8:29	36.740	-98.362	7.733	ALFALFA	3.2	ML	OGS
9/25/2015 1:16	35.987	-96.787	2.893	PAYNE	4.2	ML	OGS
9/25/2015 1:59	35.993	-96.790	0.488	PAYNE	3.3	ML	OGS
9/25/2015 6:02	36.527	-98.458	0.799	ALFALFA	3.4	ML	OGS
9/25/2015 22:30	36.266	-98.534	7.105	MAJOR	3.2	ML	OGS
9/27/2015 3:46	36.518	-98.979	5	WOODWARD	3.0	ML	OGS
9/27/2015 13:42	36.903	-97.910	3.903	GRANT	3.0	ML	OGS
9/27/2015 21:59	35.986	-96.797	5.097	PAYNE	3.6	ML	OGS
9/28/2015 12:58	36.841	-98.245	4.467	ALFALFA	3.0	ML	OGS
9/29/2015 12:40	36.628	-98.214	6.186	ALFALFA	3.1	ML	OGS
9/29/2015 23:17	36.627	-98.212	6.147	ALFALFA	3.3	ML	OGS
9/30/2015 8:28	36.715	-98.446	4.911	ALFALFA	3.3	ML	OGS
10/1/2015 5:56	36.252	-97.227	5.983	NOBLE	3.9	ML	OGS
10/1/2015 7:47	36.254	-97.234	7.993	NOBLE	3.2	ML	OGS
10/2/2015 5:58	36.627	-98.214	6.41	ALFALFA	3.7	ML	OGS
10/2/2015 6:25	36.341	-97.049	2.956	NOBLE	3.1	ML	OGS
10/2/2015 12:57	35.800	-96.681	4.475	LINCOLN	3.2	ML	OGS
10/4/2015 19:53	36.636	-98.194	6.095	ALFALFA	3.0	ML	OGS
10/5/2015 6:52	36.767	-98.180	6.282	ALFALFA	3.4	ML	OGS
10/5/2015 6:53	36.777	-98.190	6.033	ALFALFA	3.6	MW	OGS
10/6/2015 12:05	36.267	-97.341	4.499	NOBLE	3.4	ML	OGS
10/6/2015 20:39	36.936	-98.036	4.974	GRANT	3.0	ML	OGS
10/7/2015 11:48	36.118	-97.304	5.982	PAYNE	3.0	ML	OGS
10/7/2015 22:38	36.366	-97.451	7.571	NOBLE	3.0	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
10/8/2015 2:45	35.992	-96.791	5	PAYNE	3.0	ML	OGS
10/9/2015 9:13	35.936	-96.774	3.565	LINCOLN	3.1	ML	OGS
10/9/2015 21:57	36.491	-98.723	2.342	WOODS	3.4	ML	OGS
10/10/2015 0:20	36.841	-97.815	5.819	GRANT	3.4	ML	OGS
10/10/2015 3:08	36.357	-97.374	7.955	NOBLE	3.1	ML	OGS
10/10/2015 9:20	36.719	-97.931	5.629	GRANT	4.3	MW	OGS
10/10/2015 15:20	36.723	-97.930	5.716	GRANT	3.6	ML	OGS
10/10/2015 22:03	35.986	-96.803	3.274	PAYNE	4.3	MW	USGS
10/10/2015 22:07	35.986	-96.798	4.694	PAYNE	3.1	ML	OGS
10/10/2015 22:20	35.990	-96.783	4.474	PAYNE	3.0	ML	OGS
10/10/2015 23:43	35.979	-96.819	4.571	PAYNE	3.3	ML	OGS
10/11/2015 8:49	36.591	-98.387	5	ALFALFA	3.3	ML	OGS
10/11/2015 10:27	36.321	-97.557	7.824	GARFIELD	3.5	MW	USGS
10/12/2015 8:29	36.761	-98.069	6.378	GRANT	3.3	ML	OGS
10/12/2015 9:33	36.284	-97.504	5	GARFIELD	3.2	ML	OGS
10/12/2015 14:11	36.329	-96.776	5.697	PAWNEE	3.0	ML	OGS
10/12/2015 17:11	36.569	-97.099	4.868	NOBLE	3.0	ML	OGS
10/12/2015 22:52	36.574	-97.094	7.696	NOBLE	3.4	ML	OGS
10/13/2015 18:51	36.278	-97.512	8.378	GARFIELD	3.2	ML	OGS
10/14/2015 2:18	35.998	-96.770	0.445	PAYNE	3.1	ML	OGS
10/14/2015 22:27	36.075	-97.582	4.494	LOGAN	3.4	ML	OGS
10/14/2015 23:56	36.347	-96.775	5	PAWNEE	3.0	ML	OGS
10/15/2015 6:50	35.857	-97.346	4.847	LOGAN	3.5	ML	OGS
10/15/2015 7:32	36.182	-97.367	6.512	NOBLE	3.1	ML	OGS
10/15/2015 11:28	36.759	-98.069	6.489	GRANT	3.0	ML	OGS
10/17/2015 10:15	35.977	-96.821	4.29	PAYNE	3.0	ML	OGS
10/18/2015 3:12	35.853	-97.350	5.822	LOGAN	3.3	ML	OGS
10/18/2015 5:07	35.853	-97.349	5.582	LOGAN	3.1	ML	OGS
10/19/2015 4:55	36.735	-97.840	5.648	GRANT	3.7	ML	OGS
10/19/2015 5:22	36.760	-98.069	4.089	GRANT	3.2	ML	OGS
10/19/2015 15:42	36.899	-97.653	5	GRANT	3.2	ML	OGS
10/22/2015 1:33	36.939	-98.021	5.904	GRANT	3.1	ML	OGS
10/24/2015 5:57	36.783	-97.544	5.562	GRANT	3.2	ML	OGS
10/24/2015 21:13	36.830	-97.793	5.308	GRANT	3.2	ML	OGS
10/24/2015 22:08	36.830	-97.788	5.446	GRANT	3.5	ML	OGS
10/25/2015 5:05	36.186	-98.811	7.132	MAJOR	3.0	ML	OGS
10/26/2015 6:34	36.366	-97.701	5	GARFIELD	3.4	ML	OGS
10/27/2015 9:13	36.829	-97.789	2.531	GRANT	3.4	ML	OGS
10/27/2015 10:49	36.214	-97.571	5	GARFIELD	3.0	ML	OGS
10/27/2015 15:44	36.176	-97.387	4.798	NOBLE	3.1	ML	OGS
10/27/2015 21:03	36.655	-98.719	3.516	WOODS	3.3	ML	OGS
10/28/2015 11:59	36.702	-97.697	0.106	GRANT	3.1	ML	OGS

**Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)**

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
10/29/2015 1:20	35.862	-97.355	3.84	LOGAN	3.5	ML	OGS
10/29/2015 5:26	36.134	-97.303	1.936	PAYNE	3.3	ML	OGS
10/29/2015 5:43	36.426	-97.340	1.102	NOBLE	3.0	ML	OGS
10/30/2015 11:37	35.856	-97.355	5.828	LOGAN	3.2	ML	OGS
10/30/2015 16:52	36.780	-98.652	1.61	WOODS	3.1	ML	OGS
10/30/2015 20:20	36.074	-97.574	4.677	LOGAN	3.8	ML	OGS
10/30/2015 21:37	36.735	-98.752	4.242	WOODS	3.3	ML	OGS
10/31/2015 6:14	35.987	-96.798	4.66	PAYNE	3.5	ML	OGS
11/2/2015 16:57	35.920	-97.331	5.373	LOGAN	4.0	MW	OGS
11/2/2015 17:35	35.918	-97.330	7.158	LOGAN	3.7	ML	OGS
11/2/2015 17:44	35.925	-97.332	1.443	LOGAN	3.0	ML	OGS
11/3/2015 16:22	36.767	-98.079	5.864	GRANT	3.2	ML	OGS
11/3/2015 16:32	35.913	-97.242	6.601	LOGAN	3.3	ML	OGS
11/3/2015 17:55	36.321	-97.552	3.917	GARFIELD	3.1	ML	OGS
11/4/2015 2:48	36.297	-97.174	9.759	NOBLE	3.0	ML	OGS
11/4/2015 15:16	36.944	-97.846	2.888	GRANT	3.2	ML	OGS
11/4/2015 16:38	36.945	-97.841	2.642	GRANT	3.1	ML	OGS
11/6/2015 0:31	36.947	-97.853	4.68	GRANT	3.0	ML	OGS
11/7/2015 5:30	36.424	-97.336	5	NOBLE	3.0	ML	OGS
11/7/2015 11:11	36.953	-97.855	5	GRANT	4.1	MW	USGS
11/7/2015 11:31	36.950	-97.836	4.856	GRANT	3.0	ML	OGS
11/7/2015 18:29	36.947	-97.837	3.905	GRANT	3.8	MW	OGS
11/7/2015 18:40	36.948	-97.837	5	GRANT	3.1	ML	OGS
11/7/2015 19:20	36.944	-97.843	5	GRANT	3.1	ML	OGS
11/7/2015 19:27	36.655	-98.717	3.159	WOODS	3.0	ML	OGS
11/7/2015 20:10	36.940	-97.833	1.109	GRANT	3.0	ML	OGS
11/7/2015 21:07	36.624	-97.721	4.963	GRANT	3.4	ML	OGS
11/7/2015 22:13	36.950	-97.839	3.207	GRANT	3.5	ML	OGS
11/7/2015 23:43	36.944	-97.840	4.734	GRANT	3.6	ML	OGS
11/8/2015 4:04	36.951	-97.838	3.666	GRANT	3.5	ML	OGS
11/8/2015 8:29	36.947	-97.836	2.954	GRANT	3.4	ML	OGS
11/8/2015 19:59	35.980	-96.818	4.192	PAYNE	3.5	ML	OGS
11/9/2015 6:17	36.849	-97.689	5	GRANT	3.0	ML	OGS
11/9/2015 10:18	36.760	-98.077	6.516	GRANT	3.7	ML	OGS
11/10/2015 1:37	36.319	-97.554	6.25	GARFIELD	3.5	ML	OGS
11/10/2015 8:23	36.754	-98.079	6.1	GRANT	3.5	ML	OGS
11/10/2015 13:11	36.472	-98.752	2.091	WOODS	3.2	ML	OGS
11/10/2015 13:36	35.983	-96.807	4.339	PAYNE	3.2	MW	OGS
11/10/2015 14:02	36.949	-97.835	0.113	GRANT	3.7	ML	OGS
11/10/2015 19:13	36.944	-97.823	3.434	GRANT	3.5	ML	OGS
11/10/2015 19:16	36.945	-97.826	5	GRANT	3.0	ML	OGS
11/10/2015 23:12	36.672	-97.733	5.015	GRANT	3.1	ML	OGS

Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
11/11/2015 1:39	36.947	-97.826	2.143	GRANT	3.7	MW	OGS
11/11/2015 1:46	36.948	-97.808	1.118	GRANT	3.0	ML	OGS
11/11/2015 10:38	36.695	-98.262	6.004	ALFALFA	3.4	ML	OGS
11/11/2015 14:54	35.674	-97.400	5.986	OKLAHOMA	3.4	ML	OGS
11/12/2015 9:24	35.920	-97.340	5.495	LOGAN	3.0	ML	OGS
11/12/2015 10:48	36.966	-97.849	5.457	GRANT	3.0	ML	OGS
11/13/2015 1:51	36.952	-97.831	2.703	GRANT	3.4	ML	OGS
11/13/2015 20:47	36.694	-98.261	6.218	ALFALFA	3.1	ML	OGS
11/14/2015 16:40	36.199	-97.488	6.399	GARFIELD	3.1	ML	OGS
11/15/2015 9:45	36.469	-98.755	5.109	WOODS	4.3	MW	OGS
11/17/2015 16:50	36.369	-97.131	3.339	NOBLE	3.1	ML	OGS
11/18/2015 3:22	36.776	-97.762	6.033	GRANT	3.2	ML	OGS
11/18/2015 12:08	36.118	-97.640	4.858	LOGAN	3.4	MW	OGS
11/19/2015 3:34	36.283	-97.710	5.834	GARFIELD	3.0	ML	OGS
11/19/2015 7:42	36.660	-98.459	5.917	ALFALFA	4.7	MW	USGS
11/19/2015 9:46	36.656	-98.461	10.294	ALFALFA	3.2	ML	OGS
11/19/2015 12:03	36.656	-98.468	7.009	ALFALFA	3.7	MW	OGS
11/19/2015 13:25	36.071	-97.584	4.87	LOGAN	3.2	ML	OGS
11/19/2015 14:24	36.077	-97.573	4.488	LOGAN	3.6	MW	OGS
11/20/2015 6:12	36.654	-98.472	6.69	ALFALFA	3.7	ML	OGS
11/20/2015 8:06	36.513	-98.610	4.934	WOODS	3.4	ML	OGS
11/20/2015 11:22	36.656	-98.476	2.323	ALFALFA	3.5	ML	OGS
11/20/2015 12:07	36.655	-98.465	5.727	ALFALFA	3.0	ML	OGS
11/20/2015 15:42	36.514	-98.609	5	WOODS	3.3	ML	OGS
11/20/2015 21:11	36.761	-98.075	6.697	GRANT	3.4	ML	OGS
11/20/2015 22:40	36.948	-97.828	5	GRANT	4.1	MW	USGS
11/20/2015 22:55	36.941	-97.826	3.555	GRANT	3.5	MW	OGS
11/20/2015 23:09	36.662	-98.461	7.995	ALFALFA	3.4	ML	OGS
11/22/2015 8:12	36.660	-98.459	6.981	ALFALFA	3.0	ML	OGS
11/23/2015 18:31	36.653	-98.478	7.427	ALFALFA	3.2	ML	OGS
11/23/2015 21:17	36.838	-98.276	5.028	ALFALFA	4.4	MW	USGS
11/23/2015 21:36	36.833	-98.291	4.266	ALFALFA	3.4	MW	OGS
11/24/2015 0:54	36.818	-98.285	5.517	ALFALFA	3.5	ML	OGS
11/24/2015 1:13	36.813	-98.276	6.835	ALFALFA	3.1	ML	OGS
11/24/2015 2:47	36.815	-98.277	5.942	ALFALFA	3.0	ML	OGS
11/25/2015 0:43	36.839	-98.269	4.864	ALFALFA	3.7	ML	OGS
11/25/2015 14:02	36.945	-97.812	4.103	GRANT	3.3	ML	OGS
11/25/2015 17:57	35.864	-96.873	5.213	LINCOLN	3.0	ML	OGS
11/26/2015 0:32	36.947	-97.814	5.439	GRANT	3.3	ML	OGS
11/26/2015 0:56	36.946	-97.811	4.784	GRANT	3.7	ML	OGS
11/26/2015 5:06	36.332	-97.726	5.438	GARFIELD	3.1	ML	OGS
11/26/2015 5:14	36.330	-97.732	5.466	GARFIELD	3.0	ML	OGS

**Table 2-2
Historical Earthquakes in Oklahoma Greater than 3.0 Magnitude
(As of October 22, 2015)**

Date and Time	Latitude	Longitude	Depth (Km)	County	Magnitude	pmag_type	Data Source
11/26/2015 9:04	36.382	-98.279	2.752	MAJOR	3.0	ML	OGS
11/26/2015 9:08	36.956	-97.826	6.286	GRANT	3.2	ML	OGS
11/29/2015 10:17	36.508	-99.029	6.333	WOODWARD	3.0	ML	OGS
11/30/2015 9:49	36.760	-98.042	2.271	GRANT	4.4	MW	OGS
11/30/2015 9:49	36.751	-98.056	5.629	GRANT	4.5	MW	OGS
11/30/2015 9:49	36.760	-98.053	2.03	GRANT	4.5	MW	OGS
11/30/2015 11:50	35.668	-97.395	5.448	OKLAHOMA	3.2	ML	OGS
11/30/2015 13:00	36.281	-97.507	11.418	GARFIELD	3.2	ML	OGS
11/30/2015 19:47	36.346	-99.216	2.981	WOODWARD	3.3	ML	OGS
11/30/2015 21:28	36.944	-97.831	5.264	GRANT	3.6	ML	OGS
12/1/2015 0:46	36.656	-98.464	7.922	ALFALFA	3.2	ML	OGS
12/1/2015 17:34	36.507	-98.711	1.255	WOODS	3.1	ML	OGS
12/1/2015 17:36	36.735	-98.749	3.18	WOODS	3.0	ML	OGS
12/2/2015 6:20	36.759	-98.066	6.77	GRANT	3.1	ML	OGS
12/2/2015 19:40	36.827	-98.284	5.307	ALFALFA	3.4	ML	OGS
12/4/2015 0:27	36.761	-98.052	6.714	GRANT	3.6	ML	OGS
12/4/2015 5:08	36.831	-98.274	4.986	ALFALFA	3.7	ML	OGS
12/4/2015 15:17	36.764	-98.055	6.234	GRANT	3.1	ML	OGS
10/22/1882 22:15:3	34.000	-96.000		BRYAN	4.9	MFA	USGS

Notes:

OGS - Oklahoma Geological Survey

USGS - United States Geological Survey

Km - kilometers

Source: Oklahoma Geological Survey's Seismic Monitoring Program

<http://www.okgeosurvey1.gov/pages/earthquakes/recent-earthquakes.php>