

Historical Earthquakes within 100 miles of CBR site¹

| Date | Time | Latitude | Longitude | Depth ² (km) | Magnitude | Approximate distance from CBR site | |
|------------|----------|----------|-----------|----------------------------|-----------|---------------------------------------|-----|
| | | | | | | Miles | km |
| 10/11/1895 | 23:55:00 | 43.9 | -103.3 | 0 | 3.4 | 85 | 137 |
| 7/14/1920 | 23:00:00 | 43.2 | -103.2 | 0 | 3.2 | 37 | 60 |
| 12/30/1924 | 22:10:00 | 43.5 | -103.5 | 0 | 3.6 | 58 | 93 |
| 8/8/1933 | 0:00:00 | 41.9 | -103.7 | 0 | 3.0 | 56 | 91 |
| 7/30/1934 | 7:20:00 | 42.7 | -103 | 0 | 4.1 | 17 | 27 |
| 10/30/1936 | 10:30:00 | 43.5 | -103.5 | 0 | 2.7 | 58 | 93 |
| 3/24/1938 | 13:11:00 | 42.7 | -103.4 | 0 | 3.3 | 4.1 | 6.7 |
| 5/25/1941 | 6:25:00 | 43.5 | -103.5 | 0 | 3.7 | 58 | 93 |
| 2/25/1942 | 14:15:00 | 42.5 | -104.4 | 0 | 3.3 | 56 | 89 |
| 5/16/1943 | 19:40:00 | 43.5 | -103.5 | 0 | 2.7 | 58 | 93 |
| 11/15/1952 | 0:00:00 | 44.1 | -103.5 | 0 | 2.7 | 99 | 160 |
| 3/24/1964 | 6:12:00 | 43.5 | -103.5 | 0 | 3.4 | 58 | 93 |
| 3/28/1964 | 3:00:00 | 42.7 | -104.1 | 0 | 3.3 | 39 | 63 |
| 3/28/1964 | 10:08:47 | 43.0 | -101.8 | 30 | 4.8 | 81 | 130 |
| 8/22/1964 | 3:28:11 | 42.9 | -104.7 | 0 | 3.8 | 71 | 115 |
| 8/26/1964 | 16:58:55 | 43.77 | -102.25 | 20 | 3.4 | 94 | 151 |
| 5/16/1975 | 5:57:01 | 43.2 | -103.7 | 0 | 2.7 | 41 | 66 |
| 8/25/1975 | 10:00:35 | 42.57 | -101.55 | 29 | 2.6 | 91 | 146 |
| 5/7/1978 | 16:06:23 | 42.26 | -101.95 | 38 | 3.7 | 76 | 122 |
| 9/13/1981 | 22:16:30 | 43.04 | -101.85 | 5.0 | 3.2 | 79 | 128 |

¹ Sources: NUREG-2115, Vol. 4, Appendix B (Earthquake Catalog) (1895 through 2008), USGS Advanced National Seismic System (ANSS) Catalog (2009 to present).

² Depth value of zero indicates that depth was not reported.

| Date | Time | Latitude | Longitude | Depth ² (km) | Magnitude | Approximate distance from CBR site | |
|------------|----------|----------|-----------|----------------------------|-----------|---------------------------------------|-----|
| | | | | | | Miles | km |
| 5/6/1983 | 6:14:47 | 42.955 | -102.198 | 5.0 | 3.0 | 61 | 98 |
| 1/1/1987 | 8:02:24 | 42.788 | -103.482 | 5.0 | 3.1 | 11 | 18 |
| 2/9/1989 | 5:15:46 | 42.685 | -101.898 | 5.0 | 3.5 | 73 | 117 |
| 1/28/1990 | 4:59:59 | 43.313 | -102.504 | 5.0 | 3.7 | 61 | 98 |
| 11/2/1992 | 6:54:10 | 42.74 | -104.389 | 5.0 | 2.9 | 54 | 87 |
| 2/20/1993 | 13:08:10 | 42.83 | -101.461 | 5.0 | 3.2 | 95 | 154 |
| 3/18/1994 | 22:51:43 | 43.4 | -103.5 | 5.0 | 2.5 | 51 | 82 |
| 2/6/1996 | 16:08:37 | 43.981 | -103.729 | 5.0 | 3.5 | 93 | 149 |
| 4/9/1996 | 2:48:08 | 43.069 | -104.102 | 5.0 | 3.2 | 48 | 77 |
| 6/18/1998 | 16:26:38 | 42.622 | -103.003 | 5.0 | 3.1 | 17 | 27 |
| 5/25/2003 | 7:32:33 | 43.087 | -101.794 | 5.0 | 3.9 | 83 | 134 |
| 1/5/2004 | 2:53:17 | 43.598 | -103.995 | 5.0 | 2.5 | 72 | 117 |
| 9/7/2006 | 6:23:20 | 42.977 | -102.236 | 5.0 | 2.3 | 59 | 96 |
| 4/24/2007 | 9:35:01 | 42.58 | -102.94 | 5.0 | 2.4 | 21 | 33 |
| 8/22/2008 | 23:01:32 | 43.075 | -104.289 | 5.0 | 2.8 | 56 | 90 |
| 11/3/2008 | 13:14:12 | 42.83 | -105.18 | 5.0 | 3.5 | 94 | 152 |
| 3/10/2011 | 1:38:14 | 42.861 | -104.087 | 5.0 | 2.9 | 41 | 65 |
| 11/14/2011 | 6:51:38 | 43.043 | -103.415 | 5.0 | 4.0 | 26 | 42 |
| 11/15/2011 | 9:31:46 | 43.05 | -103.504 | 5.0 | 3.3 | 28 | 45 |
| 11/19/2011 | 8:28:04 | 42.911 | -103.082 | 5.0 | 2.8 | 21 | 34 |
| 1/16/2012 | 13:41:10 | 43.487 | -102.996 | 5.0 | 3.0 | 59 | 95 |
| 10/18/2012 | 5:21:11 | 42.212 | -101.951 | 5.0 | 3.6 | 77 | 124 |
| 12/12/2013 | 9:43:20 | 43.818 | -103.318 | 4.9 | 3.5 | 79 | 128 |

Number of Earthquakes of Different Magnitudes within 100 mi of CBR facility

