

Table E.5-3 Earthquakes in Wyoming and South Dakota Within 125 miles of City of Crawford, NE (1992 – 2009)

Date	Location	Latitude	Longitude	Depth (km)^a	Richter Magnitude^b	Modified Mercalli Intensity^b	Source
WYOMING							
8/29/2004	10 miles NW of Douglas, WY	42 54 05 38 N	105 30 33 39 W	5 (3.1 miles)	3.8	III	A
2/15/2004	12 miles N of Douglas, WY	42 56 27 51 N	105 24 12 32 W	10 (6.2 miles)	3.5	II - III	A
4/09/1996	5 miles SE of Redbird, WY	43 03 43 28 N	104 05 54 17 W	5 (3.1 miles)	3.7	III	A
12/13/1993	9 miles SW of Esterbrook, WY	42 20 11 47 N	105 30 04 15 W	5 (3.1 miles)	3.5	II - III	A
10/10/1993	26 miles W of Esterbrook, WY	42 25 25 99 N	105 52 21 90 W	5 (3.1 miles)	3.7	III	A
7/23/1993	18 miles WNW of Esterbrook, WY	42 28 34 03 N	105 42 18 29 W	5 (3.1 miles)	3.7	III	A
6/30/1993	15 miles N of Douglas, WY	42 59 02 58 N	105 22 48 50 W	5 (3.1 miles)	3.0	II	A
2/24/1993	11 miles SE of Wright, WY	43 42 46 50	105 17 20 18 W	0	3.6	III	A
11/02/1992	3 miles SE of Lusk, WY	42 44 49 37 N	104 53 22 98 W	5 (3.1 miles)	3.0	II	A
SOUTH DAKOTA							
2/07/2007	1 mile SW of Owanka, SD	44 01 56 13 N	102 34 47 35 W	5 (3.1 miles)	3.1	II	A
5/25/2003	35 miles E of Pine Ridge, SD	43.08 N	101.84 W	5 (3.1 miles)	4.0	IV	B
5/03/1996	18 miles NW of Ardmore, SD	43 02 32 88 N	104 01 11 30 W	5 (3.1 miles)	3.1	II	A
2/06/1996	8.3 miles NW of Hill City, SD	43 58 52 67 N	103 43 41 52 W	5 (3.1 miles)	3.7	III	A
3/20/1994	3 miles SW of Hot Springs, SD	43 23 51 02 N	103 29 57 16 W	5 (3.1 miles)	2.3	I	A

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3/18/1994	3 miles SW of Hot Springs, SD	43 23 51 02 N	103 29 57 16 W	5 (3.1 miles)	2.8	I	A
9/05/1993	2.5 miles NW of Central City, SD	44 24 11 63 N	103 48 07 76 W	5 (3.1 miles)	2.7	I	A
11/05/1991	1.5 miles SE of Central City, SD	44 21 10 54 N	103 45 01 27 W	0	2.5	I	A
3/02/1990	13 miles NW of Wounded Knee, SD	43 19 00 23 N	102 30 04 97 W	5 (3.1 miles)	3.2	II	A
1/28/1990	13 miles NW of Wounded Knee, SD	43 19 00 23 N	102 30 04 97 W	5 (3.1 miles)	4.0	IV	A

Source: A USGS 2009f Note: Locations (lat and long) based on using USGS Google Earth Files for USGS/NEIC Catalog, so locations are approximate].

Source: B USGS 2009c

^a Depth where the earthquake begins to rupture (Default values used).

^b Rating as per Table E.5-1