

22 Geothermal Earthquakes YTD in 2009, Resulting in Modified Mercalli Intensities V or VI in Anderson Springs

Average of 2.2 Events per Month for 1/1/2009 through 10/31/2009 with PGA >=3.90%g

#	Strong Ground Motion Event ID	Shaking Date	Shaking Time	EQ Time	EQ Date	EQ		Lat	Lon	Leasehold	EQ Event ID	Hot Springs Road	Recreation Center	Rec Center PGA ±
						Magnitude	Depth (km)					PGA (%g)	PGA (%g)	Hot Springs PGA
1	20090104_093358_ADSP-03433_EVT_DK1313	01/04/09	5:27:12 PM	5:27:10 PM	01/04/09	4.30	4.7	38.7823	-122.773	Calpine	51214595	14.7%	N/A	N/A
2	20090210_211726_ADSP-03433_EVT_DK1437	02/11/09	5:14:07 AM	5:14:06 AM	02/11/09	2.48	2.4	38.7857	-122.716	Calpine	40231655	7.4%	N/A	N/A
3	20090221_040148_ADSP-03433_EVT_DK1483	02/21/09	11:58:44 AM	11:58:44 AM	02/21/09	2.44	2.1	38.7857	-122.726	Calpine	40232071	4.2%	N/A	N/A
4	20090307_081938_ADSP-03433_EVT_DK1541	03/07/09	4:17:10 PM	4:17:09 PM	03/07/09	2.51	1.7	38.7835	-122.741	Calpine	40232834	4.9%	N/A	N/A
5	20090331_102434_ADSP-03433_EVT_DK1623	03/31/09	5:21:55 PM	5:21:55 PM	03/31/09	2.89	2.8	38.771	-122.732	Calpine	40234090	5.0%	N/A	N/A
6	20090416_181616_ADSP-03433_EVT_DK1686	04/17/09	1:13:06 AM	1:13:05 AM	04/17/09	2.64	2.3	38.7785	-122.718	Calpine	51220026	8.2%	N/A	N/A
7	20090429_181356_ADSP-03433_EVT_DK1739	04/30/09	1:11:16 AM	1:11:15 AM	04/30/09	1.99	2.0	38.7738	-122.719	Calpine	51220735	4.2%	N/A	N/A
8	20090601_173538_ADSP-03433_EVT_DK1828	06/02/09	12:32:00 AM	12:32:00 AM	06/02/09	2.48	2.5	38.774	-122.713	Calpine	40237434	5.0%	N/A	N/A
9	20090630_104140_ADSP-03433_EVT_DK1936	06/30/09	5:27:29 PM	5:27:28 PM	06/30/09	3.84	4.1	38.8083	-122.79	Calpine	71241391	6.9%	N/A	N/A
10	20090701_054602_ADSP-03433_EVT_DK1940	07/01/09	12:42:55 PM	12:42:54 PM	07/01/09	2.98	3.9	38.8112	-122.795	Calpine	71241841	4.2%	N/A	N/A
11	20090716_023918_ADSP-03433_EVT_DK1987	07/16/09	9:35:50 AM	9:35:50 AM	07/16/09	2.76	2.5	38.7802	-122.723	Calpine	71249061	10.3%	N/A	N/A
12	20090826_063431_ADSP-03433_EW041	08/26/09	6:34:31 AM	6:34:31 AM	08/26/09	2.64	2.6	38.778	-122.71	Calpine	71271386	5.4%	4.8%	88%
13	20090826_122813_ADSP-03433_EW044	08/26/09	12:28:13 PM	12:28:12 PM	08/26/09	2.38	2.0	38.756	-122.715	NCPA	71271526	4.3%	2.9%	67%
14	20090826_140808_ADSP-03433_EW046	08/26/09	2:08:08 PM	2:08:08 PM	08/26/09	2.09	1.5	38.7592	-122.723	NCPA	71271576	4.5%	2.5%	56%
15	20090905_084841_ADSP-03433_EW076	09/05/09	8:48:41 AM	8:48:48 AM	09/05/09	2.82	2.1	38.7767	-122.713	Calpine	71271100	12.1%	N/A	N/A
16	20090913_223247_ADSP-03433_EW112	09/13/09	10:32:47 PM	10:32:47 PM	09/13/09	2.79	2.5	38.7785	-122.716	Calpine	71280676	6.0%	N/A	N/A
17	20090926_214530_ADSP-03433_EW142	09/26/09	9:45:30 PM	9:45:30 PM	09/26/09	1.96	2.1	38.7673	-122.711	Calpine	71286791	4.3%	2.7%	64%
18	20091007_200348_ADSP-03433_EW176	10/07/09	8:03:48 PM	8:03:46 PM	10/07/09	2.78	3.8	38.7928	-122.801	Calpine	71295951	4.9%	1.6%	32%
19	20091023_064623_ADSP-03433_EW218	10/23/09	6:46:23 AM	6:46:22 AM	10/23/09	3.05	4.0	38.7925	-122.755	Calpine	71298350	8.2%	4.1%	49%
20	20091031_065225_ADSP-03433_EW238	10/31/09	6:52:25 AM	6:52:24 AM	10/31/09	3.58	4.8	38.7945	-122.769	Calpine	71302365	7.2%	6.1%	85%
21	20091031_095206_ADSP-03433_EW240	10/31/09	9:52:06 AM	9:52:05 AM	10/31/09	2.74	2.4	38.7837	-122.724	Calpine	71302540	12.5%	5.6%	45%
22	20091031_122036_ADSP-03433_EW245	10/31/09	12:20:36 PM	12:20:36 PM	10/31/09	1.85	2.1	38.7838	-122.724	Calpine	71302640	4.6%	2.4%	51%

Modified Mercalli Intensity VI Events in **RED** (i.e., PGA >9.2%g)

Averages: 2.73 2.8

6.8% 3.6% 60%

All dates & times in Universal Mean Time

Minimums & Maximums: 1.85 to 4.8km

4.2%g to 14.7%g 1.6%g to 6.1%g 32% to 88%