Table S2. Summary of Boulanger et al. (2012) SPT liquefaction case history data

Data Point	Earthquake	Site	M_w	a_{max} (g)	Liquefied?	depth (m)	σ_{vc} (ksf)	σ_{vc} (ksf)	σ'_{vc} (ksf)	γ_1 above gwt (kN/m3)	γ_1 below gwt (kN/m3)	N_m	$N_{1,60}$	V_s (m/s)	G_{max} (ksf)	C_N	C_E	C_R	C_S	C_D	FC (%)	$N_{1,60cs}$	r_d	Ksi	MSF	CSR	CSR*	$CRR_{M7.5}$	Ø (°)	K_σ	σ'_{vc} (kPa)	Primary source of data
2	1944 Tohnankai earthquake M=8.1 - Dec 7	Komei	8.1	0.2	Yes	5.2	2.1	98	68	18.1		18.9	5.9	8.2	125.69	30437	1	1.17	1.25	0.95	1	10	9.3	0.98	1.04	0.85	0.182	0.207	0.113	32.8	0.46	43.44	Kishida (1969), Seed et al (1984),
3	1944 Tohnankai earthquake M=8.1 - Dec 7	Imaga	8.1	0.2	Yes	4.3	2.4	80	61	18.1		18.9	2.3	3.4	99.63	19122	1	1.17	1.32	0.95	1	30	8.7	0.99	1.07	0.85	0.144	0.159	0.109	28.2	0.53	41.75	Kishida (1969), Seed et al (1984),
4	1944 Tohnankai earthquake M=8.1 - Dec 7	Meiko	8.1	0.2	Yes	3.7	2.1	69	39	18.1		18.9	1	1.7	73.65	10451	1	1.17	1.7	0.85	1	27	6.9	0.99	1.08	0.85	0.225	0.245	0.098	25.8	0.56	27.67	Kishida (1969), Seed et al (1984),
5	1948 Fukui earthquake M=7.3 - June 28	Shonenji Temple	7	0.4	Yes	4	1.2	75	48	18.1		19.6	8	11.8	121.94	29707	1	1.17	1.48	0.85	1	0	11.8	0.96	1.07	1.14	0.39	0.318	0.131	35.4	0.42	29.48	Kishida (1969), Seed et al (1984),
6	1948 Fukui earthquake M=7.3 - June 28	Takaya 45	7	0.35	Yes	7.5	3.7	141	104	18.1		19.6	17.3	21.1	182.11	66261	1	1.3	0.99	0.95	1	4	21.1	0.9	0.99	1.14	0.283	0.251	0.220	40.5	0.35	58.93	Kishida (1969), Seed et al (1984),
7	1964 Nigata earthquake M=7.6 - June 16	Arayamotomachi	7.6	0.09	Yes	3.3	1	63	41	18.1		19.6	2.6	4.7	92.53	17106	1	1.22	1.7	0.85	1	5	4.7	0.98	1.07	0.97	0.089	0.086	0.084	29.7	0.50	27.46	Yasuda & Tohno (1988), Cetin et al.
8	1964 Nigata earthquake M=7.6 - June 16	Cc17-1	7.6	0.16	Yes	7	0.9	132	72	17.5		19	8	9.9	134.26	34913	1	1.09	1.2	0.95	1	2	9.9	0.94	1.03	0.97	0.179	0.178	0.117	34.1	0.44	45.11	Kishida (1966), Seed et al (1984),
9	1964 Nigata earthquake M=7.6 - June 16	Cc17-2	7.6	0.16	Yes	5.3	0.9	85	43	15		16.2	7.9	12.7	116.20	22298	1	1.09	1.55	0.95	1	8	13	0.96	1.09	0.97	0.199	0.188	0.140	35.9	0.41	26.18	Kishida (1966), Seed et al (1984),
10	1964 Nigata earthquake M=7.6 - June 16	Kawagishi-cho	7.6	0.162	Yes	3.8	2	71	53	18.1		19.6	4.5	6.8	111.73	24940	1	1.22	1.45	0.85	1	5	6.8	0.98	1.05	0.97	0.136	0.133	0.097	31.7	0.48	34.45	Ishihara & Koga (1981)
11	1964 Nigata earthquake M=7.6 - June 16	Old Town -1	7.6	0.18	No	7	1.8	132	81	16		20	18	22.7	168.85	58122	1	1.21	1.1	0.95	1	2	22.7	0.94	1.03	0.97	0.179	0.178	0.244	41.3	0.34	45.35	Koizumi (1966), Seed et al (1984),
12	1964 Nigata earthquake M=7.6 - June 16	Old Town -2	7.6	0.18	No	10.1	1.8	190	109	16		19.5	20	23.5	187.41	69813	1	1.21	0.97	1	1	2	23.5	0.9	0.99	0.97	0.184	0.191	0.258	41.7	0.34	69.68	Koizumi (1966), Seed et al (1984),
13	1964 Nigata earthquake M=7.6 - June 16	Rail Road-1	7.6	0.16	Yes	10.1	0.9	190	100	17		19	10	11	154.18	46039	1	1.09	1.01	1	1	2	11	0.9	1	0.97	0.178	0.182	0.125	34.8	0.43	61.92	Koizumi (1966), Seed et al (1984),
14	1964 Nigata earthquake M=7.6 - June 16	Rail Road-2	7.6	0.16	Marginal	10.1	0.9	190	100	17		19	16	17.5	170.57	56350	1	1.09	1.01	1	2	2	17.5	0.9	1	0.97	0.178	0.182	0.179	38.7	0.37	58.31	Koizumi (1966), Seed et al (1984),
15	1964 Nigata earthquake M=7.6 - June 16	River Site	7.6	0.16	Yes	4.6	0.6	86	47	17		19	6	9.4	112.24	24400	1	1.09	1.52	0.95	1	0	9.4	0.97	1.07	0.97	0.183	0.176	0.114	33.7	0.44	29.61	Ishihara et al. (1979), Seed et al
16	1964 Nigata earthquake M=7.6 - June 16	Road Site	7.6	0.18	No	6.1	2.4	115	79	17		20	12	14.1	150.28	46041	1	1.09	1.13	0.95	1	0	14.1	0.95	1.03	0.97	0.162	0.162	0.149	36.8	0.40	47.46	Ishihara et al. (1979), Seed et al
17	1964 Nigata earthquake M=7.6 - June 16	Showa Br 2	7.6	0.16	Yes	4.3	0	80	39	0		18.5	4	7	97.73	18010	1	1.09	1.7	0.95	1	10	8.2	0.97	1.08	0.97	0.21	0.199	0.106	31.8	0.47	25.29	Takada et al (1965), Seed et al (1984),
18	1964 Nigata earthquake M=7.6 - June 16	Showa Br 4	7.6	0.18	No	6.1	1.2	115	67	16		19.5	27	35.5	174.86	60777	1	1.21	1.14	0.95	1	0	35.5	0.95	1.1	0.97	0.191	0.178	1.233	46.6	0.27	34.52	Takada et al (1965), Seed et al (1984),
19	1968 earthquake M=7.5 - April 1	Hososhima	7.5	0.242	No	2.895	2	53	45	17.3		19.6	8	12.1	120.88	29192	1	1.22	1.46	0.85	1	36	17.6	0.98	1.1	1	0.185	0.168	0.180	35.6	0.42	27.55	Iai et al (1989)
20	1968 Tokachi-Oki earthquake M=8.3 - May 16	Aomori Station	8.3	0.213	Yes	5.7	0	95	38	0		16.7	9	16.5	118.34	23842	1	1.22	1.58	0.95	1	3	16.5	0.98	1.1	0.81	0.335	0.376	0.169	38.2	0.38	22.35	Yasuda & Tohno (1988), Cetin et al
21	1968 Tokachi-Oki earthquake M=8.3 - May 16	Hachinohe -2	8.3	0.23	No	6.1	2.1	115	76	16.5		20	28	35.5	182.45	67863	1	1.21	1.1	0.95	1	5	35.3	0.98	1.08	0.81	0.221	0.254	1.181	46.6	0.27	39.20	Ohsaki (1970), Seed et al. (1984),
22	1968 Tokachi-Oki earthquake M=8.3 - May 16	Hachinohe -4	8.3	0.23	No	4	0.9	75	45	16.5		19.5	16	23	140.05	38990	1	1.21	1.4	0.85	1	5	23	0.99	1.1	0.81	0.246	0.276	0.249	41.4	0.34	25.14	Ohsaki (1970), Seed et al. (1984),
23	1968 Tokachi-Oki earthquake M=8.3 - May 16	Hachinohe-6	8.3	0.23	Yes	4	0.6	75	42	17		19	6	9.1	108.82	22936	1	1.09	1.63	0.85	1	5	9.1	0.99	1.08	0.81	0.265	0.304	0.112	33.5	0.45	26.55	Ohsaki (1970), Seed et al. (1984),
24	1968 Tokachi-Oki earthquake M=8.3 - May 16	Nanaehanasi-2-3	8.3	0.23	No	4	0.9	75	45	16.5		19.5	5	7.6	108.28	23305	1	1.17	1.52	0.85	1	20	12	0.99	1.08	0.81	0.213	0.244	0.132	32.3	0.47	28.96	Kishida (1970), Seed et al. (1984),
25	1971 San Fernando earthquake M=6.6 - Feb 9	Juvenile Hall	6.61	0.45	Yes	6.1	4.6	112	96	18		20	3.5	3.9	122.60	30643	1	1.13	1.03	0.95	1	55	9.5	0.92	1.01	1.26	0.312	0.246	0.115	28.8	0.52	65.14	Bennett (1989), Seed et al (1984),
26	1971 San Fernando earthquake M=6.6 - Feb 9	Van Norman	6.61	0.45	Yes	6.1	4.6	112	96	18		20	7.3	8.1	143.59	42035	1	1.13	1.03	0.95	1	50	13.7	0.92	1.01	1.26	0.312	0.245	0.146	32.7	0.46	61.40	Bennett (1989), Seed et al (1984),
27	1975 Haicheng earthquake M=7.0 - Feb 4	Panjin Chemical Fertilizer Plant	7	0.2	No	8.2	1.5	155	89	18.1		18.9	9.1	7.6	137.99	36686	1	0.83	1.07	0.95	1	67	13.2	0.89	1.01	1.14	0.203	0.175	0.142	32.3	0.47	57.27	Shengcong & Tatsuoka (1984), Seed
28	1975 Haicheng earthquake M=7.0 - Feb 4	Shuang Tai Zi River Sluice Gate	7	0.2	No	8.2	1.5	158	92	16		20	9	8.9	144.60	42630	1	1	1.05	0.95	1	50	14.6	0.89	1.01	1.14	0.199	0.172	0.153	33.3	0.45	58.29	Shengcong & Tatsuoka (1984), Seed
29	1975 Haicheng earthquake M=7.0 - Feb 4	Ying Kou Glass Fiber Plant	7	0.3	Yes	7.8	1.5	147	85	18.1		18.9	13	13.3	153.13	45177	1	1	1.08	0.95	1	48	19	0.9	1.02	1.14	0.304	0.26	0.194	36.3	0.41	51.45	Shengcong & Tatsuoka (1984), Seed
30	1975 Haicheng earthquake M=7.0 - Feb 4	Ying Kou Paper Plant	7	0.3	Yes	8.2	1.5	158	92	17		20	11	11	150.98	46472	1	1	1.05	0.95	1	5	11	0.89	1.01	1.14	0.298	0.259	0.125	34.8	0.43	56.97	Shengcong & Tatsuoka (1984), Seed
31	1976 Guatemala earthquake M=7.5 - Feb 4	Amatitlan B-1	7.5	0.135	Yes	10.4	1.5	139	86	10		14	6	5	122.29	21343	1	0.75	1.1	1	1	3	5	0.89	1.01	1	0.126	0.125	0.086	30.0	0.50	57.33	Seed et al (1979, 1984), Cetin et al
32	1976 Guatemala earthquake M=7.5 - Feb 4	Amatitlan B-2	7.5	0.135	Marginal	4.6	2.4	55	34	10		14	8	9.7	100.79	14499	1	0.75	1.7	0.95	1	3	9.7	0.97	1.1	1	0.138	0.126	0.116	33.9	0.44	21.35	Seed et al (1979, 1984), Cetin et al
33	1976 Guatemala earthquake M=7.5 - Feb 4	Amatitlan B-3&4	7.5	0.135	No	10.7	3.4	137	71	10		14	16	14.3	143.25	29285	1	0.75	1.19	1	1	3	14.3	0.89	1.04	1	0.149	0.144	0.150	36.9	0.40	42.57	Seed et al (1979, 1984), Cetin et al
34	1976 Tangshan earthquake M=7.6 - July 27	Coastal Region	7.6	0.13	Yes	4.5	1.1	87	54	18.9		19.6	9	11.7	124.89	31166	1	1	1.37	0.95	1	12	13.8	0.97	1.06	0.97	0.13	0.125	0.146	35.3	0.42	33.20	Shengcong & Tatsuoka (1984), Seed
35	1976 Tangshan earthquake M=7.6 - July 27	Le Ting LB-14	7.6	0.2	Yes	4.4	1.5	81	53	16.5		19.5	9.7	11.5	126.27	31694	1	1	1.39	0.85	1	12	13.5	0.97	1.07	0.97	0.194	0.186	0.144	35.2	0.42	32.65	Shengcong & Tatsuoka (1984), Seed
36	1976 Tangshan earthquake M=7.6 - July 27	Luan Nan-1.1	7.6	0.22	No	3.5	1.1	62	38	16		18.5	19.3	24.4	133.60	33660	1	1	1.49	0.85	1	5	24.4	0.98	1.1	0.97	0.226	0.211	0.276	42.1	0.33	21.02	Shengcong & Tatsuoka (1984), Seed
37	1976 Tangshan earthquake M=7.6 - July 27	Luan Nan-L2	7.6	0.22	Yes	3.5	1.1	56	32	13		17.5	5.9	8.5	98.77	17403	1	1	1.7	0.85	1	3	8.5	0.98	1.1	0.97	0.241	0.225	0.108	33.0	0.45	20.37	Shengcong & Tatsuoka (1984), Seed
38	1976 Tangshan earthquake M=7.6 - July 27	Qing Jia Ying	7.6	0.35	Yes	5.3	0.9	102	59	16		20	17	20.1	146.73	43890	1	1	1.24	0.95	1	20	24.6	0.96	1.09	0.97	0.378	0.357	0.281	40.0	0.36	33.69	Shengcong & Tatsuoka (1984), Seed
39	1976 Tangshan earthquake M=7.6 - July 27	Tangshan City	7.6	0.5	No	5.3	3.1	98	75	17		20.5	30	31.6	177.09	65336	1	1	1.11	0.95	1	10	32.7	0.96	1.07	0.97	0.405	0.389	0.721	45.1	0.29	39.56	Shengcong & Tatsuoka (1984), Seed
40	1976 Tangshan earthquake M=7.6 - July 27	Yao Yuan Village	7.6	0.2	Yes	6.1	0.9	118	67	16.5		20	9	10.5	132.53	35807	1	1	1.22	0.95	1	20	15	0.95	1.05	0.97	0.218	0.214	0.156	34.5	0.43	41.71	Shengcong & Tatsuoka (1984), Seed
41	1977 Argentina earthquake M=7.4 - Nov 23	San Juan B-1	7.5	0.2	Yes	8.2	4.6	142	106	16		19	9	6.3	141.33	38686	1	0.75	0.97	0.95	1	20	10.7	0.92	1	1	0.16	0.161	0.123	31.2	0.48	69.37	Idriss et al (1979), Seed et al (1984),
42	1977 Argentina earthquake M=7.4 - Nov 23	San Juan B-3	7.5	0.2	No	11.1	6.7	199	156	17.3		18.9	13	7.6	143.25	39111	1	0.75	0.78	1	1	5	7.6	0.87	1	1	0.169	0.169	0.102	32.3	0.47	100.38	Idriss et al (1979), Seed et al (1984),
43	1977 Argentina earthquake M=7.4 - Nov 23	San Juan B-4	7.5	0.2	No	3.7	1.2	63	39	15		18	14	14.3	118.05	25571	1	0.75	1.6	0.85	1	4	14.3	0.98	1.1	1	0.204	0.186	0.150	36.9	0.40	23.38	Idriss et al (1979), Seed et al (1984),
44	1977 Argentina earthquake M=7.4 - Nov 23	San Juan B-5	7.5	0.2	No	3.1	2.1	53	44	16.5		18.5	14	13.6	122.03	28084	1	0.75	1.53	0.85	1	3	13.6	0.98	1.09	1	0.154	0.142	0.145	36.5	0.41	26.55	Idriss et al (1979), Seed et al (1984),
45	1977 Argentina earthquake M=7.4 - Nov 23	San Juan B-6	7.5	0.2	No	5.2	1.8	90	56	15		18.5	6	5.8	108.68	22276	1	0.75	1.36	0.95	1	50	11.4	0.96	1.06	1	0.198	0.187	0.128	30.8	0.49	36.90	Idriss et al (1979), Seed et al (1984),
46	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Arahama (A-9)	6.5	0.1	No	6.4	0.9	121	67	18		19	10	12.8	138.10	36937	1	1.09	1.23	0.95	1	0	12.8	0.9	1.04	0.85	0.223	0.225	0.138	36.0	0.41	40.75	Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
47	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Hiyori-18 (site C)	6.5	0.14	No	5.2	2.4	98	71	18		19.5	9	11.1	137.18	37404	1	1.09	1.19	0.95	1	20	15.5	0.93	1.04	0.95	0.207	0.21	0.160	34.9	0.43	43.92	Tsuchida et al (1980), Seed et al (1984), Cetin et al (2000)
48	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Ishinomaki-2	6.5	0.12	No	3.5	1.4	66	45	17		20	3.7	5.5	99.86	20370	1	1.09	1.61	0.85	1	10	6.7	0.96	1.07	1.14	0.309	0.076	0.096	30.5	0.49	29.78	Ishihara et al (1980), Seed et al (1984), Cetin et al (2000)
49	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Kitawabachi-2	6.5	0.14	No	3.4	3.1	62	59	18		20	11	12.3	133.62	36398	1	1	1.32	0.85	1	5	12.3	0.96	1.05	1.34	0.092	0.065	0.135	35.7	0.42	36.06	Iwasaki et al (1981), Seed et al(1984), Cetin et al (2000)
50	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Nakajima-18 (site A)	6.5	0.14	No	6.1	2.4	115	79	17		20	12	14.1	150.28	46941	1	1.09	1.13	0.95	1	3	14.1	0.91	1.03	1.34	0.108	0.048	0.149	36.8	0.40	47.46	Tsuchida et al (1979, 1980), Tohno & Yasuda (1981), Tokimatsu & Yoshimi (1983), Seed et al (1984), Cetin et al (2000)
51	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Nakamuru Dai Ne N-4	6.5	0.12	No	2.8	0.6	53	30	17		19.5	4.7	5.3	92.40	16972	1	1	1.7	0.85	1	5	6.9	0.97	1.1	1.34	0.128	0.087	0.098	31.7	0.47	19.48	Iwasaki & Tokida (1980), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
52	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Nakamuru Dyke N-5	6.5	0.12	No	3.4	1.3	63	42	17		19.5	7	9.6	110.42	24238	1	1	1.61	0.85	1	4	9.6	0.96	1.08	1.34	0.112	0.078	0.115	33.9	0.44	26.40	Iwasaki & Tokida (1980), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
53	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Oiiri-1	6.5	0.14	No	6.4	4.3	106	85	16		18	9	9.4	141.49	36733	1	1	1.1	0.95	1	5	9.4	0.9	1.02	1.34	0.102	0.075	0.114	33.7	0.44	53.55	Iwasaki (1986), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
54	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Shiomi-6 (Site D)	6.5	0.14	No	4	2.5	75	60	18		19.5	6	7.5	120.04	28641	1	1.09	1.34	0.85	1	10	8.6	0.95	1.05	1.34	0.108	0.077	0.109	32.2	0.47	38.66	Tsuchida et al (1979, 1980), Tohno & Yasuda (1981), Iwasaki et al (1984), Cetin et al (2000)
55	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Yuriage B-1	6.5	0.12	No	4.3	1.8	80	56	17.5		19.5	4	5.4	105.97	22320	1	1	1.41	0.95	1	10	6.5	0.94	1.05	1.34	0.105	0.075	0.095	30.4	0.49	37.11	Iwasaki (1986), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
56	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Yuriage B-2	6.5	0.12	No	2.5	1.2	46	34	17		19.5	10.1	16.2	115.52	26525	1	1.12	1.68	0.85	1	7	16.3	0.96	1.1	1.34	0.112	0.076	0.167	38.0	0.38	20.05	Iwasaki (1986), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
57	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Yuriage B-3	6.5	0.12	No	4.3	0.2	80	42	18.5		18.5	8	11.8	113.64	24354	1	1	1.56	0.95	1	12	13.9	0.94	1.09	1.34	0.142	0.097	0.147	35.4	0.42	25.80	Iwasaki (1986), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
58	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Yuriagekami-1	6.5	0.12	No	5.5	1.8	99	63	17		18.5	2	2.5	94.30	16770	1	1	1.31	0.95	1	60	8.1	0.92	1.04	1.34	0.113	0.081	0.105	27.1	0.54	43.89	Iwasaki et al (1984), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
59	1978 Miyagiken-Oki earthquake M=6.5 - Feb 20	Yuriagekami-2	6.5	0.12	No	4.3	0.9	80	47	17		19	11	15.1	125.52	30513	1	1	1.45	0.95	1	0	15.1	0.94	1.08	1.34	0.125	0.086	0.157	37.4	0.39	27.98	Iwasaki et al (1984), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
60	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Arahama (A-9)	7.7	0.32	Yes	6.4	0.9	121	67	18		19	10	12.8	138.10	36937	1	1.09	1.23	0.95	1	0	12.8	0.95	1.04	0.95	0.223	0.225	0.138	36.0	0.41	40.75	Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
61	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Hiyori-18 (site C)	7.7	0.24	Yes	5.2	2.4	98	71	18		19.5	9	11.1	137.18	37404	1	1.09	1.19	0.95	1	20	15.5	0.96	1.04	0.95	0.207	0.21	0.160	34.9	0.43	43.92	Tsuchida et al (1979, 1980), Seed et al (1984), Cetin et al (2000)
62	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Ishinomaki-2	7.7	0.2	No	3.5	1.4	66	45	17.3		19.7	3.7	5.5	99.86	20065	1	1.09	1.61	0.85	1	10	6.7	0.98	1.07	0.95	0.186	0.184	0.096	30.5	0.49	29.78	Ishihara et al (1980), Seed et al (1984), Cetin et al (2000)
63	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Ishinomaki-4	7.7	0.2	No	4.5	1.4	87	57	18.1		20	14.2	20.9	145.67	45263	1	1.21	1.28	0.85	1	10	22	0.97	1.08	0.95	0.188	0.183	0.233	40.4	0.35	32.35	Ishihara et al (1980), Seed et al (1984), Cetin et al (2000)
64	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Kitawabachi-2	7.7	0.28	Yes	3.4	3.1	62	59	18		19.5	11	12.3	133.62	35488	1	1	1.32	0.85	1	5	12.3	0.98	1.05	0.95	0.187	0.187	0.135	35.7	0.42	36.06	Iwasaki et al (1981), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
65	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Kitawabachi-3	7.7	0.28	No	4.8	3.1	99	73	18.5		19.5	13.2	17.6	153.50	40836	1	1.21	1.16	0.95	1	7	17.6	0.97	1.04	0.95	0.216	0.22	0.180	38.8	0.37	42.53	Iwasaki et al (1981), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
66	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Nakajima-1	7.7	0.24	No	4.6	2.4	86	65	18		19.5	10	12.7	136.95	37283	1	1.09	1.23	0.95	1	26	17.8	0.97	1.05	0.95	0.2	0.2	0.182	35.9	0.41	39.57	Tsuchida et al (1979, 1980), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
67	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Nakajima-18 (site A)	7.7	0.24	Yes	6.1	2.4	115	79	18		19.5	12	14.1	150.28	44890	1	1.09	1.13	0.95	1	3	14.1	0.96	1.03	0.95	0.217	0.223	0.149	36.8	0.40	47.46	Tsuchida et al (1979, 1980), Seed et al (1984), Cetin et al (2000)
68	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Nakamuru Dyke N-1	7.7	0.32	No	3.4	0.9	63	39	17.5		19	19	26.2	137.41	36572	1	1.12	1.45	0.85	1	4	26.2	0.98	1.1	0.95	0.329	0.315	0.321	46.2	0.31	21.39	Iwasaki & Tokida (1980), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
69	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Nakamuru Dyke N-4	7.7	0.32	Yes	2.8	0.5	53	30	18.1		18.9	4.7	6.9	92.40	16450	1	1	1.7	0.85	1	5	6.9	0.99	1.1	0.95	0.346	0.332	0.098	31.7	0.47	19.48	Iwasaki (1986), Tohno & Yasuda (1981), Seed et al (1984), Cetin et al (2000)
70	1978 Miyagiken-Oki earthquake M=7.7 - June 12	Nakamuru Dyke N-5	7.7	0.32	Yes	3.4	1.3	63	42	18		19	7	9.6	110.42	23616	1	1	1.61	0.85

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