

Table S1. Summary of Kayen et al. (2013) V_l liquefaction case history data

Data Point	site ID	LOCATION	M _w	Liquefied?	Crit. Depth Range (m)	Depth to GW (m)	σ'_{vm} (kPa)			T _{total} (kN/m ²)		σ'_{vm} (kPa)	r _d	CSR	MSF	V _{s1} (m/sec)	V _{s30} (m/sec)	CRR _{PT-15%}	G _{max} (kPa)	φ (°)	K _v	σ'_{vm} (kPa)	ORIGINAL SITE REFERENCE
							σ'_{vm1}	σ'_{vm2}	σ'_{vm3}	Above gw	Below gw												
1906 San Francisco Earthquake, California, USA																							
5	9001	Coyote Valley	7.7 ± 0.10	YES	3.5 - 6	2.4	77.08 ± 8.53	54.03 ± 5.41	15.10	17.30	0.36 ± 0.09	0.89 ± 0.09	0.30 ± 0.09	0.97	171.98 ± 2.00	146.97	0.13	38093	30	0.500	36.02	Barrow, 1983	
6	9002	Salinas River North	7.7 ± 0.10	NO	9.1 - 10.6	6.0	155.24 ± 8.31	117.47 ± 6.09	14.00	18.50	0.32 ± 0.08	0.68 ± 0.16	0.19 ± 0.07	0.97	172.05 ± 5.84	178.54	0.13	60113	34	0.441	73.68	Barrow, 1983	
1948 Fukui Earthquake, Japan																							
9	118	HINO GAWA EAST BANK, FUKUI PREF. EQUESTRIAN CENTER,	7.1 ± 0.12	YES	6.0 - 10	1.0	143.50 ± 15.15	74.83 ± 8.10	17.30	18.00	0.50 ± 0.13	0.64 ± 0.14	0.40 ± 0.14	1.08	142.28 ± 17.04	131.91	0.10	31926	30	0.500	49.89	Office of the Engineer (1949); Hamada et al. (1992); This study	
10	103	MORITA-CHO GARUKU, HAMADA ET AL., 5'	7.1 ± 0.12	YES	4.0 - 8	0.7	112.83 ± 13.90	61.23 ± 8.08	18.00	18.90	0.50 ± 0.13	0.92 ± 0.11	0.55 ± 0.18	1.08	201.87 ± 38.20	177.99	0.25	61036	30	0.500	40.82	Office of the Engineer (1949); Hamada et al. (1992); This study	
11	101	MORITA-CHO KOEN, HAMADA ET AL., 15'	7.1 ± 0.12	YES	6.0 - 10	0.7	144.67 ± 14.21	73.45 ± 8.18	15.70	18.30	0.50 ± 0.13	0.84 ± 0.14	0.53 ± 0.18	1.08	169.36 ± 61.39	156.28	0.14	45561	30	0.500	48.97	Office of the Engineer (1949); Hamada et al. (1992); This study	
12	102	MORITA-CHO RICE FIELD, HAMADA ET AL., 4'	7.1 ± 0.12	YES	3.0 - 9	1.3	105.15 ± 19.18	59.05 ± 9.84	15.70	18.00	0.50 ± 0.13	0.94 ± 0.11	0.55 ± 0.20	1.08	197.41 ± 33.35	172.49	0.23	54593	30	0.500	39.36	Office of the Engineer (1949); Hamada et al. (1992); This study	
13	120	Rice Fields, SOUTH-EAST OF ROUTES 8 & 416,	7.1 ± 0.12	YES	3.0 - 5	1.0	69.50 ± 7.08	40.07 ± 4.90	16.00	17.80	0.50 ± 0.13	0.90 ± 0.08	0.51 ± 0.16	1.08	135.44 ± 40.71	101.401	0.09	20935	30	0.500	26.72	Office of the Engineer (1949); Hamada et al. (1992); This study	
14	114	TAKAYA-BASHI KUZURYU GAWA, SOUTH BANK Rice Fields	7.1 ± 0.12	YES	5.0 - 14	1.0	171.25 ± 28.96	87.87 ± 14.54	17.00	18.10	0.50 ± 0.13	0.55 ± 0.16	0.35 ± 0.16	1.08	153.36 ± 11.14	148.00	0.11	40414	30	0.500	58.58	Office of the Engineer (1949); Hamada et al. (1992); This study	
15	116	TAKAYA-BASHI KUZURYU GAWA, SOUTH BANK	7.1 ± 0.12	YES	3.0 - 10	0.5	118.00 ± 22.36	59.14 ± 11.37	17.00	18.20	0.50 ± 0.13	0.60 ± 0.11	0.39 ± 0.16	1.08	134.03 ± 19.14	117.16	0.09	25464	30	0.500	39.43	Office of the Engineer (1949); Hamada et al. (1992); This study	
16	115	TAKAYA-CHO KUZURYU GAWA, East BANK	7.1 ± 0.12	YES	4.0 - 10	0.5	127.25 ± 19.53	63.49 ± 10.22	17.00	18.20	0.50 ± 0.13	0.67 ± 0.12	0.44 ± 0.17	1.08	161.47 ± 10.59	143.66	0.12	38291	30	0.500	42.32	Office of the Engineer (1949); Hamada et al. (1992); This study	
17	117	FUKUI-OHASHI KUZURYU GAWA, SOUTH BANK	7.1 ± 0.12	YES	3.5 - 5	1.0	74.13 ± 5.92	42.25 ± 4.58	16.30	17.70	0.50 ± 0.13	1.00 ± 0.08	0.57 ± 0.17	1.08	222.64 ± 9.77	178.91	0.40	57755	30	0.500	28.16	Office of the Engineer (1949); Hamada et al. (1992); This study	
18	121	HOKURIKU EXP-OHASHI KUZURYU GAWA, SOUTH BANK	7.1 ± 0.12	NO	1.0 - 1.5	1.0	18.63 ± 2.22	16.18 ± 3.54	14.30	17.30	0.50 ± 0.13	1.00 ± 0.03	0.37 ± 0.13	1.08	312.47 ± 221.50	197.53	0.68	68805	34	0.441	10.15	Office of the Engineer (1949); Hamada et al. (1992); This study	
19	119	MARUOKA-CHO JYUGYOYOSHI GAWA, SOUTH BANK	7.1 ± 0.12	YES	0.5 - 1.7	0.5	18.10 ± 4.03	12.22 ± 3.85	15.40	17.30	0.50 ± 0.13	1.00 ± 0.02	0.48 ± 0.22	1.08	186.44 ± 11.18	109.87	0.19	21286	30	0.500	8.14	Office of the Engineer (1949); Hamada et al. (1992); This study	
1964 Niigata Earthquake, Japan																							
22	9013 A1		7.5 ± 0.11	NO	5.0 - 7.5	5.0	93.14 ± 8.83	80.88 ± 5.96	14.30	17.30	0.16 ± 0.04	0.84 ± 0.11	0.10 ± 0.03	1.00	167.10 ± 14.80	157.95	0.12	43998	34	0.441	50.73	Tokimatsu et al., 1991a); This study	
23	9014 C1		7.5 ± 0.11	YES	1.6 - 8.1	1.2	84.33 ± 20.46	48.52 ± 10.31	17.00	17.50	0.16 ± 0.04	0.89 ± 0.09	0.16 ± 0.07	1.00	122.17 ± 15.56	101.64	0.07	18428	30	0.500	32.35	Tokimatsu et al., 1991a); This study	
24	9015 C2		7.5 ± 0.11	YES	1.2 - 6	1.2	61.20 ± 15.12	37.66 ± 7.93	16.50	17.20	0.16 ± 0.04	0.93 ± 0.07	0.16 ± 0.07	1.00	145.06 ± 21.93	113.27	0.09	22494	30	0.500	25.11	Tokimatsu et al., 1991a); This study	
25	96	MEIKUN HIGH SCHOOL, HIROBA, KAWAGISHI-CHO	7.5 ± 0.11	YES	4.0 - 11	2.5	127.45 ± 22.40	78.43 ± 11.28	16.50	17.20	0.18 ± 0.05	0.64 ± 0.13	0.12 ± 0.05	1.00	135.04 ± 14.16	126.67	0.08	28133	30	0.500	52.29	Hamada (1992); This study	
26	99	NIGATA AIRPORT-SHITAYA, NIGATA	7.5 ± 0.11	YES	6.0 - 11	2.0	148.26 ± 16.53	84.49 ± 9.11	17.00	17.50	0.18 ± 0.05	0.69 ± 0.14	0.14 ± 0.05	1.00	141.64 ± 9.36	135.36	0.06	32648	30	0.500	36.63	Hamada (1992); This study	
27	100	NITTARI H.S., NIGATA STATION-HOTEL, NIGATA AREA	7.5 ± 0.11	YES	9.0 - 12	1.5	196.62 ± 13.15	108.33 ± 8.39	17.90	18.80	0.18 ± 0.05	0.59 ± 0.17	0.12 ± 0.05	1.00	135.34 ± 17.33	137.63	0.08	36299	30	0.500	72.22	Hamada (1992); This study	
28	97	OGATA PRIMARY SCHOOL	7.5 ± 0.11	YES	3.0 - 4.8	3.0	58.66 ± 6.27	49.83 ± 4.73	14.30	17.30	0.18 ± 0.05	0.89 ± 0.07	0.12 ± 0.04	1.00	145.75 ± 16.13	122.06	0.09	26275	30	0.500	33.22	Hamada (1992); This study	
29	98	Niigata Minami H.	7.5 ± 0.11	NO	5.0 - 10	2.0	129.76 ± 16.58	75.80 ± 8.83	16.70	17.50	0.18 ± 0.05	0.74 ± 0.13	0.15 ± 0.05	1.00	163.13 ± 15.40	151.72	0.12	41065	34	0.441	47.54	Hamada (1992); This study	
30	95	SOUTH BANK SHINANO RIVER, SHOWA BRIDGE	7.5 ± 0.11	NO	5.0 - 10	2.7	126.61 ± 16.49	79.52 ± 8.74	16.10	17.50	0.18 ± 0.05	0.71 ± 0.13	0.13 ± 0.05	1.00	170.58 ± 9.86	160.57	0.13	45466	34	0.441	49.88	Hamada (1992); This study	
1968 Tokachi Oki Earthquake, Japan																							
33	64B	ADOMORI STATION	7.9 ± 0.10	YES	5.0 - 7	1.0	106.50 ± 8.06	57.45 ± 5.53	16.50	18.00	0.21 ± 0.05	0.83 ± 0.11	0.21 ± 0.06	0.94	139.03 ± 24.04	120.65	0.08	26709	30	0.500	38.30	Ohsaki (1970); This study	
34	65B	ADOMORI STATION	7.9 ± 0.10	YES	5.0 - 7	1.0	106.50 ± 8.06	57.45 ± 5.53	16.50	18.00	0.21 ± 0.05	0.83 ± 0.11	0.21 ± 0.06	0.94	139.03 ± 24.04	120.65	0.08	26709	30	0.500	38.30	Ohsaki (1970); This study	
35	65A	MITSUBISHI PAPER PLANT	7.9 ± 0.10	YES	2.0 - 6.1	1.0	70.43 ± 13.12	40.51 ± 7.14	16.50	17.60	0.23 ± 0.06	0.90 ± 0.08	0.23 ± 0.08	0.94	131.90 ± 26.33	104.89	0.07	19738	30	0.500	27.00	Ohsaki (1970); This study	
36	56A	NANAHAAMA BEACH	7.9 ± 0.10	YES	1.5 - 4	0.8	47.28 ± 8.12	28.15 ± 5.15	16.50	17.40	0.20 ± 0.05	0.96 ± 0.05	0.21 ± 0.07	0.94	148.47 ± 34.72	107.79	0.09	20699	30	0.500	18.77	Tokimatsu (1994); This study	
37	41	NIISHI NAGANUMA	7.9 ± 0.10	YES	3.0 - 10	1.0	115.75 ± 22.30	61.80 ± 11.28	16.50	18.00	0.15 ± 0.03	0.62 ± 0.11	0.08 ± 0.03	0.94	109.90 ± 14.11	97.12	0.06	17309	30	0.500	41.20	Ohsaki (1970); This study	
1973 Miyagi Ken Oki Earthquake, Japan																							
40	74	ARAHAMA SEWAGE PLANT	7.4 ± 0.11	YES	2.0 - 4	1.0	51.00 ± 6.73	31.38 ± 4.69	16.00	17.50	0.20 ± 0.05	0.97 ± 0.06	0.20 ± 0.07	1.02	116.89 ± 42.66	87.21	0.07	13567	30	0.500	20.92	IWASAKI ET AL. (1978), TOHNO ET AL. (1981); This study	
41	80A	FISHERY PORT-OIL TANK (UNIMPROVED)	7.4 ± 0.11	YES	2.4 - 6.2	1.4	73.25 ± 12.26	44.81 ± 6.79	16.00	17.50	0.20 ± 0.05	0.96 ± 0.08	0.20 ± 0.07	1.02	144.42 ± 6.93	117.77	0.09	24744	30	0.500	29.87	IWASAKI ET AL. (1978), TOHNO ET AL. (1981); This study	
42	84	HIYORI WHARF, PORT OF ISHINOMAKI	7.4 ± 0.11	YES	7.0 - 11	2.7	162.85 ± 13.65	101.05 ± 7.89	17.00	18.50	0.24 ± 0.06	0.81 ± 0.13	0.20 ± 0.06	1.02	171.30 ± 5.05	171.19	0.13	55269	30	0.500	67.37	TSUCHIDA (1979, 1980), TOHNO ET AL. (1981); This study	
43	81A	KITAWABUCHI, EAI RIVER, OLD MEANDER	7.4 ± 0.11	YES	3.0 - 6.2	2.0	76.11 ± 10.52	50.60 ± 6.12	15.50	17.30	0.28 ± 0.07	0.91 ± 0.08	0.25 ± 0.08	1.02	140.90 ± 5.76	118.46	0.09	24746	30	0.500	33.73	Iwasaki (1981); This study	
44	82A	KITAWABUCHI, EAI RIVER, OLD MEANDER	7.4 ± 0.11	NO	3.0 - 6.1	2.0	75.18 ± 10.22	50.17 ± 6.00	15.50	17.30	0.28 ± 0.07	0.77 ± 0.08	0.21 ± 0.07	1.02	172.20 ± 8.40	140.45	0.14	36798	34	0.441	31.46	Iwasaki et al. (1981); This study	
45	79A	NAKAJIMA WHARF	7.4 ± 0.11	YES	5.0 - 10	2.6	127.06 ± 16.51	78.99 ± 8.75	16.50	17.40	0.20 ± 0.05	0.77 ± 0.13	0.16 ± 0.06	1.02	160.39 ± 9.52	107.02	0.11	40291	30	0.500	52.66	IWASAKI ET AL. (1978), TOHNO ET AL. (1981); This study	
46	77A	NAKAMURA DIKE	7.4 ± 0.11	YES	4.5 - 6.5	0.5	99.50 ± 7.91	50.45 ± 5.50	17.00	18.20	0.23 ± 0.08	0.88 ± 0.10	0.26 ± 0.11	1.02	171.84 ± 7.91	144.36	0.14	38664	30	0.500	33.63	IWASAKI ET AL. (1978), TOHNO ET AL. (1981); This study	
47	83	SHIOMI WHARF, PORT OF ISHINOMAKI	7.4 ± 0.11	YES	5.0 - 10	2.7	133.90 ± 16.51	86.82 ± 8.83	17.00	18.30	0.24 ± 0.06	0.61 ± 0.11	0.15 ± 0.05	1.02	110.24 ± 5.44	106.07	0.07	20987	30	0.500	57.88	IWASAKI ET AL. (1978), TOHNO ET AL. (1981); This study	
48	78A	SHIOMI-MINAMI WHARF	7.4 ± 0.11	YES	3.5 - 7	2.5	85.88 ± 11.52	58.90 ± 6.55	15.30	17.30	0.20 ± 0.05	0.87 ± 0.10	0.16 ± 0.05	1.02	165.16 ± 19.69	144.22	0.12	36681	30	0.500	39.27	Tsuchida et al. (1979); This study	
49	75A	YURIAGE KAMI-2	7.4 ± 0.11	YES	2.5 - 6.5	0.5	80.54 ± 13.13	41.54 ± 7.25	17.00	18.10	0.24 ± 0.06	0.87 ± 0.08	0.26 ± 0.09	1.02	143.13 ± 5.63	114.54	0.09	24204	30	0.500	27.70	IWASAKI ET AL. (1978), TOHNO ET AL. (1981); This study	
50	76A	YURIAGE-OHASHI	7.4 ± 0.11	YES	3.5 - 8	0.5	104.13 ± 14.81	52.62 ± 8.09	17.00	18.20	0.24 ± 0.06	0.79 ± 0.10	0.25 ± 0.09	1.02	165.07 ± 9.10	140.14	0.12	36434	30	0.500	35.08	IWASAKI ET AL. (1978), TOHNO ET AL. (1981); This study	
1975 Haicheng Earthquake, China																							
53	9021	Chemical Fiber, Ying-Kou	7.1 ± 0.12	YES	6.0 - 11.5	1.5	15																

1979 Imperial Valley Earthquake, California, USA

98	9030	Heber Road, channel fill, R1R2	6.5 ± 0.13 YES	2.5 - 4.6	2.0	56.68 ± 7.07	41.48 ± 4.84	14.90	17.30	0.50 ± 0.13	0.91 ± 0.07	0.41 ± 0.13	1.22	147.09 ± 1.61	117.66	0.11	24415	30	0.500	27.65	Dohy et al., 1992
99	9029	Heber Road, channel fill, SR1	6.5 ± 0.13 YES	2.0 - 4.6	2.0	52.06 ± 8.44	39.30 ± 5.30	14.70	17.30	0.50 ± 0.13	0.92 ± 0.06	0.40 ± 0.13	1.22	155.74 ± 9.90	122.91	0.13	26642	30	0.500	26.20	Dohy et al., 1992
100	9032	Heber Road, Point Bar, R1R2	6.5 ± 0.13 NO	2.0 - 4.3	2.0	49.28 ± 7.54	38.00 ± 4.98	14.60	17.30	0.50 ± 0.13	0.93 ± 0.06	0.39 ± 0.13	1.22	203.92 ± 35.64	159.59	0.29	44915	34	0.441	23.83	Dohy et al., 1992
101	9031	Heber Road, point bar, SR1	6.5 ± 0.13 NO	3.0 - 4.3	2.0	58.53 ± 4.95	42.34 ± 4.23	14.90	17.30	0.50 ± 0.13	0.91 ± 0.07	0.41 ± 0.12	1.22	195.94 ± 25.50	157.55	0.25	43776	34	0.441	26.56	Dohy et al., 1992
102	9028	Kornblom	6.5 ± 0.13 NO	2.5 - 6	2.5	67.38 ± 11.27	50.21 ± 6.41	14.80	17.30	0.12 ± 0.03	0.90 ± 0.08	0.09 ± 0.03	1.22	117.08 ± 5.49	98.24	0.09	17021	34	0.441	31.50	Bierschwald and Stokoe, 1984
103	9026	McKim	6.5 ± 0.13 YES	1.4 - 4.6	1.4	49.20 ± 10.20	33.51 ± 5.91	15.30	17.30	0.51 ± 0.13	0.93 ± 0.06	0.45 ± 0.17	1.22	160.27 ± 13.01	121.54	0.14	26052	30	0.500	22.34	Bierschwald and Stokoe, 1984
104	9025	Radio Tower	6.5 ± 0.13 YES	2.7 - 6.1	2.0	72.41 ± 11.05	48.86 ± 6.31	15.40	17.30	0.21 ± 0.05	0.89 ± 0.08	0.18 ± 0.06	1.22	98.27 ± 6.49	81.90	0.07	11828	30	0.500	32.57	Bierschwald and Stokoe, 1984
105	9027	Vail Canal	6.5 ± 0.13 NO	2.7 - 4.5	2.7	63.71 ± 9.17	49.97 ± 5.64	14.60	17.30	0.12 ± 0.03	0.90 ± 0.08	0.09 ± 0.03	1.22	114.59 ± 10.83	96.04	0.08	16265	34	0.441	31.34	Bierschwald and Stokoe, 1984
106	9024	Wildlife	6.5 ± 0.13 NO	2.5 - 6.8	1.5	79.28 ± 13.81	48.38 ± 7.44	16.50	17.30	0.13 ± 0.03	0.88 ± 0.09	0.12 ± 0.04	1.22	122.87 ± 5.17	102.14	0.09	18398	34	0.441	30.34	Bierschwald and Stokoe, 1984
107	9022	Wildlife 1	6.5 ± 0.13 NO	2.5 - 6.8	1.5	79.28 ± 13.81	48.38 ± 7.44	16.50	17.30	0.13 ± 0.03	0.88 ± 0.09	0.12 ± 0.04	1.22	136.67 ± 6.11	113.61	0.10	22763	34	0.441	30.34	Bierschwald and Stokoe, 1984
108	9023	Wildlife 2	6.5 ± 0.13 NO	2.5 - 6.8	1.5	79.28 ± 13.81	48.38 ± 7.44	16.50	17.30	0.13 ± 0.03	0.88 ± 0.09	0.12 ± 0.04	1.22	133.60 ± 4.82	111.06	0.10	21753	34	0.441	30.34	Bierschwald and Stokoe, 1984

1980 Mid Chiba Earthquake, Japan

112	9004	Owi Island No. 1 C2 lower	5.9 ± 0.15 NO	13.0 - 16.6	1.4	267.73 ± 17.00	135.78 ± 10.66	17.00	18.20	0.08 ± 0.02	0.51 ± 0.20	0.05 ± 0.02	1.39	152.67 ± 6.72	164.27	0.14	50065	34	0.441	85.16	Ishihara et al., 1987
113	9005	Owi Island No. 1 C2 upper	5.9 ± 0.15 NO	4.5 - 7.8	1.4	107.70 ± 11.42	60.62 ± 6.68	16.80	17.70	0.08 ± 0.02	0.81 ± 0.11	0.07 ± 0.02	1.39	153.77 ± 15.66	135.24	0.14	33000	34	0.441	38.02	Ishihara et al., 1987

1981 Westmorland Earthquake, California, USA

116	9040	Heber Road, channel fill, R1R2	5.9 ± 0.15 NO	2.0 - 4.6	2.0	52.06 ± 8.44	39.30 ± 5.30	14.70	17.30	0.02 ± 0.01	0.93 ± 0.06	0.02 ± 0.01	1.39	158.53 ± 16.19	125.12	0.15	27607	34	0.441	24.65	Dohy et al., 1992
117	9039	Heber Road, channel fill, SR1	5.9 ± 0.15 NO	2.0 - 4.6	2.0	52.06 ± 8.44	39.30 ± 5.30	14.70	17.30	0.02 ± 0.01	0.93 ± 0.06	0.02 ± 0.01	1.39	155.74 ± 9.90	122.91	0.15	26642	34	0.441	24.65	Dohy et al., 1992
118	9042	Heber Road, Point Bar, R1R2	5.9 ± 0.15 NO	2.0 - 4.3	2.0	49.28 ± 7.54	38.00 ± 4.98	14.60	17.30	0.02 ± 0.01	0.93 ± 0.06	0.02 ± 0.01	1.39	203.92 ± 35.64	159.59	0.33	44915	34	0.441	23.83	Dohy et al., 1992
119	9041	Heber Road, point bar, SR1	5.9 ± 0.15 NO	2.5 - 4.3	2.0	53.91 ± 6.18	40.17 ± 4.56	14.80	17.30	0.02 ± 0.01	0.92 ± 0.07	0.02 ± 0.00	1.39	195.94 ± 25.50	155.49	0.28	42638	34	0.441	25.20	Dohy et al., 1992
120	9038	Kornblom	5.9 ± 0.15 YES	2.5 - 6	2.5	67.38 ± 11.27	50.21 ± 6.41	14.80	17.30	0.36 ± 0.09	0.88 ± 0.08	0.28 ± 0.09	1.39	117.08 ± 5.49	98.24	0.10	17021	30	0.500	34.83	Bierschwald and Stokoe, 1984
121	9036	McKim	5.9 ± 0.15 NO	2.5 - 4.9	1.4	62.15 ± 8.03	39.59 ± 5.16	15.90	17.30	0.06 ± 0.02	0.91 ± 0.07	0.06 ± 0.02	1.39	128.67 ± 22.62	101.73	0.11	18251	34	0.441	24.83	Bierschwald and Stokoe, 1984
122	9035	Radio Tower	5.9 ± 0.15 YES	2.7 - 6.1	2.0	72.41 ± 11.05	48.86 ± 6.31	15.40	17.30	0.20 ± 0.05	0.88 ± 0.08	0.17 ± 0.06	1.39	98.27 ± 6.49	81.90	0.09	11828	30	0.500	32.57	Bierschwald and Stokoe, 1984
123	9037	Vail Canal	5.9 ± 0.15 YES	2.7 - 5.5	2.7	63.71 ± 9.17	49.97 ± 5.64	14.60	17.30	0.30 ± 0.08	0.89 ± 0.08	0.22 ± 0.07	1.39	114.59 ± 10.83	96.04	0.10	16265	30	0.500	33.52	Bierschwald and Stokoe, 1984
124	9034B	Wildlife 1	5.9 ± 0.15 YES	2.5 - 6.8	1.5	79.28 ± 13.81	48.38 ± 7.44	16.50	17.30	0.27 ± 0.07	0.87 ± 0.09	0.25 ± 0.09	1.39	122.87 ± 5.17	102.14	0.10	18398	30	0.500	32.25	Bierschwald and Stokoe, 1984
125	9033	Wildlife 1	5.9 ± 0.15 YES	2.5 - 6.8	1.5	79.28 ± 13.81	48.38 ± 7.44	16.50	17.30	0.27 ± 0.07	0.87 ± 0.09	0.25 ± 0.09	1.39	136.67 ± 6.11	113.61	0.12	22763	30	0.500	32.25	Bierschwald and Stokoe, 1984
126	9034	Wildlife 2	5.9 ± 0.15 YES	2.5 - 6.8	1.5	79.28 ± 13.81	48.38 ± 7.44	16.50	17.30	0.27 ± 0.07	0.87 ± 0.09	0.25 ± 0.09	1.39	133.60 ± 4.82	111.06	0.11	21753	30	0.500	32.25	Bierschwald and Stokoe, 1984

1983 Nihonkai-Chubu Earthquake, Japan

129	73	ARAYAMA TOMIYACHI	7.7 ± 0.10 YES	4.0 - 8	1.0	106.50 ± 13.38	57.45 ± 7.47	17.00	17.90	0.20 ± 0.05	0.74 ± 0.11	0.18 ± 0.06	0.97	145.20 ± 7.53	126.01	0.09	28973	30	0.500	38.30	HAMADA (1992); This Study
130	72	GAIKO WHARF	7.7 ± 0.10 YES	4.0 - 6	1.0	88.00 ± 7.53	48.76 ± 5.19	17.00	17.70	0.23 ± 0.06	0.90 ± 0.09	0.24 ± 0.07	0.97	184.17 ± 3.60	153.41	0.16	42461	30	0.500	32.51	HAMADA (1992); This Study
131	71	GOMYOKO	7.7 ± 0.10 YES	3.0 - 5	1.0	69.50 ± 7.08	40.07 ± 4.90	16.70	17.60	0.25 ± 0.06	0.92 ± 0.08	0.26 ± 0.08	0.97	154.45 ± 6.66	122.49	0.10	26920	30	0.500	26.72	Tokimatsu, Uchida, Tamura (1990); This Study
132	69	MAEYAMA HILL	7.7 ± 0.10 YES	5.0 - 9.15	1.4	124.59 ± 14.12	68.92 ± 7.85	16.80	17.80	0.25 ± 0.06	0.66 ± 0.12	0.19 ± 0.07	0.97	164.85 ± 6.61	149.72	0.12	40674	30	0.500	45.95	HAMADA (1992); This Study
133	70	MATSUMICHO	7.7 ± 0.10 YES	3.0 - 5	1.5	67.25 ± 7.00	42.73 ± 4.84	16.00	17.30	0.25 ± 0.06	0.88 ± 0.08	0.23 ± 0.07	0.97	158.27 ± 9.24	127.55	0.11	28690	30	0.500	28.49	HAMADA (1992); This Study
134	68	SHIMOSHIGATA, SHARIKI-CHO	7.7 ± 0.10 YES	4.0 - 6.1	1.0	88.93 ± 7.81	49.20 ± 5.29	17.00	17.70	0.13 ± 0.05	0.79 ± 0.09	0.12 ± 0.04	0.97	125.92 ± 10.26	105.12	0.07	19356	30	0.500	32.80	YASUDA AND TOHNO (1988); This Study
135	64A	ADOMORI STATION	7.7 ± 0.10 YES	5.0 - 7	1.0	106.50 ± 8.06	57.45 ± 5.53	17.00	17.90	0.12 ± 0.03	0.83 ± 0.11	0.12 ± 0.04	0.97	139.03 ± 24.04	120.65	0.08	26561	30	0.500	38.30	YASUDA AND TOHNO (1988); This Study
136	67B	TAKEDA ELEM. SCH.	7.7 ± 0.10 YES	2.7 - 6.1	0.4	79.60 ± 11.24	40.36 ± 6.51	17.00	18.20	0.28 ± 0.07	0.76 ± 0.08	0.27 ± 0.09	0.97	123.36 ± 6.26	98.01	0.07	17822	30	0.500	26.91	YASUDA AND TOHNO (1988); This Study

1983 Nihonkai-Chubu Aftershocks, Japan

139	67A	TAKEDA ELEM. SCH.	7 ± 0.12 YES	2.7 - 6.1	0.4	79.60 ± 11.24	40.36 ± 6.51	17.00	18.20	0.12 ± 0.03	0.76 ± 0.08	0.11 ± 0.04	1.10	123.36 ± 6.26	98.01	0.08	17822	30	0.500	26.91	YASUDA AND TOHNO (1988); This Study
140	64C	ADOMORI STATION	7 ± 0.12 YES	5.0 - 7	1.0	106.50 ± 8.06	57.45 ± 5.53	17.00	17.90	0.12 ± 0.03	0.82 ± 0.11	0.11 ± 0.04	1.10	139.03 ± 24.04	120.65	0.09	26561	30	0.500	38.30	YASUDA AND TOHNO (1988); This Study

1983 Borah Peak Earthquake, Idaho, USA

143	9059B	Larter Ranch	6.9 ± 0.12 YES	2.7 - 3.5	0.8	49.13 ± 4.80	29.02 ± 4.13	16.50	17.50	0.50 ± 0.13	0.94 ± 0.06	0.52 ± 0.16	1.12	157.23 ± 14.09	115.02	0.12	23601	30	0.500	19.34	Andrus (1994)
144	9057	SA1 Anderson Bar	6.9 ± 0.12 YES	0.8 - 3.2	0.8	33.40 ± 7.67	21.63 ± 4.95	15.80	17.30	0.29 ± 0.07	0.96 ± 0.04	0.28 ± 0.11	1.12	141.69 ± 15.02	96.32	0.10	18359	30	0.500	14.42	Andrus (1994)
145	9063	SA1 North Gavel Bar	6.9 ± 0.12 NO	1.8 - 3	1.0	39.90 ± 4.33	26.17 ± 3.97	15.60	17.30	0.46 ± 0.12	0.95 ± 0.05	0.43 ± 0.14	1.12	275.19 ± 46.31	196.19	2.13	67879	34	0.441	16.41	Andrus (1994)
146	9043	SA1 Pense Ranch	6.9 ± 0.12 YES	1.9 - 3.7	1.7	44.06 ± 6.06	33.32 ± 4.48	14.70	17.30	0.36 ± 0.09	0.94 ± 0.06	0.29 ± 0.09	1.12	123.21 ± 8.57	93.31	0.08	15355	30	0.500	22.21	Andrus (1994)
147	9059A	SA1.85 Larter Ranch	6.9 ± 0.12 YES	2.2 - 3.5	0.8	49.13 ± 4.80	29.02 ± 4.13	16.50	17.50	0.50 ± 0.13	0.94 ± 0.06	0.52 ± 0.16	1.12	157.23 ± 14.09	115.02	0.12	23601	30	0.500	19.34	Andrus (1994)
148	9060	SA1.90 Larter Ranch	6.9 ± 0.12 YES	2.2 - 3.5	0.8	49.13 ± 4.80	29.02 ± 4.13	16.50	17.50	0.50 ± 0.13	0.94 ± 0.06	0.52 ± 0.16	1.12	216.96 ± 12.39	158.72	0.37	44941	30	0.500	19.34	Andrus (1994)
149	9054	SA2 Goddard Ranch	6.9 ± 0.12 YES	1.2 - 3.2	1.2	35.30 ± 6.51	25.49 ± 4.58	15.00	17.30	0.30 ± 0.08	0.96 ± 0.04	0.26 ± 0.09	1.12	156.19 ± 16.81	110.63	0.12	21383	30</			

193	9104	Wildlife 1		6.5	> 0.13	YES	2.5	-	6.8	1.5	79.28	> 13.81	48.38	-	7.44	16.10	17.50	0.20	> 0.05	0.88	> 0.09	0.19	> 0.07	1.22	136.67	-	6.11	113.61	0.10	23026	30	0.500	32.25	Bierschwald and Stokoe, 1984
194	9105	Wildlife 2		6.5	> 0.13	YES	2.5	-	6.8	1.5	79.28	> 13.81	48.38	-	7.44	16.10	17.50	0.20	> 0.05	0.88	> 0.09	0.19	> 0.07	1.22	133.60	-	6.11	111.06	0.10	22005	30	0.500	32.25	Bierschwald and Stokoe, 1984
1987 Elmore Ranch Earthquake, California, USA																																		
197	9101	Heber Road, channel fill, R1R2		5.9	> 0.15	NO	2.0	-	4.6	2.0	52.06	> 8.44	39.30	-	5.30	14.70	17.30	0.03	> 0.01	0.93	> 0.06	0.02	> 0.01	1.39	158.53	-	16.19	125.12	0.15	27607	34	0.441	24.65	Doherty et al., 1992
198	9100	Heber Road, channel fill, R1R2		5.9	> 0.15	NO	2.0	-	4.6	2.0	52.06	> 8.44	39.30	-	5.30	14.70	17.30	0.03	> 0.01	0.93	> 0.06	0.02	> 0.01	1.39	155.74	-	9.90	122.91	0.15	26642	34	0.441	24.65	Doherty et al., 1992
199	9103	Heber Road, Point Bar, R1R2		5.9	> 0.15	NO	2.0	-	4.3	2.0	49.28	> 7.54	38.00	-	4.98	14.60	17.30	0.03	> 0.01	0.93	> 0.06	0.02	> 0.01	1.39	203.92	-	35.64	159.59	0.33	44915	34	0.441	23.83	Doherty et al., 1992
200	9102	Heber Road, point bar, SR1		5.9	> 0.15	NO	2.0	-	4.3	2.0	49.28	> 7.54	38.00	-	4.98	14.60	17.30	0.03	> 0.01	0.93	> 0.06	0.02	> 0.01	1.39	211.71	-	29.52	165.68	0.40	48411	34	0.441	23.83	Doherty et al., 1992
201	9099	Katsumi		5.9	> 0.15	NO	2.5	-	6	1.5	77.38	> 11.27	50.21	-	6.41	14.80	17.30	0.12	> 0.04	0.89	> 0.09	0.11	> 0.04	1.39	136.08	-	5.49	98.24	0.10	27021	34	0.441	31.50	Bierschwald and Stokoe, 1984
202	9097	McKim		5.9	> 0.15	NO	1.4	-	4.9	1.4	51.98	> 11.12	34.81	-	6.27	15.40	17.30	0.05	> 0.01	0.93	> 0.06	0.05	> 0.02	1.39	146.04	-	27.07	111.81	0.13	22048	34	0.441	21.83	Bierschwald and Stokoe, 1984
203	9096	Radio Tower		5.9	> 0.15	NO	2.7	-	6.1	2.0	72.41	> 11.05	48.86	-	6.31	15.40	17.30	0.11	> 0.03	0.89	> 0.08	0.09	> 0.03	1.39	98.27	-	6.49	81.90	0.09	11828	34	0.441	30.65	Bierschwald and Stokoe, 1984
204	9098	Vail Canal		5.9	> 0.15	NO	2.7	-	5.5	2.7	63.71	> 9.17	49.97	-	5.64	14.60	17.30	0.11	> 0.03	0.90	> 0.08	0.07	> 0.02	1.39	114.59	-	10.83	96.04	0.10	16265	34	0.441	31.34	Bierschwald and Stokoe, 1984
205	9095	Wildlife		5.9	> 0.15	NO	2.5	-	6.8	1.5	79.28	> 13.81	48.38	-	7.44	16.50	17.30	0.12	> 0.03	0.88	> 0.09	0.11	> 0.04	1.39	122.87	-	5.17	102.14	0.10	18398	34	0.441	30.34	Bierschwald and Stokoe, 1984
206	9093	Wildlife 1		5.9	> 0.15	NO	2.5	-	6.8	1.5	79.28	> 13.81	48.38	-	7.44	16.50	17.30	0.12	> 0.03	0.88	> 0.09	0.11	> 0.04	1.39	136.67	-	6.11	113.61	0.12	22763	34	0.441	30.34	Bierschwald and Stokoe, 1984
207	9094	Wildlife 2		5.9	> 0.15	NO	2.5	-	6.8	1.5	79.28	> 13.81	48.38	-	7.44	16.50	17.30	0.12	> 0.03	0.88	> 0.09	0.11	> 0.04	1.39	133.60	-	4.82	111.06	0.11	21753	34	0.441	30.34	Bierschwald and Stokoe, 1984
1989 Loma Prieta Earthquake, California, USA																																		
210	523	523SL - Near SLL 68 - on river side of levee (N. of river)		7	> 0.12	YES	5.8	-	7.11	3.5	107.96	> 6.29	78.97	-	5.05	16.20	17.30	0.38	> 0.10	0.77	> 0.11	0.26	> 0.08	1.10	182.11	-	5.47	171.12	0.17	51638	30	0.500	52.64	Cetin et al. (2000), Moss et al. (2003); This study
211	524	524GRA - Near GRA 123		7	> 0.12	YES	7.0	-	7.8	5.0	119.61	> 5.73	96.07	-	5.20	15.60	17.30	0.34	> 0.09	0.80	> 0.13	0.22	> 0.10	1.10	166.38	-	3.41	164.19	0.13	47543	30	0.500	64.05	Cetin et al. (2000), Moss et al. (2003); This study
212	525	525MRR - Near Marinovich Farm 65		7	> 0.12	YES	7.0	-	7.8	5.6	117.10	> 5.64	99.44	-	5.35	15.30	17.30	0.40	> 0.10	0.65	> 0.13	0.20	> 0.06	1.10	148.30	-	18.30	134.22	0.09	31770	30	0.500	66.29	Cetin et al. (2000), Moss et al. (2003); This study
213	526	526MRR - Near Marinovich Farm 67		7	> 0.12	NO	5.3	-	7.11	6.2	81.86	> 6.91	81.86	-	5.68	13.20	17.30	0.40	> 0.10	0.81	> 0.11	0.21	> 0.06	1.10	166.19	-	7.87	157.57	0.13	43785	34	0.441	51.34	Cetin et al. (2000), Moss et al. (2003); This study
214	527	527RAD - Near Radovich Farm 98, 99		7	> 0.12	NO	5.1	-	5.8	3.5	81.31	> 5.00	62.18	-	4.22	13.50	17.30	0.38	> 0.10	0.79	> 0.10	0.26	> 0.07	1.10	186.95	-	2.45	165.48	0.19	48290	34	0.441	39.00	Cetin et al. (2000), Moss et al. (2003); This study
215	528	528MCG - Near McGowan Farm 136		7	> 0.12	NO	3.0	-	7	2.4	78.49	> 12.62	52.98	-	6.73	15.30	16.00	0.26	> 0.07	0.80	> 0.09	0.20	> 0.07	1.10	153.14	-	13.07	130.23	0.11	27660	34	0.441	33.23	Cetin et al. (2000), Moss et al. (2003); This study
216	529	529MCG - Near McGowan Farm 138		7	> 0.12	NO	3.5	-	3.8	1.8	59.43	> 3.10	41.28	-	3.81	15.20	17.30	0.26	> 0.07	0.84	> 0.07	0.20	> 0.06	1.10	159.02	-	8.05	127.06	0.12	28470	34	0.441	25.89	Cetin et al. (2000), Moss et al. (2003); This study
217	531	531KET - Ket Ranch		7	> 0.12	YES	2.3	-	4	1.5	51.44	> 5.90	35.30	-	4.44	15.30	17.30	0.47	> 0.12	0.97	> 0.06	0.43	> 0.13	1.10	222.89	-	11.14	171.25	0.41	51718	30	0.500	23.53	Cetin et al. (2000), Moss et al. (2003); This study
218	532	532JEF - JEF J21 and JEF 48		7	> 0.12	YES	7.0	-	9.11	3.0	135.53	> 9.01	85.94	-	5.92	16.20	17.30	0.21	> 0.05	0.88	> 0.14	0.19	> 0.06	1.10	182.37	-	4.66	175.02	0.17	54022	30	0.500	57.29	Cetin et al. (2000), Moss et al. (2003); This study
219	533	533JEF - Near JEF 141		7	> 0.12	YES	3.3	-	5.31	2.1	70.20	> 7.06	48.57	-	4.88	15.20	17.30	0.21	> 0.05	0.80	> 0.08	0.16	> 0.05	1.10	124.55	-	16.51	103.64	0.08	18943	30	0.500	32.38	Cetin et al. (2000), Moss et al. (2003); This study
220	534	534JEF - Near JEF 32		7	> 0.12	YES	5.0	-	10	1.8	130.66	> 16.61	74.74	-	8.87	16.50	17.70	0.21	> 0.05	0.63	> 0.13	0.15	> 0.06	1.10	151.10	-	11.45	102.14	0.21	28287	30	0.500	49.83	Cetin et al. (2000), Moss et al. (2003); This study
221	535	535MCG - UC12 and UC13, Moss Landing		7	> 0.12	YES	2.9	-	4.0	1.5	60.68	> 8.12	50.21	-	6.41	15.30	17.30	0.26	> 0.07	0.84	> 0.09	0.19	> 0.06	1.10	139.11	-	7.53	205.63	0.10	25653	30	0.500	53.53	Cetin et al. (2000), Moss et al. (2003); This study
222	536	536ML - UC7 - Bridge and Sandhilt		7	> 0.12	YES	7.0	-	9.11	1.4	138.27	> 6.32	72.99	-	6.13	15.70	17.40	0.25	> 0.06	0.69	> 0.14	0.21	> 0.07	1.10	135.09	-	5.87	139.20	0.11	34369	30	0.500	48.66	Cetin et al. (2000), Moss et al. (2003); This study
223	537	537ML - Covers UC9 and 11, - Clam Way and Sandhilt		7	> 0.12	YES	2.0	-	3.71	1.2	45.63	> 5.74	29.40	-	4.18	14.20	17.30	0.25	> 0.06	0.93	> 0.06	0.23	> 0.07	1.10	151.27	-	9.81	111.03	0.11	21739	30	0.500	19.60	Cetin et al. (2000), Moss et al. (2003); This study
224	538	538ML - Moss Landing State Beach		7	> 0.12	NO	3.0	-	5.31	1.5	67.59	> 7.76	41.55	-	4.90	14.40	17.30	0.25	> 0.06	0.96	> 0.08	0.25	> 0.08	1.10	206.27	-	8.23	165.07	0.28	48055	34	0.441	26.06	Cetin et al. (2000), Moss et al. (2003); This study
225	541	541SRB - Near SRB 117		7	> 0.12	NO	6.4	-	11.4	6.4	129.50	> 16.19	104.97	-	8.73	13.40	17.30	0.11	> 0.03	0.68	> 0.15	0.16	> 0.02	1.10	157.56	-	14.03	158.97	0.12	44568	34	0.441	65.84	Cetin et al. (2000), Moss et al. (2003); This study
226	9117	B1B3 Treasure Island Fire Station		7	> 0.12	YES	5.5	-	8.5	4.7	113.27	> 10.68	90.71	-	6.73	15.60	17.30	0.41	> 0.10	0.74	> 0.14	0.12	> 0.05	1.10	129.28	-	3.15	125.76	0.09	27889	30	0.500	60.47	Cetin et al. (2000), Moss et al. (2003); This study
227	9116	B2B3 Treasure Island Fire Station		7	> 0.12	YES	4.5	-	12.2	1.4	148.18	> 24.78	80.00	-	12.51	16.90	17.90	0.14	> 0.04	0.74	> 0.14	0.12	> 0.05	1.10	147.70	-	14.31	139.24	0.10	35376	30	0.500	53.33	Cetin et al. (2000), Moss et al. (2003); This study
228	9119	B2B4 Treasure Island Fire Station		7	> 0.12	YES	4.5	-	12.2	1.4	148.18	> 24.78	80.00	-	12.51	16.90	17.90	0.14	> 0.04	0.74	> 0.14	0.12	> 0.05	1.10	132.84	-	2.28	125.23	0.09	28615	30	0.500	53.33	Cetin et al. (2000), Moss et al. (2003); This study
229	9118	B4B5 Treasure Island Fire Station		7	> 0.12	YES	4.5	-	12.2	1.4	148.18	> 24.78	80.00	-	12.51	16.90	17.90	0.14	> 0.04	0.74	> 0.14	0.12	> 0.05	1.10	171.58									

290	40	IWANAI FERRY TERMINAL BLDG (IMPROVED)	7.7	> 0.10	YES	5.0	- 7.5	2.5	104.38	9.11	67.59	> 5.74	15.80	17.30	0.22	> 0.06	0.88	> 0.11	0.19	> 0.06	0.97	174.99	> 4.97	158.12	0.13	44091	30	0.500	45.06	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
291	40	IWANAI FERRY TERMINAL, BENEATH GANGWAY	7.7	> 0.10	YES	5.0	- 7.5	2.5	104.38	9.11	67.59	> 5.74	15.80	17.30	0.22	> 0.06	0.88	> 0.11	0.20	> 0.06	0.97	183.99	> 14.47	166.29	0.16	48765	30	0.500	45.06	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
292	39	IWANAI FERRY TERMINAL, NORTH SIDE	7.7	> 0.10	YES	5.0	- 7.5	2.5	104.38	9.11	67.59	> 5.74	15.80	17.30	0.22	> 0.06	0.88	> 0.11	0.20	> 0.06	0.97	161.72	> 9.21	146.16	0.11	37674	30	0.500	45.06	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
293	44	MORI HARBOR NORTH PIER	7.7	> 0.10	YES	2.0	- 6.0	1.0	51.00	> 6.73	31.38	> 4.69	16.20	17.40	0.18	> 0.05	0.83	> 0.06	0.18	> 0.06	0.97	153.34	> 22.37	114.40	0.10	22215	30	0.500	21.40	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
294	45	MORI HARBOR WEST OF NORTH PIER	7.7	> 0.10	NO	4.0	- 6.0	1.5	85.75	> 7.43	51.42	> 5.09	16.10	17.60	0.18	> 0.05	0.82	> 0.09	0.16	> 0.05	0.97	147.28	> 11.32	147.10	0.13	38824	34	0.441	32.25	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
295	62	N. OF TOSHIBETSU GAWA	7.7	> 0.10	YES	1.0	- 3.0	0.5	34.75	> 6.52	20.04	> 4.58	16.40	17.70	0.50	> 0.12	0.88	> 0.04	0.49	> 0.19	0.97	120.28	> 31.90	80.55	0.07	11707	30	0.500	13.36	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
296	63	NAKANOSAWA ELEM. SCH.	7.7	> 0.10	YES	0.9	- 2.0	0.9	22.78	> 3.79	17.38	> 3.82	14.70	17.30	0.29	> 0.07	0.99	> 0.03	0.24	> 0.09	0.97	155.31	> 13.43	99.96	0.10	17621	30	0.500	11.59	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
297	46	NATSUKAWA NORTH SIDE	7.7	> 0.10	YES	0.8	- 2.5	0.5	28.28	> 5.57	16.99	> 4.27	16.30	17.50	0.29	> 0.05	0.97	> 0.04	0.19	> 0.10	0.97	153.74	> 8.86	98.39	0.10	17270	30	0.500	11.33	Tokimatsu, et al. (1994); Kokuho et al. (1995b); This Study
298	47	NATSUKAWA SOUTH SIDE	7.7	> 0.10	YES	1.8	- 3.0	0.5	47.70	> 6.14	26.28	> 4.52	17.80	17.80	0.18	> 0.05	0.95	> 0.10	0.21	> 0.07	0.97	152.62	> 8.48	99.49	0.08	17961	30	0.500	11.33	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
299	57	NORTH DIKE OF ASSABU GAWA	7.7	> 0.10	YES	4.0	- 2.0	0.5	108.75	> 13.56	54.80	> 7.59	17.30	18.20	0.25	> 0.06	0.75	> 0.11	0.24	> 0.08	0.97	134.14	> 6.03	115.03	0.08	24550	30	0.500	36.53	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
300	59	OKISHIRI FERRY TERMINAL	7.7	> 0.10	YES	3.0	- 7.0	2.0	83.51	> 12.96	54.08	> 7.10	15.80	17.30	0.50	> 0.13	0.97	> 0.09	0.49	> 0.16	0.97	188.52	> 15.24	161.14	0.17	45792	30	0.500	36.05	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
301	42	OSHAMAMBE ELEM. SCH.	7.7	> 0.10	YES	2.0	- 4.0	2.0	46.51	> 6.63	36.70	> 4.69	14.60	17.30	0.29	> 0.07	0.98	> 0.06	0.23	> 0.07	0.97	123.09	> 21.92	95.50	0.07	16082	30	0.500	24.46	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
302	43	OSHAMAMBE SEAWALL RT.5	7.7	> 0.10	YES	2.5	- 4.0	1.0	55.63	> 5.45	33.56	> 4.33	16.00	17.60	0.29	> 0.07	0.96	> 0.06	0.30	> 0.09	0.97	151.48	> 6.33	114.92	0.10	23693	30	0.500	22.37	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
303	44	SETANA FERRY TERMINAL	7.7	> 0.10	YES	4.9	- 6.0	2.0	91.83	> 5.52	57.99	> 4.54	15.70	17.50	0.50	> 0.13	0.97	> 0.10	0.51	> 0.14	0.97	212.99	> 7.31	185.36	0.29	61229	30	0.500	38.66	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
304	58	SOUTH DIKE, CHEMICAL PLANT	7.7	> 0.10	YES	3.0	- 6.0	0.5	81.00	> 10.11	41.76	> 6.09	17.10	18.10	0.25	> 0.06	0.90	> 0.08	0.28	> 0.09	0.97	111.05	> 4.93	88.98	0.06	14609	30	0.500	27.84	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
305	56B	SOUTH DIKE, CHEMICAL PLANT	7.7	> 0.10	YES	3.0	- 6.0	0.5	81.00	> 10.11	41.76	> 6.09	17.20	18.10	0.25	> 0.06	0.90	> 0.08	0.28	> 0.09	0.97	111.05	> 4.93	88.98	0.06	14609	30	0.500	27.84	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
306	55	SPA BEACH-Improved Ground	7.7	> 0.10	NO	2.5	- 7.6	2.5	82.18	> 16.20	57.17	> 8.45	18.50	17.30	0.14	> 0.03	0.92	> 0.09	0.12	> 0.04	0.97	207.85	> 12.43	180.15	0.25	57230	34	0.441	35.86	Tokimatsu, et al. (1994); Yood et al. (1994); This Study
307	61	TOSHIBETSU GAWA DIKE	7.7	> 0.10	YES	2.0	- 10.0	0.5	108.75	> 25.25	54.80	> 12.58	16.20	18.30	0.50	> 0.12	0.62	> 0.11	0.40	> 0.18	0.97	133.62	> 15.17	114.59	0.08	24494	30	0.500	36.53	Tokimatsu, et al. (1994); Yood et al. (1994); This Study

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310	9187	KNK(KPS) Kainan Port Sub-station	7	> 0.12	NO	3.8	- 17.0	2.0	183.41	> 41.61	101.00	> 20.19	16.10	18.00	0.12	> 0.03	0.66	> 0.17	0.09	> 0.04	1.10	168.38	> 46.80	168.25	0.14	51944	34	0.441	63.35	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
311	9183	Port Island Instrument Array, 1991	7	> 0.12	YES	2.4	- 15.0	2.4	150.16	> 39.48	88.35	> 19.06	16.00	17.70	0.50	> 0.13	0.68	> 0.15	0.38	> 0.18	1.10	156.86	> 91.28	151.59	0.12	41460	30	0.500	58.90	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
312	9184	Port Island Instrument Array, 1995	7	> 0.12	YES	2.4	- 15.0	2.4	150.16	> 39.48	88.35	> 19.06	15.70	17.80	0.50	> 0.13	0.68	> 0.15	0.38	> 0.18	1.10	153.35	> 23.40	148.19	0.11	39489	30	0.500	58.90	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
313	9185	SKR(TKPS) Technical Research Center	7	> 0.12	NO	7.0	- 11.0	7.0	135.05	> 13.74	115.40	> 6.18	14.80	17.30	0.40	> 0.10	0.68	> 0.15	0.21	> 0.07	1.1	155.80	> 9.10	160.96	0.12	45689	34	0.441	72.38	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
314	9186	TKS(TPS) Takasago Power Station	7	> 0.12	YES	2.5	- 7.1	2.5	77.56	> 14.65	54.99	> 7.79	15.10	17.30	0.20	> 0.05	0.88	> 0.09	0.16	> 0.06	1.10	124.32	> 72.53	106.71	0.08	20083	30	0.500	36.66	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
315	158	ASHIYA GAWA KOEN, EAST SIDE	7	> 0.12	YES	4.0	- 7.6	4.0	89.31	> 11.94	71.65	> 6.83	14.50	17.30	0.50	> 0.13	0.85	> 0.10	0.34	> 0.11	1.10	149.80	> 4.87	182.32	0.24	58617	30	0.500	47.77	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
316	152	EAST KAWASAKI KOEN, SO. OF HARBORLAND	7	> 0.12	YES	3.0	- 8.0	2.8	89.16	> 15.87	62.67	> 8.38	15.10	17.30	0.50	> 0.13	0.72	> 0.10	0.33	> 0.12	1.10	140.07	> 6.81	132.21	0.11	30824	30	0.500	41.78	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
317	151	HARBORLAND	7	> 0.12	YES	7.5	- 13.0	1.4	183.33	> 19.09	96.79	> 10.39	17.00	18.00	0.55	> 0.14	0.55	> 0.17	0.37	> 0.16	1.10	158.75	> 13.97	156.84	0.12	45135	30	0.500	64.34	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
318	150	IRIBASUDA SEWAGE TREATMENT PLANT	7	> 0.12	YES	10.0	- 15.10	10.0	182.10	> 15.10	102.21	> 6.01	16.20	17.30	0.50	> 0.10	0.62	> 0.12	0.43	> 0.14	1.10	158.04	> 24.24	178.79	0.24	59307	30	0.500	61.48	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
319	140	HONOHUCHO KOEN EAST SIDE	7	> 0.12	YES	6.0	- 8.0	3.0	116.01	> 8.10	96.77	> 5.49	15.60	17.30	0.50	> 0.13	0.87	> 0.12	0.43	> 0.13	1.10	193.79	> 5.76	180.81	0.21	57651	30	0.500	18.14	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
320	139	HONOHUCHO KOEN WEST SIDE, HIGASHI NADA	7	> 0.12	YES	7.0	- 12.0	3.0	162.26	> 17.14	98.49	> 9.22	16.10	17.50	0.50	> 0.13	0.64	> 0.16	0.34	> 0.13	1.10	161.95	> 17.56	168.76	0.14	50803	30	0.500	65.66	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
321	138	HYOGO MINAMI KOEN, NO. END OF	7	> 0.12	YES	4.5	- 7.6	2.2	102.03	> 10.69	64.26	> 6.31	15.70	17.50	0.50	> 0.13	0.82	> 0.11	0.42	> 0.13	1.10	212.23	> 36.12	186.51	0.31	63394	30	0.500	42.84	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
322	144	KITA GAWA BASEBALL KOEN, Samoniyaya	7	> 0.12	YES	7.0	- 11.0	5.8	140.42	> 13.83	109.03	> 7.94	14.60	17.30	0.60	> 0.15	0.90	> 0.15	0.45	> 0.15	1.10	197.28	> 3.72	200.94	0.23	71205	30	0.500	72.68	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
323	143	ISHIYAGAWA KOEN, WEST SIDE	7	> 0.12	NO	4.0	- 8.0	4.0	93.01	> 13.05	73.59	> 5.30	14.60	17.30	0.50	> 0.13	0.92	> 0.11	0.38	> 0.12	1.10	230.48	> 29.00	212.82	0.51	79875	34	0.441	46.03	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
324	146	ISOGAMI KOEN	7	> 0.12	NO	5.0	- 8.0	6.0	93.27	> 10.24	88.36	> 6.73	14.10	17.30	0.60	> 0.15	0.88	> 0.11	0.36	> 0.11	1.10	205.52	> 10.62	198.62	0.27	69571	34	0.441	55.42	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
325	147	IWAYA KOEN	7	> 0.12	NO	4.7	- 7.6	2.0	104.78	> 10.22	64.07	> 6.16	16.60	17.50	0.60	> 0.15	0.84	> 0.11	0.54	> 0.17	1.10	211.58	> 4.80	188.68	0.31	63510	34	0.441	40.18	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
326	106	JR WADAMASAKI LINE STATION,	7	> 0.12	YES	4.3	- 6.2	2.0	88.36	> 7.21	59.98	> 5.02	15.60	17.50	0.60	> 0.15	0.87	> 0.10	0.54	> 0.16	1.10	197.01	> 19.17	169.86	0.23	51471	30	0.500	37.32	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
327	107	JR WADAMASAKI LINE -1	7	> 0.12	YES	5.0	- 9.3	2.5	121.03	> 14.40	75.42	> 7.86	15.80	17.50	0.60	> 0.15	0.76	> 0.12	0.48	> 0.16	1.10	209.34	> 17.81	194.45	0.30	67452	30	0.500	50.28	Hamada et al. (1995); Tanaka and Okimura (2001); This Study
328	108	JAPAN RAILROAD WADAMASAKI LINE-2	7	> 0.12	YES	6.0	- 9.6	3.9	131.26	> 11.05	83.19	> 6.61	15.60	17.50	0.60	> 0.15	0.71	> 0.13	0.44	> 0.15	1.10	199.15	> 5.02							

387	15	ROKKO ISLAND-TEMPORARY HOUSING-north	7 ± 0.12	YES	4.0 - 5	3.6	67.06 ± 4.48	58.23 ± 4.39	14.30	17.30	0.50 ± 0.13	0.94 ± 0.08	0.35 ± 0.10	1.10	178.35 ± 6.10	155.30	0.16	42530	30	0.50	38.82	Hamada et al. (1995); Tanaka and Okimura (2001); This study
388	16	ROKKO ISLAND-EQ TEMPORARY HOUSING, Southwest	7 ± 0.12	YES	4.0 - 5	3.6	67.06 ± 4.48	58.23 ± 4.39	14.30	17.30	0.50 ± 0.13	0.93 ± 0.08	0.35 ± 0.10	1.10	201.36 ± 6.89	175.33	0.25	54213	30	0.50	38.82	Hamada et al. (1995); Tanaka and Okimura (2001); This study
389	46	SETO KOEN	7 ± 0.12	YES	4.0 - 7	2.0	92.76 ± 10.24	58.42 ± 6.09	15.70	17.50	0.40 ± 0.10	0.83 ± 0.10	0.34 ± 0.11	1.10	162.62 ± 8.75	141.25	0.13	35591	30	0.50	38.95	Hamada et al. (1995); Tanaka and Okimura (2001); This study
390	149	SUMA SEASIDE KOEN	7 ± 0.13	YES	4.0 - 7	3.0	88.26 ± 10.12	63.73 ± 6.06	15.00	17.30	0.60 ± 0.15	0.84 ± 0.10	0.45 ± 0.14	1.10	202.07 ± 6.88	179.97	0.25	57118	30	0.50	42.49	Hamada et al. (1995); Tanaka and Okimura (2001); This study
391	105	SUMIYOSHI GAWA KOEN	7 ± 0.12	YES	5.0 - 8	2.0	117.42 ± 10.97	73.72 ± 6.80	17.00	18.50	0.40 ± 0.10	0.82 ± 0.11	0.34 ± 0.11	1.10	176.29 ± 5.56	163.73	0.16	51172	30	0.50	48.85	Hamada et al. (1995); Tanaka and Okimura (2001); This study
392	143	TSUGA GAWA KOEN	7 ± 0.12	YES	5.0 - 8	4.0	102.26 ± 10.36	77.74 ± 6.29	14.70	17.30	0.50 ± 0.13	0.94 ± 0.11	0.40 ± 0.12	1.10	217.87 ± 8.24	204.76	0.37	73938	30	0.50	51.82	Hamada et al. (1995); Tanaka and Okimura (2001); This study
393	143	TSUGA GAWA KOEN	7 ± 0.12	YES	5.0 - 8	4.0	102.26 ± 10.36	77.74 ± 6.29	14.70	17.30	0.50 ± 0.13	0.94 ± 0.11	0.40 ± 0.12	1.10	217.87 ± 8.24	204.76	0.37	73938	30	0.50	51.82	Hamada et al. (1995); Tanaka and Okimura (2001); This study
394	141	UTI HAMA KOEN, HIGASHI NADA	7 ± 0.12	YES	4.0 - 10	1.0	41.75 ± 8.36	27.04 ± 3.87	15.80	17.30	0.50 ± 0.13	0.96 ± 0.05	0.48 ± 0.15	1.10	214.80 ± 5.05	154.39	0.34	42035	30	0.50	18.03	Hamada et al. (1995); Tanaka and Okimura (2001); This study
394	141	UTI HAMA KOEN, HIGASHI NADA	7 ± 0.12	YES	4.0 - 10	1.0	127.25 ± 19.53	63.49 ± 10.22	16.60	18.30	0.50 ± 0.13	0.67 ± 0.12	0.44 ± 0.17	1.10	160.38 ± 25.99	142.70	0.12	37985	30	0.50	42.32	Hamada et al. (1995); Tanaka and Okimura (2001); This study

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398	129	NANTO, 14 STOREY BLDG, DRIVING SCHOOL	7.6 ± 0.10	YES	4.5 - 7.5	1.0	106.50 ± 10.60	57.45 ± 6.41	16.00	18.10	0.40 ± 0.10	0.91 ± 0.11	0.44 ± 0.14	0.99	203.58 ± 8.59	176.67	0.24	57589	30	0.50	38.30	PEER (2006) ; Stewart (2001); This study
399	130	NANTO, BANANA PLANTATION	7.6 ± 0.10	YES	11.0 - 14.4	3.0	221.46 ± 14.71	126.30 ± 8.83	15.90	17.90	0.40 ± 0.10	0.74 ± 0.20	0.34 ± 0.13	0.99	185.84 ± 10.97	196.38	0.17	70369	30	0.50	84.20	PEER (2006) ; Stewart (2001); This study
400	131	NANTO, MARKET CANAL, WEST BANK	7.6 ± 0.10	YES	2.0 - 4.5	1.5	53.38 ± 8.18	36.21 ± 5.18	15.40	17.30	0.40 ± 0.10	0.98 ± 0.06	0.38 ± 0.12	0.99	194.18 ± 6.83	150.15	0.19	39757	30	0.50	24.14	PEER (2006) ; Stewart (2001); This study
401	132	NANTO, UCLA SITE A	7.6 ± 0.10	YES	3.0 - 6.1	3.0	70.68 ± 10.14	55.48 ± 6.03	14.60	17.30	0.40 ± 0.10	0.99 ± 0.08	0.33 ± 0.11	0.99	205.11 ± 1.60	176.45	0.24	54904	30	0.50	36.99	PEER (2006) ; Stewart (2001); This study
402	128	NANTO,MOULO RIVER, EAST BANK	7.6 ± 0.10	NO	1.5 - 3	0.5	39.38 ± 23.48	22.21 ± 4.20	16.00	17.90	0.40 ± 0.10	0.97 ± 0.05	0.45 ± 0.31	0.99	213.55 ± 6.54	146.13	0.30	38962	34	0.441	13.93	PEER (2006) ; Stewart (2001); This study
403	127	NANTO,MOULO RIVER, WEST BANK	7.6 ± 0.10	YES	2.0 - 3	0.5	44.00 ± 3.95	24.38 ± 3.92	16.00	18.00	0.40 ± 0.10	0.96 ± 0.05	0.45 ± 0.14	0.99	170.89 ± 15.70	119.70	0.13	26289	30	0.50	16.25	PEER (2006) ; Stewart (2001); This study
404	134	WUFENG, GAN SHI RICE FIELDS	7.6 ± 0.10	YES	1.0 - 3.6	1.0	38.05 ± 8.31	25.30 ± 5.18	15.50	17.30	0.66 ± 0.17	1.00 ± 0.05	0.64 ± 0.25	0.99	176.38 ± 9.88	124.69	0.14	27418	30	0.50	16.87	PEER (2006) ; Stewart (2001); This study
405	133	WUFENG, TILTED BLDG #2, LAI WEN SHI	7.6 ± 0.10	YES	1.3 - 3	0.9	35.73 ± 5.65	23.47 ± 4.51	15.60	17.30	0.66 ± 0.17	0.98 ± 0.04	0.64 ± 0.22	0.99	173.79 ± 8.48	120.57	0.14	25634	30	0.50	15.64	PEER (2006) ; Stewart (2001); This study
406	126	WUFENG, KTV KARAOKE BAR, GAN SHI RIVER	7.6 ± 0.10	YES	1.8 - 4	1.5	46.90 ± 8.22	33.17 ± 4.84	15.10	17.30	0.66 ± 0.17	0.99 ± 0.06	0.60 ± 0.20	0.99	217.78 ± 9.43	164.74	0.33	47863	30	0.50	22.11	PEER (2006) ; Stewart (2001); This study
407	125	WUFENG, SOUTH OF TAIWAN PROV. ASSEM.	7.6 ± 0.10	YES	2.5 - 6	1.5	71.88 ± 11.35	44.90 ± 6.42	15.80	17.50	0.66 ± 0.17	0.94 ± 0.08	0.65 ± 0.22	0.99	151.34 ± 8.22	123.49	0.10	27202	30	0.50	29.93	PEER (2006) ; Stewart (2001); This study
408	123	WUFENG, LAI WEN, RICE FIELD NR. GAN SHI	7.6 ± 0.10	YES	2.0 - 12	1.3	123.65 ± 10.40	67.74 ± 15.34	16.20	18.00	0.66 ± 0.17	0.67 ± 0.12	0.52 ± 0.24	0.99	160.35 ± 18.57	145.00	0.11	38579	30	0.50	45.16	PEER (2006) ; Stewart (2001); This study
409	122	WUFENG, TAIWAN, STATUE OF LIBERTY SITE	7.6 ± 0.10	YES	2.3 - 4	1.3	52.43 ± 5.90	34.28 ± 4.44	15.70	17.30	0.70 ± 0.18	0.96 ± 0.06	0.67 ± 0.21	0.99	147.41 ± 7.15	112.43	0.09	22293	30	0.50	22.85	PEER (2006) ; Stewart (2001); This study
410	124	WUFENG, TAIWAN, TAIWAN PROV.	7.6 ± 0.10	YES	2.5 - 6	1.5	76.00 ± 11.50	49.02 ± 6.14	16.90	18.40	0.66 ± 0.17	0.95 ± 0.07	0.63 ± 0.21	0.99	157.79 ± 8.62	131.61	0.11	32488	30	0.50	32.68	PEER (2006) ; Stewart (2001); This study
411	135	LIAN LIAN	7.6 ± 0.10	YES	6.0 - 12	1.5	159.75 ± 20.01	86.18 ± 10.54	16.60	18.10	0.25 ± 0.06	0.67 ± 0.15	0.20 ± 0.08	0.99	161.27 ± 13.19	154.89	0.11	44263	30	0.50	57.45	PEER (2006) ; Stewart (2001); This study

1999 Druce Earthquake, Turkey

414	9188	1-11 Adapazari, Turkey	7.40 ± 0.11	YES	6.5 - 8	2.4	127.68 ± 7.44	80.10 ± 5.49	16.00	18.40	0.4 ± 0.10	0.77 ± 0.13	0.31 ± 0.10	1.02	137.33 ± 11.55	129.50	0.09	31454	30	0.50	53.40	Bay and Cox (1999)
415	9189	1-24 Adapazari, Turkey	7.40 ± 0.11	YES	6.0 - 9	2.4	132.43 ± 11.21	82.40 ± 6.86	16.00	18.40	0.4 ± 0.10	0.76 ± 0.13	0.31 ± 0.10	1.02	146.74 ± 3.33	139.36	0.10	36425	30	0.50	54.93	Bay and Cox (1999)

2000 Totori Seibu Earthquake, Japan

419	156	SAKAI MINATO-SHOWA PIER, SOUTH SIDE	6.8 ± 0.13	YES	3.0 - 6.5	2.0	97.38 ± 6.53	60.59 ± 4.87	15.80	17.50	0.33 ± 0.08	0.61 ± 0.10	0.21 ± 0.07	1.15	100.06 ± 2.59	88.00	0.07	13814	30	0.50	40.40	Nozu (2002); Mori (2002,2003); Midorikawa (pers. Comm.); This study
420	155	SAKAI MINATO-TAKENOCHI DANCHI	6.8 ± 0.13	YES	5.0 - 7	2.0	102.01 ± 7.82	62.77 ± 5.31	16.00	18.10	0.33 ± 0.08	0.61 ± 0.11	0.21 ± 0.07	1.15	129.54 ± 8.61	114.70	0.09	22562	30	0.50	41.84	Nozu (2002); Mori (2002,2003); Midorikawa (pers. Comm.); This study
421	157	YONAGO, RADIO TOWER	6.8 ± 0.13	YES	5.0 - 6.2	1.0	99.10 ± 6.09	53.98 ± 4.86	16.30	18.00	0.38 ± 0.10	0.57 ± 0.10	0.26 ± 0.09	1.15	121.17 ± 8.61	103.53	0.08	19665	30	0.50	35.98	Nozu (2002); Mori (2002,2003); Midorikawa (pers. Comm.); This study

2001 Geyo-Hiroshima Ken Earthquake, Japan

424	177	HIROSHIMA, DEJIMA BASEBALL KOEN, SW SIDE	6.8 ± 0.13	YES	2.0 - 3	1.0	41.75 ± 3.86	27.04 ± 3.87	15.80	17.30	0.25 ± 0.06	0.91 ± 0.05	0.23 ± 0.07	1.15	158.36 ± 9.87	113.83	0.13	22848	30	0.50	18.03	Mori and Kadawaki (2002); Noboru and Eiji (2002); Ochiai et al. (2002); This study
425	178	HIROSHIMA, DEJIMA BASEBALL KOEN, NE CORNER	6.8 ± 0.13	YES	2.0 - 3	1.0	41.75 ± 3.86	27.04 ± 3.87	15.80	17.30	0.25 ± 0.06	0.90 ± 0.05	0.23 ± 0.07	1.15	145.90 ± 9.09	104.87	0.11	19395	30	0.50	18.03	Mori and Kadawaki (2002); Noboru and Eiji (2002); Ochiai et al. (2002); This study
426	179	HIROSHIMA, KONUN SHIN NACHI BASEBALLFIELD, E SIDE	6.8 ± 0.13	YES	2.0 - 3	1.0	41.75 ± 3.86	27.04 ± 3.87	15.80	17.30	0.25 ± 0.06	0.83 ± 0.05	0.21 ± 0.06	1.15	168.20 ± 2.55	120.90	0.14	25777	30	0.50	18.03	Mori and Kadawaki (2002); Noboru and Eiji (2002); Ochiai et al. (2002); This study
427	182	HIROSHIMA, NISHI KU PIER, N. END	6.8 ± 0.13	YES	4.7 - 9.2	3.0	115.08 ± 14.85	76.33 ± 8.01	15.50	17.30	0.25 ± 0.06	0.78 ± 0.12	0.19 ± 0.06	1.15	163.16 ± 5.75	152.02	0.13	40753	30	0.50	50.89	Mori and Kadawaki (2002); Noboru and Eiji (2002); Ochiai et al. (2002); This study
428	181	HIROSHIMA, NISHI KU PIER, S. END	6.8 ± 0.13	YES	9.0 - 12	1.0	189.75 ± 13.02	96.56 ± 8.24	16.80	18.20	0.26 ± 0.07	0.69 ± 0.17	0.23 ± 0.09	1.15	179.25 ± 28.52	177.11	0.17	58198	30	0.50	64.37	Mori and Kadawaki (2002); Noboru and Eiji (2002); Ochiai et al. (2002); This study

2002 Denali Fault Earthquake, Alaska, USA

431	591	DELTA RIVER	7.9 ± 0.10	NO	1.0 - 2.5	0.5	33.20 ± 5.30	20.94 ± 4.80	18.50	19.10	0.36 ± 0.09	1.00 ± 0.04	0.37 ± 0.14	0.94	280.53 ± 73.45	189.16	2.17	69663	34	0.441	13.13	Kayen et al. (2004)
432	596	Felding Lake Park	7.9 ± 0.10	YES	1.0 - 2.5	0.5	33.20 ± 5.30	20.94 ± 4.80	18.50	19.10	0.36 ± 0.09	0.97 ± 0.04	0.36 ± 0.13	0.94	173.31 ± 20.15	116.86	0.13	26589	30	0.50	13.96	Kayen et al. (2004)
433	598	Felding Lake Park	7.9 ± 0.10	YES	1.0 - 2.5	0.5	33.20 ± 5.30	20.94 ± 4.80	18.50	19.10	0.36 ± 0.09	0.97 ± 0.04	0.36 ± 0.13	0.94	173.31 ± 20.15	116.86	0.13	26589	30	0.50	13.96	Kayen et al. (2004)
434	585	NABESNA RIVER NEAR FAULT	7.9 ± 0.10	NO	1.0 - 2.5	0.5	33.20 ± 5.30	20.94 ± 4.80	18.50	19.10	0.36 ± 0.09	1.00 ± 0.04	0.37 ± 0.14	0.94	234.37 ± 81.36	158.03	0.48	48624	34	0.441	13.13	Kayen et al. (2004)
435	584	NABESNA RIVER NEAR FAULT	7.9 ± 0.10	YES	1.0 - 2.5	0.5	33.20 ± 5.30	20.94 ± 4.80	18.50	19.10	0.36 ± 0.09	1.00 ± 0.04	0.37 ± 0.14	0.94	362.87 ± 94.66	244.67	12.72	116554	34	0.441	13.13	Kayen et al. (2004)
436	585	NABESNA RIVER NEAR FAULT	7.9 ± 0.10	NO	1.0 - 2.5	0.5	33.20 ± 5.30	20.94 ± 4.80	18.50	19.10	0.36 ± 0.09	1.00 ± 0.04										

484	79C	NAKAJIMA WHARF	7.40 ± 0.11	YES	5.0 - 10	2.4	131.59 ± 16.89	83.52 ± 9.17	17.00	17.80	0.76 ± 0.19	0.72 ± 0.13	0.54 ± 0.19	1.02	158.20 ± 10.54	150.74	0.11	41231	30	0.500	55.68	Kayen et al. (2011); This study
485	80C	FISHERY PORT/OIL TANK (UNIMPROVED)	7.40 ± 0.11	YES	2.4 - 6.2	2.4	75.82 ± 12.55	47.38 ± 7.14	17.00	18.40	0.76 ± 0.19	0.95 ± 0.08	0.73 ± 0.25	1.02	142.46 ± 15.00	117.81	0.09	26033	30	0.500	51.58	Kayen et al. (2011); This study
486	81C	KITAWABUCHI, EAI RIVER, OLD MEANDER	7.40 ± 0.11	YES	3.0 - 6.2	2.4	79.01 ± 10.76	53.50 ± 6.43	17.00	17.30	0.38 ± 0.10	0.91 ± 0.08	0.32 ± 0.10	1.02	138.99 ± 6.93	118.49	0.09	24759	30	0.500	35.67	Kayen et al. (2011); This study
487	82C	KITAWABUCHI, EAI RIVER, OLD MEANDER	7.40 ± 0.11	YES	3.0 - 6.1	2.4	78.06 ± 10.45	53.04 ± 6.30	17.00	17.30	0.38 ± 0.10	0.76 ± 0.08	0.27 ± 0.09	1.02	169.86 ± 3.46	144.49	0.13	36819	30	0.500	35.36	Kayen et al. (2011); This study
2011 Tohoku Earthquake Mainshock, March 11, 2011																						
490	81D	KITAWABUCHI, EAI RIVER, OLD MEANDER	9.00 ± 0.07	YES	3.0 - 6.2	2.4	79.01 ± 10.76	53.50 ± 6.43	17.00	17.30	0.27 ± 0.07	0.93 ± 0.08	0.29 ± 0.09	0.79	138.99 ± 6.93	118.49	0.07	24759	30	0.500	35.67	Kayen et al. (2011); This study
491	82D	KITAWABUCHI, EAI RIVER, OLD MEANDER	9.00 ± 0.07	YES	3.0 - 6.1	2.4	78.06 ± 10.45	53.04 ± 6.30	17.00	17.30	0.27 ± 0.07	0.81 ± 0.08	0.25 ± 0.08	0.79	139.48 ± 3.46	118.65	0.07	24825	30	0.500	35.36	Kayen et al. (2011); This study