USGS National-Strong Motion Program
Preliminary Corrected Peak Ground Acceleration and Velocity Values for
February 28, 2001, Nisqually, WA Earthquake (posted 02/28/2001; updated 03/09/2001)

Mw 6.8, 02/28/2001, 18:54:31 UTC, 10:54:31 AM PST, 47.167 N, 122.733W, 59 km depth
Time Series data are available for recorders with channel numbers listed with **bold** type

Sta No	Inst type	Inst S/N	State	City: Recorder Name; location	Owner	Lat deg	Lon deg	Dist km	Az deg	Ch No	Sensor type	Orient deg	PGA cm/s/s	PGV cm/s
2164	SMA1	1251	WA	Mud Mtn Dam; right abutment (downstream)	ACOE	47.142	-121.946	59.7	92	1	SMA1	360	93	**
										2	SMA1	UP	63	**
										3	SMA1	270	112	**
2164	SMA1	1234	WA	Mud Mountain Dam; crest	ACOE	47.139	-121.932	60.8	93	1	SMA1	360	power	
										2	SMA1	UP	supply	
										3	SMA1	270	failure	
2164	SMA1	1248	WA	Mud Mountain Dam; toe	ACOE	47.138	-121.934	60.7	93	1	SMA1	360	power	
										2	SMA1	UP	supply	
										3	SMA1	270	failure	
7037	ETNA	2147	WA	Seattle; Ship Canal Locks	USGS	47.665	-122.397	60.9	24	**1**	Episensor	120	-56.24	-8.93
										2	Episensor	30	63.05	-9.77
										3	Episensor	UP	26.84	3.28
2158	SMA1	1235	WA	Wynoochee Dam; abutment	TPU	47.39	-123.60	70.1	291	1	SMA1	115	11	**
										2	SMA1	UP	11	**
										3	SMA1	25	15	**
2158	SMA1	1236	WA	Wynoochee Dam; upper gallery	TPU	47.39	-123.60	70.1	291	1	SMA1	115	16	**
										2	SMA1	UP	10	**
										3	SMA1	25	43	**
2158	SMA1	1250	WA	Wynoochee Dam; lower gallery	TPU	47.39	-123.60	70.1	291	1	SMA1	115	13	**
				[note: instrument = 1/2 g full scale]						2	SMA1	UP	15	**
										3	SMA1	25	10	**
2189	SMA1	3348	WA	Howard Hanson Dam; left abutment	ACOE	47.280	-121.790	72.5	80	1	SMA1	50	103	**
										2	SMA1	UP	72	**
										3	SMA1	320	108	**
2189	SMA1	3345	WA	Howard Hanson Dam; crest	ACOE	47.278	-121.787	72.7	80	1	SMA1	50	549	**
				(Recorded motions are suspect due to						2	SMA1	UP	362	**
				damage to instrument enclosure)						3	SMA1	320	1345	**
2189	SMA1	3349	WA	Howard Hanson Dam; toe	ACOE	47.279	-121.787	72.7	80	1	SMA1	050	32	**
										2	SMA1	UP	26	**
										3	SMA1	320	88	**
7007	SMA1	6818	WA	Toutle River Dam; left abutment (downstream)	ACOE	46.366	-122.560	90.0	171	1	SMA1	055	37	**
										2	SMA1	UP	15	**
										3	SMA1	325	26	**

7007	SMA1	6817	WA	Toutle River Dam; downstream	ACOE	46.365	-122.554	90.2	171	1	SMA1	055	98	**
										2	SMA1	UP	44	**
										3	SMA1	325	129	**
7007	SMA1	6816	WA	Toutle River Dam; mid-dam	ACOE	46.362	-122.553	90.5	171	1	SMA1	055	51	**
										2	SMA1	UP	53	**
										3	SMA1	325	52	**
7007	SMA1	6815	WA	Toutle River Dam; crest	ACOE	46.362	-122.551	90.6	171	1	SMA1	055	71	**
										2	SMA1	UP	41	**
										3	SMA1	325	74	**
7007	SMA1	6814	WA	Toutle River Dam; left abutment	ACOE	46.360	-122.556	90.7	171	1	SMA1	055	26	**
										2	SMA1	UP	12	**
										3	SMA1	325	26	**
2161	K2	1535	WA	Chief Joseph Dam; upper gallery	ACOE	47.995	-119.635	250.6	67	**1**	Episensor	198	-7.11	0.43
				upper gallery						**2**	Episensor	108	10.75	0.42
				upper gallery						**3**	Episensor	UP	3.08	0.35
				lower gallery						**4**	Episensor	198	-2.77	-0.32
				lower gallery						**5**	Episensor	108	2.29	-0.28
				lower gallery						**6**	Episensor	UP	2.39	0.34

ACOE U.S. Army Corps of Engineers

** data not processed yet

Note: Peak accel values for SMA1 recorders were scaled from analog film records