

## Current News Release - 5 September 2000

### Quick Report on Strong Motion Data from the M5.2 Earthquake near Napa, California, September 3, 2000

A magnitude 5.2 ML earthquake occurred on September 3, 2000 at 01:36 am (PDT) in Northern California, approximately 12 km (7 mi) NW of Napa, 5km (3 mi) WSW of Yountville, and 27 km (17 mi) ESE of Santa Rosa. The event occurred on the West Napa fault, which is approximately midway between the Rodgers Creek fault (the northern extension of the Hayward fault) and the northern extension of the Calaveras fault. The event had a strike-slip mechanism and occurred at 38.377N, 122.414W, 9km depth, according to the location by the US Geological Survey and UC Berkeley seismic networks (see <http://quake.wr.usgs.gov/recenteqs> and <http://ncweb-east.wr.usgs.gov/quakes/nc51101203.html>). (The preliminary version of the ShakeMap of the ground shaking, under development in Northern California, will be available at <http://quake.wr.usgs.gov/study/effects>, and include ground motion data of the USGS, CDMG and Berkeley as a product of the California Integrated Seismic Network.)

Although the earthquake was widely felt throughout the San Francisco Bay area and as far away as Sacramento, the accelerations recovered so far are low except in the Napa area. Media reports describe extensive effects, ranging from commodities knocked off shelves to preliminary reports of some structural damage and injuries.

The table below lists currently available peak accelerations from stations which have telephone or other communication capability. The largest acceleration was recorded at Napa College (a station only recently upgraded with OES/FEMA support as a TriNet North/CISN station), where a peak acceleration of .34g and peak velocity of 25 cm/sec was recorded. The spectral acceleration peaked at just over 1.0g, at about .4 second period. The station is located south of town, near the junction of Hwys 12 and 29.

#### Preliminary Peak Accelerations from CSMIP/CISN Stations for M5.2 Napa/Yountville Earthquake of 01:36, Sep 3, 2000

Station Number	Station Name	N. Lat	W. Long	Distance (km)	Max Accel. (g) Ground Struct
68150	Napa - Napa College	38.270	122.276	16.9	.337g
68797	Rohnert Park - Hwy 101 Geotech Array	38.350	122.712	26.0	.010g
68669	Santa Rosa - 4-story Hospital	38.472	122.726	29.2	.005g
58642	Treasure Island -	38.825	122.373	61.4	.009g

	Geotechnical Array				
58700	San Francisco - Golden Gate Bridge (Base, Sth Tower)	37.818	122.477	62.3	.009g
58716	San Francisco - Golden Gate Bridge, South Grounds	37.806	122.474	63.6	.006g
58639	Oakland - 13-story Residential Bldg	37.815	122.261	63.8	.009g
58675	Oakland - 18-story City Hall	37.805	122.271	64.7	.005g
58740	San Francisco - 2-story Commercial Bldg	37.794	122.396	64.7	.007g
58718	San Francisco - 6-story Hospital	37.783	122.441	66.0	.003g
58768	San Francisco - 6-story Govt Office Building	37.771	122.419	67.3	.010g .029g
58661	Castro Valley - 3-story Hospital	37.697	122.088	80.7	.012g
58769	Hayward - 4-Story City Hall	37.671	122.085	83.5	.005g .012g
58641	Newark - 8-story Govt Office Building	37.535	122.028	99.4	.004g
57783	Fremont - 3-story Police Dept Bldg	37.553	121.968	99.5	.005g .015g
58588	Stanford - 2-story School Office Budg	37.428	122.161	107.7	.005g
58754	Half Moon Bay - Hwy 1/Tunitas Cr. Bridge	37.357	122.396	113.2	.007g .021g

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