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California Fault Parameters 1996 Draft

Mines & Geology

ELSINORE FAULT ZONE

This table presents the preliminary values used by the [California Department of Conservation's Division of Mines and Geology](#) and the [U.S. Geological Survey](#) for estimating seismic hazard in the State of California.

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Fault Name and Geometry (1)	Length		Slip Rate		Rank (2)	Maximum Moment Magnitude (3)	Moment Rate (Newton-meters/yr)	Characteristic Return Interval (yrs)	Down-Dip Width (km)	Dip (deg.)	Magnitude Distribution Type (4)	Segment Endpoint North (Lon/Lat)	Segment Endpoint South (Lon/Lat)	Comments
	(km)	+/-	(mm/yr)	+/-										
Laguna Salada (rl-ss)	67	7	3.50	1.50	M	7.0	1.1E+17	336	15	90	c	-115.88; 32.73	-115.40; 32.29	Slip rate reported by Mueller and Rockwell (1995).
Elsinore-Coyote Mountain (rl-ss)	38	4	4.00	2.00	M	6.8	6.8E+16	625	15	90	c	-116.36; 32.97	-116.01; 32.78	Slip rate and fault length reported by WGCEP (1995).
Elsinore-Julian (rl-ss)	75	8	5.00	2.00	P	7.1	1.7E+17	340	15	90	c	-117.01; 33.38	-116.36; 32.97	Slip rate and fault length reported by WGCEP (1995).
Earthquake Valley (rl-ss)	20	2	2.00	1.00	U	6.5	1.8E+16	351	15	90	cg	-116.58; 33.18	-116.41; 33.07	Slip rate based on Rockwell (p.c. 1996).
Elsinore-Temecula (rl-ss)	42	4	5.00	2.00	M	6.8	9.5E+16	240	15	90	c	-117.35; 33.64	-117.01; 33.34	Slip rate and fault length reported by WGCEP (1995).
Elsinore-Glen Ivy (rl-ss)	38	4	5.00	2.00	M	6.8	8.6E+16	340	15	90	c	-117.64; 33.85	-117.35; 33.64	Reported slip rates vary from 3.0-7.2 (Millman and Rockwell, 1986)
Whittier (rl-ss)	37	4	2.50	1.00	M	6.8	4.2E+16	641	15	90	c	-118.02; 33.97	-117.64; 33.85	Slip rate based on Rockwell et al. (1990); Gath et al. (1992) description of offset drainage.
Chino-Central Ave. (rl-r-o) (65 SW)	28	3	1.00	1.00	U	6.7	1.4E+16	882	17	65	cg	-117.75; 34.03	-117.57; 33.83	Unconstrained slip rate based on assumptions of slip transfer between Elsinore and Whittier faults.

1. (ss) strike slip, (r) reverse, (n) normal, (rl) right lateral, (ll) left lateral, (o) oblique

2. W = well constrained slip rate; M = moderately constrained slip rate; P = poorly constrained slip rate; U = unconstrained.

3. Maximum moment magnitude calculated from rupture area regressions (type "all") from Wells and Coppersmith (1994).

4. (c) characteristic; (g) Gutenberg-Richter; (cg) 50% characteristic - 50% Gutenberg-Richter.

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