

MATRICES FOR PREDICTING PERCENT OF UNITS MADE UNINHABITABLE

The final matrices used in this project for relating intensity and building construction to percent of dwelling units made uninhabitable are shown in the tables below, the first for red-tagged units and the second for yellow-tagged multi-family units. Prior to ABAG's work on housing habitability, the only published matrix for relating these variables was developed by Dunne and Sonnenfeld (1991). The matrices developed for *red-tagged* and *yellow-tagged* units in this project has been modified from this earlier matrix based on actual data from the Loma Prieta and Northridge earthquakes. The percentages are provided using two significant figures, with a the smallest unit equal to 0.01%.

TABLE: PERCENT OF DWELLING UNITS RED TAGGED

TYPE	INTENSITY					
	V	VI	VII	VIII	IX	X+
Mobile Homes	0	0	0.87	40	90	100
Unreinforced Masonry	0	0.05	2.9	45	70	80
Non-Wood , 4-7 Stories, <1940	0	0.30	8.0	45	70	80
Non-Wood, 4-7 Stories, >1939	0	0	0	16	54	70
Non-Wood, 7+ Stories, <1940	0	0.30	8.0	45	70	80
Non-Wood, 7+ Stories, >1939	0	0	0	16	54	70
Wood-Frame, 4-7 Stories, <1940, Multi-Family	0	1.4	2.5	45	70	80
Wood-Frame, 4-7 Stories, >1939, Multi-Family	0	0	0.09	10	15	25
Wood-Frame, 1-3 Stories, <1940, Multi-Family	0	0.05	0.53	11	44	64
Wood-Frame, 1-3 Stories, >1939, Multi-Family	0	0.01	0.04	6.5	15	25
Wood-Frame, 1-3 Stories, <1940, Single Family	0.01	0.04	0.12	1.8	8.4	12
Wood-Frame, 1-3 Stories, >1939, Single Family	0	0	0.02	0.18	0.69	1.8
"Other" (tents, caves, boats, etc.)	0	0	0	0	0	0