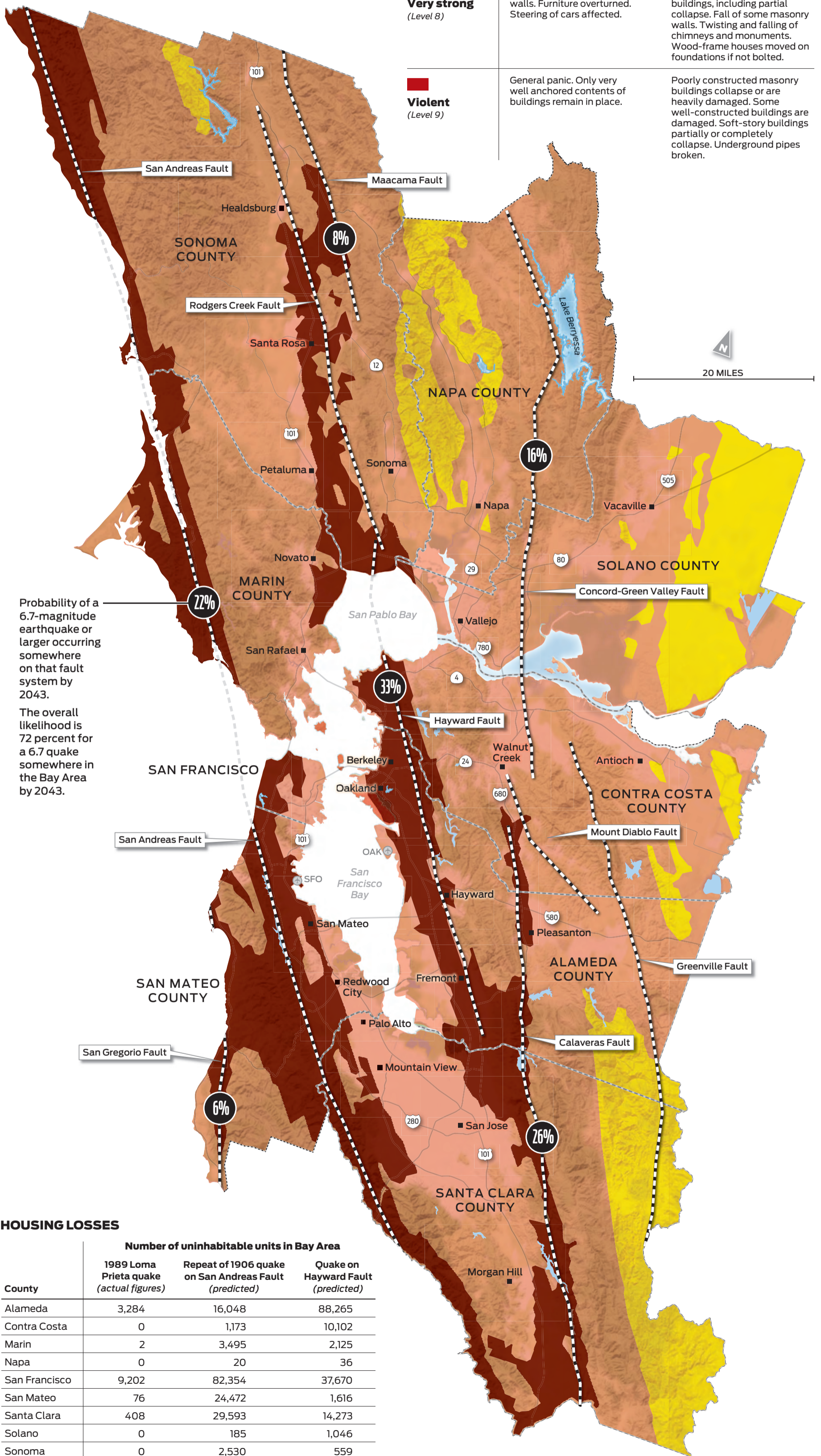


HOW MUCH WILL THE GROUND SHAKE?

This map shows the estimated intensity of earthquake ground shaking across the Bay Area based on quake scenarios and likelihood information for all faults in the region. Developed by the Association of Bay Area Governments, the U.S. Geological Survey and the California Geological Survey, the map uses the Modified Mercalli Intensity scale, which describes earthquake shaking severity by its effects on people, objects and buildings. The amount of shaking in a particular location will depend on the type of ground underneath and how far it is from the fault that ruptured. For additional earthquake hazard information, including interactive maps for each county, go to resilience.abag.ca.gov/earthquakes/.

MAP LEGEND

Shaking severity (MMI scale level)	Effects on people and objects	Effects on structures
Strong (Level 7)	Difficult to stand or walk. Many things thrown from walls and shelves. Furniture is shifted or broken. Shaking is noticed by drivers of cars.	Damage to poorly built masonry buildings. Weak chimneys broken at roof line. Fall of plaster, loose bricks, stones, tiles, cornices, unbraced parapets and porches. Some cracks in better masonry buildings.
Very strong (Level 8)	Nearly everything thrown from shelves, cabinets and walls. Furniture overturned. Steering of cars affected.	Extensive damage to unreinforced masonry buildings, including partial collapse. Fall of some masonry walls. Twisting and falling of chimneys and monuments. Wood-frame houses moved on foundations if not bolted.
Violent (Level 9)	General panic. Only very well anchored contents of buildings remain in place.	Poorly constructed masonry buildings collapse or are heavily damaged. Some well-constructed buildings are damaged. Soft-story buildings partially or completely collapse. Underground pipes broken.



Probability of a 6.7-magnitude earthquake or larger occurring somewhere on that fault system by 2043.

The overall likelihood is 72 percent for a 6.7 quake somewhere in the Bay Area by 2043.

HOUSING LOSSES

County	Number of uninhabitable units in Bay Area		
	1989 Loma Prieta quake (actual figures)	Repeat of 1906 quake on San Andreas Fault (predicted)	Quake on Hayward Fault (predicted)
Alameda	3,284	16,048	88,265
Contra Costa	0	1,173	10,102
Marin	2	3,495	2,125
Napa	0	20	36
San Francisco	9,202	82,354	37,670
San Mateo	76	24,472	1,616
Santa Clara	408	29,593	14,273
Solano	0	185	1,046
Sonoma	0	2,530	559
TOTAL	12,972	159,870	155,692

Sources: Association of Bay Area Governments, U.S. Geological Survey

Todd Trumbull / The Chronicle