

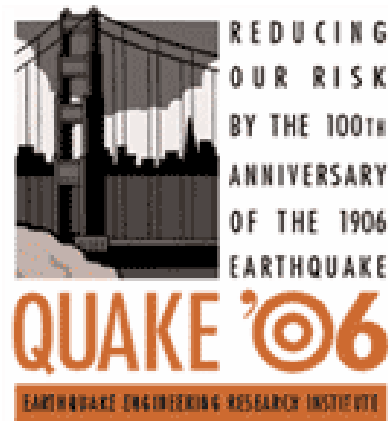
How EERI Can Help YOU

Retrofit Funding for Public
Buildings



EERI is a national, non-profit technical society founded in 1949 whose mission is to reduce earthquake risk worldwide.

Its 2500 members include engineers, geoscientists, architects, planners, public officials, and social scientists.



Quake '06 was launched in 2002 to help various groups including:

- Local Governments
- Schools
- Utilities/Lifelines
- Commercial/Historic Building Owners
- Residential Building Owners/Tenants

Identifying the Risks...

quake06.org

- Best Practices
- Fact Sheets

abag.ca.gov

- Seismic Mitigation Survey by ABAG and EERI-NC/Quake '06

Good Government

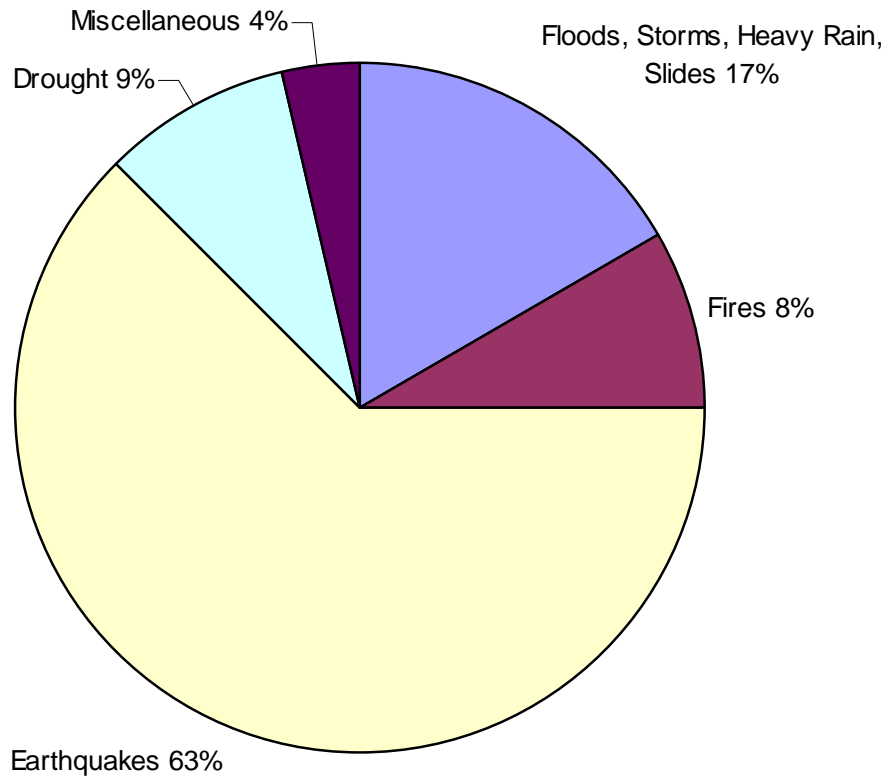
DMA2K Plans by

NOVEMBER 1, 2004

Top 10 Major Disasters Ranked By FEMA Relief Costs 1987 – 1996 (Source: FEMA)

- **Northridge EQ (1994)** **\$5.558 billion**
- Hurricane Andrew (1992) 1.803 billion
- Hurricane Hugo (1989) 1.320 billion
- Midwest Floods (1993) 1.144 billion
- **Loma Prieta EQ (1989)** **837 million**
- Hurricane Marilyn (1995) 543 million
- Hurricane Fran (1996) 496 million
- Tropical Storm Alberto (1994) 433 million
- Winter Storms (1995) 372 million
- Mid-Atlantic/Northeast Floods (1996) 359 million

Disasters in California Since 1950 by Cost



Retrofit Funding for Public Buildings

FEMA Post-Disaster Mitigation Funding (HMGP)

- 1994 Northridge EQ:
\$740 million (15% of FEMA P.A. funds)
348 projects
- 1989 Loma Prieta EQ:
\$58 million (10% of FEMA P.A. funds)
84 projects

What EERI/Quake '06 can offer

Obtain answers and clarifications regarding specifics of the DMA2K plans, and make this info available, e.g.

- Q. Can Board and Commission meetings be considered part of the public process?
 - A. *Yes if the Board and Commission members are volunteers, i.e. not paid.*

- Q. What level of detail is required?
 - A. *For this initial round, it will be acceptable focus on compiling existing data, identifying gaps in the data, prioritize filling in these gaps.*

- Q. Do we have to use HAZUS to estimate losses?
 - A. *No, but it is a FEMA program and its output may be more familiar to FEMA reviewers.*

What EERI/Quake '06 can offer

- **Provide examples** of FEMA-approved mitigation plans
- **Keep local jurisdictions posted** on any other plans approved and the upcoming FEMA **Mitigation Plan Repository** website

What EERI/Quake '06 can offer

- **Assist in developing inventories** by working with local government staff to
 - **Make presentations** to City Councils, etc. regarding the importance of inventorying and evaluating risks
 - **Train** local gov't staff to perform rapid visual screenings
 - **Organize** teams of students/engineers to perform rapid visual screenings
 - **Review** inventory criteria and collected data

What have local gov'ts done so far

Based on ABAG/EERI's 2002 Seismic Mitigation Survey [87 surveys returned of 109 sent out to local gov'ts (80%)]:

- 75 local gov'ts already **have an inventory** of their owned/leased buildings and structures
- 14 local gov'ts have **evaluated the location** of all their facilities with respect to seismic hazards, 25 have evaluated some of their facilities
- 15 local gov'ts have **evaluated the structural vulnerability** of all of their facilities, 25 have evaluated some of their facilities



Retrofit Funding for Public Buildings