

如需中文問卷,請利用內附回郵信封告知我們您的通訊地址。

Si desea recibir una versión en español del cuestionario, por favor, envíe su dirección postal en el sobre con sello pagado.

January , 1992

Dear Bay Area Resident:

The National Science Foundation is sponsoring this study on public information about earthquakes and whether people have done things to get ready for another quake in the Bay Area. The research is being conducted by the Hazards Assessment Laboratory at Colorado State University in cooperation with the Bay Area Regional Earthquake Preparedness Project (BAREPP).

The results of this study will be provided to quake preparedness specialists in California and other earthquake-prone areas in the nation. Results could influence future earthquake preparedness work.

Your household has been scientifically selected at random to participate in this project. It is important for everyone who was selected to participate. Our findings will not represent the Bay Area unless you complete and return the questionnaire.

Please have a head-of-household fill out and return the enclosed questionnaire. **NO INDIVIDUAL'S ANSWERS WILL BE REVEALED TO ANYONE. ALL INFORMATION WILL BE KEPT STRICTLY CONFIDENTIAL. WE WILL ONLY GENERALIZE WHAT IS REPORTED.**

If you have questions about the study, please telephone the Hazards Assessment Laboratory at (303) 491-7347. One of the Laboratory staff will be happy to discuss the study with you. If you are interested in receiving a summary of the study results, just provide us with your name and address. You can do this when you return your questionnaire or by a separate mailing.

Please spend a few minutes in filling out the questionnaire and return it in the postage-paid envelope provided.

Thank you very much for your participation.

Sincerely,

Dennis S. Mileti, Ph.D.
Principal Investigator

THE FIRST SET OF QUESTIONS ADDRESSES BELIEFS YOU MAY HOLD ABOUT EARTHQUAKES AND OTHER HAZARDS.

1. Thinking about the chances of property damage and loss of life and injuries, which of the following hazards is the most threatening to the Bay Area? (CIRCLE ONE)

- 1 = Tornadoes
- 2 = Floods
- 3 = Severe storms
- 4 = Earthquakes
- 5 = Nuclear or radiological accidents
- 6 = Chemical or toxic waste spills
- 7 = Water contamination or other pollution
- 8 = Wildfire

2. Do you agree with any of the following statements?

A damaging earthquake will occur in the Bay Area within the next couple of years.
(CIRCLE ONE)

- 1 = Yes
- 2 = Don't know
- 3 = No

An earthquake will occur in the Bay Area within the next couple of years, and cause me, my family or my home injury or damage. (CIRCLE ONE)

- 1 = Yes
- 2 = Don't know
- 3 = No

3. What do you think the odds are that a damaging earthquake will occur in the Bay Area within the next couple of years, and cause you, your family or your residence injury or damage; for example, 0 chances in 10, 1 chance in 10, 5 chances in 10, 10 chances in 10?
(PLEASE FILL IN)

_____ chances in 10

4. Do you agree with any of the following statements?

A damaging earthquake will occur in the Bay Area five or more years from now.
(CIRCLE ONE)

- 1 = Yes
- 2 = Don't know
- 3 = No

An earthquake will occur in the Bay Area five or more years from now and cause me, my family or my home injury or damage. (CIRCLE ONE)

- 1 = Yes
- 2 = Don't know
- 3 = No

5. What do you think the odds are that an earthquake will occur in the Bay Area five or more years from now and cause you, your family or your home injury or damage? For example, 0 chances in 10, 1 chance in 10, 5 chances in 10, 10 chances in 10? (PLEASE FILL IN)

_____ chances in 10

6. Do you think that your household is adequately prepared for a damaging earthquake?
(CIRCLE ONE)

- 1 = Yes
- 2 = Don't know
- 3 = No

7. Do you think that other households in your community are adequately prepared for a damaging earthquake? (CIRCLE ONE)

- 1 = Yes
- 2 = Don't know
- 3 = No

8. Do you think that government in your area is adequately prepared for a damaging earthquake?
(CIRCLE ONE)

- 1 = Yes
- 2 = Don't know
- 3 = No

THE FOLLOWING SET OF QUESTIONS ASK ABOUT ANY INFORMATION YOU MAY HAVE RECEIVED ABOUT THE NEXT DAMAGING BAY AREA EARTHQUAKE OR WHAT TO DO TO GET READY FOR IT.

9. Have you heard about the next damaging earthquake that could strike the Bay Area?
(CIRCLE ONE)

- 1 = Yes
- 2 = Don't know
- 3 = No

10. Have you gotten information about the next damaging Bay Area earthquake from any of the following? (CIRCLE ALL THAT APPLY)

- 1 = I haven't gotten any information
- 2 = Federal government (for example, Federal Emergency Management Agency)
- 3 = State government (for example, Governor's Office of Emergency Services, Bay Area Regional Earthquake Preparedness Project)
- 4 = Association of Bay Area Governments
- 5 = County government (for example, county emergency services)
- 6 = City government (for example, police or fire departments)
- 7 = Television or radio
- 8 = Newspapers or magazines
- 9 = Meetings, seminars or workshops
- 10 = Businesses (for example, pamphlets in utility bills or messages on grocery bags)
- 11 = School handouts (for example, coloring books or brochures)
- 12 = Friends, relatives or neighbors
- 13 = Service organizations (for example, the Red Cross or United Way)
- 14 = The newspaper magazine "The Next Big Earthquake In the Bay Area May Come Sooner Than You Think"
- 15 = Where you work
- 16 = Posters or postcards
- 17 = Quake watch -- weekly newspaper updates
- 18 = Other

11. Do you recall any of the following information you may have received about the next damaging Bay Area earthquake? (CIRCLE ALL THAT APPLY)

- 1 = I haven't gotten any information
- 2 = The earthquake may be about magnitude 7.0
- 3 = The earthquake has a 67% chance of happening during the next 30 years
- 4 = The 67% probability does not take into account that earthquakes in the area can occur within a couple of years of each other.
- 5 = The earthquake will most likely strike somewhere between San Jose and Santa Rosa on either side of the Bay
- 6 = The earthquake will cause much more damage than the Loma Prieta earthquake
- 7 = The earthquake will likely be centered in a more populated area than the Loma Prieta earthquake
- 8 = Scientists agree about the next Bay Area earthquake
- 9 = Earthquake damage is typically concentrated in areas nearest to the faults that move
- 10 = Earthquake damage is typically concentrated in areas of soft soils where shaking is increased
- 11 = Earthquake damage is typically concentrated in areas where the ground may settle or slide
- 12 = Some scientists are concerned that the Loma Prieta earthquake could be the first quake of a pair of earthquakes of magnitude 6.5 or greater
- 13 = Earthquake damage is particularly great in certain locations and in certain buildings

12. Do you recall hearing any of the following recommendations about where to seek more information? (CIRCLE ALL THAT APPLY)

- 1 = I don't recall any of the following recommendations
- 2 = From federal government (for example, Federal Emergency Management Agency)
- 3 = From state government (for example, Governor's Office of Emergency Services, Bay Area Regional Earthquake Preparedness Project)
- 4 = From the Association of Bay Area Governments
- 5 = From county government (for example, county emergency services)
- 6 = From city government (for example, police or fire departments)
- 7 = From private organizations (for example, Red Cross, utilities, phone company)

13. Do you recall receiving any of the following recommendations about what to do? (CIRCLE ALL THAT APPLY)

- 1 = I don't recall any of the following recommendations about what to do
- 2 = To find out about emergency plans at schools
- 3 = To look into buying earthquake insurance
- 4 = To find out if you live or work in a neighborhood particularly vulnerable to earthquake damage
- 5 = To have home inspected for earthquake resistance

14. Do you recall receiving any of the following recommendations about reducing losses?
(CIRCLE ALL THAT APPLY)

- 1 = I don't recall information about any of the following activities
- 2 = Rearrange breakable household items
- 3 = Put strong latches on cabinet doors
- 4 = Store hazardous materials safely
- 5 = Add lips to shelves to keep things from sliding off
- 6 = Strap water heater
- 7 = Install flexible piping to gas appliances
- 8 = Brace house walls
- 9 = Bolt house to foundation

15. Do you recall receiving any of the following recommendations about how to prepare?
(CIRCLE ALL THAT APPLY)

- 1 = I don't recall information about any of the following activities
- 2 = Stockpile water and food for three days
- 3 = Store emergency equipment (for example, flashlights, fire extinguisher, first-aid kit)
- 4 = Put wrench by gas turnoff valve
- 5 = Develop an earthquake plan
- 6 = Pick an emergency contact person outside the area
- 7 = Learn how to assist elderly or immobile people
- 8 = Learn how to rescue trapped people
- 9 = Learn how to put out fires
- 10 = Buy earthquake insurance
- 11 = Learn to provide first aid

16. Think about everything you may have heard about the next damaging Bay Area earthquake.
How consistent was this information? (CIRCLE ONE)

- 1 = I have not heard about the next damaging Bay Area earthquake
- 2 = Consistent
- 3 = Fairly consistent
- 4 = Unsure
- 5 = Fairly inconsistent
- 6 = Inconsistent

IN SEPTEMBER 1990, A BRIGHTLY COLORED MAGAZINE ABOUT THE NEXT BAY AREA EARTHQUAKE WAS INSERTED INTO THE SUNDAY EDITION OF BAY AREA NEWSPAPERS. THE NEXT TWO QUESTIONS ASK ONLY ABOUT THAT MAGAZINE.

17. Regarding the September, 1990 magazine about the next Bay Area earthquake inserted into the Sunday edition of Bay Area newspapers, which of the following statements apply to you? (CIRCLE ALL THAT APPLY)

- 1 = I don't remember seeing it
- 2 = I kept the copy I got in the newspaper
- 3 = I got a copy from a source other than newspapers
- 4 = I read it
- 5 = I understood it
- 6 = The centerfold fault map made sense to me
- 7 = It contained information that was new
- 8 = It was sponsored by the U.S. Geological Survey, American Red Cross, United Way and others
- 9 = It helped me get ready for earthquakes
- 10 = I've referred to it during earthquakes

18. How easy to understand was this insert? (CIRCLE ONE)

- 1 = I didn't get one
- 2 = Very easy to understand
- 3 = Easy to understand
- 4 = Unsure
- 5 = Difficult to understand
- 6 = Very difficult to understand

19. Considering all the information you may have received about the next damaging Bay Area earthquake, how easy to understand was this information? (CIRCLE ONE)

- 1 = I have not received any information
- 2 = Very easy to understand
- 3 = Easy to understand
- 4 = Unsure
- 5 = Difficult to understand
- 6 = Very difficult to understand

THE NEXT SET OF QUESTIONS ASK ABOUT EARTHQUAKE EXPERIENCES YOU MAY HAVE HAD.

20. Which of the following best describes the severity of the largest earthquake you have ever experienced?

Damage in your neighborhood (CIRCLE THE MOST SEVERE EXPERIENCED)

- 1 = Have not experienced an earthquake
- 2 = No damage
- 3 = Slight damage (for example, cracks in walls)
- 4 = Moderate damage (for example, fallen walls or chimneys)
- 5 = Severe damage (for example, unable to live in home after quake)

Damage to your home (CIRCLE THE MOST SEVERE EXPERIENCED)

- 1 = Have not experienced an earthquake
- 2 = No damage
- 3 = Slight damage (for example, cracks in walls)
- 4 = Moderate damage (for example, fallen walls or chimneys)
- 5 = Severe damage (for example, unable to live in home after quake)

Damage to your household items (for example, furniture, dishes and glassware)
(CIRCLE THE MOST SEVERE EXPERIENCED)

- 1 = Have not experienced an earthquake
- 2 = No damage
- 3 = Slight damage (several things were damaged)
- 4 = Moderate damage (more than several things were damaged)
- 5 = Severe damage (almost all things were damaged)

Injuries to yourself or other household members (CIRCLE THE MOST SEVERE EXPERIENCED)

- 1 = Have not experienced an earthquake
- 2 = No injuries
- 3 = Slight injuries (for example, cuts or sprains)
- 4 = Moderate injuries (for example, broken bones)
- 5 = Severe injuries (for example, injuries requiring hospitalization)

21. Answer the next question even if you have never experienced an earthquake. Which of the following best describes the severity of the largest earthquake experienced by people you know personally but whom do not live in your household? (CIRCLE THE MOST SEVERE EXPERIENCED)

- 1 = No damage or injuries
- 2 = Slight damage or injuries (for example, cracks in walls, or cuts and sprains)
- 3 = Moderate damage or injuries (for example, fallen walls or chimneys, or broken bones)
- 4 = Severe damage or injuries (for example, can't live in their home, or required hospitalization)

NEXT, IS A SET OF QUESTIONS ABOUT EARTHQUAKE RELATED ACTIVITIES YOU MAY HAVE DONE MORE THAN A YEAR AGO OR WITHIN THE PAST YEAR.

22. The following items are things people can do to prepare for earthquakes. Please circle those things you have done more than a year ago and in the past year. (CIRCLE ALL THAT APPLY IN BOTH COLUMNS).

DID MORE THAN A YEAR AGO	DID IN PAST YEAR	
1	1	I've done none of these things
2	2	Stockpiled water and food for three days
3	3	Stored emergency equipment (for example flashlight, fire extinguisher, first-aid kit)
4	4	Put wrench by gas turnoff valve
5	5	Developed an earthquake plan
6	6	Picked an emergency contact person outside the area
7	7	Learned first aid
8	8	Learned how to assist elderly or immobile
9	9	Learned how to rescue trapped people
10	10	Learned how to put out fires
11	11	Bought earthquake insurance

23. Have you tried to get earthquake information in any of the following ways? Please circle those things you have done more than a year ago and in the past year. (CIRCLE ALL THAT APPLY IN BOTH COLUMNS)

DID MORE THAN A YEAR AGO	DID IN PAST YEAR	
1	1	I've done none of the following activities
2	2	Talked with friends, relatives and neighbors
3	3	Sought information from federal government (for example, Federal Emergency Management Agency)
4	4	Sought information from state government (for example, Governor's Office of Emergency Services, Bay Area Regional Earthquake Preparedness Project)
5	5	Sought information from the Association of Bay Area Governments
6	6	Sought information from county government (for example, county emergency services)
7	7	Sought information from city government (for example, police or fire departments)
8	8	Sought information from private organizations (for example, Red Cross, utilities, phone companies)
9	9	Found out emergency plans at schools
10	10	Looked into buying earthquake insurance
11	11	Found out if I work or live in a neighborhood particularly vulnerable to earthquakes
12	12	Had residence inspected for earthquake resistance

24. The following items are things people can do to make their residence safer from earthquakes. Please circle those things you have done more than a year ago and in the past year. (CIRCLE ALL THAT APPLY IN BOTH COLUMNS).

DID MORE
THAN A YEAR
AGO

DID IN
PAST YEAR

- | | | |
|---|---|---|
| 1 | 1 | I've done none of these activities |
| 2 | 2 | Rearranged breakable household items |
| 3 | 3 | Put strong latches on cabinet doors |
| 4 | 4 | Stored hazardous materials safely |
| 5 | 5 | Added lips to shelves to keep things from sliding off |
| 6 | 6 | Strapped water heater |
| 7 | 7 | Installed flexible piping to gas appliances |
| 8 | 8 | Braced house walls |
| 9 | 9 | Bolted house to foundation |

THE NEXT FEW QUESTIONS ARE GENERAL QUESTIONS ABOUT GETTING READY FOR EARTHQUAKES.

25. Have you ever hired someone else to do work on your current home to make it safer in future earthquakes? (CIRCLE ONE)

- 1 = Yes
2 = Don't know
3 = No

26. About how much total money have you spent to make your current home safer in earthquakes? (PLEASE FILL IN)

_____ total dollars

27. About how much money have you spent to hire others to make your current home safer in earthquakes? (PLEASE FILL IN)

_____ dollars

28. If you experienced \$30,000 worth of damage in the next Bay Area earthquake, who do you think would pay for the repairs? (PLEASE FILL IN)

29. In addition to any of the things you may have already done to get ready for the next damaging Bay Area earthquake, do you plan on doing anything else? (CIRCLE ALL THAT APPLY)

- 1 = I don't plan on doing anything else
- 2 = Get more information about things to do
- 3 = Make my residence safer
- 4 = Buy earthquake insurance
- 5 = Learn more about earthquake disaster response

30. Which of the following describes why you may have not done more to get ready for the next damaging Bay Area earthquake? (CIRCLE ALL THAT APPLY)

- 1 = Money
- 2 = Time
- 3 = I don't think it would help
- 4 = I'm as ready as I can get
- 5 = Other (please specify): _____
- _____
- _____

31. Have you seen or heard of any of the following people, groups or organizations doing anything to get ready for the next damaging Bay Area earthquake? (CIRCLE ALL THAT APPLY)

- 1 = No, I haven't seen or heard of anyone getting ready
- 2 = Friends
- 3 = Neighbors
- 4 = Relatives
- 5 = Government agencies
- 6 = Business establishments
- 7 = My workplace
- 8 = Other (please specify _____)

THE NEXT TWO QUESTIONS ASK ABOUT YOUR VIEWS REGARDING SCIENCE AND EARTHQUAKE FORECASTING.

32. With which of the following statements do you agree? (CIRCLE ALL THAT APPLY)

- 1 = Science is guided by high moral standards
- 2 = Science creates more problems than it solves
- 3 = Science attempts to increase the knowledge we can apply to our everyday lives
- 4 = Scientists withhold information about future earthquakes from the public.
- 5 = Science makes people question their ideas of right and wrong
- 6 = Scientists make statements about future earthquakes just to attract attention

33. Which of the following do you think can predict earthquakes? (CIRCLE ALL THAT APPLY)

- 1 = No one
- 2 = Fortune tellers or psychics
- 3 = Geologists \ Seismologists
- 4 = Religious leaders or prophets
- 5 = Astrologists
- 6 = Any Scientist
- 7 = Other

THE FINAL SET OF QUESTIONS CONCERN INFORMATION ABOUT YOU AND YOUR HOUSEHOLD. PLEASE REMEMBER, WE WILL ONLY GENERALIZE WHAT IS REPORTED.

34. What county do you live in? (PLEASE FILL IN)

_____ County

35. Do you or someone in your household own or rent the home you live in? (CIRCLE ONE)

- 1 = Rent
- 2 = Own or buying

36. Do you or someone in your household own or lease any other buildings in the area? (CIRCLE ONE)

- 1 = Yes
- 2 = No

37. How long have you lived in California? (PLEASE FILL IN)

_____Years

38. How long have you lived in the Bay Area? (PLEASE FILL IN)

_____Years

39. How long have you lived in your current home? (PLEASE FILL IN)

_____Years

40. How likely is it that you will move away from the Bay Area in the next couple of years?
(CIRCLE ONE)

- 1 = Very likely
- 2 = Likely
- 3 = Not very likely
- 4 = Not likely at all

41. Do any of your relatives (who do not live in your household) live in the Bay Area?
(CIRCLE ONE)

- 1 = Yes
- 2 = No

42. Do you participate in any of the following groups or organizations in the Bay Area?
(CIRCLE ALL THAT APPLY)

- 1 = Neighborhood or homeowners association
- 2 = Church group
- 3 = Political organization
- 4 = Business or professional association
- 5 = Civic or community group
- 6 = Hobby or recreational club
- 7 = Other

43. Are You? (CIRCLE ONE)

- 1 = Male
- 2 = Female

44. Which best describes your racial/ethnic identification? (CIRCLE ONE)

- 1 = White
- 2 = African-American
- 3 = Native American/Eskimo/Aleutian Islanders
- 4 = Asian or Pacific Islander
- 5 = Hispanic (of any race)
- 6 = Filipino
- 7 = Other (please specify) _____

45. How old were you on your last birthday? (PLEASE FILL IN)

_____ Years

46. What kind of work do you do? (CIRCLE ONE; if retired or unemployed circle what kind of work you did)

- 1 = Managerial or professional specialty occupation (for example, executive, administrative, managerial)
- 2 = Technical, sales, or administrative support occupation (for example, technician, salesperson, clerical)
- 3 = Service occupation (for example, protective services, private household worker, food handler)
- 4 = Farming, industry, or fishing occupation
- 5 = Precision production, craft, or repair occupation
- 6 = Operator, fabricator, or laborer (for example, machine operator, assembler, inspector, transportation equipment, cleaner, helper)

47. What was your household's total 1991 before tax income? (CIRCLE ONE)

- 1 = Under \$5,000
- 2 = \$5,000 to \$14,999
- 3 = \$15,000 to \$34,999
- 4 = \$35,000 to \$74,999
- 5 = \$75,000 to \$99,999
- 6 = Over \$100,000

48. How much school have you completed? (CIRCLE ONE)

- 1 = Some grammar school
- 2 = Grammar school graduate
- 3 = Some junior high school
- 4 = Junior high school graduate
- 5 = Some high school
- 6 = High school diploma or G.E.D.
- 7 = Some technical school
- 8 = Technical school graduate
- 9 = Some college
- 10 = College Graduate
- 11 = Some graduate school
- 12 = Graduate degree

49. How important do you feel religion is in your life? (CIRCLE ONE)

- 1 = Very important
- 2 = Somewhat important
- 3 = Not very important
- 4 = Not important at all

THANK YOU FOR YOUR HELP. PLEASE MAIL THIS QUESTIONNAIRE IN THE POSTAGE-PAID RETURN ENVELOPE PROVIDED. SEE THE NEXT PAGE FOR COMMENTS.