appendix e

example questionnaire

Disaster Resistant by Design

Partners for Disaster Resistance

www.OregonShowcase.org

January 2003

Dear Oregon Citizen:

We need your help!

Your community is currently engaged in a planning process to reduce the risks and losses associated with natural disasters. As a part of this process, the City is working with *Partners for Disaster Resistance* and the Oregon Natural Hazards Workgroup at the University of Oregon to conduct a household survey. This survey provides an opportunity for you to share your opinions about preparing for and reducing your household's and your community's risks from natural disasters. The information you provide about disaster preparedness could help improve the coordination of preparedness and risk reduction activities in your community.

Your opinions are important to us! Please complete the enclosed survey and return it in the postage-paid envelope. The survey will take about 15-20 minutes to complete. Please finish and return this survey by **February 3rd, 2003.**

Oregon has been designated a "Showcase State for Natural Disaster Resistance and Resilience." *Partners for Disaster Resistance* is bringing together public agencies and private organizations throughout the state to coordinate efforts to provide citizens and organizations statewide an opportunity to prepare for and minimize the impacts of natural hazards.

If you have questions regarding the survey, please contact the Oregon Natural Hazards Workgroup at the University of Oregon at (541) 346-3889. For information on *Partners for Disaster Resistance: Oregon Showcase State,* please visit http://www.OregonShowcase.org.

Thank you for your participation!

Sincerely,

André LeDuc
State Coordinator,
Partners for Disaster Resistance:
Oregon Showcase Program
www.OregonShowcase.org

Beverlee Venell
Director,
Oregon Emergency Management
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Disaster Resistant Design

www.OregonShowcase.org

Household Natural Hazards Preparedness Questionnaire

This questionnaire is designed to help gauge household preparedness for disasters, and knowledge of tools and techniques that assist in reducing risk and loss from natural hazards. The questionnaire should be completed by an adult, preferably the homeowner or head of household. The information you provide about your needs for disaster preparedness could help improve public/private coordination of preparedness and risk reduction activities within your community. We ask that you please take a few minutes to complete this questionnaire.

Your returned survey indicates your willingness to take part in the study. Your participation in this study is voluntary. If you have questions regarding your rights as a research participant, please contact the Office of Human Subjects Compliance, Riverfront Research Park, Suite 106, University of Oregon, Eugene, OR 97403-5219, or call (541) 346-2510. All individual survey responses are strictly confidential, and are for research purposes only.

NATURAL HAZARD INFORMATION

1. In the past five years, or since you have lived in the community you currently reside in, have you or someone in your household experienced a natural disaster such as an earthquake, severe windstorm, flood, wildfire, or other type of natural disaster?
   - ☐ Yes
   - ☐ No (***IF NO Skip to Question 2***)

   1.1. If ("YES") which of these natural disasters have you or someone in your household experienced? (***Please check all that apply***)
   - ☐ Drought
   - ☐ Dust Storm
   - ☐ Earthquake
   - ☐ Flood
   - ☐ Landslide / Debris Flow
   - ☐ Wildfire
   - ☐ Household Fire
   - ☐ Windstorm
   - ☐ Volcanic Eruption
   - ☐ Severe Winter Storm
   - ☐ Other (specify): _____

2. How concerned are you about the following natural disasters affecting your community? (***Check the corresponding box for each hazard***)

Natural Disaster	Extremely Concerned	Very Concerned	Concerned	Somewhat Concerned	Not Concerned
Drought	☐	☐	☐	☐	☐
Dust Storm	☐	☐	☐	☐	☐
Earthquake	☐	☐	☐	☐	☐
Flood	☐	☐	☐	☐	☐
Landslide / Debris Flow	☐	☐	☐	☐	☐
Wildfire	☐	☐	☐	☐	☐
Household Fire	☐	☐	☐	☐	☐
Tsunami	☐	☐	☐	☐	☐
Volcanic Eruption	☐	☐	☐	☐	☐
Wind Storm	☐	☐	☐	☐	☐
Coastal Erosion	☐	☐	☐	☐	☐
Severe Winter Storm	☐	☐	☐	☐	☐

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3. Have you ever received information about how to make your household and home safer from natural disasters?
   - ☐ Yes
   - ☐ No (***IF NO Skip to Question 4***)

   3.1. If "YES", how recently?
   - ☐ Within the last 6 months
   - ☐ Between 6 and 12 months
   - ☐ Between 1 and 2 years
   - ☐ Between 2 and 5 years
   - ☐ 5 years or more

   3.2. From whom did you **last** receive information about how to make your household and home safer from natural disasters? (***Please check only one***)
   - ☐ News media
   - ☐ Government agency
   - ☐ Insurance agent or company
   - ☐ Utility company
   - ☐ University or research institution
   - ☐ American Red Cross
   - ☐ Other non-profit organization
   - ☐ Not sure
   - ☐ Other:_____

4. Who would you most trust to provide you with information about how to make your household and home safer from natural disasters? (***Please check all that apply***)
   - ☐ News media
   - ☐ Government agency
   - ☐ Insurance agent or company
   - ☐ Utility company
   - ☐ University or research institution
   - ☐ American Red Cross
   - ☐ Other non-profit organization
   - ☐ Not sure
   - ☐ Other:_____

5. What is the most effective way for you to receive information about how to make your household and home safer from natural disasters? (***Please check all that apply***)

   Newspapers:
   - ☐ Newspaper stories
   - ☐ Newspaper ads

   Television:
   - ☐ Television news
   - ☐ Television ads

   Radio:
   - ☐ Radio news
   - ☐ Radio ads

   Other methods:
   - ☐ Schools
   - ☐ Outdoor advertisements (billboards, etc.)
   - ☐ Books
   - ☐ Mail
   - ☐ Fire Department/Rescue
   - ☐ Internet
   - ☐ Fact sheet/brochure
   - ☐ Chamber of Commerce
   - ☐ Public workshops/meetings
   - ☐ Magazine
   - ☐ University or research institution
   - ☐ Other (please explain):
     _____

PREPAREDNESS ACTIVITIES IN YOUR HOUSEHOLD

Households can do many things to prepare for a natural disaster or emergency. What you have on hand or are trained to do when a disaster strikes can make a big difference in your comfort and safety in the hours and days following a natural disaster or emergency. Basic services, such as electricity, gas, water and telephones, may be cut off, or you may have to evacuate at a moment's notice. The following questions focus on your household's preparedness for disaster events.

6. In the following list, please check those activities that you have done in your household, plan to do in the near future, have not done, or are unable to do. (***Please check one answer for each preparedness activity***)

In your household, have you or someone in your household:	Have Done	Plan To Do	Not Done	Unable To Do
A. Attended meetings or received written information on natural disasters or emergency preparedness?	☐	☐	☐	☐
B. Talked with members in your household about what to do in case of a natural disaster or emergency?	☐	☐	☐	☐
C. Developed a "Household/Family Emergency Plan" in order to decide what everyone would do in the in event of a disaster?	☐	☐	☐	☐
D. Prepared a "Disaster Supply Kit" (Stored extra food, water, batteries, or other emergency supplies)?	☐	☐	☐	☐
E. In the last year, has anyone in your household been trained in First Aid or Cardio-Pulmonary Resuscitation (CPR)?	☐	☐	☐	☐

7. Building a disaster supply kit, receiving First Aid training and developing a household/family emergency plan are all inexpensive activities that require a personal time commitment. How much time (per year) are you willing to spend on preparing yourself/household for a natural disaster or emergency event? ***(Check only one)***

   - ☐ 0-1 hour
   - ☐ 2-3 hours
   - ☐ 4-7 hours
   - ☐ 8-15 hours
   - ☐ 16+ hours
   - ☐ Other, please specify:_____

8. What steps, if any, have you or someone in your household taken to prepare for a natural disaster? ***(Check all that apply)***

   Have stored:
   - ☐ Food
   - ☐ Water
   - ☐ Flashlight(s)
   - ☐ Batteries
   - ☐ Battery-powered radio
   - ☐ Medical supplies (First aid kit)
   - ☐ Fire extinguisher
   - ☐ Smoke detector on each level of the house
   - ☐ Prepared a Disaster Supply Kit
   - ☐ Received First Aid/CPR Training
   - ☐ Made a fire escape plan
   - ☐ Developed a reconnection plan: Where to go and who to call
   - ☐ Discussed utility shutoffs
   - ☐ Other (please explain)

   _____

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9. Does your household have insurance coverage for flood events?
   - ☐ Yes (***If you answered YES skip to Question 10***)
   - ☐ No

   9.1. **If "NO",** what is the main reason your household does not have insurance for flood events? (***Please check only one***)
   - ☐ Not located in the floodplain
   - ☐ Too expensive
   - ☐ Not necessary
   - ☐ Never considered it
   - ☐ Deductibles too high/not worth it
   - ☐ Not familiar with it/don't know about it
   - ☐ Other: _____

10. Does your household have insurance coverage for earthquake events?
   - ☐ Yes (***If you answered YES skip to Question 11)***
   - ☐ No

   10.1. **If "NO",** what is the main reason your household does not have earthquake insurance? (***Please check only one)***
   - ☐ Too expensive
   - ☐ Not available
   - ☐ Not necessary
   - ☐ Never considered it
   - ☐ Deductibles too high/not worth it
   - ☐ Not familiar with it/ don't know about it
   - ☐ Other: _____

NATURAL HAZARD RISK REDUCTION

Risk reduction activities are those actions you can take to protect your home from natural hazard events, such as earthquakes, floods or wildfires. You can do nonstructural modifications or retrofits to protect your home's contents against damage, often at minimal cost. You can also conduct structural retrofits to strengthen your home's structure or skeleton, although modifications to a structure tend to be quite involved and generally require the expertise of a registered design professional (engineer, architect or building contractor).

11. Did you consider the possible occurrence of a natural hazard when you bought/moved into your current home?
   - ☐ Yes
   - ☐ No

12. Would you be willing to spend more money on a home that had features that made it more disaster resistant?
   - ☐ Yes
   - ☐ No
   - ☐ Don't Know

13. Would you be willing to make your home more resistant to natural disasters?
   - ☐ Yes
   - ☐ No (***If you answered No skip to Question 14)***

   13.1. How much are you willing to spend to better protect your home from natural disasters? (***Check only one)***
   - ☐ Less than $100
   - ☐ $100 - $499
   - ☐ $500 - $999
   - ☐ $1000 - $2499
   - ☐ $2500 - $4999
   - ☐ $5000 and above
   - ☐ Nothing
   - ☐ Don't know
   - ☐ What ever it takes
   - ☐ Other, please explain _____

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Question 14 includes nonstructural and structural modifications that make your home more resistant to earthquakes. There are many measures that can be taken for other natural hazards, such as wildfires and floods.

14. What nonstructural or structural modifications for earthquakes have you made to your home? ***(Please check all that apply)***

14a. Nonstructural

- ☐ Anchor bookcases, cabinets to wall
- ☐ Secure water heater to wall
- ☐ Install latches on drawers/cabinets
- ☐ Fit gas appliances with flexible connections
- ☐ Others (please explain): _____
- ☐ None

14b. Structural:

- ☐ Secure home to foundation
- ☐ Brace inside of cripple wall with sheathing
- ☐ Brace unreinforced chimney
- ☐ Brace unreinforced masonry & concrete walls and foundations
- ☐ Others (please explain): _____
- ☐ None

15. Which of the following incentives, if any, would motivate you to take additional steps to better protect your home from a natural disaster? (***Check all that apply***.)

- ☐ Insurance discount
- ☐ Low interest rate loan
- ☐ Lower new home construction costs
- ☐ Mortgage discount
- ☐ Tax break or incentive
- ☐ None
- ☐ Other (please explain) _____

COMMUNITY NATURAL HAZARD PREPAREDNESS

16. Natural hazards can have a significant impact on a community, but planning for these events can help lessen the impacts. The following statements will help determine citizen priorities for planning for natural hazards. Please tell us how important each one is to you.

Statements	Very Important	Somewhat Important	Neutral	Not Very Important	Not Important
A. Protecting private property	☐	☐	☐	☐	☐
B. Protecting critical facilities (e.g. transportation networks, hospitals, fire stations)	☐	☐	☐	☐	☐
C. Preventing development in hazard areas	☐	☐	☐	☐	☐
D. Enhancing the function of natural features (e.g. streams, wetlands)	☐	☐	☐	☐	☐
E. Protecting historical and cultural landmarks	☐	☐	☐	☐	☐
F. Promoting cooperation among public agencies, citizens, non-profit organizations, and businesses	☐	☐	☐	☐	☐
G. Protecting and reducing damage to utilities	☐	☐	☐	☐	☐
H. Strengthening emergency services (e.g.- police, fire, ambulance)	☐	☐	☐	☐	☐

17. Are there any other issues regarding the reduction of risk and loss associated with natural disasters that you feel are important?

18. A number of activities can reduce your community's risk from natural hazards. These activities can be both regulatory and non-regulatory. An example of a regulatory activity would be a policy that limits or prohibits development in a known hazard area such as a floodplain. An example of a non-regulatory activity would be to develop a public education program to demonstrate steps citizens can take to make their homes safer from natural hazards. **Please check the box that best represents your opinion of the following strategies to reduce the risk and loss associated with natural disasters.**

Community-wide Strategies	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Not Sure
A. I support a regulatory approach to reducing risk	☐	☐	☐	☐	☐	☐
B. I support a non-regulatory approach to reducing risk	☐	☐	☐	☐	☐	☐
C. I support a mix of both regulatory and non-regulatory approaches to reducing risk	☐	☐	☐	☐	☐	☐
D. I support policies to prohibit development in areas subject to natural hazards	☐	☐	☐	☐	☐	☐
E. I support the use of tax dollars (federal and/or local) to compensate land owners for not developing in areas subject to natural hazards	☐	☐	☐	☐	☐	☐
F. I support the use of local tax dollars to reduce risks and losses from natural disasters	☐	☐	☐	☐	☐	☐
G. I support protecting historical and cultural structures	☐	☐	☐	☐	☐	☐
H. I would be willing to make my home more disaster-resistant	☐	☐	☐	☐	☐	☐
I. I support steps to safeguard the local economy following a disaster event	☐	☐	☐	☐	☐	☐
J. I support improving the disaster preparedness of local schools	☐	☐	☐	☐	☐	☐
K. I support a local inventory of at-risk buildings and infrastructure.	☐	☐	☐	☐	☐	☐

GENERAL HOUSEHOLD INFORMATION

19. Please indicate your age: _____

20. Gender:
    - ☐ Male
    - ☐ Female

21. Please indicate your level of education:
    - ☐ Grade school/no schooling
    - ☐ Some high school
    - ☐ High school graduate/GED
    - ☐ Some college/trade school
    - ☐ College degree
    - ☐ Postgraduate degree
    - ☐ Other, please specify: _____

22. Zip code: _____

23. County: _____

24. How long have you lived in Oregon?
    - ☐ Less than one year
    - ☐ 1-5 years
    - ☐ 5-9 years
    - ☐ 10-19 years
    - ☐ 20 years or more

25. If you have lived in Oregon for less than 20 years, in what state did you live before you moved to Oregon?
    - ☐ Not Applicable
    - ☐ California
    - ☐ Idaho
    - ☐ Washington
    - ☐ Other_____

26. Do you have access to the Internet?
    - ☐ Yes
    - ☐ No

27. Do you own or rent your home?
    - ☐ Own
    - ☐ Rent

28. Do you rent/own a:
    - ☐ Single-family home
    - ☐ Duplex
    - ☐ Apartment (3-4 units in structure)
    - ☐ Apartment (5 or more units in structure)
    - ☐ Condominium / townhouse
    - ☐ Manufactured home
    - ☐ Other _____

Please feel free to provide any additional comments in the space provided:

THANK YOU VERY MUCH FOR PROVIDING THIS INFORMATION

The Oregon Natural Hazards Workgroup at the University of Oregon's Community Service Center prepared this survey. Implementation of this survey is made possible by funding from Oregon Emergency Management and the Public Entity Risk Institute.

For more information, please contact Oregon Natural Hazards Workgroup at 1209 University of Oregon, Eugene, OR 97403-1209, call (541) 346-3653, or visit www.OregonShowcase.org

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