

RESIDENTIAL FLOOD WARNING QUESTIONNAIRE

(Personal Interview)

OMB 0710-0001

Expires: 30 September 2012

The public report burden for this information collection is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this data collection, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate, Information Management Division, and the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503, Attn.: Desk Officer for U.S. Army Corps of Engineers. Respondents should be aware that notwithstanding any other provision of law, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Please DO NOT RETURN your completed form to either of these offices.

RESIDENTIAL FLOOD WARNING QUESTIONNAIRE

1. How many years have you been living at this address?

_____ years

2. Were you living at this residence during the (year) flood?

___NO ___YES

3. Was your residence flooded?

___NO ___YES

4. Before the most recent flood, what would you have said the chance was of major flooding that would cause an evacuation of your neighborhood? (check one)

- ___ NO CHANCE
- ___ SLIGHT CHANCE
- ___ MODERATE CHANCE
- ___ STRONG CHANCE
- ___ EXTREMELY LIKELY CHANCE

5. Before the flood this year, had your home ever been flooded? (check one)

___NO (SKIP to Q7) ___YES

6. Please give me the year that any previous floods occurred, and check whether or not you evacuated your home each time.

YEAR

- | | | |
|-------|----------------------|---------------|
| _____ | ___ DID NOT EVACUATE | ___ EVACUATED |
| _____ | ___ DID NOT EVACUATE | ___ EVACUATED |
| _____ | ___ DID NOT EVACUATE | ___ EVACUATED |
| _____ | ___ DID NOT EVACUATE | ___ EVACUATED |
| _____ | ___ DID NOT EVACUATE | ___ EVACUATED |

THE FOLLOWING QUESTIONS ONLY APPLY TO THE FLOOD THAT ENTERED YOUR HOME

->7. Just before this year's flood, did anyone at this residence hear from anyone or receive any other communication that flooding was possible? (check one)

___NO (SKIP to Q25) ___YES

8. Did the FIRST such message that you received include any of the following information?

- a) "Conditions are possible for a flood in your community." 1. NO 2. YES
- b) "Watch the river or stream for flooding." 1. NO 2. YES
- c) "It's possible your home will be flooded." 1. NO 2. YES
- d) "Flooding will occur; take action." 1. NO 2. YES
- e) "Evacuate your home." (no instructions) 1. NO 2. YES
- f) "Evacuate your home." (with instructions) 1. NO 2. YES
- g) The time that flooding would occur. 1. NO 2. YES
- h) Other information in the message. 1. NO 2. YES

(Specify:) _____

9. What would you call this first message that you received? (circle one)

- 1. A FLOOD WATCH
- 2. A FLOOD WARNING
- 3. NEITHER ONE
- 4. UNSURE

10. On what date and at what time of day did you hear this message?

MO. DAY TIME (Hours and Minutes):
__ / __ / __: __ (circle one): AM or PM

11. How did you hear this first message? (circle one only)

1. TV
2. RADIO
3. TELEPHONE BY PUBLIC OFFICIAL
4. TELEPHONE BY OTHER
5. FACE TO FACE BY PUBLIC OFFICIAL
6. FACE TO FACE BY OTHER
7. LOUDSPEAKER
8. SIREN
9. C.B., HAM RADIO or POLICE SCANNER
10. NEWSPAPER
11. OTHER _____

12. On what date, and at what approximate time did the flood waters reach your block? [Put a Number on each Blank or Check [] if DON'T KNOW]

DATE TIME (Hours and Minutes):

____ : ____ (circle one): AM or PM

13. **Of each of the following actions, please answer yes or no to each to indicate the actions that you took, if any, as a result of this first message you heard. Remember that these are only actions with respect to the first message you heard.**

[Read list and circle responses.]

In response to the first message did you :

- | | |
|--|-----------------|
| a) Listen to TV or Radio? | 0. NO 1. YES |
| b) Contact family members? | 0. NO 1. YES |
| c) Contact other people? | 0. NO 1. YES |
| d) Disconnect appliances? | 0. NO 1. YES |
| e) Pack or prepare any household possessions for an evacuation? | 0. NO 1. YES |
| f) Elevate possessions above the floor of the first story of your house? | 0. NO 1. YES |
| g) Move any possessions to a safer location outside of the house? | 0. NO 1. YES |
| h) Go out and look at the stream? | 0. NO 1. YES |

- l) Move cars or other vehicles to higher ground? 0. NO 1. YES
 - j) Evacuate from the structure? 0. NO 1. YES
 - k) Take any other actions? (if yes, list below) 0. NO 1. YES
-

14. On a scale of 1 to 10 how would you estimate the strength of your belief in this first message? (1 represents total disbelief and 10 represents total belief)

_____ (fill-in with number between 1-10)

15. The previous questions asked about the first message you received. Did you receive a **DIFFERENT MESSAGE LATER ON** indicating that flooding was possible or the possibility of flooding had increased?

- 0. NO **If No, SKIP to Q 25**
- 1. YES

16. Did the SECOND message that you received include any of the following information?

- a) "Conditions possible for a flood in your community." 0. NO 1. YES
- b) "Watch the river or stream for flooding." 0. NO 1. YES
- c) "It is possible your home will be flooded." 0. NO 1. YES
- d) "Flooding will occur; take action." 0. NO 1. YES
- e) "Evacuate your home." (no instructions) 0. NO 1. YES
- f) "Evacuate your home." (with instructions) 0. NO 1. YES
- g) The time that flooding would occur. 0. NO 1. YES
- h) Other information in the message. 0. NO 1. YES

(Specify:) _____

17. What would you call this SECOND message that you received? (circle one)

1. A FLOOD WATCH
2. A FLOOD WARNING
3. NEITHER ONE
4. UNSURE

18. On what date, and what time of day did you hear this message?

MO. DAY TIME (Hours and Minutes):

 / / : (circle one): AM or PM

19. How did you hear this SECOND message? (circle one only)

1. TV
2. RADIO
3. TELEPHONE BY PUBLIC OFFICIAL
4. TELEPHONE BY OTHER
5. FACE TO FACE BY PUBLIC OFFICIAL
6. FACE TO FACE BY OTHER
7. LOUDSPEAKER
8. SIREN
9. C.B., HAM RADIO or POLICE SCANNER
10. NEWSPAPER
11. OTHER: _____
["Probe" for HOW.]

20. Please answer yes or no to each to indicate which of the following actions, if any, that you took as a result of this SECOND message that you heard.

In response to the second message did you :

- | | |
|--|--------------|
| a) Listen to TV or Radio? | 0. NO 1. YES |
| b) Contact family members? | 0. NO 1. YES |
| c) Contact other people? | 0. NO 1. YES |
| d) Disconnect appliances? | 0. NO 1. YES |
| e) Pack or prepare any household possessions for evacuation? | 0. NO 1. YES |
| f) Elevate possessions above the floor of the first story of your house? | 0. NO 1. YES |
| g) Move any possessions to a safer location outside of the house? | 0. NO 1. YES |
| h) Go out and look at the stream? | 0. NO 1. YES |

l) Move cars or other vehicles to higher ground? 0. NO 1. YES

j) Did the SECOND message cause you to evacuate from the structure? 0. NO 1. YES

k) Did the SECOND message cause you to take any other actions? (If yes, list below) 0. NO 1. YES

21. On a scale of 1 to 10 how would you estimate the strength of your belief in this second message? (1 = total disbelief, and 10 = total belief)

22. After receiving the _____ (fill-in with number between 1-10) second message, did you receive any later messages that caused you to take further action?

- 0. NO **If No, SKIP to Q 25.**
- 1. YES
- 2. UNSURE

23. Please describe the (those) later message(s).

24. What additional actions, if any, did you take as a result of hearing the (those) later message(s)?

->25. Do you have any suggestions on ways to improve the current flood warning system?

26. For each of the following categories, please tell me the total number of people who were in the residence, the number who did evacuate, and the number who did not:
 [Put a Number or Zero on each Blank]

	<u>TOTAL</u>	<u>EVAC- UATED</u>	<u>DID NOT</u>
a) Household members <u>under</u> 13:	_____	_____	_____
b) Household members 13-64 yrs. old:	_____	_____	_____
c) Household members 65 and over:	_____	_____	_____

d) <u>Non</u> -household members < 13:	_____	_____	_____
e) <u>Non</u> -household members 13-64 yrs. old:	_____	_____	_____
f) <u>Non</u> -household members 65 and over:	_____	_____	_____

[SKIP to Q 31, if no one evacuated.]

27. During the flooding this year, how many people evacuated from your household using each of the following modes of transportation?
 [Put a Number or Zero on each blank.]

	<u>Number Evacuating</u>
a) CAR OR TRUCK?	_____
b) BOAT?	_____
c) WALKING?	_____
d) OTHER TRANSPORTATION?	_____

(What kind?) _____

28. For you and others who decided to evacuate from your residence, which of the following affected the decision to evacuate? Please answer yes or no to each.

Did you evacuate because of:

- a) Messages on TV or Radio? 0. NO 1. YES
- b) A telephone message from friends or relatives? 0. NO 1. YES
- c) A face to face message from friends or relatives? 0. NO 1. YES
- d) Telephone messages from local officials? 0. NO 1. YES
- e) Face to face messages from local officials? 0. NO 1. YES
- f) Experience you or other residents had with floods in previous years? 0. NO 1. YES
- g) High stream level or flood waters close to your residence? 0. NO 1. YES
- h) Because it was physically impossible to remain in the structure? 0. NO 1. YES
- i) To find or meet family members? 0. NO 1. YES
- j) Because the neighbors were evacuating? 0. NO 1. YES
- k) Other Reason(s) for Decision to Evacuate? 0. NO 1. YES

[Probe for Reasons]_____

29. On what date, and at what time of day, did you last leave your house to go to a place of safety?

MO. DAY TIME (Hours and Minutes):

__/ __/ __:__ (circle one): AM or PM

30. How much time did it take in your evacuation to get out of the area of flood danger?

[Put a Number or a Zero on each Blank]

_____HOURS; _____MINUTES

Check Box if everyone evacuated [], and **SKIP to Q31.**

->31. If you and others did NOT evacuate when warned, which of the following affected your decision NOT to evacuate or to delay doing so?

[Read list and circle responses]

- | | | |
|---|-------|--------|
| a) Did not believe messages on TV or Radio? | 0. NO | 1. YES |
| b) Telephone message from friends or relatives? | 0. NO | 1. YES |
| c) Face to face message from friends or relatives? | 0. NO | 1. YES |
| d) Telephone messages from local officials? | 0. NO | 1. YES |
| e) Face to face messages from local officials? | 0. NO | 1. YES |
| f) Experience you or other residents had with floods in previous years? | 0. NO | 1. YES |
| g) Location of flood waters in relation to the residence? | 0. NO | 1. YES |
| h) Because it was physically impossible to leave the structure? | 0. NO | 1. YES |
| i) Because of location of family members? | 0. NO | 1. YES |
| j) Because the neighbors were not evacuating? | 0. NO | 1. YES |
| k) Fear of looting? | 0. NO | 1. YES |
| l) Other Reason(s) for Not Evacuating? | 0. NO | 1. YES |

[specify]_____

BACKGROUND QUESTIONS

32. Do you own or rent your present residence? (CIRCLE)

- 1 OWN (or have mortgage)
- 2 RENT
- 3 OTHER (Please

Specify:) _____

33. How many people, including yourself, are living at your residence?

_____ PEOPLE

34. How many years have you lived in this community? _____ YEARS

35. What was your age on your last birthday? _____ YEARS

37. At the time of flooding this year, what was the marital status of the head of this household?

1. MARRIED
2. SINGLE
3. WIDOWED
4. DIVORCED OR SEPARATED
5. OTHER Specify: _____

38. How many total years of schooling have you completed? (Circle one)

Grade School **High School** **College/Technical** **Graduate School**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21+

39. Please indicate which group represents your total pre-tax household income for last year? Please circle one box.

Less than \$10,000	\$50,000-\$74,999
\$10,000-\$14,999	\$75,000-\$99,999
\$15,000-\$24,999	\$100,000-\$149,999
\$25,000-\$34,999	\$150,000-\$199,999
\$35,000-\$49,999	\$200,000 or more