OMB CONTROL NUMBER: 0710-0016 OMB EXPIRATION DATE: 12/31/2018

QUESTIONNAIRE

PUBLIC RESPONSE TO THE OROVILLE DAM ALERTS AND WARNINGS DURING FEBRUARY 2017



(Please read our letter to you inside the front cover)



LETTER OF EXPLANATION

(Please read)

About Our Study

The Survey Research Center at California State University Fullerton is working with the U.S. Army Corps of Engineers and social scientists to collect information from people in Butte, Sutter, and Yuba counties about their experiences and responses to the public alerts and warnings issued during the February 2017 Oroville Dam event. The information we collect will help the nation better prepare for future dam and levee emergencies.

It's Important that You Participate

You have been selected as part of a small sample of people asked to complete and return this questionnaire. Your participation will enable us to generalize our findings to all of the people who were asked to evacuate on February 12, 2017. Please fill out the questionnaire and return it to us in the self-addressed postage paid envelope which is attached. It should take about 20 minutes or less to complete.

Your Answers will be Kept Anonymous

All of the information that you provide will be kept anonymous. The question answers we receive from respondents like you will be grouped, and never associated with the individuals who answered the questions.

Who Should Complete This Questionnaire?

This questionnaire should only be completed if we have sent it to a home or residence of people who lived in Butte, Sutter, or Yuba counties on February 12, 2017. If not, the questionnaire should be discarded. Additionally, a person who is 18 years of age or older who is also a head of your household should complete this questionnaire. If that's not you, please give it to the person you consider to be a head of your household.

Thank You

Agency Disclosure Notice

The public reporting burden for this collection of information, 0710-0016, is estimated to average of 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

THE FIRST QUESTIONS ASK ABOUT THINGS IN THE TIME PERIOD <u>BETWEEN</u> WHEN THE OROVILLE DAM EVENT FIRST BEGAN ON FEBRUARY 7, 2017 UNTIL JUST BEFORE THE EVACUATION MESSAGES WERE ISSUED ON FEBRUARY 12, 2017.

Q1.	How many total hours would you estimate you spent watching, reading, or listening to media and internet reports about what was happening at the Oroville Dam before the official evacuation began? (FILL IN BELOW)
	NUMBER OF HOURS
Q2.	How many total hours would you estimate you spent talking with other people, such as friends, relatives, co-workers, and strangers, about what was happening at the Oroville Dam before the official evacuation began? (FILL IN BELOW)
	NUMBER OF HOURS
THEN	NEXT OUESTIONS ARE ABOUT WHERE YOU LIVED AND WORKED ON FEBRUARY

- Q3. Which of the following counties best describes where you <u>lived</u> on February 12, 2017? (CIRCLE ONE)
 - 1 = BUTTE COUNTY

12, 2017, THE DAY THE EVACUATION BEGAN.

- 2 = SUTTER COUNTY
- 3 = YUBA COUNTY

Q4.	Which of the following cities, towns, or places best describes where you <u>lived</u> on February 12, 2017? (CIRCLE ONE)
	1 = OROVILLE 2 = SOUTH OROVILLE 3 = EAST OROVILLE 4 = PALERMO 5 = THERMALITO 6 = EAST BRIGGS 7 = GRIDLEY CITY 8 = EAST GRIDLEY 9 = YUBA CITY 10 = LOMO 11 = LIVE OAK 12 = TIERRA BUENA 13 = NICHOLAS 14 = RIO OSO 15 = PLEASANT GROVE 16 = ROBBINS 17 = MARYSVILLE 18 = HALLWOOD 19 = LINDA 20 = OLIVEHURST 21 = PLUMAS LAKE 22 = WHEATLAND 23 = DISTRICT 10 24 = OTHER (SPECIFY:
Q5.	Which of the following counties best describes where you <u>worked</u> on February 12, 2017? (CIRCLE ONE)
	1 = BUTTE COUNTY 2 = SUTTER COUNTY 3 = YUBA COUNTY 4 = SACRAMENTO COUNTY 5 = YOLO COUNTY 6 = OTHER (SPECIFY:) 9 = I WASN'T EMPLOYED ON FEBRUARY 12, 2017

Q6.	Which of the following cities, towns, or places best describes where you <u>worked</u> on February 12, 2017? (CIRCLE ONE)
	1 = OROVILLE
	2 = SOUTH OROVILLE
	3 = EAST OROVILLE
	4 = PALERMO
	5 = THERMALITO
	6 = EAST BRIGGS
	7 = GRIDLEY CITY
	8 = EAST GRIDLEY
	9 = YUBA CITY
	10 = LOMO
	11 = LIVE OAK
	12 = TIERRA BUENA
	13 = NICHOLAS
	14 = RIO OSO
	15 = PLEASANT GROVE
	16 = ROBBINS
	17 = MARYSVILLE
	18 = HALLWOOD
	19 = LINDA
	20 = OLIVEHURST
	21 = PLUMAS LAKE
	22 = WHEATLAND
	23 = DISTRICT 10
	24 = SACRAMENTO

25 = OTHER **(SPECIFY:** _____

THE NEXT QUESTIONS ARE ABOUT THE "FIRST EVACUATION MESSAGE" YOU RECEIVED ON OR AFTER FEBRUARY 12, 2017. BY MESSAGE WE MEAN INFORMATION FROM GOVERNMENT, MEDIA, OR PERSONAL CONTACTS SUCH AS FRIENDS, RELATIVES, OR CO-WORKERS.

99 = I WASN'T EMPLOYED ON FEBRUARY 12, 2017

IF YOU DID NOT RECEIVE AN EVACUATION MESSAGE, SKIP TO QUESTION 25

Q7.	Think about the <u>first</u> evacuation message you received aimed at people in the area in which you were located. What day did you get that message? (CIRCLE ONE)							
	1 = SUNDAY, FEBRUARY 12 2 = MONDAY, FEBRUARY 13 9 = OTHER (SPECIFY:)							
Q8.	Think about the <u>first</u> evacuation message you received aimed at people in the area in which you were located. What time did you get that message? (FILL IN BELOW WITH THE BEST ESTIMATE YOU CAN MAKE)							
	HOUR MINUTE AM or PM							
Q9.	How was the first evacuation message you received communicated to you? (CIRCLE ONE)							
	1 = LAND LINE TELEPHONE WITH A RECORDED MESSAGE 2 = LAND LINE TELEPHONE WITH A LIVE PERSON 3 = CELL PHONE OR OTHER MOBILE COMMUNICATION DEVICE WITH A RECORDED MESSAGE 4 = CELL PHONE OR OTHER MOBILE COMMUNICATION DEVICE WITH A LIVE PERSON 5 = TEXT MESSAGE - ON A MOBILE COMMUNICATION DEVICE SUCH AS A CELL PHONE 6 = INTERNET - AN EMAIL 7 = INTERNET - SOCIAL MEDIA SUCH AS TWITTER OR FACEBOOK 8 = INTERNET - WEBSITE 9 = FACE-TO-FACE FROM AN AUTHORITY 10 = FACE-TO-FACE FROM ANOTHER PERSON, FOR EXAMPLE FRIEND OR FAMILY MEMBER 11 = AN AUTHORITY IN THE STREET WITH A LOUDSPEAKER 12 = TELEVISION 13 = RADIO 14 = TONE ALERT NATIONAL WEATHER SERVICE RADIO 15 = OUTDOOR WARNING SIREN 16 = OTHER (SPECIFY:)							

Q10.	Still thinking about the first message you received, who was that message from (CIRCLE ONE)
	1 = LOCAL POLICE
	2 = LOCAL FIRE DEPARTMENT
	3 = GOVERNOR'S OFFICE OF EMERGENCY SERVICES
	4 = CAL FIRE
	5 = BUTTE COUNTY SHERIFF
	6 = SUTTER COUNTY SHERIFF
	7 = YUBA COUNTY SHERIFF
	8 = YUBA CITY OFFICIALS
	9 = CALIFORNIA DEPARTMENT OF WATER RESOURCES (DWR)
	10 = NATIONAL WEATHER SERVICE
	11 = FAMILY MEMBER OR OTHER RELATIVE
	12 = NEIGHBOR OR FRIEND
	13 = EMPLOYER
	14 = CO-WORKER
	15 = TV, RADIO, OR INTERNET BROADCASTER
	16 = OTHER (SPECIFY :)
Q11.	Where were you when you received your first evacuation message? (CIRCLE O
	1 = AT HOME
	2 = AT WORK
	3 = SHOPPING AT A STORE
	4 = DRIVING A VEHICLE
	5 = PASSENGER IN A VEHICLE
	6 = PASSENGER IN A PUBLIC TRANSIT VEHICLE
	7 = IN TRANSIT – NOT IN A VEHICLE
	8 = ENGAGED IN AN OUTDOOR RECREATIONAL ACTIVITY
	9 = ENGAGED IN AN INDOOR RECREATIONAL ACTIVITY

Q12.	Which of the following places best describes where you were when your first evacuation message? (CIRCLE ONE)	ou received
	1 = OROVILLE	
	2 = SOUTH OROVILLE	
	3 = EAST OROVILLE	
	4 = PALERMO	
	5 = THERMALITO	
	6 = EAST BRIGGS	
	7 = GRIDLEY CITY	
	8 = EAST GRIDLEY	
	9 = YUBA CITY	
	10 = LOMO	
	11 = LIVE OAK	
	12 = TIERRA BUENA	
	13 = NICHOLAS	
	14 = RIO OSO	
	15 = PLEASANT GROVE	
	16 = ROBBINS	
	17 = MARYSVILLE	
	18 = HALLWOOD	
	19 = LINDA	
	20 = OLIVEHURST	
	21 = PLUMAS LAKE	
	22 = WHEATLAND	
	23 = DISTRICT 10	
	24 = OTHER (SPECIFY :)
Q13.	Were you with members of your immediate family and pets when you	ı received vour
`	first evacuation message? (CIRCLE ONE)	J
	1 = NO	
	2 = YES, BUT ONLY SOME OF THEM	
	3 = YES, ALL OF THEM	

9 = I HAVE NO IMMEDIATE FAMILY MEMBERS OR PETS

THE FOLLOWING QUESTIONS ASK ABOUT WHAT YOU MAY HAVE THOUGHT WHEN YOU RECEIVED YOUR FIRST EVACUATION MESSAGE.

Q14. How believable was the first evacuation message you received on a scale of 1 to 6 where 1 represents "not at all believable" and 6 represents "completely believable?" (CIRCLE ONE)

NOT AT ALL					COMPLETELY
BELIEVABLE					BELIEVABLE
1	2	3	4	5	6

Q15. After receiving your first evacuation message, how much would you say you understood each of the following things on a scale of 1 to 6 where 1 represents "did not understand at all" and 6 represents "fully understood?" (CIRCLE ONE FOR EACH)

	DID NOT						
	UNDEF	FULLY					
	AT ALL UNI				NDERS	<u>IDERSTOOD</u>	
What could happen at the dam?_	1	2	3	4	5	6	
The risk of flooding?	1	2	3	4	5	6	
What to do to protect yourself?	1	2	3	4	5	6	
What locations could be affected?	1	2	3	4	5	6	
When you were supposed to evacuate?	1	2	3	4	5	6	
How long you were supposed to stay away?	1	2	3	4	5	6	
Who the message was from?	1	2	3	4	5	6	

Q16. After receiving your first evacuation message, how much would you say you believed each of the following things on a scale of 1 to 6 where 1 represents "did not believe" and 6 represents "fully believed?" (CIRCLE ONE FOR EACH)

	DID NOT				FULLY			
	<u>BELIEVE</u>				BELIEVED			
The emergency spillway would break	1	2	3	4	5	6		
My home would be flooded	1	2	3	4	5	6		
My town would be flooded	1	2	3	4	5	6		

Q17.	After receiving your first evacuation message, how much would you say you agreed
	with each of the following statements on a scale of 1 to 6 where 1 represents "not
	likely" and 6 represents "extremely likely?" (CIRCLE ONE FOR EACH)

		NOT			EXTREMELY			
		<u>LIKEL</u>	<u>LIKELY</u>					
	The message was meant for me	1	2	3	4	5	6	
	I might become injured	1	2	3	4	5	6	
	Other people might become injured	1	2	3	4	5	6	
D.	I might die	1	2	3	4	5	6	
	Other people might die	1	2	3	4	5	6	

Q18. After receiving your first evacuation message, how much would you say you agreed with each of the following statements on a scale of 1 to 6 where 1 represents "disagree" and 6 represents "agree?" (CIRCLE ONE FOR EACH)

		<u>DISAGREE</u>				<u>AGREE</u>		
	The message helped me decide what to do	1	2	3	4	5	6	
	It was easy to decide what to do	1	2	3	4	5	6	
	I was able to decide what to do quickly	1	2	3	4	5	6	
D.	I decided what to do with confidence	1	2	3	4	5	6	

THE NEXT SET OF QUESTION ASK ABOUT THE TIME PERIOD <u>AFTER</u> YOU RECEIVED YOUR FIRST EVACUATION MESSAGE BUT <u>BEFORE</u> YOU BEGAN YOUR EVACUATION OR DECIDED TO NOT EVACUATE.

Q19.	After receiving your first evacuation message, but before you either began your
	evacuation or decided not to evacuate, how many additional evacuation messages
	did you receive? (FILL IN BLANK)

NUMBER OF ADDITIONAL MESSAGES

Q20. Who were those additional messages from? (CIRCLE ALL THAT APPLY)

	1 = LOCAL POLICE
	2 = LOCAL FIRE DEPARTMENT
	3 = GOVERNOR'S OFFICE OF EMERGENCY SERVICES
	4 = CAL FIRE
	5 = BUTTE COUNTY SHERIFF
	6 = SUTTER COUNTY SHERIFF
	7 = YUBA COUNTY SHERIFF
	8 = YUBA CITY OFFICIALS
	9 = CALIFORNIA DEPARTMENT OF WATER RESOURCES (DWR)
	10 = NATIONAL WEATHER SERVICE
	11 = FAMILY MEMBER OR OTHER RELATIVE
	12 = NEIGHBOR OR FRIEND
	13 = EMPLOYER
	14 = CO-WORKER
	15 = TV, RADIO, OR INTERNET BROADCASTER
	16 = OTHER (SPECIFY :)
Q 21.	How were those additional evacuation messages communicated to you? (CIRCLE ALL THAT APPLY)
	1 = LAND LINE TELEPHONE WITH A RECORDED MESSAGE
	2 = LAND LINE TELEPHONE WITH A LIVE PERSON
	3 = CELL PHONE OR OTHER MOBILE COMMUNICATION DEVICE WITH A
	RECORDED MESSAGE
	4 = CELL PHONE OR OTHER MOBILE COMMUNICATION DEVICE WITH A
	LIVE PERSON
	5 = TEXT MESSAGE – ON A MOBILE COMMUNICATION DEVICE SUCH AS A CELL PHONE
	6 = INTERNET – AN EMAIL
	7 = INTERNET - AN EMAIL 7 = INTERNET - SOCIAL MEDIA SUCH AS TWITTER OR FACEBOOK
	8 = INTERNET – WEBSITE
	9 = FACE-TO-FACE FROM AN AUTHORITY
	10 = FACE-TO-FACE FROM ANOTHER PERSON, FOR EXAMPLE FRIEND OR
	FAMILY MEMBER

11 = AN AUTHORITY IN THE STREET WITH A LOUDSPEAKER

16 = OTHER (**SPECIFY**: ______)

14 = TONE ALERT NATIONAL WEATHER SERVICE RADIO

12 = TELEVISION

15 = OUTDOOR WARNING SIREN

13 = RADIO

Q22.	Between the time you received your first evacuation message and the time you
	began your evacuation or decided not to evacuate, did you use any of the following
	to communicate with others? (CIRCLE ALL THAT APPLY)

- 1 = FACE-TO-FACE CONVERSATIONS
- 2 = LAND LINE PHONE CALL
- 3 = CELL PHONE CALL
- 4 = CELL PHONE TEXT MESSAGE
- 5 = SOCIAL MEDIA SUCH AS FACEBOOK OR TWITTER
- 6 = OTHER (SPECIFY _
- 9 = I DID NOT COMMUNICATE WITH OTHERS
- Q23. Between the time you received your first evacuation message and the time you began your evacuation or decided not to evacuate, did you seek additional information from any of the following sources? (CIRCLE ALL THAT APPLY)
 - 1 = FRIENDS, RELATIVES, NEIGHBORS, CO-WORKERS
 - 2 = LOCAL OFFICIALS SUCH AS FIRE, SHERIFF, OR POLICE
 - 3 = STATE OFFICIALS SUCH AS THE DEPARTMENT OF WATER RESOURCES, CAL FIRE, OR OFFICE OF EMERGENCY SERVICES
 - 4 = INTERNET WEBSITE
 - 5 = SOCIAL MEDIA, FOR EXAMPLE, FACEBOOK OR TWITTER
 - 6 = OTHER (**SPECIFY**
 - 9 = I DID NOT SEEK ADDITIONAL INFORMATION
- Q24. Between the time you received your first evacuation message and the time you began your evacuation or decided not to evacuate, did you do any of the following? (CIRCLE ALL THAT APPLY)
 - 1 = REUNITE WITH FAMILY MEMBERS
 - 2 = REUNITE OR ATTEND TO PETS
 - 3 = SECURE MY HOME
 - 4 = SECURE MY BUSINESS
 - 5 = PACK ITEMS TO TAKE WITH ME
 - 6 = TOLD OTHERS I WAS GOING/WHERE I WAS GOING
 - 7 = HELPED OTHERS GET READY TO EVACUATE
 - 8 = OTHER (SPECIFY _____
 - 9 = I DIDN'T DO ANYTHING BEFORE EVACUATING

THE FOLLOWING QUESTIONS ASK ABOUT YOUR EVACUATION AND/OR YOUR DECISION TO NOT EVACUATE IF YOU DID NOT LEAVE.

- Q25. Did you evacuate?
 - 1 = YES (IF YES, SKIP TO Q27)
 - 2 = NO

IF YOU EVACUATED, SKIP TO QUESTION 27

- Q26. If you did not evacuate, why didn't you leave? (CIRCLE ONE, THEN SKIP TO QUESTION 33)
 - 1 = NOT IN AREA TOLD TO EVACUATE
 - 2 = NOT IN A LOW LYING AREA OR AN AREA THAT WOULD FLOOD
 - 3 = STAYED BEHIND TO PROTECT MY PROPERTY
 - 4 = DID NOT THINK THERE WOULD BE A FLOOD
 - 5 = I STAYED BEHIND TO DO MY JOB
 - 6 = DID NOT HAVE THE RESOURCES, FOR EXAMPLE MONEY OR VEHICLE
 - 7 = PHYSICALLY UNABLE TO EVACUATE
 - 8 = OTHER (**SPECIFY**: ______)

IF YOU DID NOT EVACUATE, SKIP TO QUESTION 33

- Q27. What day did you begin your evacuation (by begin your evacuation we mean leave your location to go to a safe area)? **(CIRCLE ONE)**
 - 1 = PRIOR TO FRIDAY, FEBRUARY 10
 - 2 = FRIDAY, FEBRUARY 10
 - 3 = SATURDAY, FEBRUARY 11
 - 4 = SUNDAY, FEBRUARY 12
 - 5 = MONDAY, FEBRUARY 13
 - 6 = AFTER MONDAY, FEBRUARY 13

Q28.	On that day, what time did you begin your evacuation (by begin your evacuation we mean leave your location to go to a safe area)? (FILL IN BELOW WITH THE BEST ESTIMATE YOU CAN MAKE)			
	HOUR	MINUTE	AM or PM	
Q29.	Where did you go v	vhen you evacuated	? (CIRCLE ONE)	
	2 = FRIEN 3 = HOTEI 4 = WORK 5 = CHURO 6 = CAMPO	CH GROUND/RV PARK)
Q30.	In what city and sta	ate was it located? (I	FILL IN BELOW)	
Q31.	How long did it tak ESTIMATE YOU CA	•	FILL IN BELOW WITH THE BEST	
	HOURS	MINUTES		
Q32.	How did you get th	ere? (CIRCLE ONE)		
	2 = FRIEN 3 = BUS 4 = WALK		VEHICLE)

THE LAST SET OF QUESTIONS IS ABOUT YOUR PERSONAL ATTRIBUTES. ANSWERS TO THESE QUESTIONS WILL HELP US LEARN HOW DIFFERENT TYPES OF PEOPLE RECEIVE AND RESPOND TO FLOOD WARNINGS.

Q33.	33. Do you consider yourself male, female, or other? (CIRCLE ONE)	
	1 = MALE 2 = FEMALE 3 = OTHER (SPECIFY)	
Q34.	Which one of the following racial/ethnic groups best describes you? If you identify with more than one, choose the group you identify with the most. (CIRCLE ONE)	
	1 = WHITE 2 = HISPANIC OR LATINO 3 = BLACK OR AFRICAN AMERICAN 4 = ASIAN 5 = NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER 6 = AMERICAN INDIAN OR ALASKAN NATIVE 7 = OTHER (SPECIFY)	
Q35.	What was your age on your last birthday? (CIRCLE ONE) 1 = 18-24 YEARS OLD 2 = 25-34 YEARS OLD 3 = 35-44 YEARS OLD 4 = 45-54 YEARS OLD 5 = 55-64 YEARS OLD 6 = 65-74 YEARS OLD 7 = 75 YEARS OR OLDER	
Q36.	What is the highest level of education you have completed? (CIRCLE ONE) 1 = LESS THAN HIGH SCHOOL DIPLOMA 2 = HIGH SCHOOL DIPLOMA OR EQUIVALENT 3 = SOME COLLEGE BUT NO DEGREE 4 = ASSOCIATE DEGREE 5 - BACHELOR DEGREE	

6 = GRADUATE DEGREE

Q37.	Thinking of all the people in your household, was the total household income from all sources in 2016? Please include your own income as well. (CIRCLE ONE)
	1 = LESS THAN \$15,000 2 = \$15,000 TO \$24,999 3 = \$25,000 TO \$34,999 4 = \$35,000 TO \$49,999 5 = \$50,000 TO \$74,999 6 = \$75,000 TO \$99,999 7 = \$100,000 TO \$149,999 8 = \$150,000 TO \$199,999 9 = \$200,000 OR MORE
Q38.	Which of the following categories best describes your employment status? (CIRCLE ONE)
	1 = EMPLOYED, WORKING 1-39 HOURS PER WEEK 2 = EMPLOYED, WORKING 40 OR MORE HOURS PER WEEK 3 = NOT EMPLOYED, LOOKING FOR WORK 4 = NOT EMPLOYED, NOT LOOKING FOR WORK 5 = RETIRED 6 = DISABLED, NOT ABLE TO WORK
Q39.	How many people and pets including yourself lived in your household on February 12, 2017, the day the evacuation was ordered? (INSERT NUMBERS IN BLANKS BELOW)
	CHILDREN UNDER THE AGE OF 18
	ADULTS OVER THE AGE OF 18 AND UNDER THE AGE OF 65
	ADULTS AGE 65 AND OLDER
	PETS

PLEASE USE THE SPACE BELOW TO TELL US ANYTHING ELSE YOU'D LIKE TO SAY ABOUT YOUR EXPERIENCE WITH THE OROVILLE DAM EVENT IN FEBRUARY 2017.		

Thank you for taking the time to complete the survey. The Survey Research Center at California State University, Fullerton can be reached by phone at (657) 278-3185.

END