

# NWS Flood Survey FINAL

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Start of Block: CONSENT

**Q1.1 Flash Flood Response Survey** Please complete the following 5 minute survey regarding the {DATE} rain event. Your participation in this study is voluntary and your identity will remain anonymous. You may skip any question you don't feel comfortable answering. You may withdraw from the study at any time without penalty. All information that you enter will remain confidential, and no information that can be linked to you will be made public. Any results from the survey will talk about groups of people and none of your individual information will be shared with anyone. Your decision to participate will have no bearing on your relationship with any of the organizations that are mentioned here. There are no risks associated with participating in this study. There are no penalties if you choose not to participate. No monetary or other such form of financial compensation will be offered to participants of this study. Results from this study may be shared with local jurisdictions, and results will be made available to the public upon request. This survey is funded by the National Oceanic and Atmospheric Administration. We are working to understand public response to hazardous weather events in order to improve how weather information is delivered to you. This survey should take about 5-10 minutes to complete. If you have any questions about this survey, please contact Brenda Philips at [bphilips@ecs.umass.edu](mailto:bphilips@ecs.umass.edu), or Cedar League at [cedarleague@gmail.com](mailto:cedarleague@gmail.com). Alternatively, if you have any questions about your rights as a participant in this study, you can also contact the University of Massachusetts Institutional Review Board at (413) 545-3428. OMB Approval Date and Statement here... **BEGIN THE SURVEY BY PRESSING >> BELOW**

End of Block: CONSENT

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Start of Block: PANEL

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Start of Block: INTRO

**Q3.1 What is your 5 digit zip code?**

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**Q3.2 How did you get the link to this survey?**

- National Weather Service website/social media
- Local news website/social media

- Public safety email list, website, or social media
- A friend forwarded it to me
- Community group email list, website or social media
- Other \_\_\_\_\_

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Page Break \_\_\_\_\_

Q3.3

**Heavy Rain/Flooding event(s) occurred in your area on:**

- {Date 1}**
- {Date 2}**
- {Date 3}**
- {Date 4}**

Which event(s) do you recall the most?

- {Date 1}
- {Date2}
- {Date 3}
- {Date 4}
- I don't remember any event(s)

*Skip To: End of Survey If Heavy Rain/Flooding event(s) occurred in your area on: {Date 1} {Date 2} {Date 3} {Date 4} Which... = {Date2}*

*Skip To: End of Survey If Heavy Rain/Flooding event(s) occurred in your area on: {Date 1} {Date 2} {Date 3} {Date 4} Which... = {Date 4}*

*Skip To: End of Survey If Heavy Rain/Flooding event(s) occurred in your area on: {Date 1} {Date 2} {Date 3} {Date 4} Which... = I don't remember any event(s)*

**End of Block: INTRO**

**Start of Block: PRE-EVENT PHASE - INFO & ACTIONS**

Q4.1

The remaining questions focus on the event date that you selected. BEFORE the event began, did you know about the POTENTIAL for flash flooding to occur?

- Yes
- No
- I don't know

Skip To: End of Block If Aware before? = No

Skip To: End of Block If Aware before? = I don't know

Page Break



Q4.2 How far in advance were you made aware that a flash flood was possible for your area?

- Minutes before
- 30-60 minutes before
- A couple hours before
- The day before
- I don't know

Page Break



**Q4.3 What information source(s) did you use to become aware of POSSIBLE flash flooding BEFORE it occurred? Select UP TO 3 information sources that were the most useful for you.**

National News/Weather Company (Weather.com, Google, Good Morning America, etc.)

Local News Media or Weather Person

National Weather Service (Government)

Friends/Family

Community Leader(s) (ex. Clergy, Mayor, Governor, School Official)

Public Safety Official(s) (Emergency Manager, Police, Fire)

Observing/experiencing weather conditions near me

None of the above

Other (Please state) \_\_\_\_\_

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Page Break

Display This Question:

If Sources BEFORE = Local News Media or Weather Person



**Q4.4 You selected your local news or weather person as a source of information. BEFORE the heavy rain/ flash flooding happened, how did you access information from your local news or weather person? (Select all that apply.)**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

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Page Break

*Display This Question:*

*If Sources BEFORE = National Weather Service (Government)*



**Q4.5 You selected the National Weather Service as an information source. BEFORE the heavy rain/ flash flooding happened, how did you access information from the National Weather Service? (Select all that apply.)**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- NOAA weather radio
- Radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

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Page Break

Display This Question:

If Sources BEFORE = Community Leader(s) (ex. Clergy, Mayor, Governor, School Official)



Q4.6 You selected your community leaders as an **information** source. BEFORE the heavy rain/ flash flooding happened, how did you get information from community leaders (clergy, mayor, governor, school officials)? (Select all that apply.)

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

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Page Break

Display This Question:

If Sources BEFORE = Friends/Family



**Q4.7 You selected family or friends as an information source. BEFORE the heavy rain/ flash flooding happened, how did you get information from family or friends? (Select all that apply.)**

Social media (ex. Facebook, Twitter)

E-mail

Smart phone app

Text

Phone call

Newspaper

Talking in-person with someone

Other \_\_\_\_\_

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Page Break

Display This Question:

If Sources BEFORE = Public Safety Official(s) (Emergency Manager, Police, Fire)



**Q4.8 You selected public safety officials as an information source. BEFORE the heavy rain/ flash flooding happened, how did you get information from public safety officials? (Select all that apply.)**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

Display This Question:

If Sources BEFORE = Other (Please state)



**Q4.9 You selected other information sources. BEFORE the heavy rain/ flash flooding happened, how did you access information from  $\${Q4.3/ChoiceTextEntryValue/11}$ ? (Select all that apply.)**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app

- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

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Page Break \_\_\_\_\_

*Display This Question:*  
*If Sources BEFORE = Observing/experiencing weather conditions near me*



**Q4.10 BEFORE the heavy rain/ flash flooding happened, how did you observe or experience weather conditions near you? (Select all that apply.)**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Smart Phone

Going or being outdoors

Looking out my window

Being in a vehicle



Page Break 

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*Display This Question:*  
*If Sources BEFORE = National News/Weather Company (Weather.com, Google, Good Morning America, etc.)*



**Q4.11 You selected the national news or a weather company as a sources of information. BEFORE the heavy rain/ flash flooding happened, how did you access information from the national news or the weather company?**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

**Q4.12 BEFORE the event began, what was your level of concern based on the information you were given?**

- No concern
  - Slightly concerned
  - Moderately concerned
  - Very Concerned
  - Extremely concerned
- 

Page Break

**Q4.13 Based on the information you were given BEFORE the event, did you think any of the threats listed below might impact you or your family? (Select all that apply.)**

- Heavy rains
- Rapid rise in streams, creeks and rivers
- Urban flooding
- Flooded roadways / closure of roads
- Washed out roads
- Cars swept away
- House/structural flooding
- Destruction of property
- Power outage

Injury/losses

No threats/impacts

Other (please specify) \_\_\_\_\_

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Page Break



**Q4.14 What, if any, preparations did you take BEFORE the heavy rain/flash flood event occurred? (Please select all that apply.)**

Looked for additional weather information

Shared information with somebody

Cancelled or rescheduled planned activities and/or appointments

Rerouted planned trip(s)

Allowed more time for travel or decided to drive more carefully

Purchased/created/updated an emergency survival kit

Protected home/building with sandbags

Protected my belongings (ex. move furniture, car)

Made a sheltering/evacuation plan

No action taken

Other (please specify) \_\_\_\_\_

End of Block: PRE-EVENT PHASE - INFO & ACTIONS

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Start of Block: LOCATION/EXPERIENCE DURING EVENT

Q5.1 Did you experience any heavy rain or flooding on [\\${Q1.1/QuestionText}](#)?

- Yes
  - No
  - I don't know
- 

Page Break

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Q5.2 Where were you when you experienced the most intense part of the heavy rain or flooding? We are interested in learning more about your experience during this part of the event.

- I was a passenger or driver in a vehicle
- I was at home or in a building
- I was on-foot and outside
- I did not experience the intense part of this storm

End of Block: LOCATION/EXPERIENCE DURING EVENT

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Start of Block: EVENT PHASE - INFO & ACTIONS



**Q6.1 Now, think about the time period DURING the event. How did you know the heavy rain/ flash flooding event was happening? Select UP TO 3 information sources that were the most useful for you.**

- National News/Weather Company (Weather.com, Google, Good Morning America, etc.)
- Local TV News Channel or Weather Person
- National Weather Service (Government)
- Friends/Family
- Community Leader(s) (ex. Clergy, Mayor, Governor)
- Public Safety Official(s) (Emergency Manager, Police, Fire)
- Observing/experiencing weather conditions near me
- None of the above
- Other (Please state) \_\_\_\_\_

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Page Break

*Display This Question:*

*If Sources DURING = Local TV News Channel or Weather Person*



**Q6.2 You selected your local news or weather person as a source of information. DURING the event, how did you access information from your your local news or weather person? (Select all that apply.)**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

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Page Break

Display This Question:

If Sources DURING = National Weather Service (Government)



**Q6.3 You selected the National Weather Service as an information source. DURING the event, how did you access information from the National Weather Service? (Select all that apply.)**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- NOAA weather radio
- Radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

Display This Question:

If Sources DURING = Community Leader(s) (ex. Clergy, Mayor, Governor)



Q6.4 You selected your community leaders as an **information** source. DURING the event, how did you get information from community leaders (clergy, mayor, governor, school officials)? (Select all that apply.)

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper

Talking in-person with someone

Other \_\_\_\_\_

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Page Break \_\_\_\_\_

Display This Question:

*If Sources DURING = Friends/Family*



**Q6.5 You selected family or friends as an information source. DURING the event, how did you get information from family or friends? (Select all that apply.)**

Social media (ex. Facebook, Twitter)

E-mail

Smart phone app

Text

Phone call

Newspaper

Talking in-person with someone

Other \_\_\_\_\_

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Page Break \_\_\_\_\_

Display This Question:

*If Sources DURING = Public Safety Official(s) (Emergency Manager, Police, Fire)*



**Q6.6 You selected public safety officials as an information source. DURING the event, how did you get information from public safety officials? (Select all that apply.)**

Social media (ex. Facebook, Twitter)

TV/Cable

Website

- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

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Page Break

*Display This Question:*

*If Sources DURING = Other (Please state)*



**Q6.7 You selected other information sources. DURING the event, how did you access information from `#{Q6.1/ChoiceTextEntryValue/11}`?**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

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Page Break

Display This Question:

If Sources DURING = Observing/experiencing weather conditions near me



**Q6.8 DURING the event, how did you observe or experience weather conditions near you? (Select all that apply.)**

Social media (ex. Facebook, Twitter)

TV/Cable

Website

Smart Phone

Going or being outdoors

Looking out my window

Being in a vehicle

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Page Break

Display This Question:

If Sources DURING = National News/Weather Company (Weather.com, Google, Good Morning America, etc.)



**Q6.9 You selected the national news or a weather company as a sources of information. DURING the event, how did you access information from the national news or the weather company? (Select all that apply.)**

- Social media (ex. Facebook, Twitter)
- TV/Cable
- Website
- Wireless Emergency Alert (WEA cell phone alert)
- City notification system (ex. Reverse 911, Code Red, Everbridge)
- E-mail
- Smart phone app
- Text
- Phone call
- Radio
- NOAA weather radio
- Siren
- Newspaper
- Talking in-person with someone
- Other \_\_\_\_\_

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Page Break

Q6.10 **DURING** the event, do you recall receiving any of the following? (Select all that apply.)

Flood Advisory

Flood Watch

Flash Flood Warning

Severe Thunderstorm Watch

Severe Thunderstorm Warning

Tornado Watch

Tornado Warning

I did not receive any of these

I don't remember

Other \_\_\_\_\_

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Page Break

Q6.11 **DURING** the event, what was your level of concern based on the information you were given?

- Not concerned
- Slightly concerned
- Moderately concerned
- Very concerned
- Extremely concerned

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Page Break

*Display This Question:*

*If Where were you when you experienced the most intense part of the heavy rain or flooding? We are... = I was at home or in a building*



**Q6.12 While indoors, what action(s), if any, did you take DURING the heavy rain/flash flood event?  
(Select all that apply.)**

- Looked for additional weather information
- Shared information with somebody
- Cancelled or rescheduled plans
- Used emergency survival kit
- Protected home/building with sandbags
- Protected my belongings (ex. move furniture, car)
- Protected my family/pets
- Assisted others during event
- Remained indoors until safe
- Relocated to a higher level in my home/building
- Sought alternate shelter
- Evacuated from my location
- No action taken
- Other \_\_\_\_\_

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Page Break

Display This Question:

If Where were you when you experienced the most intense part of the heavy rain or flooding? We are... = I was a passenger or driver in a vehicle



**Q6.13 While in the vehicle, what actions, if any, did you take DURING the flash flood event? (Select all that apply.)**

- Looked for additional weather information
- Shared information with somebody
- Cancelled or rescheduled my trip
- Paused my trip until the rain stopped
- Rerouted my trip(s)
- Continued my trip
- Assisted others during event
- Abandoned my vehicle
- No action taken
- Other (please specify) \_\_\_\_\_

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Page Break

Display This Question:

*If Where were you when you experienced the most intense part of the heavy rain or flooding? We are... = I was on-foot and outside*



**Q6.14 While outdoors, what action(s), if any, did you take DURING the flash flood event? (Select all that apply.)**

- Looked for additional weather information
- Shared information with somebody
- Cancelled or rescheduled plans
- Protected my family/pets
- Protected my belongings
- Assisted others during event
- Sought shelter to safer location/higher ground
- Sought transportation
- Evacuated from my location
- No action taken
- Other \_\_\_\_\_

End of Block: EVENT PHASE - INFO & ACTIONS

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Start of Block: EVENT - DRIVING

Q7.1

**Were you the driver or the passenger in the vehicle?**

- I was the driver
  - I was the passenger
  - I don't know
- 

Page Break

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**Q7.2 Was anyone in the vehicle with you? (Select all that apply.)**

- Kid(s)
  - Adult(s)
  - Senior citizen(s)
  - Person(s) with a disability
  - Pet(s)
  - I was alone
  - Other \_\_\_\_\_
- 

Page Break

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**Q7.3 What type of vehicle you were in?**

- Lower clearance vehicle (ex. car, small SUV, sedan, minivan, motorcycle)
- Higher clearance vehicle (ex. truck, large SUV, large van, semi)
- Other \_\_\_\_\_

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Page Break

**Q7.4 What was the primary purpose of your trip?**

- Commute to work or school
- Commute from work or school
- Picking up/dropping off kids and/or family
- Appointment
- Errands / leisure (shopping, dining, recreation)
- Worship
- Other \_\_\_\_\_

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Page Break

**Q7.5 Did you encounter a flooded and/or closed road? (Flooding could have been any amount of moving or standing water on the road.)**

- Yes
- No
- I don't know \_\_\_\_\_

*Skip To: End of Block If Did you encounter a flooded and/or closed road? (Flooding could have been any amount of moving or... = No*

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Page Break

**Q7.6 Please enter the TOWN and closest INTERSECTION of the flooded road you encountered.**

Town \_\_\_\_\_

Intersection \_\_\_\_\_

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Page Break \_\_\_\_\_

**Q7.7 Please enter the approximate TIME OF DAY you encountered the flooded road.**

Hour

Minutes

AM/PM

▼ 12 ... I Don't Know ~ ~

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Page Break \_\_\_\_\_

**Q7.8 What did you see when you encountered the flooded or closed road? (Select all that apply.)**

Presence of water on road

Flashing lights

Barricades

Public safety officials

Congestion

I saw vehicles driving through

I saw vehicles turning around

I saw vehicle(s) stalled

I saw vehicle(s) swept away

Other \_\_\_\_\_

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Page Break \_\_\_\_\_

**Q7.9 How deep would you say the water was at that location?**

- I did not see any water
- Less than 3 inches
- Between 3 to 6 inches
- Between 6 to 12 inches
- Between 12 to 24 inches
- 24+ inches
- I don't know \_\_\_\_\_

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Page Break \_\_\_\_\_

**Q7.10 What did you do when you saw the road was flooded and/or closed?**

- I turned around and/or rerouted my trip
- I continued driving on the road and made it through the flooded area
- I continued driving on the road and it wasn't flooded, or my side of road wasn't flooded
- I continued driving on the road and got stuck in flood waters
- I stopped driving and pulled my car over
- I was in a parking lot
- Other, describe \_\_\_\_\_

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Page Break \_\_\_\_\_



Q7.11 Please indicate how much the following factors INFLUENCED your driving decision when you saw the road was flooded and/or closed. Select "Not a Factor" if the factor was not relevant to your decision.

	1. Not influential at all	2. Slightly influential	3. Somewhat influential	4. Very influential	5. Extremely influential	Not a factor
Presence of barricades/blockades	0	0	0	0	0	0
Presence of flashing sign(s) indicating flooding	0	0	0	0	0	0
Presence of safety officials	0	0	0	0	0	0
Intense rainfall outside	0	0	0	0	0	0
Long rainfall duration	0	0	0	0	0	0
Not being able to see the water on the road	0	0	0	0	0	0
Perceived water level/speed	0	0	0	0	0	0
Needing to get to work/family/kids	0	0	0	0	0	0
Seeing other vehicle(s) drive through successfully	0	0	0	0	0	0
Seeing other vehicle(s) turn around	0	0	0	0	0	0
Seeing other vehicle(s) stuck	0	0	0	0	0	0
Past experience making it through	0	0	0	0	0	0
Past experience NOT making it through	0	0	0	0	0	0
Concern/fear for self, family, friends	0	0	0	0	0	0
High confidence in my vehicle	0	0	0	0	0	0
High confidence in my driving ability	0	0	0	0	0	0
Inconvenience of taking a detour	0	0	0	0	0	0
Traffic congestion	0	0	0	0	0	0
Not able to turn around due to traffic or the road layout	0	0	0	0	0	0

Event timing (hour/day of week)	0	0	0	0	0	0
NWS Flash Flood Warning	0	0	0	0	0	0
Other (please state)	0	0	0	0	0	0

End of Block: EVENT - DRIVING

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Start of Block: EVENT - HOME/INDOORS

Q8.1

**What type of building were you in during the heavy rain/flood event?**

- Free standing home/residence
- Multi-residential unit (Apartment/townhouse/condo)
- Mobile home
- Work place building
- Retail building
- Other \_\_\_\_\_

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Page Break \_\_\_\_\_

**Q8.2 Was anyone in the home/building with you? (Select all that apply.)**

- Kid(s)
- Adult(s)
- Senior Citizen(s)
- Person(s) with a disability
- Pet(s)
- I was alone
- Other \_\_\_\_\_

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Page Break

**Q8.3 Did you experience flooding at any of the locations below?**

- I experienced flooding inside the building/home
- I experienced flooding very close to the building/home
- No, I did not experience any flooding
- I don't know

*Skip To: End of Block If Did you experience flooding at any of the locations below? = No, I did not experience any flooding*  
*Skip To: End of Block If Did you experience flooding at any of the locations below? = I don't know*

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Page Break

**Q8.4 Please enter the TOWN and closest INTERSECTION where the building/residence flooded.**

Town \_\_\_\_\_

Intersection \_\_\_\_\_

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Page Break \_\_\_\_\_

**Q8.5 Please enter the approximate time of day when you experienced flooding.**

Hour

Minutes

AM/PM

▼ 12 ... I Don't Know ~ ~

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Page Break \_\_\_\_\_

**Q8.6 How did you know that the building was flooding? (Select all that apply.)**

I saw increasing water levels in the house

I saw a sudden rush of water coming into the house

I saw flooding outside of the house

A friend, neighbor, or landlord called

Public safety or police notified me

Other \_\_\_\_\_

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Page Break \_\_\_\_\_

Q8.7 What was the greatest water depth you observed during this event?

I did not see any water

0 to 3 inches

3 to 6 inches

6 to 12 inches

12 to 24 inches

> 24 inches

Other \_\_\_\_\_

I don't know

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Page Break \_\_\_\_\_

**Q8.8 What action(s) did you take in response to the flooding?**

- I went to a non-flooded area or higher floor of the building
- I evacuated the building on foot
- I evacuated building in a car
- I evacuated the building in a boat
- I stayed where I was and monitored the situation
- I stayed where I was because I couldn't evacuate due to the flooding conditions
- I stayed and protected my property (sandbag, move car, move furniture/belongings)
- Other \_\_\_\_\_

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Page Break

**Q8.9 Did you call or contact anyone for help?**

- 911
- Neighbor or friend
- Stormwater/city utility
- Other \_\_\_\_\_

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Page Break

**Q8.10 How much did the following factors influence the action(s) you took when you experienced the flooding? Select "Not a Factor" if the factor was not relevant to your decision.**

	1. Not influential at all	2. Slightly influential	3. Somewhat influential	4. Very influential	5. Extremely influential	Not a factor
Consistency/urgency of forecast	0	0	0	0	0	0
Receipt of a NWS warning	0	0	0	0	0	0
Friends / family urged me to take action	0	0	0	0	0	0
I saw other people taking action	0	0	0	0	0	0
Previous experience with flooding led me to believe I could be in danger	0	0	0	0	0	0
Concern/fear for self, family, friends	0	0	0	0	0	0
Intense rainfall	0	0	0	0	0	0
Rapidly increasing water levels INSIDE the home	0	0	0	0	0	0
Rapidly increasing water levels OUTSIDE the home	0	0	0	0	0	0
Flooding at my location was minor	0	0	0	0	0	0
Needing to take care of family/friends/pets	0	0	0	0	0	0
I was trapped in the building	0	0	0	0	0	0
Having a car to use for evacuation	0	0	0	0	0	0
This event caught me off guard	0	0	0	0	0	0
I didn't believe the forecasts and warnings were accurate	0	0	0	0	0	0
I didn't think the event would impact my location	0	0	0	0	0	0
I didn't see any threatening weather outside	0	0	0	0	0	0

Other (Please state)

0 0 0 0 0 0

End of Block: EVENT - HOME/INDOORS

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Start of Block: EVENT - OUTSIDE/ON FOOT

**Q9.1 What were you doing at the time of the event?**

- I was outside/walking in the city
- I was outside/walking in a rural area
- I was doing outdoor activities. (ex. camping, boating, hiking, sports)
- I was using public transportation
- Other \_\_\_\_\_

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Page Break

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**Q9.2 Was anyone with you while outdoors? (Select all that apply.)**

- Kid(s)
- Adult(s)
- Senior Citizen(s)
- Person(s) with disability
- Pet(s)
- I was alone
- Other \_\_\_\_\_

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Page Break

**Q9.3 Did you experience flooding while outdoors?**

- Yes
- No
- I don't know

*Skip To: End of Block If Did you experience flooding while outdoors? = No*  
*Skip To: End of Block If Did you experience flooding while outdoors? = I don't know*

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Page Break

**Q9.4 Please enter the TOWN and closest INTERSECTION where you experienced flooding.**

- Town \_\_\_\_\_
- Intersection \_\_\_\_\_

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Page Break

**Q9.5 Please enter the approximate time of day when you experienced flooding.**

Hour  
Minutes  
AM/PM

▼ 12 ... I Don't Know ~ ~

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Page Break

Q9.6 What was the greatest water depth you observed outdoors during this event?

I did not see any water

0 to 3 inches

3 to 6 inches

6 to 12 inches

12 to 24 inches

> 24 inches

Other \_\_\_\_\_

I don't know

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Page Break \_\_\_\_\_

**Q9.7 What action(s) did you take in response to the flooding?**

- I went to a non-flooded area or higher ground
- I evacuated the area on foot
- I evacuated area in a car/public transport
- I evacuated the area by boat
- I stayed where I was and monitored the situation
- I stayed where I was because I couldn't evacuate due to the flooding conditions
- I stayed where I was and protected my belongings
- I got stuck in the flood water
- Other \_\_\_\_\_

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Page Break

**Q9.8 Did you call or contact anyone?**

- 911
- Neighbor or friend
- Stormwater/city utility
- Other \_\_\_\_\_

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Page Break

**Q9.9 How much did the following factors influence the action(s) you took when you experienced the flooding?**

	1. Not influential at all	2. Slightly influential	3. Somewhat influential	4. Very influential	5. Extremely influential	Not a factor
Consistency/urgency of forecast	0	0	0	0	0	0
Receipt of a NWS warning	0	0	0	0	0	0
Friends / family urged me to take action	0	0	0	0	0	0
I saw other people taking action	0	0	0	0	0	0
Previous experience with flooding led me to believe I could be in danger	0	0	0	0	0	0
Concern/fear for self, family, friends	0	0	0	0	0	0
Intense rainfall outside	0	0	0	0	0	0
Rapidly increasing water levels near me	0	0	0	0	0	0
Flooding at my location was minor	0	0	0	0	0	0
Knowledge of the area	0	0	0	0	0	0
Needing to take care of family/friends/pets	0	0	0	0	0	0
There wasn't a safe place to go	0	0	0	0	0	0
Having a car accessible	0	0	0	0	0	0
This event caught me off guard	0	0	0	0	0	0
I didn't believe the forecasts and warnings were accurate	0	0	0	0	0	0
I didn't think the event would impact my location	0	0	0	0	0	0
I didn't see any threatening weather	0	0	0	0	0	0
Other (Please state)	0	0	0	0	0	0

**Q10.1 Which, if any, of the following impacts did you personally experience as a result of this flash flood event? (Please select all that apply)**

- Flooded roadways / closure of roads in my neighborhood
- Washed out roads in my neighborhood
- Power outage
- Food/water shortages
- Disruption to work/school/life
- Public health impacts (boil water, mold, etc.)
- Personal economic impacts
- I was injured
- A friend/family member was injured
- My car was damaged
- Property loss/damage
- Death of a friend/relative
- No impacts
- Other (please specify) \_\_\_\_\_



Display This Question: If Sources DURING = National Weather Service (Government)

Q10.2 Now consider the information you received from the National Weather Service DURING this hazardous flooding event. Using a scale from 1 to 10 where 1 is "Poor," and 10 is "Excellent," please rate the NWS on the following:

	1 (poor)	2	3	4	5	6	7	8	9	10 (excellent)	Don't know/ NA
Ease of finding hazardous flooding forecast information specific to your geographic area	0	0	0	0	0	0	0	0	0	0	0
Accuracy of information for this hazardous flooding event	0	0	0	0	0	0	0	0	0	0	0
Explaining the threat and expected impacts of this hazardous flooding event	0	0	0	0	0	0	0	0	0	0	0
Providing information to help you make decisions relative to this hazardous flooding event	0	0	0	0	0	0	0	0	0	0	0
Overall satisfaction with information or services received by the NWS	0	0	0	0	0	0	0	0	0	0	0

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Page Break

**Q10.3 Overall, how severe would you say this event was?**

- Not severe at all
- Slightly severe
- Moderately severe
- Very severe
- Extremely severe

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Page Break

**Q10.4 Is there anything else you would like to share about your experience this day?**

- Yes (please describe) \_\_\_\_\_
- No

**End of Block: IMPACTS**

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**Start of Block: DEMOGRAPHICS**

**Q11.1 We are interested in learning about your previous experience with flash flooding. Please answer the following statements with a Yes or No.**

	Yes	No	I don't know
I have previously experienced a flash flood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have experienced a personal loss due to flooding (ex. financial, belongings)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My home has previously flooded	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My car has previously flooded	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I live on or near a floodplain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I live in an area that frequently floods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have an emergency survival kit at home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Page Break \_\_\_\_\_

**Q11.2 Please select how much you agree or disagree with the following statements. Select N/A if the statement does not apply to you.**

	1. Strongly disagree	2. Disagree	3. Neutral	4. Agree	5. Strongly agree	N/A
I am fearful of flooding	0	0	0	0	0	0
I follow the weather very closely	0	0	0	0	0	0
I consider myself a good judge of whether flood waters are dangerous	0	0	0	0	0	0
I take flash flood warnings seriously	0	0	0	0	0	0
I consider myself prepared for what comes my way	0	0	0	0	0	0
I feel that I am completely capable to keep myself safe during a flash flood	0	0	0	0	0	0

Page Break



**Q11.3 In what year were you born?**

Year	▼ 1900 ... 2005
------	-----------------

Page Break

**Q11.4 What is your gender?**

- Male
- Female
- I prefer not to answer
- Other \_\_\_\_\_

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Page Break \_\_\_\_\_

**Q11.5 Select the category that best describes you.**

- White
- Black or African American
- Hispanic, Latino or Spanish origin
- American Indian or Alaska Native
- Asian
- Native Hawaiian or Pacific Islander
- Multi-racial \_\_\_\_\_
- Other \_\_\_\_\_
- I prefer not to answer

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Page Break \_\_\_\_\_

**Q11.6 Please tell us who lives in your household. (Select all that apply.)**

- Adult(s) 18-64 years old
- Adult(s) 65+ years old
- Child(ren) 17 years old or younger
- Pets
- Person(s) with disabilities
- I prefer not to answer

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Page Break

**Q11.7 Please select the range that best describes your annual household income from all sources before taxes and other deductions.**

- \$0-\$14,999
- \$15,000 - \$34,999
- \$35,000 - \$49,999
- \$50,000 - \$74,999
- \$75,000 - \$99,999
- \$100,000 - \$149,999
- \$150,000 - \$250,000
- \$250,000 +
- I prefer not to answer

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Page Break

**Q11.8 At your primary job, do you generally have flexibility in your work schedule and/or location?**

- Yes, I can work from home on short notice
- Yes, I can reschedule/delay arrival on short notice
- No, I do not have flexibility

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Page Break

**Q11.9 Which occupational category best matches your primary job?**

▼ Management ... Other

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Page Break

**Q11.10 What is the highest level of school you have completed or the highest degree you have received?**

- Less than high school degree
- High school graduate (high school diploma or equivalent including GED)
- Some college but no degree
- Associate degree in college (2-year)
- Bachelor's degree in college (4-year)
- Master's degree
- Doctoral degree
- Professional degree (JD, MD)
- I prefer not to answer

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Page Break

**Q11.11 In which type of housing do you currently live?**

- Apartment
  - Townhouse
  - Duplex
  - House
  - Manufactured/mobile home
  - Condominium
  - Other \_\_\_\_\_
- 

Page Break \_\_\_\_\_

**Q11.12 Do you own or rent your home?**

- Own
  - Rent
  - Other \_\_\_\_\_
- 

Page Break \_\_\_\_\_

**Q11.13 Do you have flood insurance?**

- Yes
- No
- I don't know

---

Page Break

**Q11.14 Which of the following best describes where you live?**

- a large city
- a suburb near a large city
- a small city or town
- a rural area

**End of Block: DEMOGRAPHICS**

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