



The Flood Response Game

Emergency Update #1

The rains have been falling for several days and parts of your community are starting to see signs of flooding. In addition, your community experiences a community challenge: a **communication outage** has occurred that will require resources to manage.



ZONE A: **Level 2 flooding** is already occurring in your zone with a levee breach along a 100 meter stretch near the main business area. Levees in other areas are holding, but with water levels rising fast, other areas in your zone are considered vulnerable. Two additional stretches of riverbank are likely to need reinforcement soon.



ZONE B: There are no flood warnings in your zone yet, but your zone is at **Level 1 Flood Warning**. With water levels rising quickly, you should assess where flooding will most likely occur and think about potential preparations if these areas flood.



ZONE C: There are **no flood warnings** for your zone, so your team has bandwidth to take the lead in addressing the Community Challenge.



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Emergency Update #2

The flooding is escalating in the areas closest to the river. In addition, your community experiences a community challenge: a **road failure** has occurred that will affect your community's ability to move people and supplies.



ZONE A: Your zone has been elevated to **Level 3 flooding**, and the two areas along the river bed that were in danger in Round 1 now have active breaches.



ZONE B: This zone has been elevated to **Level 2 flooding** with some flooding in areas close to the river, but no breaches are detected.



ZONE C: There are **no flood warnings** for your zone, so your team will again take the lead in addressing the Community Challenge.



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Emergency Update #3

The river level continues to rise and severe flooding is present in the business district. In addition, your community experiences a community challenge: there are **vulnerable people who must be evacuated**.



ZONE A: Your zone has reached **Level 4 flooding**. Two new breaches have been detected that threaten major roadways.



ZONE B: This zone has been elevated to **Level 3 flooding**. Near downtown, a breach in the river bank has been discovered that needs to be repaired.



ZONE C: There are **no flood warnings** for your zone, however, flooding has continued for so long that people in your zone are being affected by the flooding in the larger community. Your zone is still in the best position to coordinate the response to the Community Challenge.



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Emergency Update #1: Community Challenge Communication Outage

The local cell tower is hit by lightning and most of the town loses the ability to use phones and internet. How do you organize communications and continue evacuation

and support efforts? Things to consider in addressing this challenge:

Task a: Two-way radios will help reach some members of the community

Task b: Volunteer team who could go door-to-door

Task c: Do you have access to an automated alert/notice system that you could use that would spread information across many channels?

Task d: When you reach people, what do you want them to know? Get the help of an emergency coordinator to develop a list of critical information.

Task e: Can public transportation be used to bring teams of emergency personnel to assist volunteers with people needing help as they are getting them information?



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Emergency Update #2: Community Challenge Road Failure

The major highway for people to evacuate out and for supplies to come in has washed out. What alternate routes could be used and how will you direct people and

supplies to use them? Things to consider in addressing this challenge:

Task a: Are there alternate evacuation routes that could be used?

Task b: Are there 4x4 vehicles or a helicopter available to move supplies off road?

Task c: Are roadwork crews available to help repair the road?

Task d: Are police officers available to help direct traffic away from the washed-out road?

Task e: Could you use sandbags to prop up vulnerable parts of the roadway or could volunteer teams secure the area around the road?

BONUS CHALLENGE (1 point each): Stranded student group. A group of students on a field trip get stranded on an unpaved road. The group has no shelter but enough food rations for one day as well as a two-way radio.

- Regular vehicles (like the vans that the group used to get to the field station) cannot cross the washed-out road. Are there 4x4 vehicles available that aren't being used to address the road failure?
- Due to the rain and lack of shelter, a medic team should be sent in, or if you have a two-way radio, you can help give them instructions about staying safe until help arrives.



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Emergency Update #3: Community Challenge Evacuation of Vulnerable People

An apartment complex with frail, elderly people is located adjacent to the river is in immediate danger of flooding. This apartment complex has many people who are unable to evacuate on their own. Things to consider in addressing this challenge:

Task a: Is an emergency shelter available to move people to?

Task b: Is public transportation available to move people to the evacuation location?

Task c: Many of these people will have medications that have to be organized and stored securely for evacuation. Is a medic team available?

Task d: People may have pets that also require evacuation; they will need pet carriers and food.

Task e: People may be reluctant to leave their apartments, even if a flood is imminent. Does someone in the community have caregiving skills that would help them?