

North Area Version Revised February 2021 Special Issue

Fukuyama City Flood Hazard Map

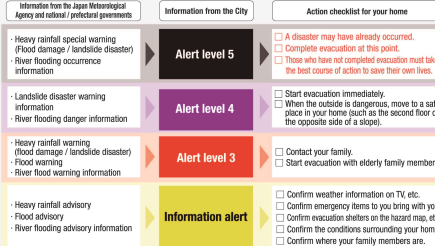
For inquiries about the map
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This hazard map summarizes "areas where flooding and landslide disasters are likely to occur" in the event of a typhoon or heavy rainfall and "information on evacuation." Confirm conditions surrounding your home, etc., in advance and evacuate promptly if danger is imminent.

Notes about the map
 • The map has been prepared based on flood forecasts that assume the largest possible scale of heavy rainfall.
 • In the case of the Ashida River, the total amount of rainfall over a 24-hour period: 572 mm
 • Depending on how and where rainfall occurs, the predicted flood-prone areas, landslide disaster warning areas, etc., indicated on the map may differ from the actual conditions.

My Timeline

Please refer to the following diagram to confirm when and what kind of action you should take in case there is a danger of a typhoon or heavy rainfall.



Record your evacuation destination and family contact information.

Evacuation destination	How do you evacuate?	By car <input type="checkbox"/> By other <input type="checkbox"/>
Family contact information	People with whom you evacuate	People to whom you call out when evacuating

Confirm Information and Communicate Safety Messages

Confirm disaster prevention information

Fukuyama City Mail Distribution Service
 Disaster prevention information such as evacuation information registered required will be distributed according to the areas which you register.
 To register for distribution, send a blank e-mail to the address on the right or register from the QR code.
t-fukuyama@sg-m.jp

Fukuyama City Official LINE
 This is the official LINE of the City.
 The City distributes disaster prevention information, event information, etc.

Fukuyama City Official Twitter
 This is the official Twitter of the City.
 The City distributes disaster prevention information, emergency information, etc.
 Account name: @cityof_fukuyama

Fukuyama City Website - Disaster Prevention Information Link-
 The Fukuyama City Website contains various disaster prevention information and emergency information, as well as a list of disaster prevention information links from Hiroshima Prefecture, Japan Meteorological Agency, etc.
<http://www.city.fukuyama.hiroshima.jp/site/bosai/176084.html>

Main Links

- Hiroshima Prefecture Disaster Prevention Web: River water level gauges, landslide disaster danger information, etc.
- Japan Meteorological Agency: Future precipitation (short-term precipitation forecast), typhoon information, weather warning, movement of rain clouds (high-resolution precipitation forecast)
- Ministry of Land, Infrastructure, Transport and Tourism: Ashida River live camera image

Evacuation shelter congestion status information distribution service
 Access the dedicated website from the QR code below to confirm the "open status" and "congestion status" of the evacuation shelters.

TV / radio broadcast (L-Alert)
 Disaster prevention information such as evacuation information will be disseminated promptly through various media such as TV and radio.

Disaster Information Telephone Reporting Service
 For the registration method, please contact the Crisis Management and Disaster Prevention Section.
 If you do not have a cell phone, evacuation information will be sent to your home landline phone by voice guidance.

Provide personal safety and emergency information.

Contact information for municipal offices (City hall / branch offices)

Emergency phone numbers

Disaster message dial (171)

When recording... Record your name and specific location.

Concept of Evacuation Action

Start! Check the hazard map (back side)!

The hazard map (back side) shows the areas where there is a danger of flooding and landslide disasters.
 • Confirm what kind of disaster may occur near your home.

Confirm Is your home or the surrounding area in a danger area?

Landslide Disaster Danger Area
 Legend on the map:
 • Landslide disaster special warning area
 • Landslide disaster warning area
 • Areas where slopes may collapse or mudflows may occur

Flood Danger Area
 Legend on the map:
 • Flood predicted areas
 • Areas where there is a danger of inundation due to flooding

Depth of flooding around your home: Height of your home

5.0 m or more (The 1st floor is inundated) → 3rd floor and above
 3.0 m or more and less than 5.0 m (The 2nd floor is inundated) → 2nd floor
 0.5 m or more and less than 3.0 m (The 1st floor is inundated) → 1st floor
 Less than 0.5 m (The space above the floor is inundated) → NO

Action Ensure your safety within your home

- Refrain from any nonessential and non-urgent outings.
- Pay attention to weather and evacuation information until the danger recedes.
- If you live on an upper floor of an apartment building, there is a danger of a power outage, so confirm the installation points of electrical equipment, etc., in advance.
- Be prepared with sufficient stockpiles in case you are unable to go out due to flooding. (Minimum of 3 days)

Caution Damage may also occur outside the danger area indicated on the hazard map (back side).

If you fail to evacuate in time...

In the following cases, it is more dangerous to evacuate horizontally. Move to the upper floor of your home instead of going outdoors. (Vertical evacuation).
 • In the case where the area around your home is already inundated, or it is dangerous to go outdoors due to heavy rainfall.

Consider Where to Evacuate

Evacuation destination

Evacuation shelter
 • Place to evacuate to in order to protect your own life from danger of an imminent disaster
 • Indicated on the map (back side)
 • The map indicates evacuation shelters open in the event of flooding or landslide disasters.
 • Not all evacuation shelters will be open, so make sure to confirm the open status when evacuating. (See P.2.)

Suitable place for evacuation such as high ground
 • Indicated on the map (back side)
 • As a "guide for evacuation destinations," the map indicates certain areas where there is no danger of flooding such as high ground when evacuating by car, etc. (Private land, etc., excluded)
 • Evacuate to a safe place such as high ground as soon as possible before the evacuation route, etc., is inundated.
 • Relative's or acquaintance's home, etc.
 • When evacuating, check the map (back side) to see if there is a danger of flooding or landslide disasters.
 • Evacuation destinations are not limited to evacuation shelters established by the City. Consider in advance where to evacuate.

Dispersed evacuation

Suitable place for evacuation such as high ground
 Occurrence of landslide disaster
 Landslide disaster warning area, etc.
 Relative's or acquaintance's home, etc.
 Flood predicted area, etc.
 Evacuation shelter

Moving to a safe place outside a danger area
 Moving to an upper floor of your home, etc. (Vertical evacuation)

Consider the means of transportation when evacuating

Precautions when evacuating

When evacuating by car
 • Cars will also be flooded in a flood predicted area. Consider evacuating to "a suitable place for evacuation such as high ground," etc., as soon as possible.

When evacuating on foot
 • Wear sneakers when you evacuate because water will enter boots.
 • For the evacuation route, choose a road in a high place.
 • Be careful of irrigation canals and manholes.
 • If the water is deeper than your knees, it will be difficult to walk.

Consider when to evacuate

My Timeline means organized actions that each inhabitant should take when evacuation information is announced according to the family structure and danger conditions in the surrounding area.
 Fill in My Timeline on P.1 while confirming the flow of the evacuation action, and confirm it with the whole family in advance.

Decide in advance when and what kind of action you should take so that you can remain calm and protect yourself in case of an emergency!

Damage due to Heavy Rainfall Disaster

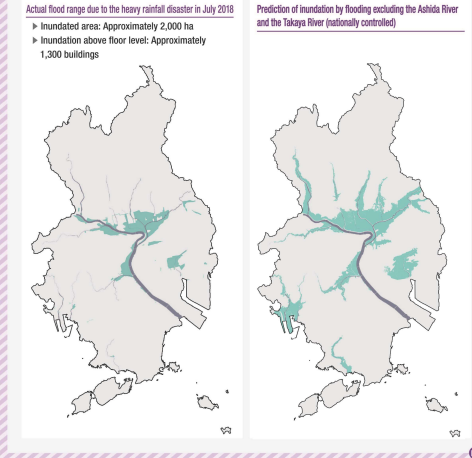
Prediction of inundation by flooding (excluding the Ashida River, etc.)

In July 2018, heavy rainfall of up to 238 mm per 24 hours fell in the City, causing flood damage in an area of about 20 km². (Figure at left)

Looking at the figure on the right which shows the area where flooding by rivers excluding the Ashida River and the Takaya River (nationally managed) was predicted, you will see that the situation was similar to the heavy rainfall in July 2018, when the water level of the Ashida River exceeded the planned high-water level, indicating that evacuation itself was difficult even before the Ashida River broke its embankment.

Evacuation during heavy rainfall in July 2018

Of the 18 rivers in the City where water levels were announced, 2 rivers broke their banks and 9 rivers overflowed.



Prepare for Evacuation

Items useful to carry on a daily basis

- Flashlight
- Cellular Phone / Smartphone
- Spare battery
- Mobile radio
- iD card

Convenient in the event of a sudden power failure.
 An effective tool for emergency contact. Convenient also for collecting information.
 Necessary to use a cell phone or mobile radio for a long time.
 Useful for collecting information in the event of a power outage. A smartphone can also be used.
 Effective when receiving medical treatment and evacuation support. Basic your contact information as well.

Checklist of emergency items to bring with you

- Prepare necessary items for an emergency, considering the family structure.
- Prepare a bag whose size is appropriate for your body, and make its weight light enough for you to carry on your back.
- Pack items in each family member's own backpack in case you are separated.

Classification	Items
Food *For 2 days as a guide (preferably 1 week)	<input type="checkbox"/> Drinking water <input type="checkbox"/> Dry bread <input type="checkbox"/> Canned food <input type="checkbox"/> Pre-packaged food <input type="checkbox"/> Dietary supplement <input type="checkbox"/> Candy and chocolate <input type="checkbox"/> Baby food <input type="checkbox"/> Powdered milk <input type="checkbox"/> ()
Daily essentials	<input type="checkbox"/> Blanket <input type="checkbox"/> Towel <input type="checkbox"/> Plastic wrap <input type="checkbox"/> Tissues <input type="checkbox"/> Plastic bag <input type="checkbox"/> Matches / candle / lighter <input type="checkbox"/> Packing tape <input type="checkbox"/> Writing tools, notepad <input type="checkbox"/> Can opener <input type="checkbox"/> Battery charger <input type="checkbox"/> Spare battery <input type="checkbox"/> Sanitary goods <input type="checkbox"/> Paper diapers <input type="checkbox"/> All-purpose knife <input type="checkbox"/> Dentures <input type="checkbox"/> Glasses / reading glasses <input type="checkbox"/> Portable toilet <input type="checkbox"/> Toilet paper <input type="checkbox"/> Newspapers <input type="checkbox"/> Cell phone / smartphone <input type="checkbox"/> Spare battery / mobile battery
Medical and hygiene	<input type="checkbox"/> Household medicine <input type="checkbox"/> Bandages <input type="checkbox"/> Quats <input type="checkbox"/> Band-Aids <input type="checkbox"/> Prescription notebook <input type="checkbox"/> Prescription medicine (Name:) ()
Infectious disease control products	<input type="checkbox"/> Masks <input type="checkbox"/> Thermometer <input type="checkbox"/> Hand wipes <input type="checkbox"/> Alcohol hand sanitizer <input type="checkbox"/> () () () () () ()
Valuables	<input type="checkbox"/> Cash (Don't forget small change) <input type="checkbox"/> Passbook <input type="checkbox"/> Health insurance card <input type="checkbox"/> Seal <input type="checkbox"/> Identification card <input type="checkbox"/> () () () () () ()
Clothing	<input type="checkbox"/> Underwear <input type="checkbox"/> Socks <input type="checkbox"/> Work gloves <input type="checkbox"/> Jacket with long sleeves <input type="checkbox"/> Long pants <input type="checkbox"/> Outfit for cold weather <input type="checkbox"/> Raincoat / rain gear <input type="checkbox"/> () () () () () ()
Evacuation / rescue equipment	<input type="checkbox"/> Flashlight <input type="checkbox"/> Mobile radio <input type="checkbox"/> Helmet <input type="checkbox"/> Protective hood <input type="checkbox"/> Rope <input type="checkbox"/> () () () () () () () () () ()
Pet care products * If you have a pet.	<input type="checkbox"/> Cage <input type="checkbox"/> Leash <input type="checkbox"/> Pet sheets <input type="checkbox"/> Food / Water <input type="checkbox"/> () () () () () ()

* Please fill in what your family needs in parentheses.