

# Inland Water Hazard Map

Hiratsuka City's Inland Water Hazard Map shows the areas where inundation is expected and inundation depth during the expected maximum rainfall. This map has been created so that citizens can prepare in advance, such as by checking evacuation routes, measures, and regular preparations. The maximum expected rainfall in the Inland Water Hazard Map is 153 mm per hour. This is the maximum amount of rainfall in the Kanto region as indicated by the government. **(The maximum recorded rainfall in Hiratsuka City's history was 70.5 mm per hour during Typhoon No. 18 which happened in October 2014.)**

Note that regions other than the expected areas may be inundated and the flood depth may vary depending on the situation.

**Assumed Condition** When the region is receiving the maximum expected rainfall (153 mm per hour) and the water level of rivers has reached the embankments

## Be Aware of Flood Risk and Think About Evacuation Behavior!

### Flood Risk to Your Home

Expected inundation areas	<input type="checkbox"/> Inside the expected inundation area <input type="checkbox"/> Outside the expected inundation area
Flood depth	<input type="checkbox"/> 0.01 m to less than 0.3 m <input type="checkbox"/> 0.3 m to less than 0.5 m <input type="checkbox"/> 0.5 m to less than 1.0 m <input type="checkbox"/> 1.0 m to less than 3.0 m <input type="checkbox"/> 3.0 m to less than 5.0 m <input type="checkbox"/> 5.0 m to less than 10.0 m

### Evacuation Method

Evacuate to the Emergency Evacuation Sites     Secure Indoor Safety    Evacuate to \_\_\_ floor

### Evacuation sites

Emergency evacuation sites	Name: _____ Time required from your home: _____
Note	

Contact information Sewer Maintenance Division, Civil Engineering Department, Hiratsuka City TEL : 0463-21-8787

## Disaster Prevention Notes for My House

Share your contact information and emergency contact details such as your office and school details so that you can act properly without panicking, even when your family is at another location.

### Family's Contact Information

Name of family member	Contact details of company/school	Mobile number	Email address	Blood type

### Emergency Contact Information

Name	Point of contact	Email address	Remarks

## Disaster Emergency Message Dial "171" / Disaster Message Board "Web 171"

When there is increase phone calls or when telephone lines are difficult to connect to the disaster affected area, NTT will provide a message board to confirm the safety of people in the affected areas via telephone and Internet.

### How to Post a Message

**Dial 171**

(No PIN) **1** (With PIN) **3**

Telephone (Area code) + Phone number

Record your message

Access **web171.jp**

Enter your telephone number

Post button

Post your name/safety situation/message

### How to Read Messages

**Dial 171**

(No PIN) **2** (With PIN) **4**

Telephone (Area code) + Phone number

Message playback

Access **web171.jp**

Enter your telephone number

Read button

Read message details

### "171/Web 171" Trial Dates

- 1st and 15th of each month
- January 1 to 3
- August 30 to September 5 (Disaster Preparedness Week)\*
- January 15 to 21 (Disaster Prevention and Volunteer Week)\*\*

\*9:00 to 17:00

### Disaster Message Board

During a disaster, every mobile operator will immediately set up the "Disaster Message Board." You can register and check safety information from your mobile or smartphone.

## How to Use the Hazard Maps

Use the Inland Water Hazard Map and Flood Hazard Map depending on how the rain is falling.

- 1. Normally**  
Rivers and waterways are not only for carrying water but are also indispensable for nurturing rich cities and creatures.  
**Habitually check the Inland Water/Flood Hazard Map!**
- 2. When it Starts to Rain**  
The water level of rivers and waterways gradually starts to rise. Small waterways may flood.  
**When it starts to rain, first check the Inland Water Hazard Map! Check the Flood Hazard Map if the water level of rivers is expected to rise because of continued heavy rain!**
- 3. If Heavy Rains Continue**  
The water level of rivers will rise and the waterways will be poorly drained, which may cause inundation in low-lying areas (floods caused by inland water). If the flow rate exceeds the capacity of the drainage pump stations, the level of risk for inundation will increase further.
- 4. If it Continues to Rain Heavily**  
Rivers and waterways may flood and cause large inundations (floods from rivers) such as those caused by burst river embankments.  
**Check the "Flood Hazard Map" when there is a risk of the rivers flooding!**

Hiratsuka City provides flooding, landslide, storm surge, tsunami, and reservoir hazard map. Check these as well.

## Disasters Expected During Heavy Rain

- Heavy rains cause the gutters along the roads to be clogged with debris that prevents proper drainage and causes water to pool on roads.**
- Rainwater collects in low-lying areas such as underground passages below expressways and railways.**
- Heavy rains cause the water level of rivers to rise, which in turn clogs the waterways and leads to inundation.**
- The water level of the river rises, and the water goes over the embankment or bursts through it causing inundation.**

## Evacuation Measures During Heavy Rain

Storm and flood damage is disaster that can be predicted to some extent. Check what actions you should taking beforehand according to the disaster situation.

### Collect Information

- Collect accurate information from the internet, television, radio, and other sources.
- Check the evacuation sites and evacuation routes on the hazard map.

### Prepare to Evacuate

- Check your surroundings and decide whether it is safe to evacuate or remain indoors.
- Close the stopcock of your gas stove and turn off the electric breaker.
- Check that the entrance, balcony and other doors are locked.

### Evacuation Method Depending on the Situation

#### Evacuate to the Emergency Evacuation Sites

- Wear comfortable clothes that allow easy movement and evacuate in groups of two or more if possible.
- Watch your step and be cautious of drainage gutters, manholes, etc.
- Do not go near dangerous places like rivers and cliffs.
- Help the elderly, pregnant women, children, persons with disabilities, and others who might need assistance during evacuation activities.

#### Secure Indoor Safety

If there is no danger of the building collapsing and the surrounding area is inundated, it may be safer to evacuate to the second or higher floor of your building or a nearby building.

### Living in Evacuation Shelters

- Use the Disaster Emergency Message Dial (171) and Disaster Message Board (web 171) to check your family's safety.
- Take the countermeasures against infectious diseases into consideration when evacuating.
- Help with emergency measures such as distributing supplies as far as possible.

## Evacuation information and alert level announced during heavy rains

Various organizations will announce evacuation information during heavy rains. Protect yourself from danger by understanding the announced information properly and combining it with the actions to be taken by everyone.

Alert level	Evacuation information	Actions to be taken by everyone
<b>Alert level 5</b>	[Announced by Hiratsuka City] <b>Emergency safety measures</b> [Issued by the Japan Meteorological Agency (JMA)] Heavy Rain Emergency Warning/Information on flooding	<b>Due to the dangerous situation of life, ensure safety immediately!</b> A situation where a disaster has already occurred <b>Do your best to save your life!</b>
<b>Alert level 4</b>	[Announced by Hiratsuka City] <b>Evacuation instruction</b> [Issued by the Japan Meteorological Agency (JMA)] Landslide Alert Information/Storm Surge Emergency Warning/Storm Surge Warning/Information on potential flood hazards	<b>Be sure to evacuate by alert level 4 [Evacuation instruction]</b> Evacuate to a safe place quickly! If you think the move is dangerous, evacuate to a safe place nearby or a safer place in your home!
<b>Alert level 3</b>	[Announced by Hiratsuka City] <b>Evacuation of the elderly, etc</b> [Issued by the Japan Meteorological Agency (JMA)] Heavy Rain Warning/Flood Warning/Storm Surge Advisory that is likely to switch to storm surge warning/Information to provide a warning on flooding	Evacuate the elderly, persons with disabilities, infants, pregnant women and other such people who need time to evacuate with their helpers! Other people, prepare to evacuate!
<b>Alert level 2</b>	[Issued by the Japan Meteorological Agency (JMA)] Heavy Rain Advisory/Flood Advisory/Storm Surge Advisory	Check your own evacuation behavior!
<b>Alert level 1</b>	[Issued by the Japan Meteorological Agency (JMA)] Early Warning Information	Prepare your mind for a disaster!

When you don't know whether the amount of rainfall is alarming, check "Kikikuru" on the Japan Meteorological Agency's (JMA) website.

Kikikuru is information that allows you to check the disaster risk caused by rain on a map in real time. The disaster risk due to rain is updated every 10 minutes.

The risk level is divided and shown in five colors

- Extreme risk (Dark purple) ... [Alert level 5]
- High risk (Light purple) ... [Alert level 4]
- Warning (Red) ... [Alert level 3]
- Caution ... [Alert level 2]
- Check weather bulletin

## Rainfall intensity

Amount of rainfall in one hour	10-20mm	20-30mm	30-50mm	50-80mm	80mm以上
Rainfall intensity	Slightly heavy	Heavy	Severe	Extremely severe	Violent
Impact on people	Rains heavily. The rain splashes on the ground and gets your feet wet.	There is a downpour and there are puddles all over the ground.	Rain pours down as if a bucket has been tipped over and you will get wet even if you use an umbrella.	Rain pours down thunderously like a waterfall, and using an umbrella is useless.	You get an oppressive feeling that makes you suffocate. You also feel terrified.
Situation outside	There are puddles all over the ground.	Roads become flooded.	When driving at high speeds, a film of water is formed between the side of the tire and the road surface, because of which the brakes do not work (hydroplaning phenomenon).	The splashing rain makes the surrounding area look hazy, and the visibility gets worse.	Driving a car is dangerous.
If you are in your car	It is hard to see even if the wipers are running fast.				

\*\*It is helpful if you choose your 4-digit PIN number beforehand.

## Measures against inundation that can be implemented in offices and homes

You can place sandbags or water stoppers near openings such as doorways and entrances and install water bags to drainage ports in offices and homes to reduce damage caused by inundation.

- Sand (Water) Bags/Water Stoppers**  
Prevent inundation by placing sandbags or water stoppers at doorways.
- Prevent Drainage Backflow**  
Water flowing back from the drains in baths and toilets may overflow. You can prevent this by plugging the drains with water bags.
- Clean the Rainwater Inlet**  
Clean the inlets regularly so that they are not clogged with fallen leaves and garbage.

※You can substitute this by covering a picnic blanket in plastic.    ※See the city's website for more details.

## City's Initiatives Against Floods from Inland Waters

Because of increased urbanization and severe local rain, the effects of rainwater outflow that exceeds the sewer drainage capabilities and rising river water have caused inundation damage due to poor drainage. Hiratsuka City has drawn up plans for inundation and is promoting measures to reduce and eliminate damage.

### Hiratsuka City's Master Plan for Measures Against Inundation

- Select the districts for focused implementation of measures and maintain pipelines, gates, and other infrastructure.
- Work on comprehensive inundation measures considering public assistance and the citizen's self-reliance.

#### System to Subsidize the Cost of Purchasing Rainwater Storage Tanks (Rainwater Tanks)

This system subsidizes the cost of buying rainwater storage tanks. Rainwater flowing from the roof is collected in these tanks, and this water can be used for watering plants in your garden, cleaning, and for emergency use. It also contributes to conserving the environment and reducing inundation damage. See the city's website for more details.

#### Sandbag Stations

There are sandbag stations in the city. These stations are open 24 hours a day, so the citizens are welcome to use them. Check the city's website for their location.

## Regular Preparation

You will be secure if you place your emergency supplies in a rucksack that allows you to use both your hands and place the sack near your bedside or in a place that is easily accessible. For primary emergency supplies, prepare those items that are "indispensable" to you, not those that "make your life convenient." If you have properly prepared your supplies, they will be useful even during vertical (elevated) evacuation.

### Items You Should Always Carry

Items that can be used for minimal activities even if the disaster strikes while you are away from home

- Mobile phone (Smartphones)    Mobile phone (Smartphones) battery    Cash    Driver's license
- Notepads and pens    Drinking water    Portable food    Whistle (Used when asking for help)

### Primary Emergency Supplies

Items to be taken out as a top priority in the event of a disaster

#### Drinking Water and Food

- Drinking water (About one liter per person for emergencies)    Food (Canned food, biscuits, chocolate, etc.)

#### Daily necessities and hygiene products

- Lighter, matches    Thermal blanket    Writing implements    Plastic bags    Raincoat    Towels
- Clothing, underwear    Oral care products that do not require toiletries or water    Portable toilet
- Tissue paper, toilet paper    Disposable heat packs    Body sheet to wipe body

#### Infectious Disease Control Products

- Masks    Hand sanitizer    Soap (hand soap)    Wet wipes    Clinical thermometer

#### Emergency Medical Supplies

- Adhesive plaster    Gauze    Bandage    Disinfectant    Household medicine (painkillers, gastrointestinal medicine, etc.)    Medication record

#### Evacuation Supplies

- Flashlight    Helmet, cotton work gloves    Slippers    Stick (for probing in flooded)    Dry cell batteries    Air mattress

#### Valuables

- Health Insurance card    ID card    Passport    Deposit passbook    Inkan (personal seal)

### Secondary Emergency Supplies

Items to be retrieved from your home in case your stay at the evacuation shelter is extended

#### Drinking Water and Food

- Drinking water (Approximately 3 liters per day per person for one week)    Food (Approximately one week's worth including allergy-friendly food)

#### Daily Necessities

- Plates, cups, chopsticks, kettle, pan    Food wrap (Use it to cover tableware to keep it clean)    Dry shampoo
- Water bags for emergency    Sleeping bag    Portable stove    Gas cylinder for portable stove (One for two days)
- Solid fuel    Portable toilet    Flame resistant polythene bags (for cooking packed items)

#### Clothing: Arrange for the necessary garments according to your family's (especially children's) growth and season.

- Underwear, socks    Long-sleeves, full-length pants    Winter clothes    Blankets    Towels, bath towels

#### Tools

- Saw, crowbar    Cutting pliers    Rope    Newspapers, cardboard for packing    Safety pins

(Make sure you have individual supplies according to your family structure and situation)

<b>Women</b> <input type="checkbox"/> Sanitary products <input type="checkbox"/> Personal alarm <input type="checkbox"/> Cosmetics	<b>Infants</b> <input type="checkbox"/> Baby bottles    Diapers    Baby formula <input type="checkbox"/> Liquid formula    Snacks    Baby wipes <input type="checkbox"/> Maternity health record book    Toys (small) and picture books	<b>Pets</b> <input type="checkbox"/> Pet food    Cage <input type="checkbox"/> Leash    Identification tag <input type="checkbox"/> Toiletries    Grooming supplies <input type="checkbox"/> Household medicines <b>For Those Who Own Dogs</b> <input type="checkbox"/> License permit <input type="checkbox"/> Rabies immunization tag
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## How to Get Information

Various information will be broadcast over the Internet, television, radio, and other sources. Take proper evacuation measures by proactively obtaining accurate information.

- Hiratsuka City Website**  
Hiratsuka City, Disaster Management Division Search
- Hiratsuka Disaster Prevention and Weather Website**  
Hiratsuka Disaster Prevention and Weather Website Search
- Hotmail Hiratsuka**  
Hotmail Hiratsuka Search
- Twitter (Hiratsuka City Mayor's Office, Crisis Management Department, Disaster Management Division)**  
Twitter: Disaster Prevention Hiratsuka Search
- Hiratsuka Wakuwaku Map**  
Hiratsuka Wakuwaku Map Search
- Radio/Television Broadcast**  
The city will provide textual information, disaster prevention, and emergency broadcasts during disasters through FM Shonan Napasa (78.3 MHz), Shonan Cable Network (SCN), and other channels. Additionally, the city will provide evacuation information, information about the establishment of evacuation shelters, and other details by broadcasting data on television or over the Internet using the "Disaster information sharing system (I.Alert)."
- Emergency Broadcast System**  
Information such as details about the evacuation will be notified on speakers installed outdoors.
- Telephone Guide** (Charges Applicable)  
You can check the content broadcast on the emergency broadcast system only within an hour. **0180-99-4956 / 0463-22-4956**
- Information Issued by the State or Prefecture**  
Japan Meteorological Agency (JMA) Search  
Kanagawa Prefecture Disaster Information Portal Search  
Kanagawa Prefecture-Precipitation Amount and Water Level Information Search