

Preparing for a flood

Typhoon

A typhoon is a tropical cyclone generated in the northwestern Pacific Ocean or South China Sea that has a maximum wind speed (average of 10 minutes) in the low pressure area of at least 17 m/s. The scale is determined by the radius of the area of 30 kt winds or more (the area where wind is blowing at a wind speed of 15 m/s or more, or the area where such winds potentially blow if there is no influence of topography), and the intensity is shown as the "maximum wind speed."

(Typhoon scale and class category)

Class	Radius of area with wind speeds of 15 m/s or more
Large	500km - 800km
Very Large	Over 800km

(by the Japan Meteorological Agency (JMA))

(Typhoon intensity and class category)

Class	Maximum wind speed
Strong	33m/s - 44m/s
Very Strong	44m/s - 54m/s
Violent	Over 54m/s

(by the Japan Meteorological Agency (JMA))

Torrential rain

Torrential rain is a phenomenon in which a huge amount of rain falls on a small area. Damage from the flooding of medium and small sized rivers and landslides is predicted.

(Rainfall intensity and types of rain)

Hourly precipitation amount(mm)	Type of rain
10 - 20	Heavy rain. It is difficult to hear voices due to the sound of rain.
20 - 30	Downpour. You get wet even with an umbrella. Ditches, sewerage, and small rivers overflow.
30 - 50	Rain buckets. Roads and streets essentially become rivers.
50 - 80	Rain falling in torrents. Umbrellas become totally useless. It is dangerous to drive a car.
Over 80	Rain causing feelings of stifling pressure and fear. There is a strong possibility that a large-scale disaster may occur due to rain, and severe caution is required.

(by the Japan Meteorological Agency (JMA))

Urban floods

Urban floods are floods covering paved urban areas. These floods occur when heavy rains fall beyond the capacity of rivers or sewer systems, the water gathers in low-lying areas and floods in a short period of time.

Advisory and warning announcement criteria

Advisory	Heavy Rain	Surface precipitation index*1	12
	Flood	Watershed precipitation index*2	22.1
	Gale	Average wind speed	13m/s
Warning	Heavy Rain	Surface precipitation index	18
	Flood	Watershed precipitation index	—
	Storm	Average wind speed	25m/s

*1 It is a digitization of how much rain has accumulated on the ground surface, taking into account the ground coverage, geology, and topography.

*2 Rainwater that has fallen to the upper reaches of the river flows into the river through the ground surface and the ground, and it quantifies the amount flowing down along the river.

Please see the JMA's website for details on each indicator.

(by the Japan Meteorological Agency (JMA))

Emergency warning announcement criteria

The Meteorological Agency will announce an "Emergency Warning" and call for maximum alertness when a heavy rain or tsunami that exceeds the warning announcement criteria is expected and the risk of a serious disaster is significantly increased.

Heavy Rain	When heavy rainfall with a level of intensity observed only once every few decades is predicted in association with a typhoon or similar, or when heavy rainfall that is predicted in association with a typhoon is expected to have a level of intensity observed only once every few decades or an extratropical cyclone with comparable intensity.
Storm	When storm wind is predicted in association with a typhoon that is expected to have a level of intensity observed only once every few decades or an extratropical cyclone with comparable intensity.

* Indicators of precipitation which corresponds to phenomena observed only once every few decades in the table are released on the website of JMA.

(by the Japan Meteorological Agency (JMA))

List of evacuation centers for flood and landslide disasters

* Be careful because some evacuation shelters are only available during earthquakes.

* Residents can evacuate to evacuation shelters (emergency evacuation shelters) outside of the city under the "agreement concerning mutual cooperation and mutual support for the special ward."

	Evacuation shelter	Address	Phone
1	Hayashicho Elem. Sch.	Sengoku 2-36-3	03-3946-0421
2	Aoyagi Elem. Sch.	Otsuka 5-40-18	03-3947-2471
3	Kohinata-daimachi Elem. Sch.	Kohinata 2-3-8	03-3947-2371
4	Yushima Elem. Sch.	Yushima2-28-14	03-3813-6061
5	Seishi Elem. Sch.	Nishikata 2-14-6	03-3811-7171
6	Daiichi J. H. Sch.	Koishikawa 5-8-9	03-3811-7271
7	Daisan J. H. Sch.	Kasuga 1-9-31	03-3814-2544
8	Dairoku J. H. Sch.	Mukogaoka 1-2-2	03-3814-6666
9	Bunrin J. H. Sch.	Sendagi 5-25-10	03-3827-7671
10	Meidai J. H. Sch.	Kasuga 2-9-5	03-3811-2969
11	Hongodai J. H. Sch.	Hongo 2-38-23	03-3811-2571
12	Otowa J. H. Sch.	Otsuka 1-9-24	03-3947-2771
13	Mejirodai Community Hall (Mejirodai General Community Center)	Mejirodai 3-18-7	03-5395-9141

* When it is difficult to go to the evacuation center over the Kanda River due to heavy rain, etc., each neighborhood association in Sekiguchi 1-chome district can evacuate to Shinjuku City Enokicho Regional Center, Shinjuku City Ushigome Daiichi Junior High School, and Shinjuku City Ushigome Daini Junior High School.

Vertical evacuation site

A vertical evacuation site serves as an emergency evacuation site when it is difficult to evacuate to a designated evacuation center or when you feel your safety is in danger due to the rain or inundation situation.

*Please check the city's official website for the list of vertical evacuation sites.

Contact information for emergencies

Name	Phone
Bunkyo City Office (representative)	0 3 - 3 8 1 2 - 7 1 1 1
In the case of incidents/accidents	1 1 0
Tomisaka Police Station	0 3 - 3 8 1 7 - 0 1 1 0
Otsuka Police Station	0 3 - 3 9 4 1 - 0 1 1 0
Motofuji Police Station	0 3 - 3 8 1 8 - 0 1 1 0
Komagome Police Station	0 3 - 3 9 4 4 - 0 1 1 0
In the case of fire/rescue/emergency medical assistance	1 1 9
Koishikawa Fire Station	0 3 - 3 8 1 2 - 0 1 1 9
Hongo Fire Station	0 3 - 3 8 1 5 - 0 1 1 9
NTT East (telephone failure)	From general subscribers' phone 1 1 3 From mobile phone 0 1 2 0 - 4 4 4 - 1 1 3
TEPCO Power Grid, Incorporated Tokyo Customer Center	0 1 2 0 - 9 9 5 - 0 0 6
Customer Center of TOKYO GAS Co., Ltd.	0 5 7 0 - 0 0 2 - 2 1 1 (0 3 - 3 3 4 4 - 9 1 0 0)
Bureau of Waterworks Tokyo Metropolitan Government, Bunkyo Office	0 3 - 5 8 4 0 - 8 0 2 1
The Bureau of Sewerage Tokyo Metropolitan Government's Northern Region Sewerage Office, Bunkyo Branch	0 3 - 5 9 7 6 - 2 5 1 6
Embassy	Fill in the phone number for the embassy of your country

Evacuation information and actions to be taken

Warning level	Evacuation and weather information from the city and the Japan Meteorological Agency	Action to be taken
Warning level 5	Emergency safety assurance *1	Danger to life. Secure safety immediately!
* Be sure to evacuate by alert level 4!		
Warning level 4	Evacuation order	Everyone must evacuate from dangerous places
Warning level 3	Evacuation of the elderly *2	Elderly people must evacuate from dangerous places
Warning level 2	Heavy rain, flood and storm surge advisories	Confirm your own evacuation behavior
Warning level 1	Early warning information	Improve attitudes towards disasters

*1 Alert level 5 is not always issued due to the fact that local governments cannot be sure of the status of a disaster.

*2 Alert level 3 is when people other than the elderly start to stop their usual actions as necessary, prepare for evacuation, and evacuate voluntarily when they feel danger.

Guidelines for evacuation

If there is an evacuation order from the city, evacuate to the designated evacuation center in case of flood and landslide disasters. If it is difficult to evacuate to an evacuation center, or if you feel your safety is in danger due to the rain or inundation situation, you should evacuate voluntarily to a nearby sturdy building with at least two stories or vertical shelter, or to a safer place in your home, such as a room away from a cliff or a room on the second floor.

Collect accurate information

Collect the latest weather information, evacuation information, and other information by TV, radio, internet, etc., and pay attention to the situation of rain and inundation.

Pay attention to evacuation announcements

When danger is approaching, we will call for evacuation through the disaster prevention administrative radio, emergency alert e-mail, SNS, etc., so please evacuate immediately.

Help the persons requiring assistance to evacuate

Those who require special care, such as the elderly and people with disabilities, need to evacuate early. Please cooperate in evacuation if you live in the neighborhood of a person requiring special care.

Avoid evacuating by car

Evacuation by car interferes with emergency vehicles. In addition, it causes traffic congestion, and a car will be immovable when it is inundated, so avoid it except in special cases.

Clothes that are easy to move in, evacuation in groups of at least two people

Wear clothes that are easy to move in (raincoat, sneakers, etc.), and carry a cane or stick to check the depth of the inundated area. In inundated areas, the approximate water level that can be walked in is below the knees. Also, talk with neighbors and evacuate in groups of at least two people.

Methods to get disaster and weather information

The amount of rainfall in the ward and the water level of the Kanda River are observed, and the latest rainfall, water level information, and weather information are provided by the following methods.

Website of the Bunkyo City Water Disaster Prevention and Surveillance System
(Kanda River water level information, etc.)



Bunkyo City's Disaster Prevention and Weather Information Dissemination Website



Japan Meteorological Agency's website



Tokyo Amesh
(The Bureau of Sewerage Tokyo Metropolitan Government : Rainfall radar)



Tokyo Metropolitan - Flood Control Integrated Information System (Idabashi)





Citizens

Bunkyo City's official website



Bunkyo City official X (formerly Twitter), Facebook, and LINE

We will provide disaster information on Bunkyo City official X (formerly Twitter), Facebook and LINE.
X (formerly Twitter) "@bunkyo_tokyo"
Facebook "@bunkyo.tokyo"

Bunkyo City Disaster Prevention Portal

Various kinds of information are available, including information related to evacuation, evacuation centers and damage status.



TV channel for Bunkyo citizens (CATV)

Disaster information is provided on the TV channel for Bunkyo citizens
*Available on channel 11 (for cable television subscribers)

L Alert

Disaster information is provided on the TV using NHK data broadcasting.
*Turn on to channel 1 and press the 0 button on the remote control.

NHK WORLD Website

News and other information are provided in English.

NHK Radio 2 (AM 693KHz)

News is routinely broadcasted in English.

"Fumi no Miyako" safety and disaster prevention e-mail

Disaster information in Bunkyo City is provided to registrants.

Yahoo! Disaster Alert

Disaster information is distributed through a smartphone application in collaboration with Yahoo Japan Corporation.

iPhone ver.  Android ver. 

Bunkyo City Disaster Prevention App

Use this app to check disaster-related information on your smartphone or tablet.

Click here for App Store (iPhone device)  Click here for Google Play (Android device) 

Early warning email (Area Mail)

Disaster information is distributed to relevant mobile phones in the city in collaboration with mobile telecommunications providers including NTT DCOMO, au, SoftBank, etc.

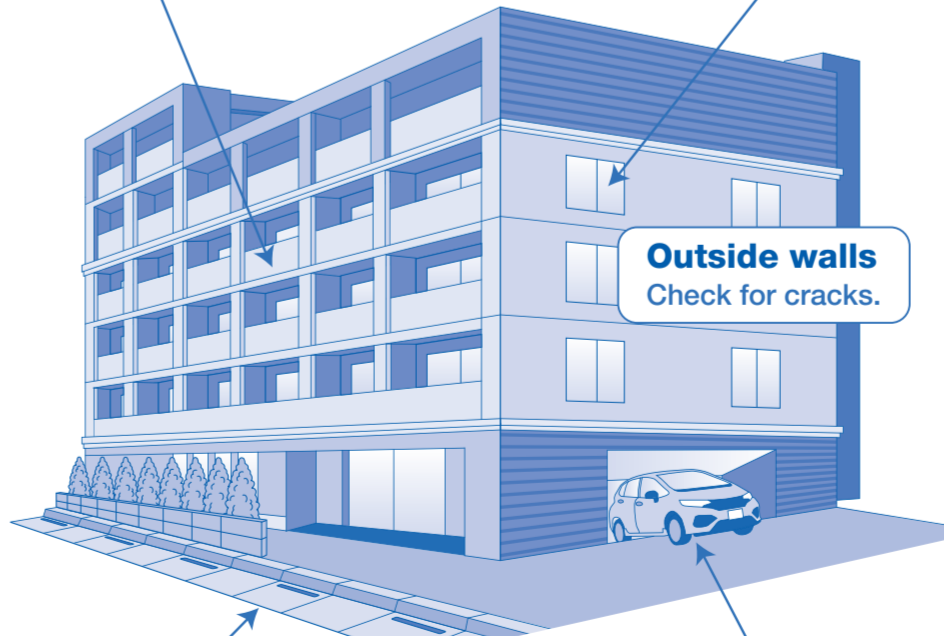
Daily measures against flood disaster

Check items around your house

You should not assume that you can predict the arrival of a typhoon or heavy rain. Stay alert and take sufficient measures even in normal times.

Balcony
Bring inside potted plants, clothes drying poles and other objects that are in danger of blowing away.

Window glass
Check for cracks, check that window frames fit solidly.



Outside walls
Check for cracks.

Ditches and street drain
Remove garbage, soil, sand, and fallen leaves, and do not place footboards, etc., so that rainwater can flow through.

Underground parking lot
Prepare sandbags and watertight barriers.

Daily preparedness

Securing safe evacuation routes

Determine the route to the evacuation center (evacuation route) in advance, and make sure that it is safe to pass.

Prepare emergency supplies to take with you

Prepare a radio, a flashlight, food and drinking water in advance and bring them when you evacuate.

Collect accurate information

Pay close attention to flood prevention and weather information on TV, radio, the Internet, and "Fumi no Miyako" safety and disaster prevention e-mails.

Be prepared for underground inundation

Routinely inspect pumps, and prepare sandbags and watertight barriers. Sandbags are available for rent for those who want to prepare them in advance. A sandbag place is established at each place in a city, so please feel free to use them in case of emergency.



Call Civil Engineering Department Road Division ☎03-5803-1250