

# さいたま市 内水ハザードマップ



Saitama City Inland Water Hazard Map 埼玉市内涝水害予測地図 サイタマ市 内水ハザードマップ

◆内水ハザードマップとは What is Inland Water Hazard Map? 何謂内涝水害予測地図 内水ハザードマップ  
この内水ハザードマップは、下水道の排水能力を超える大雨によって内水はん流が発生した場合に想定される浸水区域や浸水深等を、浸水シミュレーションにより示したものです。  
日頃の備えや避難の際に役立てていただくなど、市民の皆様への自助・共助の促進を目的として作成しました。  
このマップの地図画面は、想定される浸水深20cmから5m以上までを6段階で色分けし、25m×25mの正方形で表示しています。  
お住まいの地域の浸水深を確認し、安全に移動できるように避難ルートを確認してください。  
雨の降り方や土地の形状の状況などにより、浸水区域や浸水深が地図と異なる場合もあるため、複数の避難ルートを考えておきましょう。

This Inland Water Hazard Map shows the inundation area and depth of inundation that can be anticipated in the occurrence of inland water flooding caused by heavy rainfall that exceeds the drainage capacity of the sewerage system, based on inundation simulation.  
It was prepared with the aim of promoting self-help and mutual-help among citizens by helping them prepare for everyday needs and evacuation.  
On this map's surface, the assumed inundation depths from 20 cm to more than 5 m are color-coded in six levels and indicated by a 25 m x 25 m square.  
Please check the depth of inundation in your area and make sure you have a safe evacuation route to move to.  
Consider multiple evacuation routes, as the flooded area and depth of flooding may differ from the map due to rainfall and changes in the shape of the land.  
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◆Conditions under which the Inland Water Hazard Map was created  
This map was prepared based on a simulation of inundation assuming that the maximum possible rainfall (maximum 153 mm, total rainfall 248 mm) would fall on the entire city of Saitama and the water level in the river to be discharged would be high.  
The information reflected in the inundation simulation is made based on topographical information such as ground elevation (based on the Geographical Survey Institute's laser surveying 5m mesh (elevation) approved by the Director of the Geographical Survey Institute of Japan (Use) R 2-He 1206 based on the Survey Act) and reflecting major rivers and sewers in the city.  
Furthermore, the information on sewerage storage facilities, pump stations, drainage pump stations, gates, etc. is as of the end of 2020.

◆Cautions for using the Inland Water Hazard Map  
Assumed inundation areas and inundation depths may vary depending on the type of rainfall, the shape of the land, and the maintenance situation of rivers and sewers.  
Therefore, it does not mean that the areas indicated on this map always get flooded during heavy rains, but rather that even areas not expected to be inundated may be inundated depending on the situation, so please be very careful.  
\*This map does not take class A rivers overflow (flooding) into account, so please check the latest flood hazard map as well.  
\*As we do not take reports of inundation information from citizens into account, please check the "Information on Flooding in Saitama City" available at the Information Disclosure Corner in each ward for past inundation information.

◆このマップで得られる情報  
Information available in this map 通过此地图可获得的信息 此地图可获得的信息  
1. 浸水発生メカニズム 1. Mechanism of How Inundation Occurs  
2. 生命・財産を守る情報 2. Information to Protect Life and Property  
3. 気象の情報 3. Weather Information  
4. 関係機関の連絡先 4. Inquiries  
5. 避難時の注意点 5. Precautions When Evacuating  
6. 日頃からのことづけ 6. Daily Preparations  
7. 教えてヌウ先生! 7. Tell Me, Mr. Nu!

<https://www.city.saitama.jp/001/006/003/002/001/p078773.html>  
April, 2021

## 1. Mechanism of How Inundation Occurs

(1) Implementation level of Saitama City

Since Saitama City is located inland, rain water flows into class A rivers managed by the national and prefectural governments. However, the amount of rain water discharged is limited depending on the implementation conditions of the rivers to which the rain water is discharged.  
As a measure of inundation prevention, Saitama City has implemented rainwater pipes and storm water storage facilities to cope with rainfall of about 56 mm per hour in accordance with the implementation conditions of the rivers where the rain water is discharged.  
In addition, Saitama City has elevated its flood control measures for the rivers managed by the City to make floodwater safely flow down in rivers caused by rainfall of about 30 to 50 mm per hour.  
However, in recent years, heavy rainfall exceeding the implementation level has occurred frequently due to the effects of climate change, and increased rainwater runoff due to the advancement of urbanization have caused inundation damages in low-lying areas where rain water is easily collected.  
Therefore, Saitama City will continue to further inundation prevention measures focusing on the three areas of "urban flooding prevention measures," "comprehensive inundation prevention measures," and "the rainwater runoff control measures."

Mechanism of Inland Flooding (Source: Ministry of Land, Infrastructure, Transport and Tourism (MLIT) website)

When rainfall exceeds the drainage capacity of sewers, water overflows from sewers or the water which cannot enter sewers remains on the ground.  
Rain water is drained into rivers through sewers and such.  
In times of heavy rainfall, the water level in the rivers rises, making it difficult for the water to drain, causing sewers and waterways to overflow.

Mechanism of River Flooding (Source: Ministry of Land, Infrastructure, Transport and Tourism (MLIT) website)

Heavy rainfall causes the water in rivers to increase and the water level begins to rise.  
As the water increases to the full level of embankments, the pressure of the water starts to build up on the embankments.  
As the water increases, the embankments are no longer able to withstand the force of the water, and parts of the embankments begin to break down.  
The collapsed area will expand quickly, and the water will flow out vigorously, hitting houses and buildings.

Various inland flooding  
Inundation of low-lying areas  
Rise of river water level  
Sewer trunk line

## 2. Places Prone to Inland Flooding

Sewer trunk lines and waterways are prone to inland flooding because when the water level in rivers rises, sewers and waterways are unable to drain into the rivers.  
Low-lying areas are also prone to inland flooding because water tends to be easily collected from the surrounding areas.

## 2. Information to Protect Life and Property

(1) Evacuation information

Get information corresponding to each alert level ASAP and use it to make decisions on evacuation actions.  
Pay attention to the announcements of evacuation information and others from your municipal and judge whether to evacuate or not on your own, even if evacuation information have not been issued.  
It is important to evacuate at the alert level 3 or 4. It will be impossible to evacuate because a disaster has already occurred in a situation where the alert level is 5.  
If heavy rainfall continues, there is an increased risk of river flooding.

(2) Gathering information

Information is sent via both push notifications (notifications sent automatically) and pull notifications (notifications that one gets by themselves). Some push notifications are delivered automatically, while others can be delivered automatically by registering in advance. Pay close attention to weather and river related warnings, and evacuation information; and remain calm, judge and act promptly.

List of new alert levels\*

Alert Levels	Situations	Actions to be taken by citizens	Information to encourage actions
5	Occurrence or imminent threat of a disaster	Your life is in danger. Immediately ensure safety!	Emergency safety securement
Evacuate before the alert level reaches 4!			
4	There is high risk of occurrence of a disaster	Evacuate all people from dangerous areas	Evacuation instructions
3	There is a risk of occurrence of a disaster	Evacuate the elderly, etc. from dangerous areas	Evacuation of the elderly, etc.
2	Weather conditions worsen	Confirm your own evacuation behavior	Heavy rain/Flood / Storm surge advisory (Japan Meteorological Agency)
1	There is a risk of worsening weather conditions in the future	Increase preparedness for disasters	Early warning information (Japan Meteorological Agency)

\*Implemented from May 20, 2021

Email Notification

- Emergency Warning E-mail/ Area E-mail  
Users of cell phones (NTT Docomo, KDDI/Okinawa Cellular (au), Softbank, and Rakuten Mobile) in the distribution target municipalities can automatically receive the evacuation information delivered from the municipal governments.
- Saitama City Wireless Disaster Prevention System E-mail  
You can automatically receive the contents such as the emergency information broadcasted on the Wireless Disaster Prevention System, by registering in advance.  
URL <https://www.city.saitama.jp/001/011/015/004/002/p054192.html>
- Disaster Prevention Wireless Telephone Service  
The service delivers the evacuation information, etc. to landline phones and faxes for those who do not have cell phones or smartphones and have difficulty using email, etc.  
URL <https://www.city.saitama.jp/001/011/015/004/002/p071187.html>

Weather information  
You can get information on warnings.  
Weather information including the warnings from Saitama City  
<https://saitama-city.bosai.info/ui/dashboard>

River water level information  
You can get information on the water levels, live cameras, etc. of rivers and sewers.  
Ministry of Land, Infrastructure, Transport and Tourism (MLIT) - Information on River Disaster Prevention  
<https://www.river.go.jp/portal/#80>

Saitama City Water Level Information System  
<https://www.flood-info.city.saitama.jp/JP/index.html>

Disaster Prevention Information  
You can get hazard map and information on disaster preparedness.  
Crisis Management, Disaster Prevention and Weather Information of Saitama City  
<https://www.city.saitama.jp/bosai/index.html>

Flood Hazard Map of Saitama City  
<https://www.city.saitama.jp/001/011/015/002/003/p008311.html>

Yahoo Weather app.  
<https://weather.yahoo.co.jp/weather/promo/app/>

## 4. Inquiries

## 5. Precautions When Evacuating

## 6. Daily Preparations

## 3. Weather Information

(1) Warnings and alerts issued by the Japan Meteorological Agency

When issuing warnings and alerts, not only the amount of rainfall, but also the amount of rainfall in the upstream area and the time it takes to flow down from the upstream areas are considered. In addition, the warnings and alerts will be continued when there is a risk of a disaster due to the rain infiltrated in the ground.

[Types] [Period of announcements]

Heavy rain special warning	When typhoons or torrential rains are expected to cause heavy rains with precipitation once every several decades.
Heavy rain warning	When heavy rains could cause severe disasters.
Flood warning	When flooding could cause severe disasters.
Record short-time heavy rain information	Heavy rains for a short period of time, which only occurs once every few years, are observed or analyzed when a heavy rainfall warning is issued. *In the case of Saitama City, the amount of rainfall in one hour is 100 mm or more.
Heavy rain advisory	When heavy rains could cause disasters.
Flood advisory	When flooding could cause disasters.

\*For more information on the criteria applicable to heavy rainfall and flood warnings, and each rainfall index, please refer to the Japan Meteorological Agency website.

(2) Rainfall guide

We can roughly grasp the amount of rainfall by observing how the rain falls. By knowing the relationship between how the rain falls and the amount of rainfall can help us make decisions to evacuate before the condition becomes dangerous.

Rainfall Intensity (rainfall per hour)	Moderate - heavy (10-20mm)	Heavy (20-30mm)	Very heavy (30-50mm)	Extremely heavy (50-80mm)	Torrential (over 80mm)
Characteristics	Rain showers	Downpour	Coming down in buckets	Raining like a waterfall	Oppressive feeling such as breathing difficulties and feeling frightened.
Impact on people	Rain splashing off the ground wetting your feet.	Get wet even when using an umbrella.	Umbrellas have no effect in the rain.		
Conditions in the inside (of wooden houses)	Conversation can't be heard due to the sound of the rain.		Sleepless night due to the rain.		
Conditions in the outside	Puddles in the ground.	Streets are flooded like a river	Bad visibility due to the rain		
When in a car	Difficult to see even when wipers are on full speed.	Brake fails to work due to a layer of water building up between the tires and the road surface when driving at high speed.	Road conditions are too dangerous to drive.		

This is a guideline for actions to take during heavy rainfall. As the rainfall intensity, geographic features and land use affect the degree of risk in communities so it is important to pay close attention and surrounding situations; and remain calm, judge and act accordingly.

## (1) Contacts

Contact details

◆Prepare for Inundation

- Disaster Prevention Measures: Disaster Prevention Division, Department of Risk Management, General Affairs Bureau ☎ 048-829-1126
- Flood Hazard Map: Disaster Prevention Division, Department of Risk Management, General Affairs Bureau ☎ 048-829-1126

◆During an Inundation

- When your property or roads are inundated: Midori Ward Office ☎ 048-874-1111
- Information on situation of evacuation shelters: General Affairs Division, Department of Daily Life Affairs of Ward Residents, Midori Ward Office ☎ 048-712-1123
- Ambulance or Fire Department service required for urgent situations: Fire Bureau ☎ 119

◆After suffering from Inundation Damage

- Issuance of Disaster Victim Certificate: General Affairs Division, Department of Daily Life Affairs of Ward Residents, Midori Ward Office ☎ 048-712-1123
- Disinfection of flooded roads: Daily Life Support Office, Midori Ward ☎ 048-712-1137

Useful Contact Methods in times of a disaster

When a large-scale disaster such as a flood or an earthquake occurs, phone calls to the affected areas are concentrated and it becomes difficult to connect. If you are in such a situation, in order to perform confirmation of the safety of family members and acquaintances, or to make contact with evacuation sites smoothly, "the Disaster Message Dial service", which allows users to register messages in "voice form," and "the Disaster Message Board service", which allows users to register messages in "text form," are provided using fixed-line phones, cell phones, and the Internet.

Use of the "Disaster Message Dial 171"

This is a service provided by NTT that allows you to save and play back messages regarding the information such as the safety of your family members in times of a large-scale disaster.

Recording method  
Dial 171 To record a message 1  
Method of reproduction of recorded message  
Dial 171 To playback a message 2

Disaster Prevention Community Development Information Map

Saitama City uses the geographic information system (GIS "Saitama City Map Information") on its website ([https://www.sonicweb.esp.jp/saitama\\_g/](https://www.sonicweb.esp.jp/saitama_g/)), which provides the risk information, etc. on earthquake disasters such as well as the various disaster prevention maps such as the Flood Hazard Map of class A rivers. You can check the pinpoint and the familiar information on disaster risks by entering your home address.

(2) Disaster prevention memo for my family

My Family's Evacuation Site 1	Family Gathering Place			
	Contact information in times of a disaster			
Name	Blood type	Phone number	Company / school name	Company / school contact information
Family contact information				

Contact information regarding Saitama City Inland Water Hazard Map

- Sewer Planning Division, Sewer Department, Construction Bureau TEL 048-829-1566 FAX 048-829-1975
- River Division, Civil Engineering Department, Construction Bureau TEL 048-829-1585 FAX 048-829-1988
- Disaster Prevention Division, Department of Risk Management, General Affairs Bureau TEL 048-829-1126 FAX 048-829-1978

## (1) Advance preparations

Preparedness at buildings

- Clean the ditches and the rainwater basins.
- Avoid placing things such as car step slopes on top of ditches and basins.
- Pick up the things around your building in preparation for flooding.
- Board up glass windows without shutters from the outside in case flying objects enter.
- If there is a risk of flooding, move important household goods to the second floor or a higher, safer place.
- How to make a simple sandbag
- If the water depth is shallow, use household items such as garbage bags, leisure sheets/mats and planters as emergency measures.

(Using Garbage Bags)  
Double bag garbage bags, fill with water halfway (leftover bath water is convenient) and place them next to each other without any gaps or space. Putting the water-filled bags inside leak-proof cardboard boxes will increase the strength and makes them storable.

(Using Leisure Sheets)  
Line up filled planters in a row and wrap them in plastic leisure sheets to strengthen the barrier. You can also use water-filled plastic tanks or heavy beer cases instead of planters.

Advance preparations in the Family

- Store water for daily use. (Drinking water should be 3 liters per person per day.)
- Decide the route to the designated emergency evacuation site in advance, and make sure that it is safe to pass through.

## (2) Emergency items and stockpiles

In times of a large-scale disaster, it is said to take approximately three days for relief goods to reach the disaster area. For emergency items, select, at minimum, the basic supplies and store them in one place where you can take them out immediately. Also, prepare stockpiles to support you for several days when evacuating at home and emergency items separately until recovery from the disaster. In particular, buy a little more of food and drinking water than usual on a regular basis, and keep in mind the idea of "rolling stock" by repeating daily consumption and buying.

If there are any items particularly necessary corresponding to the family structure, such as the elderly and infants, add them to your emergency or stockpiling list.  
Regularly check the storage conditions and expiration dates of emergency items, and replace them with new ones as needed.

Water/Foods, Cash/Valuables, Daily necessities, Medical supplies, Sanitary supplies, Others

Checklist

Water/Foods	Cash/Valuables	Daily necessities	Medical supplies	Sanitary supplies	Others
<input type="checkbox"/> Drinking water <input type="checkbox"/> Emergency food (simple food such as hardtack, canned food, candy, chocolate, etc.) <input type="checkbox"/> Emergency bag	<input type="checkbox"/> Valuables (cash, securities, etc.) <input type="checkbox"/> Cash <input type="checkbox"/> Driver's license/Health insurance card <input type="checkbox"/> ID card	<input type="checkbox"/> Portable radio (spare batteries) <input type="checkbox"/> Flashlight (spare batteries and tubes) <input type="checkbox"/> Candles and lanterns <input type="checkbox"/> Lighter (match) <input type="checkbox"/> Knife, can opener, and bottle opener <input type="checkbox"/> Plastic bags <input type="checkbox"/> Gloves <input type="checkbox"/> Disposable body warmers	<input type="checkbox"/> First aid kit (band aids, antiseptic solution, nutritional supplements) <input type="checkbox"/> Plastic medicine (prescription record)	<input type="checkbox"/> Tissues (wet type also) <input type="checkbox"/> Towels <input type="checkbox"/> Sanitary items <input type="checkbox"/> Masks <input type="checkbox"/> Disinfectant	<input type="checkbox"/> Helmet and disaster hood <input type="checkbox"/> Clothes (top and under) <input type="checkbox"/> Blankets <input type="checkbox"/> Towel/tee <input type="checkbox"/> Sleeping bags

Emergency bag: Water (3 liters per day per person), Foodstuffs (canned food, instant food, seasonings, soup, etc.)

Stockpile: Fuel (tabletop stove, solid fuel, spare gas cylinders, etc.), Simple tabloids (canned food, spare parts, spare caps, etc.), Plastic wrap, aluminum foil, etc., Spare glasses, hearing aids, etc., Tools (rope, crowbar, shovel, etc.)

\*Other things you need to prepare for infection control: Toiletries, Wet wipes, Toilet paper, Simple toilet, Blankets, Towel/tee, Sleeping bags

## (3) Creating My Timeline

"My Timeline" is to make a "disaster prevention action plan" for each resident.  
When the water level of a river rises because of the approach of a typhoon, organize the standard disaster prevention actions you will take in the "Saitama City My Timeline" (Create a "My Timeline" in preparation for wind and flood disasters: <https://www.city.saitama.jp/001/011/015/003/003/p063827.html>). Also, check the height of your area on the GIS's website (<https://www.esi.go.jp/>) or Saitama City's website (<https://www.city.saitama.jp/001/011/014/008/p047060.html>) in the GIS's low places tend to accumulate water.

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## 7. Tell Me, Mr. Nu!

Mr. Nu is going to teach us about this hazard map!

Q1 Are non-colored areas on the hazard map safe?  
A1 The hazard map is a colored map that highlights areas which are at high risk of inundation. Since areas with inundation depth of less than 20 cm are not shown, please note that inundation may occur even in non-colored areas.

Q2 What is the difference between this map and the previous Inundation (Inland Water) Disaster Prevention Map?  
A2 The previous Inundation (Inland Water) Disaster Prevention Maps have been created by considering topographical information based on the information reported by citizens. The new hazard map is created based on a flooding simulation on the assumption that the estimated maximum amount of rainfall (153mm per hour) falls on Saitama City set by the national government.

Q3 What is the difference from the Flood Hazard Map?  
A3 The Inland Water Hazard Map shows the areas that are expected to be inundated when rainfall far exceeds the drainage facility capability of sewers. The Flood Hazard Map shows the areas possibly to be flooded when a class A river overflows.

Q4 How should I use the Inland Water Hazard Map?  
A4 You should check the areas around your home, school, workplace and the places you pass by regularly to make sure how much flooding is expected to happen and where the high-risk areas are. The Inland Water Hazard Map also includes information on evacuation, preparations to minimize inundation damages, and precautions to be taken during heavy rain. Please read it carefully and prepare for food damages on a daily basis.

Q5 Will you take measures to eliminate inundation in the places that are expected to be inundated in the Inland Water Hazard Map in the future?  
A5 The hazard map has been created to promote self help and mutual assistance of evacuation. Therefore, inundation prevention measures will not be developed to eliminate all inundation assumptions on the hazard map, but will be developed in accordance with the development standards of Saitama City.

Q6 Do such large-scale inundation damages actually occur?  
A6 As for the estimated maximum amount of rainfall, the estimated maximum amount of rainfall at the present moment is set, using the results of available meteorological observations, etc. based on the current scientific knowledge. In fact, Ibaraki City in Chiba Prefecture observed 153 mm of rainfall per hour in 1999.

Q7 What is this simulation like?  
A7 It is a comprehensive analysis of how the city will be inundated if the estimated maximum amount of rainfall falls on the entire area of Saitama City by reproducing in a computer topographical information such as ground height, drainage facilities such as major sewers and water channels, and the conditions of the rivers to where rain water is discharged or the like.

Q8 This hazard map is created based on the estimated maximum amount of rainfall but there is any possibility that an inundation damage greater than this will occur?  
A8 There is a limit to computer performing inundation simulations, which are not able to reflect small steps in sidewalks, small water channels, or clogged rainwater basins, so the simulation results will not be exactly the same as the actual phenomena. Also, please note that inundation areas and depths will change depending on how rain falls, even if the amount of rainfall is same.

Q9 It is difficult to distinguish the colors of the estimated inundation areas. Is there any map easier to see?  
A9 According to the national regulations, this color scheme is used for uniformity among local governments and for consideration of people with color blindness, etc. There are no printed maps, but the Saitama City website provides a map with a different color arrangement. You should check it out.

Requests to all local residents from Mr. Nu!  
Please read this hazard map on a daily basis and prepare for inundation damages! (\*\*)

For more information, please see the Q & A on our website at <https://www.city.saitama.jp/001/006/003/002/001/p078773.html>