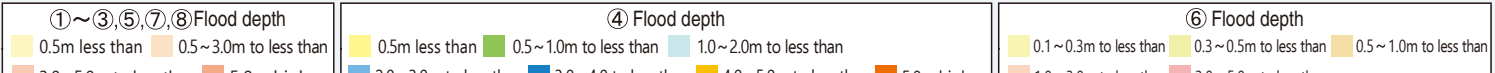
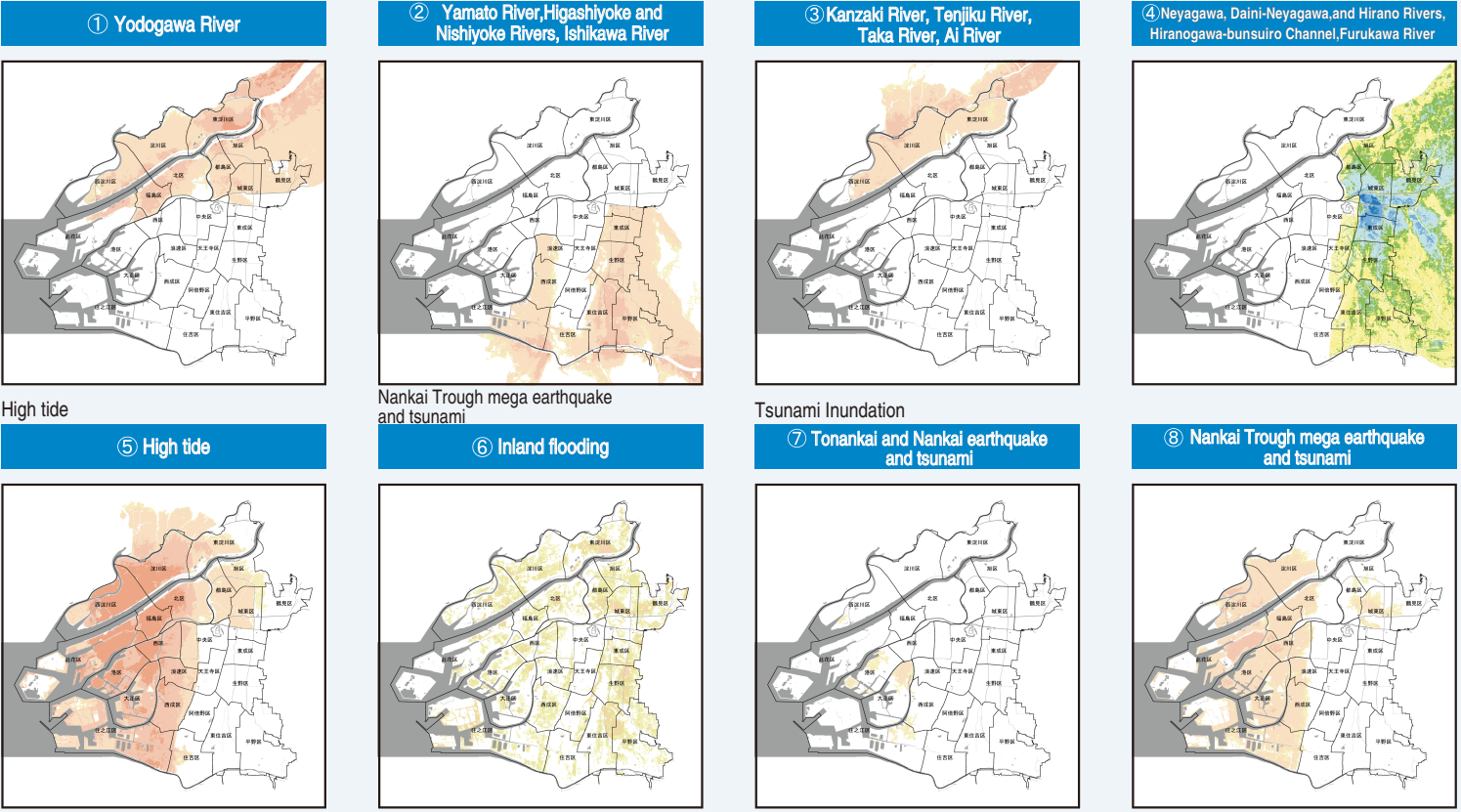


Inundation hazard map for Osaka City

River Flooding (in case of levee breach)



Calculation Conditions for Rain and Tsunami Scenarios

Disaster	River	Scenario conditions	Released	Contact Information	Telephone number
River flooding	① Yodogawa River	24-hour total rainfall: 360 mm/hour	Probable maximum precipitation (Likelihood: about 1/1,000 years)	Jun. 2017	Yodogawa River Office, Kinki Regional Development Bureau, MLIT 072-843-2861
	② Yamato River	12-hour total rainfall: 316 mm/hour	Probable maximum precipitation (Likelihood: about 1/1,000 years)	May 2016	Yamatogawa River Office, Kinki Regional Development Bureau, MLIT 072-971-1381
	Higashiyoko and Nishiyoko Rivers	24-hour total rainfall: 904.1 mm/hour Maximum rainfall: 102.5 mm/hour	Probable maximum precipitation (Likelihood: 1 more than 1,000 years)	Nov. 2019	Tondabayashi Civil Engineering Office, Osaka Prefecture 0721-25-1131
	Ishikawa River	24-hour total rainfall: 724 mm/hour Maximum rainfall: 195.5 mm/hour	Probable maximum precipitation (Likelihood: 1 more than 1,000 years)	Jan. 2021	Nishiohara Civil Engineering Office, Osaka Prefecture 0721-25-1131
	Kanzaki River	24-hour total rainfall: 737 mm/hour Maximum rainfall: 81.1 mm/hour	Probable maximum precipitation (Likelihood: 1 more than 1,000 years)	Jan. 2020	Nishi Osaka Flood Control Office, Osaka Prefecture 06-6541-7771
River flooding	Tenjiku River	24-hour total rainfall: 1,150 mm/hour Maximum rainfall: 142.6 mm/hour	Probable maximum precipitation (Likelihood: 1 more than 1,000 years)	Jan. 2020	Ikeeda Civil Engineering Office, Osaka Prefecture 072-752-4111
	Taka River	24-hour total rainfall: 1,150 mm/hour Maximum rainfall: 145.4 mm/hour	Probable maximum precipitation (Likelihood: 1 more than 1,000 years)	Jan. 2020	Ikeeda Civil Engineering Office, Osaka Prefecture 072-752-4111 072-627-1121
	Ai River	24-hour total rainfall: 776 mm/hour Maximum rainfall: 189 mm/hour	Probable maximum precipitation (Likelihood: 1 more than 1,000 years)	Mar. 2020	Ibaraki Civil Engineering Office, Osaka Prefecture 072-627-1121
High tide	④ Neyagawa, Daini-Neyagawa, and Hirano Rivers, Hirayagawa-bunshiro Channel, Furukawa River	24-hour total rainfall: 683 mm/hour Maximum rainfall: 189 mm/hour	Probable maximum precipitation (Likelihood: 1 more than 1,000 years)	Mar. 2019	Neyagawa River Basin Flood Control Office, Osaka Prefecture 06-6962-7661
	⑤ High tide	Scenario in which the central pressure is 910 hPa (Muroto Typhoon level), radius of maximum cyclogenetic wind speed is 75 km (Isewan Typhoon level), traveling speed is 73 km/h, and the path is the same as that of Muroto Typhoon		Aug. 2020	Person in charge of emergency management, Port & Harbor Bureau, Osaka City 0725-21-7246
Inland flooding	⑥ Inland flooding	24-hour total rainfall: 549 mm/hour Maximum rainfall: 147 mm/hour	Probable maximum precipitation (Likelihood: about 1/1,000 years)	Mar. 2021	Coordination Section, Sewer Department, Public Works Bureau, Osaka City 06-6615-7594
Tsunami	⑦ Nankai and Nankai earthquake and tsunami	Scenario in which an earthquake with a magnitude of around 8.6 occurs, causing flooding due to a tsunami, and tide gates (those open at night), etc. did not close (high tide assumed)		Mar. 2004	Planning Section, Port & Harbor Bureau, Osaka City 06-6615-7782
	⑧ Nankai Trough mega earthquake and tsunami	Scenario in which an earthquake with a magnitude of around 9.1 occurs, causing flooding due to a maximum class tsunami (breakwater and opening/closing of tidal barriers taken into account) (high tide assumed)		Aug. 2013	Disaster Prevention Planning Division, Office of Emergency Management, Osaka Prefecture 06-6944-6487

Creator of this pamphlet: Office of Emergency Management, Osaka City (Tel: 06-6208-7384)

This pamphlet is also available for viewing on the official website of the Office of Emergency Management, Osaka City.

<https://www.city.osaka.lg.jp/kikikanri/shitsu/>



Mar. 2021

Transmission of information

Receiving Information

Bosai Information Mail Creates the city's disaster measures information and information needed in times of disaster to your registered mobile phone or PC e-mail address

Must preregister toukou@osaka-bosai.net

Send a blank e-mail to the e-mail address above to register. The e-mail address can also be read from the 2D code on the right.

Emergency Warning E-mail Emergency information will be sent to mobile phones that support emergency alert emails.

Check in advance to see if you can receive it You may need to change your settings. Please ask your mobile phone provider for more information.

Yahoo! disaster prevention bulletin app It provides evacuation and earthquake information via push notifications.

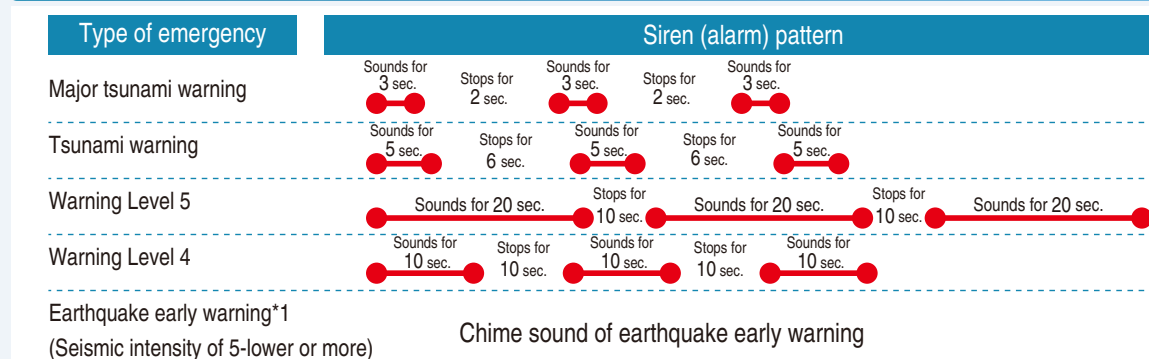
When setting the region, enter XX Ward, Osaka City. Then you can receive information for the entire area of Osaka City.

Finding Information

- If outdoor emergency speaker broadcasts could not be heard: call the Government Disaster Wireless Telephone Service (06-6210-3899), charges apply.
- In times of disaster, switch your TV to NHK and press the "d" button for data broadcasting to view evacuation advisories, if evacuation shelters are open, and other information.

Osaka Disaster Prevention Net Evacuation information URL http://www.osaka-bosai.net/prelin/420.html	Disaster Information for River (Ministry of Land, Infrastructure, Transport and Tourism) River level information URL https://www.river.go.jp/	River Disaster Management Information (River Office, Osaka Prefecture) River level information URL http://www.osaka-kasen-portal.net/s	Japan Meteorological Agency Weather information, tsunami information, etc. URL https://www.jma.go.jp/	Osaka City Rainfall Information Weather information, etc. URL http://www.ame.city.osaka.lg.jp/pw/0/	Osaka Safe Travels Weather information, etc. URL https://www.osakasafetravels.com/
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Emergency Siren Patterns(Outdoor emergency speaker)



More information ▼



Safety Confirmation Message Services

Disaster Emergency Message Dial 171 You can record or play messages in times of disaster.

Call **To leave message** (recording method) Press 1 Phone number of your home, yourself, or family member (in affected area) Listen to message

Press 2 Phone number of the person you want to contact (in affected area) Leave message

Dial from the area code

Dates you can try out the services

1st and 15th of every month (24 hours), Jan. 1 to 3 (24 hours)

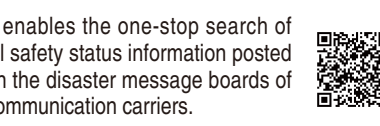
Disaster Preparedness and Volunteer Week (Jan. 15, 9 am to Jan. 21, 5 pm)

Disaster Preparedness Week (Aug. 30, 9 am to Sep. 5, 5 pm)

Disaster Emergency Message Board It can be accessed if internet connection is available in times of disaster.

Web171(NTT) URL https://www.web171.jp	SoftBank / Y!mobile URL http://dengon.softbank.ne.jp
NTT docomo URL http://dengon.docomo.ne.jp	au(KDDI) URL http://dengon.ezweb.ne.jp

J-anpi for one-stop searches of all safety status information



* Disaster Emergency Message Boards become available when a major disaster occurs. For service details, please see the explanation provided by NTT and the respective mobile phone companies.

What is My Timeline?

My Timeline provides an opportunity to prepare for wind and flood disasters, such as heavy rains and typhoons, and plan in advance how to escape using your own evacuation route while giving due consideration to the circumstances or evacuation behavior of each family member. Creating a schedule that summarizes who does what and when will help you act in an appropriate manner in the event of an emergency.

Family Evacuation Plan

When heavy rain could cause river flooding

1 Evacuation place

Determine where you will evacuate to and write it down.
Determine all ① to ③ evacuation places that you will evacuate to depending on the situation.

In principle:

- Place for early evacuation
 - Home, relative's home, friend's home, workplace, etc. (the closest safe place that will not flood)
- Closest evacuation shelter (the closest safe place that will not flood)

Evacuation place ①

2 Plan what to do until you start evacuating.

Collect information

- Check weather and evacuation information

Prepare for evacuation

- Check emergency kit and stockpile
- Buy necessary items
- Begin moving household items to 2F, etc.
- Inspect area around the house
- Put away items that may blow away
- Check window locks
- Charge mobile phone
- Check opening of evacuation shelter

Contact and call out

- Call out to neighbors
 - To evacuate
 - To evacuate together
- Contact
- To evacuate
- To evacuate together
- Contact
- Communicate with family (if you're not together)
- Contact the person who will assist your evacuation (if you cannot evacuate by yourself)

Miscellaneous

3 Fill in when you will start evacuating and when you will do what.

Determine when you will take the actions you identified in ②.
Write down when you will evacuate.

Family Evacuation Plan

Heavy rain is forecasted

Warning Level 1 Early advisory information

Ex: Double check emergency grab-and-go bag (mom)

Warning Level 2 Flood advisory Heavy rain advisory

Ex: Double check evacuation shelter (everyone)

Ex: Grandma and mom evacuate to a relative's house by car

Warning Level 3 Evacuation of the elderly from a dangerous area

Ex: Evacuate to XX Elementary School (dad and children)

Warning Level 4 Evacuation of all people from a dangerous area

Warning Level 5 Ensuring safety during an emergency

Fill in When will you evacuate? When will you do what?

Ex: Double check emergency grab-and-go bag (mom)

Ex: Grandma and mom evacuate to a relative's house by car

Ex: Evacuate to XX Elementary School (dad and children)

It is extremely dangerous to leave or relocate from your evacuation place before the evacuation information is lifted.

Nishinari Ward

Save

Protect Yourself from Flooding and Tsunami!

大阪市 Osaka City Flood Hazard Map English

How to Use this Hazard Map

How to Use 1 Check the disaster risks for your neighborhood

Use this hazard map to check risks, including which river will cause flooding and whether you will be affected by high tide in times of heavy rain or typhoon, and whether your area is subject to tsunami damage following an earthquake.

How to Use 2 Determine when and where to evacuate to for each type of disaster

Your evacuation actions to protect yourself will be different depending on the situation of the disaster and the situation you are in. Determine when and where you will evacuate to for protecting yourself from each type of disaster: heavy rain; typhoon; and tsunami.

How to Use 3 Check your daily preparedness by making use of the information in here and My Timeline to protect yourself

A variety of information is released in times of disaster. Take daily preparedness measures by making use of the information in here which will facilitate immediate actions in an emergency, as well as My Timeline which you can fill out.

Heavy rain Flooding	Evacuation and meeting place
Contact	Contact
Typhoon Flooding / High Tide	Evacuation and meeting place
Contact	Contact
Tsunami	Evacuation and meeting places
Contact	Contact

What kinds of natural disasters happen in Osaka?

In Osaka, inundation is assumed by river administrators (Kinki Regional Development Bureau, Osaka Prefecture, and Osaka City) in the event of heavy rains or when a tsunami occurs because of an earthquake. Specifically, river flooding, inland flooding, tsunami inundation, and a high tide are assumed to occur.

River Flooding

Long-duration heavy rainfall events can lead to levee breaks and inundation due to increased river water.

Inland Flooding

If it rains heavily and the river level rises beyond the drainage capacity of a waterway or a sewer system, rainwater will overflow, submerging housing areas and roads.

Tsunami Inundation

Seismogenic faulting that has occurred in the seabed makes the seabed rise or fall, causing waves on the sea surface. The waves will then spread in every direction, forming a tsunami.

1. The seabed and sea level rise or fall due to an earthquake.

2. The sea level change produces big waves which spread in all directions → Hit the shore

High tide

A storm surge is a phenomenon where the sea level (tide level) becomes higher than the normal tide level due to the approach of a typhoon or low atmospheric pressure. The main cause of the abnormal rise in tide level are the low atmospheric pressure pulling water from the sea surface and a storm's winds pushing water onshore.

Typhoon and Low Atmospheric Pressure

High waves from the offing

Storm Surge

Normal tide level (average) Sea level

Blowing effect

Sucking effect

Source: Official website of the Japan Meteorological Agency

Emergency contact information			
Nishinari Ward Office	06-6659-9734	Road (Tsumori Construction and Maintenance Office)	06-6567-6495
Nishinari Ward Public Health and Welfare Center	06-6659-9882	Electricity (common to all branches of Kansai Electric Power)	0800-777-8810
Police Station	110	(Kansai Electric Power (power outage))	0800-777-3081
Fire Department	119	Gas leak (Osaka Gas)	0120-0-19424
Sewer (Tsumori Sewer System Maintenance Center)	06-6567-6516	Telephone trouble (NTT)	113
Water Service (Western Water Service Center)	06-6531-9211	When using a fiber optic telephone or mobile phone	0120-444113

When a record typhoon is approaching(High tide)

Disaster Information(Warning Level)

Warning Level 1

Issued by JMA

Possibility of storm warning-class disaster

Early call for evacuation from Osaka City in collaboration with the Message to Osaka Prefectural Residents from the Governor of Osaka Prefecture

Warning Level 2

Issued by the city

Out of a dangerous area

The elderly, etc. should evacuate

Equivalent to Warning Level 3

Issued by MLIT, JMA, and the prefecture

Flood alert information, Flood warning, etc.

Warning Level 3

Issued by JMA

High tide special warning

Issued by the city

Out of a dangerous area

Everyone must evacuate!

Equivalent to Warning Level 4

Issued by MLIT, JMA, and the prefecture

Flood danger information, etc.

Warning Level 4

Issued by the prefecture

High tide flood danger information

Issued by the city to the extent possible

Ensuring safety during an emergency

Equivalent to Warning Level 5

Issued by MLIT, JMA, and the prefecture

Flood inundation information, Heavy rain emergency warning, etc.

Warning Level 5

Actions to Protect Yourself

Be on heightened alert, check evacuation actions, prepare for evacuation

For example:

- Stay alert of weather information
- Find an evacuation place on the hazard map
- Begin evacuating to places that will not flood
- To a relative's home, friend's home, workplace, etc., including those not in Osaka City
- Evacuate people requiring time to evacuate
- Be on heightened alert, check evacuation actions, prepare for evacuation
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- Evacuate people requiring time to evacuate
- Be on heightened alert, check evacuation actions, prepare for evacuation
- For example:
- Stay alert of weather information
- Find an evacuation place on the hazard map
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