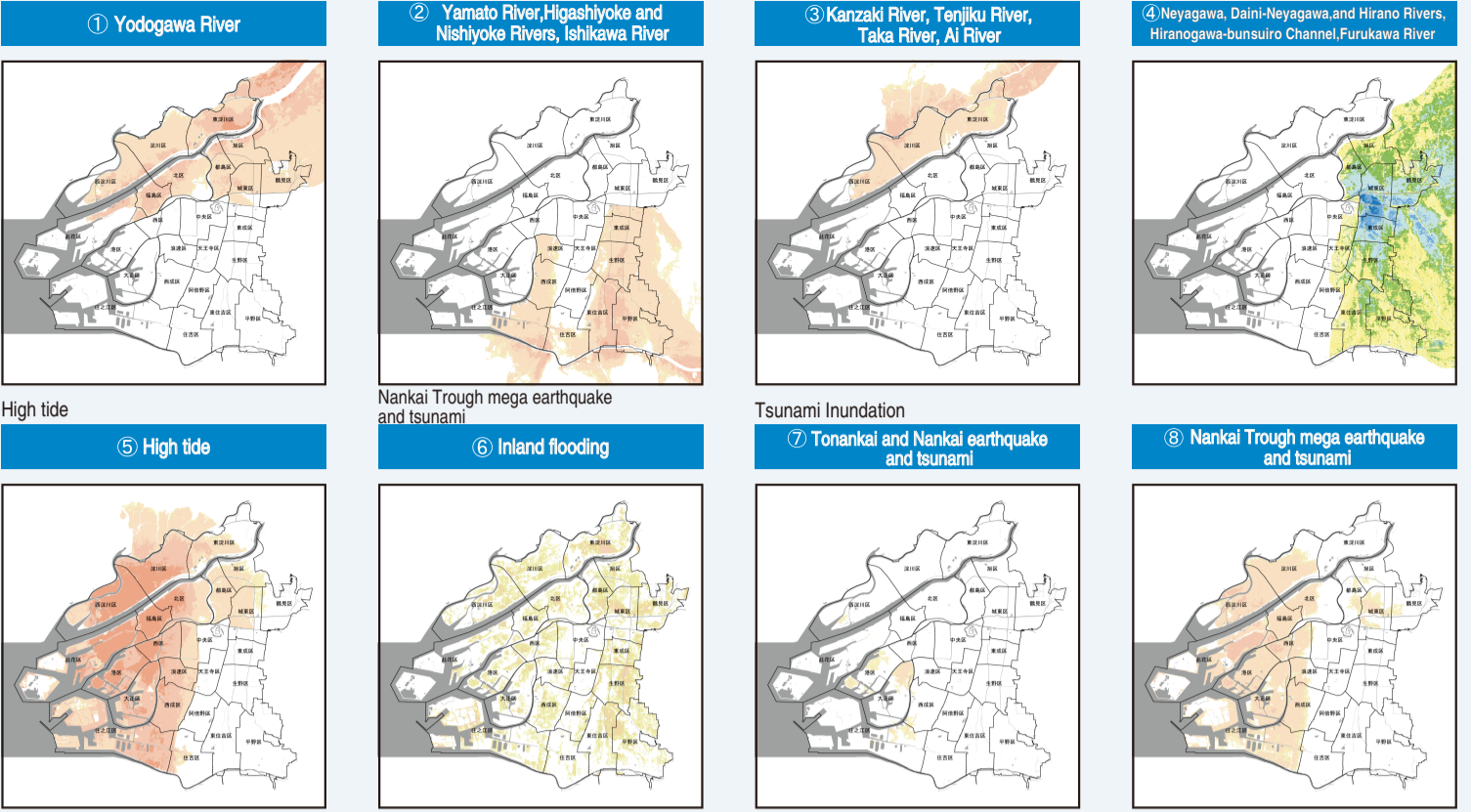


## Inundation hazard map for Osaka City

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	Nishi Osaka Flood Control Office, Osaka Prefecture 06-6541-7771
	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	Ikeda Civil Engineering Office, Osaka Prefecture 072-752-4111
	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	Ikeda Civil Engineering Office, Osaka Prefecture 072-752-4111 Ibaraki Civil Engineering Office, Osaka Prefecture 072-627-1121
	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	Ibaraki Civil Engineering Office, Osaka Prefecture 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	Neyagawa River Basin Flood Control Office, Osaka Prefecture 06-6962-7661
High tide	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
	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	Disaster Prevention Planning Division, Office of Emergency Management, Osaka Prefecture 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 view on the official website of the Office of Emergency Management, Osaka City.  
<https://www.city.osaka.lg.jp/kikikanrishi/>



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  
E-mail: [toukou@osaka-bosai.net](mailto: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.

**How information is communicated**  
Evacuation information, Water level / river information, Earthquake / tsunami information, Weather (rain, etc.) information.  
City residents collect information proactively.  
Efforts to diversify disaster information communication means  
URL: <https://www.city.osaka.lg.jp/kikika/nrishi/paage/000509398.html>

### 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/>

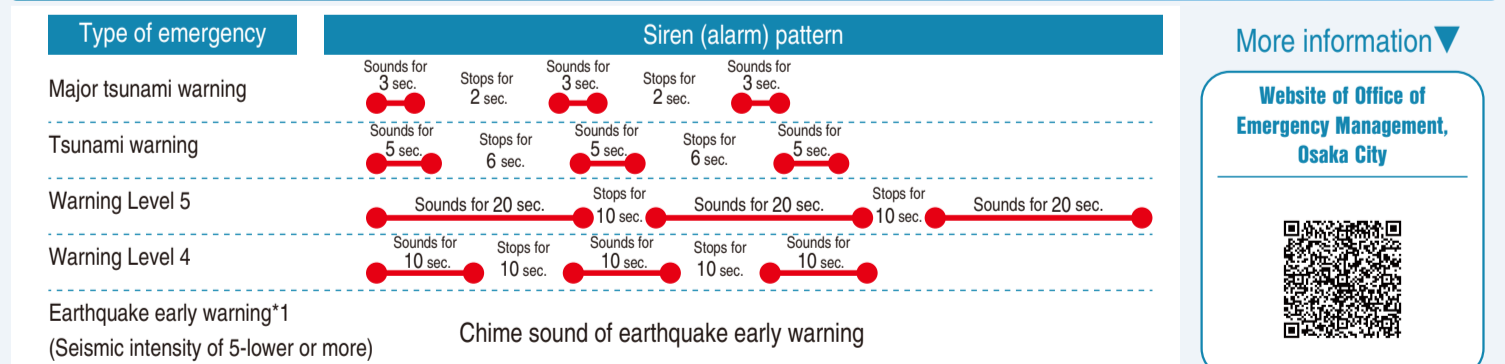
**River Disaster Management Information (River Office, Osaka Prefecture)**  
River level information  
URL: <http://www.osaka-kasen-portal.net/s>

**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/>

## 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 1-7-1  
Press 1: To leave message (recording method)  
Press 2: To listen to message (confirmation method)  
Phone number of your home, yourself, or family member (in affected area)  
Dial from the area code  
Phone number of the person you want to contact (in affected area)  
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>  
NTT docomo  
URL: <http://dengon.docomo.ne.jp>

**SoftBank / Y!mobile**  
URL: <http://dengon.softbank.ne.jp>  
**au(KDDI)**  
URL: <http://dengon.ezweb.ne.jp>

**J-anpi for one-stop searches of all safety status information**  
It enables the one-stop search of all safety status information posted on the disaster message boards of communication carriers.  
URL: <https://anpi.jp/>

\* 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, ③

**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  
Warning Level 1 Early advisory information  
Warning Level 2 Flood advisory Heavy rain advisory  
Warning Level 3 Evacuation of the elderly from a dangerous area  
Warning Level 4 Evacuation of all people from a dangerous area  
Warning Level 5 Ensuring safety during an emergency  
High  
Fill in When will you evacuate? When will you do what?  
Ex: Double check emergency grab-and-go bag (mom)  
Ex: Double check evacuation shelter (everyone)  
Ex: Grandma and mom evacuate to a relative's house by car  
Likely evacuation place at this stage  
Evacuation place ①, ②  
Ex: Evacuate to XX Elementary School (dad and children)  
Likely evacuation place at this stage  
Evacuation place ①, ②  
Likely evacuation place at this stage  
Evacuation place ③  
\* Depending on the situation of the disaster, information may not necessarily be released in this order. It is important to respond flexibly to the situation.

**After evacuating**  
Contact method  
After evacuating, inform your family and other important people that you have evacuated safely  
Family meeting place  
It is extremely dangerous to leave or relocate from your evacuation place before the evacuation information is lifted.

## Tennoji Ward Save

# Protect Yourself from Flooding and Tsunami!

**How to Use this Hazard Map**  
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.  
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.  
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.

**Evacuation and meeting place**  
Determine and write down the evacuation and meeting places by type of disaster.  
Heavy rain Flooding  
Typhoon Flooding / High Tide

**Emergency contact information**  
Tennoji Ward Office 06-6774-9986  
Tennoji Ward Public Health and Welfare Center 06-6774-9882  
Police Station 110  
Fire Department 119  
Sewer (Tajima Sewer System Maintenance Center) 06-6751-5048  
Water Service (Southern Water Service Center) 06-6627-9511  
Road (Tajima Construction and Maintenance Office) 06-6751-5000  
Electricity (common to all branches of Kansai Electric Power) 0800-777-8810  
Gas leak (Osaka Gas) 0120-0-19424  
Telephone trouble (NTT) 113  
When using a fiber optic telephone or mobile phone 0120-444113

## When a record typhoon is approaching(High tide)

**Disaster Information(Warning Level)**  
Typhoon forms  
Warning Level 3  
Warning Level 4  
Warning Level 5  
Disaster has occurred or urgent situation

**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 quickly to an evacuation site  
For example:  
To a safer place that will not flood (incl. 3F or higher), e.g., a relative's home, friend's home, workplace  
To your closest evacuation shelter  
Double check your emergency grab-and-go bag in preparation for Warning Level 4 (evacuate everyone)  
If you feel you are in danger on your way to an evacuation site, go to the nearest safe place  
It is very dangerous to evacuate in a flood. Your life is in danger. Immediately secure your safety!  
For example:  
To your closest evacuation shelter  
To your closest evacuation shelter (to a flood/tsunami evacuation building)  
To a tall building or other elevated place  
It is very dangerous to evacuate in a flood. Your life is in danger. Immediately secure your safety!  
For example:  
To your closest evacuation shelter  
To your closest evacuation shelter (to a flood/tsunami evacuation building)  
To a tall building or other elevated place

**How Will You Evacuate?**  
If you can stay at home due to shallow flooding, etc.  
Do not go outside if it is unwise  
Depending on the wind and rain situation, it may be safer to stay at home. Evacuate to a safe place in your home that will not flood.  
If you cannot stay at home due to deep flooding, etc.  
Evacuate early  
Evacuate early to a place that is unlikely to flood. Your options may include evacuating to a relative's home, a friend's home, or workplace, incl. outside Osaka City.  
Evacuation Precautions  
Go to a place higher than flood level  
Driving or evacuating in strong wind is dangerous  
The strength of the wind affects evacuation. When strong wind gusts are blowing due to a typhoon, etc., a traveling truck may flip over, or block walls and houses may begin to collapse.  
Higher than flood level

**When a tsunami strikes**  
How Will You Evacuate?  
Move to an inundation-free place as soon as possible.  
Upon feeling earthquake tremors or receiving a tsunami warning, evacuate to an inundation-free place as soon as possible.  
Outside the assumed flood inundation zone  
Safe, inundation-free floors of the nearest tsunami evacuation building  
Safe, inundation-free floors of the nearest tall building or on high places  
Tsunami (higher than 1 m) caused by a massive Nankai Trough earthquake is expected to reach Osaka City within 110 minutes after the occurrence of the earthquake.  
Tsunami Information  
Estimated maximum tsunami height  
Quantitative expression (indication) Qualitative expression  
Warning name  
Your responses  
Over 10 m  
10 m 5m-Height≤10m  
5 m 3m-Height≤5m  
3 m 1m-Height≤3m  
1 m 20cm≤Height≤1m  
Huge  
High  
N/A  
Major tsunami warning (Emergency warning)  
Tsunami warning  
Tsunami advisory  
As quickly and high as possible  
If you did not escape in time, run and climb up a tall building or other elevated place  
Stay alert of tsunami information

## When heavy rain could cause river flooding

**Disaster Information(Warning Level)**  
Warning Level 1  
Warning Level 2  
Warning Level 3  
Warning Level 4  
Warning Level 5  
Disaster has occurred or urgent situation

**Actions to Protect Yourself**  
Be on heightened alert  
For example:  
Stay alert of weather information.  
Check evacuation actions  
For example:  
Double check evacuation route on the hazard map  
Stay alert of the rainfall situation in your area  
Evacuate quickly to an evacuation site  
For example:  
To a safer place that will not flood (incl. 3F or higher), e.g., a relative's home, friend's home, workplace  
To your closest evacuation shelter  
Double check your emergency grab-and-go bag in preparation for Warning Level 4 (evacuate everyone)  
If you feel you are in danger on your way to an evacuation site, go to the nearest safe place  
It is very dangerous to evacuate in a flood. Your life is in danger. Immediately secure your safety!  
For example:  
To your closest evacuation shelter  
To your closest evacuation shelter (to a flood/tsunami evacuation building)  
To a tall building or other elevated place  
If you feel you are in danger on your way to an evacuation site, go to the nearest safe place  
It is very dangerous to evacuate in a flood. Your life is in danger. Immediately secure your safety!  
For example:  
To your closest evacuation shelter  
To your closest evacuation shelter (to a flood/tsunami evacuation building)  
To a tall building or other elevated place

**Evacuation Precautions**  
It is dangerous to go outside in torrential rain or to flooded areas  
If the flood risk is high, do not go walk outside. Wait indoors.  
As a rule, evacuate by foot  
If you need to evacuate by car, begin evacuating earlier, e.g., the elderly and others requiring assistance.  
Do not use flooded roads  
The water will be muddy, and you will have a hard time seeing where you are going. It is dangerous as you can fall into a manhole, drain, or other openings.  
Manhole Danger

**How Will You Evacuate?**  
If you can stay at home due to shallow flooding, low risk of house collapse, etc.  
Do not go outside if it is unwise  
Depending on the wind and rain situation, it may be safer to stay at home. Evacuate to a safe place in your home that will not flood.  
If you cannot stay at home due to deep flooding, high risk of house collapse, etc.  
Evacuate early  
Evacuate early to a place that is unlikely to flood. Your options may include evacuating to a relative's home, a friend's home, or workplace.  
If evacuating to an evacuation shelter, check if it is open