

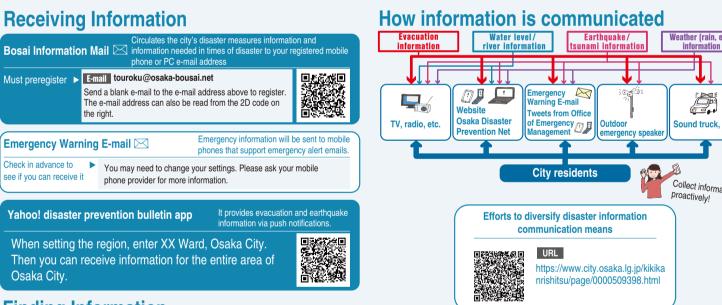
ndabayashi Civil Engineering Office, Osaka Prefecture 24-hour total rainfall: 724 mm/hour Probable maximum precipitation shikawa Rive Maximum rainfall: 195.5 mm/hour Likelihood: 1/more than 1,000 years) 24-hour total rainfall: 737 mm/hour Probable maximum precipitation Nishi Osaka Flood Control Office. Kanzaki River 06-6541-7771 Jan. 2020 Maximum rainfall: 81.1 mm/hour Likelihood: 1/more than 1,000 years) Osaka Prefecture 24-hour total rainfall: 1,150 mm/hour Probable maximum precipitation Ikeda Civil Engineering Office. Tenjiku River Jan. 2020 Maximum rainfall: 142.6 mm/hour (Likelihood: 1/more than 1,000 years) Osaka Prefecture keda Civil Engineering Office, Osaka 24-hour total rainfall: 1,150 mm/hou Probable maximum precipitatio Taka River | Prefecture | Ibaraki Civil Engineering Office, Osaka | 072-627-1121 (Likelihood: 1/more than 1,000 years) Maximum rainfall: 145.4 mm/hour 24-hour total rainfall: 776 mm/hour Probable maximum precipitation Ibaraki Civil Engineering Office, Ai River 072-627-1121 Maximum rainfall: 189 mm/hour 24-hour total rainfall: 683 mm/hour 06-6962-7661 Maximum rainfall: 138.1 mm/hour (Likelihood: 1/more than 1,000 years) Control Office, Osaka Prefecture Scenario in which the central pressure is 910 hPa (Muroto Typhoon level), radius of Person in charge of emergency Aug. 2020 | management, Port & Harbor Bureau, | 0725-21-7246 naximum cyclostrophic wind speed is 75 km (Isewan Typhoon level), traveling speed is High tide 73 km/h, and the path is the same as that of Muroto Typhoon Osaka City oordination Section, Sewe 24-hour total rainfall: 549 mm/hour Inland flooding Mar. 2021 Department, Public Works Bureau, 06-6615-7594 (Likelihood: about 1/1,000 years) Maximum rainfall: 147 mm/hour Osaka City Scenario in which an earthquake with a magnitude of around 8.6 occurs, causing flooding Tonankai and Nankai 06-6615-7782 Mar. 2004 due to a tsunami, and tide gates (those open at night), etc. did not close (high tide earthquake and tsunami Disaster Prevention Planning Scenario in which an earthquake with a magnitude of around 9.1 occurs, causing flooding Nankai Trough mega 06-6944-6487 due to a maximum class tsunami (breakwater and opening/closing of tidal barriers taken Division, Office of Emergency earthquake and tsunami into account) (high tide assumed) Management, Osaka Prefecture

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/kikikanrishitsu/



Mar. 2021

Transmission of information



Finding Information

If outdoor emergency speaker broadcasts could not be heard: call the Government Disaster Wireless Telephone Service (06-6210-3899), charges apply.

River Disaster Managemen

● 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.



URL https://www.web171.jp

URL http://dengon.docomo.ne.jp

explanation provided by NTT and the respective mobile phone companies.

NTT docomo













Emergency Si	ren Patterns(Outdoor emergency speaker)	
Type of emergency	Siren (alarm) pattern	More information ▼
Major tsunami warning	Sounds for 3 sec. Stops for 3 sec. Stops for 3 sec. 2 sec.	Website of Office of
Tsunami warning	Sounds for Stops for Sounds for Sounds for Sounds for 5 sec. 6 sec. 5 sec. 5 sec. 5 sec.	Emergency Management, Osaka City
Warning Level 5	Sounds for 20 sec. Stops for 10 sec. Sounds for 20 sec. Stops for 10 sec. Sounds for 20 sec.	
Warning Level 4	Sounds for Stops for Sounds for Stops for 10 sec. Sounds for 10 sec. Sounds for 10 sec. Sounds for 10 sec.	
Earthquake early warning*1 (Seismic intensity of 5-lower or m	ore) Chime sound of earthquake early warning	

Safety Confirmation Message Services

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

Disaster Emergency Message Board It can be accessed if internet connection is available in times of disaster. Web171(NTT)

* Disaster Emergency Message Boards become available when a major disaster occurs. For service details, please see the



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/

Dates you can try out the services

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

(Jan. 15, 9 am to Jan. 21, 5 pm)

Disaster Preparedness Week

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

J-anpi for one-stop searches of all

aster Preparedness and Volunteer Week

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

Determine where you will evacuate to and write it down.

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: • If you did not escape in time... 💉 Place for early evacuation Where you can protect yourself at that place and time Closest flood disaster (tsunami) evacuation building Home, relative's home, friend's home, workplace, etc. Closest evacuation shelter (the closest safe place that will not flood) (the closest safe place that will not flood) (the closest safe place that will not flood) ■ Tall building or other elevated place (the closest safe place that will not flood)

Fill in when you will start evacuating and when you will do what. what to do until you start evacuating ▶ Determine when you will take the actions you identified in 2. ▶ Write down when you will evacuate **Collect information** 11111111111 Check weather and evacuation information Fill in When will you evacuate? When will you do what? is forecasted Prepare for evacuation Ex: Double check emergency grab-and-go bag (mom Warning Level Early advisory Check emergency kit and stockpile information Buy necessary items Begin moving household items to 2F, etc. Ex: Double check evacuation shelter (everyone Warning Level **2** Inspect area around the house Flood advisory Put away items that may blow away Heavy rain advisory Check window locks Charge mobile phone Check opening of evacuation shelter Contact and call out Likely evacuation place at this stage Call out to neighbors \emph{N} aming Level orallTo evacuate ☐ To evacuate together Evacuation of the elderly from a Contact dangerous area! To evacuate To evacuate togethe Ex: Evacuate to XX Elementary School (dad and children Contact Evacuation place 1,0 Communicate with family (If you're not together) Contact the person who will assist your evacuation Likely evacuation place at this stage (If you cannot evacuate by yourself **Evacuation place** (

After evacuating, inform your family and other important people that you have evacuated safely **Contact method** Family meeting place

during

Depending on the situation of the disaster, information may not necessarily be released in this order.

If evacuating to an evacuation shelter, check if it is open

Evacuation Precautions

Remain at the safe place

until the tsunami warning

is canceled.

Upon feeling massive or

slow earthquake tremors,

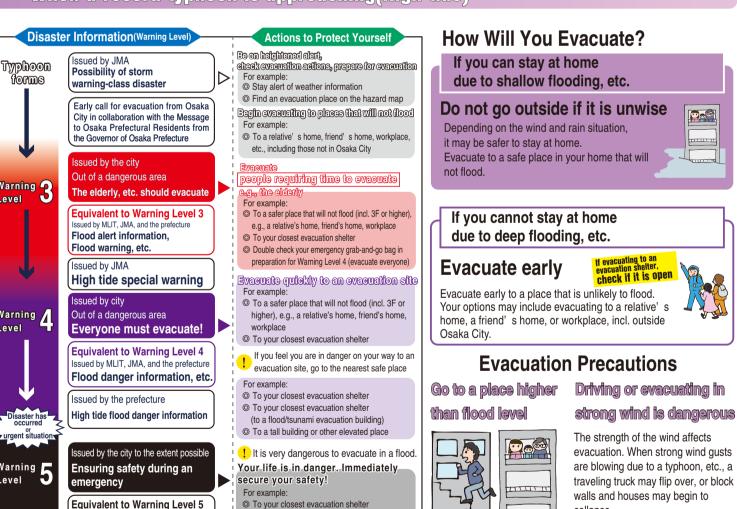
or river as soon as

nossible.

move away from the beach

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

When a record typhoon is approaching(High tide)



Flood inundation information. (to a flood/tsunami evacuation building) Heavy rain emergency warning, etc. ○ To a tall building or other elevated place Depending on the situation of the river(s) and the disaster, information may not necessarily be released in this order

It is necessary to respond flexibly to the situation. When a tsunami strikes

sued by MLIT, JMA, and the prefecture

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

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 Over 10 m		Warning name	Your responses		
			Qualitative expression	vvairiing name	Tour responses	
				Major taunami		
	10 m	5m <height≦10m< th=""><th>Huge</th><th rowspan="2">(Emergency warning)</th><th>●As quickly and high as possible</th></height≦10m<>	Huge	(Emergency warning)	●As quickly and high as possible	
	5 m	3m <height≦5m< th=""><th></th><th></th></height≦5m<>				
	3 m	1m <height≦3m< th=""><th>High</th><th>Tsunami warning</th><th> If you did not escape in time, run and climb up a tall building or other elevated place </th></height≦3m<>	High	Tsunami warning	 If you did not escape in time, run and climb up a tall building or other elevated place 	
	1 m	20cm≦Height≦1m	N/A	Tsunami advisory	●Stay alert of tsunami information	

Abeno Ward Save

rote

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example

个大阪市 Osaka City Flood Hazard Map English What kinds of natural disasters happen in Osaka?

How to Use this Hazard Map

low to Use

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.



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



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

Evacuation and meeting place

Heavy rain Flooding Evacuation and meeting place

High Tide

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

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

assumed to occur

inundation due to increased river water

occurs because of an earthquake. Specifically, river flooding, inland flooding, tsunami inundation, and a high tide are

Long-duration heavy rainfall events can lead to levee breaks and

If it rains heavily and the river level rises beyond the drainage

capacity of a waterway or a sewer system, rainwater will overflow

Seismogenic faulting that has occurred in the seabed makes the

The waves will then spread in every direction, forming a tsunami.

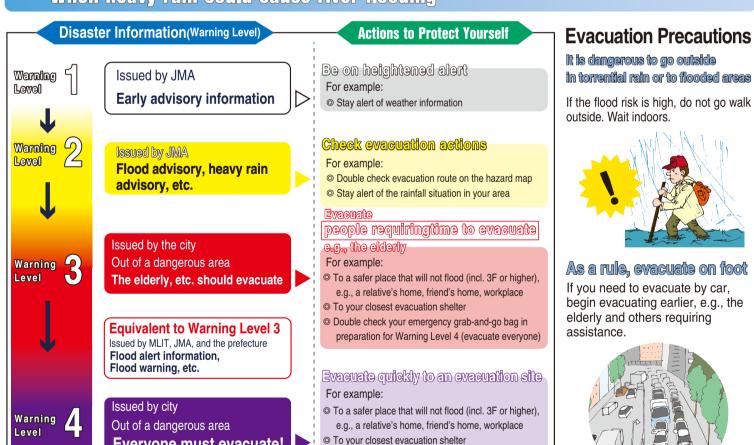
High waves from the offing

fource: Official website of the Japan Meteorological Agency

Emergency contact information

Zinorgonoy contact morniation							
Abeno Ward Office	06-6622-9986	Road (Hirano Construction and Maintenance Office)	06-6705-0102				
Abeno Ward Public Health and Welfare Center	06-6622-9882	Electricity (common to all branches of Kansai Electric Power)	0800-777-8810				
Police Station	110	Gas leak (Osaka Gas)	0120-0-19424				
Fire Department	119	Telephone trouble (NTT)	113				
Sewer (Hirano Sewer System Maintenance Center)	06-6705-0342	When using a fiber optic telephone or mobile phone	0120-444113				
Water Service (Customer Center)	06-6458-1132						

When heavy rain could cause river flooding



Everyone must evacuate!

Equivalent to Warning Level 4 Issued by MLIT, JMA, and the prefecture Flood danger information, etc.

sued by the city to the extent possible Ensuring safety during an

Equivalent to Warning Level 5 ssued by MLIT, JMA, and the prefecture Flood inundation information, Heavy rain emergency warning, etc.

Double check evacuation route on the hazard map

Stay alert of the rainfall situation in your area eople requiringtime to evacuate

🗽 If you feel you are in danger on your way to an

evacuation site, go to the nearest safe place

As a rule, evacuate on foot

If you need to evacuate by car, begin evacuating earlier, e.g., the elderly and others requiring assistance

It is dangerous to go outside

outside. Wait indoors.

in torrential rain or to flooded areas

If the flood risk is high, do not go walk



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



* Depending on the situation of the river(s) and the disaster, information may not necessarily be released in this order. It is necessary to respond flexibly to the situation. **How Will You Evacuate?**

For example:

To your closest evacuation shelter

(to a flood/tsunami evacuation building)

secure your safety!

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

If you can stay at home due to shallow flooding, low risk of house collapse, etc.

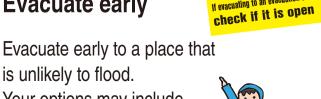
Do not go outside if it is unwise

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



is unlikely to flood. Your options may include evacuating to a relative's home, a friend's home, or workplace.

