



Yufuin Town

Shonai Town

Hasama Town

# FLOOD HAZARD MAP

Take action to protect your own life!

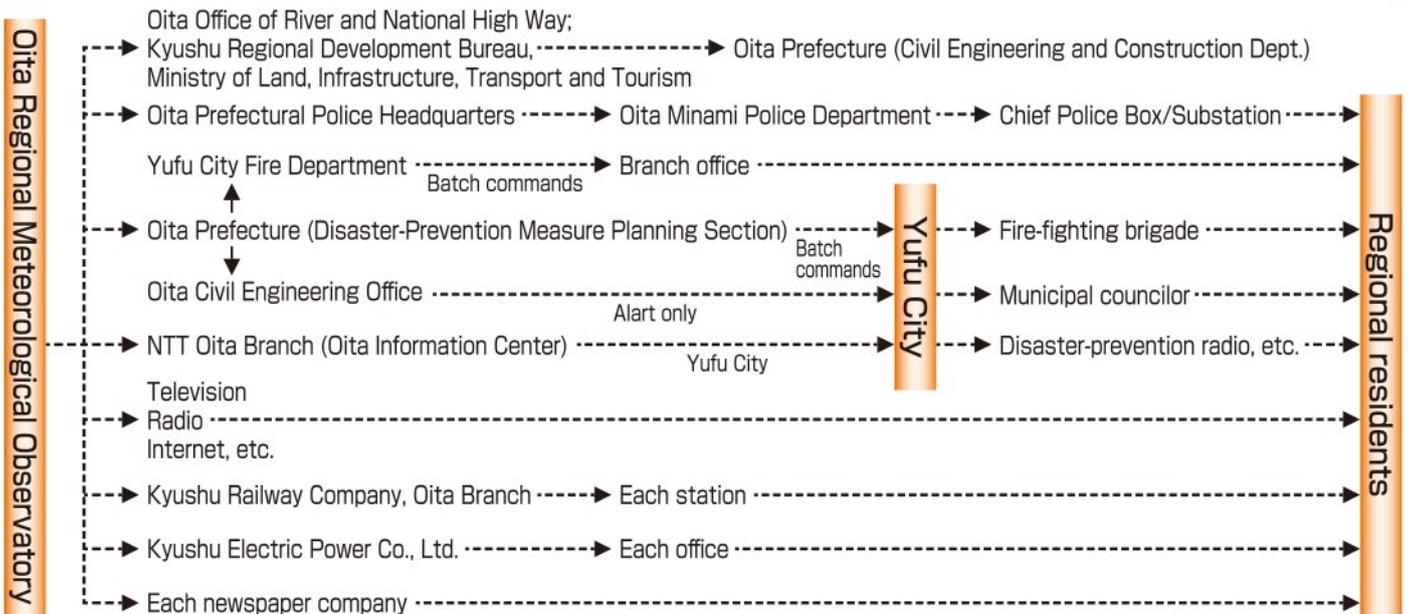
Yufuin Town

Hasama Town

Shonai Town

This pamphlet is intended educate residents on the danger of floods and to provide information required for evacuation in the event of a disaster. In order to enable safe evacuation on a daily basis, confirm evacuation sites, dangerous locations, etc., with your family and community.

# Information transmission route



# Evacuation information provided from the city

Warning Level	Evacuation behavior, etc.	Evacuation information, etc.
<b>Warning Level 5</b>	<b>When a disaster has already occurred. Take the optimal action to protect your own life.</b>	<b>Disaster occurrence information*1</b> *1 If it has been confirmed that a disaster actually occurred, make official announcements within the possible range (official announcements made by municipalities)
<b>Warning Level 4</b> <b>Evacuation by everyone</b>	<b>Evacuate quickly to the evacuation site.</b> If it is dangerous to move to the public evacuation site, evacuate to a safe location nearby or evacuate to a safer location in your house.	<b>Evacuation advisory</b> <b>Evacuation order (emergency) *2</b> *2 Announce when there is an emergency depending on regional conditions or when repeatedly urging evacuation (official announcements made by municipalities)
<b>Warning Level 3</b> <b>Evacuation by the elderly, etc.</b>	<b>People who require a long time to evacuate (elderly people, people with disabilities, infants, etc.) and their support staff should evacuate.</b> Other people should prepare to evacuate.	<b>Prepare for evacuation/ Start evacuation for elderly people, etc.</b> (official announcements made by municipalities)
<b>Warning Level 2</b>	<b>Prepare for evacuation and check your evacuation route according to the hazard map, etc.</b>	<b>Flood warning</b> <b>Heavy rain warning, etc.</b> (announced by the Japan Meteorological Agency)
<b>Warning Level 1</b>	Increase your readiness towards disasters.	<b>Early warning information</b> (announced by the Japan Meteorological Agency)

Information is not always announced in order from Warning Level 1 to Warning Level 5. Conditions may change suddenly.

# Destination for collection of disaster-prevention information

Homepages of government agencies	Oita Prefecture	<a href="http://www.pref.oita.jp/">http://www.pref.oita.jp/</a>
	Yufu City	<a href="http://www.city.yufu.oita.jp/">http://www.city.yufu.oita.jp/</a>
	Oita River National Highway Office; Ministry of Land, Infrastructure, Transport and Tourism	<a href="http://www.qsr.mlit.go.jp/oita/">http://www.qsr.mlit.go.jp/oita/</a>
	Oita Regional Meteorological Observatory, Japan Meteorological Agency	<a href="https://www.jma-net.go.jp/oita/">https://www.jma-net.go.jp/oita/</a>
Information on river water level, etc.	Oita Prefecture: Information on heavy rain/water level observation	<a href="http://river.pref.oita.jp/">http://river.pref.oita.jp/</a>
	Ministry of Land, Infrastructure, Transport and Tourism: River disaster-prevention information	<a href="http://www.river.go.jp/">http://www.river.go.jp/</a>
Disaster-prevention information	Ministry of Land, Infrastructure, Transport and Tourism: Disaster-Prevention Information Provision Center	<a href="http://www.mlit.go.jp/saigai/bosaijoho/">http://www.mlit.go.jp/saigai/bosaijoho/</a>
	Japan Meteorological Agency: Disaster-prevention information	<a href="http://www.jma.go.jp/jma/menu/menuflash.html">http://www.jma.go.jp/jma/menu/menuflash.html</a>
	Oita Prefecture: Information for safety and peace of mind	<a href="http://www.pref.oita.jp/site/bosaiizen/">http://www.pref.oita.jp/site/bosaiizen/</a>
	Oita Prefecture: Landslide Disaster Information Internet Provision System	<a href="http://sabo.pref.oita.jp/dosya/">http://sabo.pref.oita.jp/dosya/</a>
	Oita Prefecture: Information on locations in danger of landslide disaster Internet Provision System	<a href="http://sabo.pref.oita.jp/bousai_s/dosya_map/">http://sabo.pref.oita.jp/bousai_s/dosya_map/</a>
	Japan Coast Guard, Oita Coast Guard Division	<a href="http://www.kaiho.mlit.go.jp/O7kanku/oita/">http://www.kaiho.mlit.go.jp/O7kanku/oita/</a>



# Items to take when evacuating

Valuables	Cash, 10-yen coins	<input type="checkbox"/>	First aid equipment	Triangular bandages, bandages	<input type="checkbox"/>	Lifestyle goods, etc.	Plastic sheet	<input type="checkbox"/>
	Bank passbook	<input type="checkbox"/>		Absorbent cotton	<input type="checkbox"/>		String, duct tape	<input type="checkbox"/>
	Credit cards	<input type="checkbox"/>		Band aids	<input type="checkbox"/>		Tissues	<input type="checkbox"/>
	Health insurance card	<input type="checkbox"/>		Cold medicine, stomach medicine	<input type="checkbox"/>		Sewing set	<input type="checkbox"/>
	Driver's license	<input type="checkbox"/>	Household medicine	<input type="checkbox"/>	Toiletries	<input type="checkbox"/>		
	Documents	<input type="checkbox"/>	Emergency food and utensils	Dry biscuits, canned goods, etc.	<input type="checkbox"/>	Other	Feminine hygiene products	<input type="checkbox"/>
	Personal seal	<input type="checkbox"/>		Mineral water	<input type="checkbox"/>		Baby goods	<input type="checkbox"/>
	Keys to house, car, etc.	<input type="checkbox"/>		Eat utensils, can opener, etc.	<input type="checkbox"/>		Writing instruments	<input type="checkbox"/>
Evacuation gear	Portable radio	<input type="checkbox"/>	Clothes	Underwear	<input type="checkbox"/>		Copy of address book	<input type="checkbox"/>
	Flashlight, candles	<input type="checkbox"/>		Winter clothing	<input type="checkbox"/>		Medical record handbook	<input type="checkbox"/>
	Spare batteries	<input type="checkbox"/>		Raincoat	<input type="checkbox"/>			<input type="checkbox"/>
	Helmet	<input type="checkbox"/>	Lifestyle goods, etc.	Towels, handkerchiefs	<input type="checkbox"/>			<input type="checkbox"/>
First aid equipment	Antiseptic solution	<input type="checkbox"/>		Multipurpose knife	<input type="checkbox"/>			<input type="checkbox"/>
	Ointment	<input type="checkbox"/>		Matches, lighters	<input type="checkbox"/>		<input type="checkbox"/>	
	Poultice	<input type="checkbox"/>		Gripped work gloves	<input type="checkbox"/>		<input type="checkbox"/>	



## ■ My Family's Disaster-Prevention Notebook

My Family's Evacuation Site	
Family gathering place in an emergency	

Family name	TEL	Contact information for school, employer, etc.	Health insurance card number

## ■ List of Yufu City Designated Evacuation Sites

Yufuin Town		Kawanishi Elementary School		0977-84-2329	Naoyama Public Hall	
Facility name	TEL	Kawanishi Farming Village Exchange Center		0977-84-5022	formerly Asono Elementary School	
Tsukahara Elementary School Gymnasium	0977-85-4141	Kono Public Hall			Shonai General Sports Park	
Nuruyu-ku Public Hall	0977-84-3908	Yunohira District Public Hall (formerly Yunohira Elementary School)		0977-86-2232	Hasama Town	
Yufuin Chuo Children's Park		Yunohira Farmers Training Center			Facility name	
Sadohara Public Hall		Shonai Town			TEL	
Namiyanagi Public Hall	0977-85-4363	Facility name			TEL	
Wakasugi Public Hall		Anan Elementary School		097-582-0209	Hasama Future Hall	
Otomaru Public Hall	0977-84-4656	Anan Kindergarten		097-582-1757	Hasama Sports Center	
Otomaru Hot Spring Hall	0977-84-3573	Yufu Special Education School		097-582-0326	Hasama Junior High School	
Yufuin Elementary School	0977-84-2031	Shonai Public Hall		097-582-0214	Takimatsu Agricultural Assembly Hall	
Yufuin Health Hot Spring Hall	0977-84-4881	Otsuru Exchange Center			Nakae Municipal Public Hall	
Yufu City Yufuin Public Hall	0977-84-2604	Higashi Shonai Elementary School		097-582-0241	Tani Elementary School	
Araki Public Hall		Shonai Sports Center		097-582-1111	Honoki Agricultural Assembly Hall	
Yufuin B&G Marine Center	0977-84-2133	Yufu High School		097-582-0244	formerly Honoki Elementary School	
Ishimatsu Assembly Hall		Shonai Indoor Arena		097-582-1111	Akano Municipal Public Hall	
Yufuin Junior High School	0977-84-2026	Tatsuharu Municipal Public Hall			Maruta Public Hall	
Yufuin Welfare Center	0977-84-3610	Shonai Junior High School		097-582-0014	Sekijo Elementary School	
Higashi Ishimatsu 3 Assembly Hall		Shonai Yu-Yu Hall		097-582-0214	Kubachi Municipal Public Hall	
Nishi Ishimatsu Public Hall	0977-85-2865	Nishi Shonai Elementary School		097-582-0017	formerly Sekijo Seibu Elementary School	
Yamasaki Public Hall	0977-85-3815	Nishi Shonai Kindergarten		097-582-3040	Minami Tashiro Interactive Hall	
Nakayori Assembly Hall	0977-84-4108	formerly Seinan Elementary School			Tsume Public Hall	
Shimoyori Assembly Hall	0977-85-3868	Yufu City Hall Headquarters		097-582-1111	Yufugawa Regional Exchange Center	
Okue Farmers Training Center		formerly Minami Shonai Elementary School			Yufugawa Elementary School	

# Emergency contact

Emergency  
Police

110

Fire, first aid, ambulance  
Fire-fighting

119

Ocean incidents  
/accidents

118

		Facility name	Address	TEL
City hall		Yufu City Hall Headquarters	302 Kakiharu, Shonai-cho, Yufu-shi	097-582-1111
		Yufu City Hall Hasama Branch	128-1 Mukainoharu, Hasama-cho, Yufu-shi	097-583-1111
		Yufu City Hall Yufuin Branch	3738-1 Kawakami, Yufuin-cho, Yufu-shi	0977-84-3111
Fire-fighting		Yufu City Fire Department	278 Hasama, Hasama-cho, Yufu-shi	097-583-1500
		Yufu City Fire Department, Shonai Branch	306-1 Kakiharu, Shonai-cho, Yufu-shi	097-582-0119
		Yufu City Fire Department, Yufuin Branch	3066-1 Kawakami, Yufuin-cho, Yufu-shi	0977-85-2355
Police		Oita Minami Police Department	2212-1 Oaza Yokose, Oita-shi	097-542-2131
		Oita Minami Police Department, Hasama Police Substation	332-1 Mukainoharu, Hasama-cho, Yufu-shi	097-583-0200
		Oita Minami Police Department, Sekijogawa Police Substation	20-1 Kubachi, Hasama-cho, Yufu-shi	097-583-3270
		Oita Minami Police Department, Shonai Police Substation	432-3 Higashi Choho, Shonai-cho, Yufu-shi	097-582-0310
		Oita Minami Police Department, Shonai Nishi Police Substation	841-5 Shonaibaru, Shonai-cho, Yufu-shi	097-582-0380
		Oita Minami Police Department, Yufuin Executive Police Post	3499-1 Kawakami, Yufuin-cho, Yufu-shi	0977-84-2131
Utilities	Electricity	Kyushu Electric Power, Oita Office	3-4 2-Chome, Kanaike-cho, Oita-shi	0120-986-504
		Kyushu Electric Power, Beppu Office	4-33 Mochi-ga-Hama-cho, Beppu-shi	0120-986-503
		Kyushu Electric Power, Hita Office	586-1 Tamagawa-cho, Hita-shi	0120-986-502
	Water	Yufu City Water Section	2nd Floor, Headquarters New Building	097-582-1328
	Telephone	NTT West Japan, Oita Branch	3-15-7 Nagahama-cho, Oita-shi	Landline telephone : 113 (no area code) Hikari Denwa, mobile phone, PHS : ☎0120-444113
	Gas*			

\*In the contact info for "gas" under utilities, please enter the contact info of the gas company used by each household.

## Use the Disaster Emergency Message Dial

### Example of how to use the Disaster Emergency Message Dial by NTT West Japan

Dial "171" and follow the guidance for use to record or play back messages.

In the wake of a severe disaster such as an earthquake or flood, the number of telephone calls increases dramatically, resulting in difficulties in connection which can last for several days. The Disaster Emergency Message Dial is available in such cases. Disaster Emergency Message Dial is a telephone service that serves as a voice mail service (for confirming safety) in the event of a large-scale disaster. The service can be used by people within the disaster area and other areas to record and play back messages.

\*Priority service is given to public telephones in the event of a disaster.



Be sure to remember the number "171" for the Disaster Emergency Message Dial. After you dial "171," a voice prompt is played. Follow the guidance to record or play back messages. (\*The service can only be used when a disaster has occurred.)

In addition to the Disaster Emergency Message Dial, NTT West Japan also provides the Disaster Emergency Message Board (web171) for registering and viewing message information (text). When a large-scale disaster has occurred, people living in the disaster area can use web171 to access a message board website on the internet and register message information (text) using their telephone number as a key. Using the telephone number as a key, people in other regions can view the registered message information and register additional methods.

For detailed information on the usage method, please contact your contracted telephone provider.

NTT West Japan Disaster Emergency Message Dial (171)	<a href="http://www.ntt-west.co.jp/dengon/">http://www.ntt-west.co.jp/dengon/</a>
NTT Docomo Disaster Message Board Service	<a href="https://www.nttdocomo.co.jp/info/disaster/disaster_board/">https://www.nttdocomo.co.jp/info/disaster/disaster_board/</a>
au Disaster Message Board Service	<a href="https://www.au.com/mobile/anti-disaster/saigai-dengon/">https://www.au.com/mobile/anti-disaster/saigai-dengon/</a>
SoftBank Disaster Message Board Service/Disaster Voice Messaging Service	<a href="https://www.softbank.jp/mobile/service/dengon/">https://www.softbank.jp/mobile/service/dengon/</a>

# Knowledge of disaster-prevention

## Attitude in advance

### Confirm the safety evacuation route



Decide in advance on your own route (evacuation route) to the evacuation location. Confirm that you can travel safely.

### Participate in evacuation drills



Actively participate when evacuation drills are held.

### Prepare emergency food



At the very least, prepare about 3 days of food for your family.

## Knowledge at the time of evacuation

### Collect accurate information and take the initiative to evacuate



Use your radio and television to obtain the latest weather information, disaster information, and evacuation information. Pay attention to rainfall and flooding. Take the initiative to evacuate if you sense danger.

### Pay attention to calls for evacuation



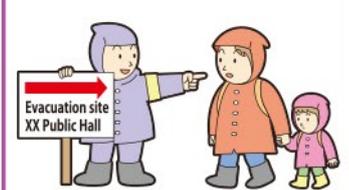
If conditions become dangerous, city hall or the fire department may call for evacuation. If a call for evacuation is issued, please evacuate quickly.

### Actions to take before evacuating



Before evacuating, turn off electricity, gas, and other fire sources, and check the evacuation site. Also, inform your family and friends that you are evacuating.

### Please evacuate quickly



If conditions become dangerous, an evacuation advisory or other warning will be issued. Please evacuate quickly. When evacuating, please follow the instructions of police, etc.

### Do not evacuate by car



Evacuating by car will interfere with emergency vehicles. Evacuating by car can also cause traffic jams, making it impossible to move when it floods. Therefore, except for special cases, please evacuate on foot.

### At the evacuation site



At the evacuation site, please follow the instructions of city employees or fire-brigade members. Information on flood conditions and other information will be transmitted from the radio, television, and city. Please remain calm when taking action.

### If it is too late to evacuate



If you are in danger, please evacuate to the second floor or higher of a sturdy nearby building. In the event of an emergency, please help each other.

## If someone needs to be rescued

### Elderly or sick person



If immediate action is required, use a rope or other item to carry the person on your back to a safe location.

### Blind person



First, call out to the blind person. When guiding a blind person using a cane, do not touch their hand. Instead, gently hold their elbow and walk slowly a half-step in front of them.

### Deaf person



Walk closely to the deaf person, look them directly in the face, and move your lips clearly and slowly when speaking. Or, write use a pen and paper.

### Physically-disabled person



Confirm the appropriate method of guidance for each person. Be careful not to scare the person.

# Things you should know

## Approximate amount of rainfall

				
<b>Slightly strong rain</b> 10 to 20 mm of rain in one hour	<b>Strong rain</b> 20 to 30 mm of rain in one hour	<b>Torrential rain</b> 30 to 50 mm of rain in one hour	<b>Extreme torrential rain</b> 50 to 80 mm of rain in one hour	<b>Severe rain</b> Rain of more than 80 mm in one hour
Puddles exist across the entire surface of the ground. It becomes difficult to hear spoken voices. Caution is required when it appears that rain will last for a long period of time.	Heavy rain. Rain which gets you wet even if you use an umbrella. Sewage overflows, small rivers overflow, and there is the danger of landslides.	Torrential rain pouring down like buckets have been turned over. It is easy for landslides to occur and cliffs to collapse. Traffic restrictions are enforced. Prepare to evacuate.	Rain like a waterfall. The surrounding area appears white due to splashing. Small- and medium-sized rivers overflow. The danger of flooding increases.	There is a feeling of oppression as if it is difficult to breathe. People feel fear. There is a higher risk of large-scale disaster due to rain. Extreme caution is required. It is extremely dangerous to drive a car.

## Classifying the size and intensity of typhoons

### Size of typhoon

\*According to the Japan Meteorological Agency

Class	Radius of windspeed 15 m/s or faster
Strong Typhoon (large)	500 km to less than 800 km
Very Strong Typhoon (extremely large)	More than 800 km

### Intensity of typhoon

\*According to the Japan Meteorological Agency

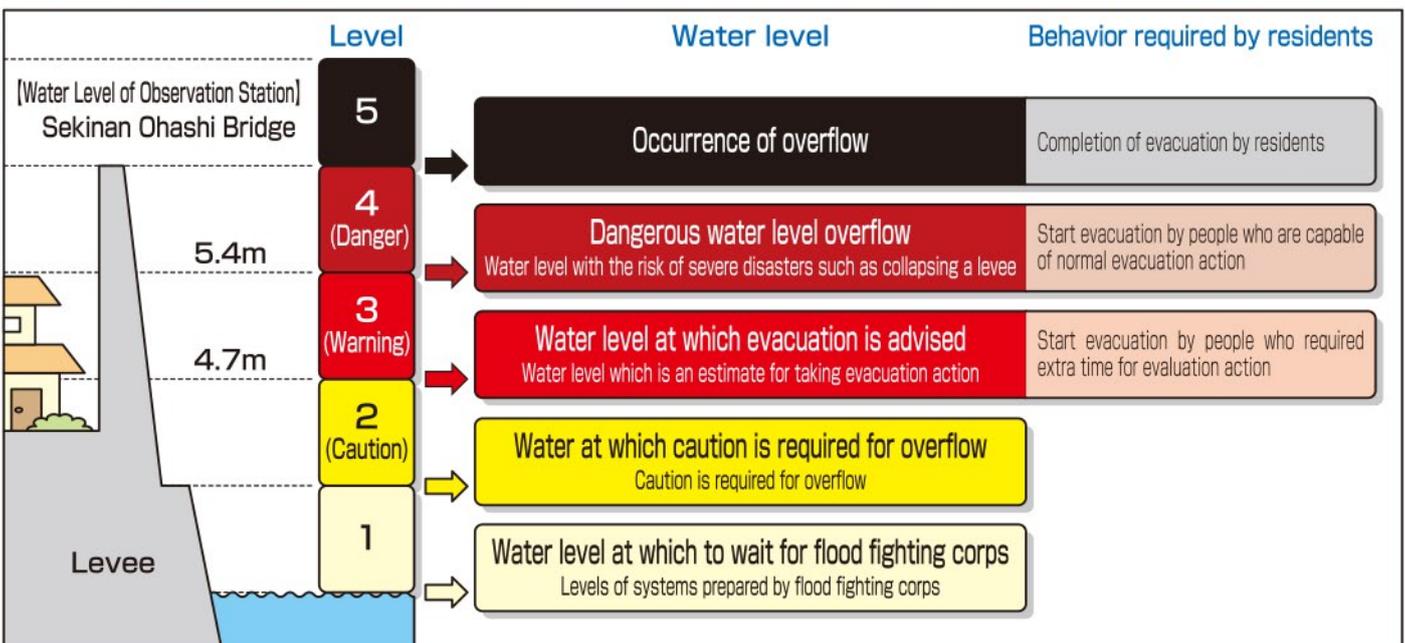
Class	Maximum Sustained Wind <sup>1)</sup> (m/s)
Typhoon	17.2 m/s to less than 32.7 m/s
Strong Typhoon	32.7 m/s to less than 43.7 m/s
Very Strong Typhoon	43.7 m/s to less than 54.0 m/s
Violent Typhoon	54.0 m/s or higher

1) Maximum sustained wind is the maximum wind speed for a 10-minute mean.

				
<b>Wind Speed<sup>2)</sup> 10 m/s or higher</b> Difficult to walk facing the wind.	<b>Wind Speed 15 m/s or higher</b> Greenhouses and similar structures begin to break.	<b>Wind Speed 20 m/s or higher</b> Shutters begin to break. Glass is shattered due to objects being blown by the wind.	<b>Wind Speed 25m/s or higher</b> Concrete-block walls begin to break.	<b>Wind Speed 30 m/s or higher</b> Roofs are blown off and entire wooden homes collapse.

2) Wind speed is the wind speed for a 10-minute mean.

## Danger level depending on the water level of rivers



Information on river water levels can be obtained from the internet.

Oita Prefecture: Information on heavy rain/water level observation...<http://river.pref.oita.jp/>

# Cautions when evacuating

## If evacuation information is announced, evacuate immediately!!

- If evacuation information is announced by the city, please evacuate immediately.
- Gather information via the TV, radio, internet, etc., and evacuate immediately.
- You can walk in water is knee-deep or lower. If the current is fast, even water that is 20 cm deep can be dangerous. Flooded roads are extremely dangerous. Therefore, please evacuate immediately.



If the area around your house is flooded and you feel that evacuating to the designated evacuation site or other outside location is dangerous, go to the second floor or higher of the building that you are in.



Please evacuate before the roads are flooded.

### When forced to evacuate in flooded conditions



- There are many dangerous objects under the water surface; for examples, drains, irrigation channels, uneven roads, man-holes, etc. Use a long rod as a cane in order to confirm safety while you walk.



- Grasp the rope firmly so that you will not be separated when evacuating. In particular, never take your eyes off your children.

- Bare foot and rubber boots are prohibited. Sneakers with laces are easy to walk.

Rubber boots are prohibited! Wear sneakers!



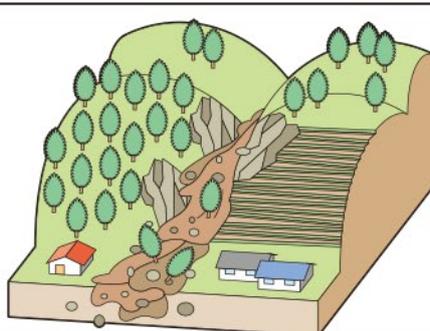
It is extremely dangerous to evacuate when the roads are flooded. Please evacuate before roads are flooded.

## Be careful of landslides when evacuating



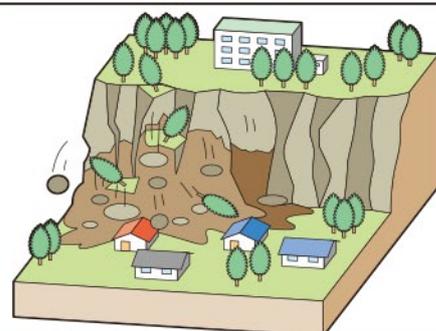
Landslide

- Cracks appear in the ground.
- Well water and creek water are cloudy.
- Water spouts out of cliffs and slopes.



Debris flow

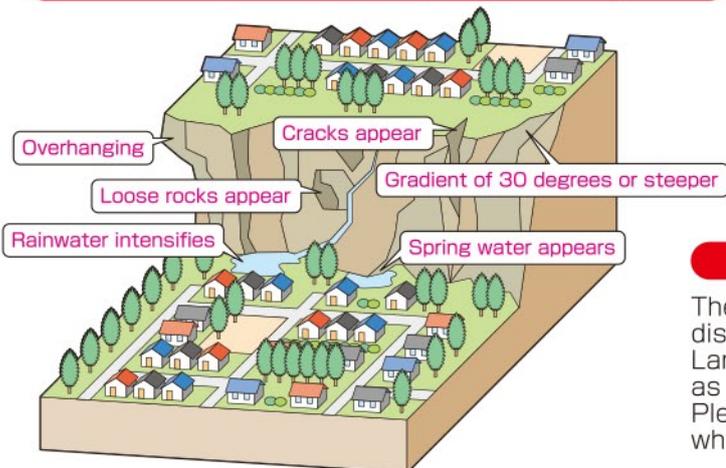
- The mountain rumbles.
- The water level of a river lowers even though the rain continues.
- The river becomes cloudy and driftwood appears.



Collapse of cliffs

- Water from cliffs is cloudy.
- Cracks appear in the cliff.
- Small stones fall.
- Sounds are emitted from the cliff.

At such times, these kinds of places are dangerous!



These signs require special caution!

These kinds of signs are erected in regions where there is the risk of landslides. Please check if these signs are located near your house.

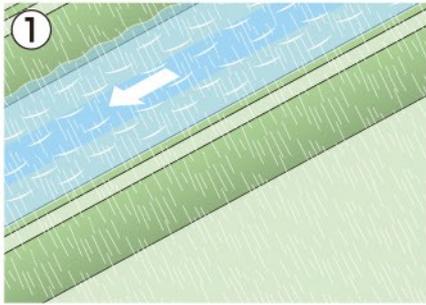


### Information on landslides

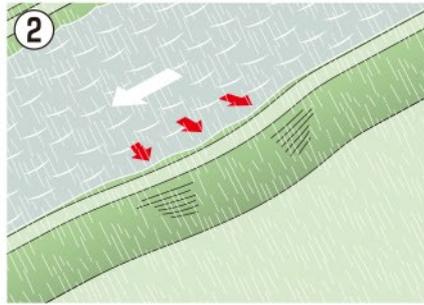
The Landslide Evacuation Awareness-Raising Map is distributed to homes in municipalities where there are Landslide Disaster Warning Areas. (Maps will be distributed as necessary if new areas are designated in the future.) Please check in advance for locations around your home where there is the danger of landslide disasters.

# Why do floods occur?

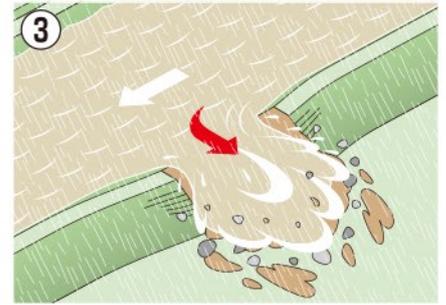
## Mechanism of river overflow



1 Heavy rain causes the amount of water in a river to increase and the water level begins to rise.



2 Once the water level rises to the tip of a levee constructed of earth, the water pressure begins to act upon the levee.



3 The water level rises. Once the levee can not longer withstand the water pressure, a portion of the levee begins to crumble.



4 Water flows vigorously from the broken levee and flows toward homes.



5 In some locations, water flowing from the levee destroys homes, washes away homes and cars, while the flood contains to expand. When water overflows, the depth of the water increases suddenly and walking becomes difficult.

Please evacuate before these conditions occur.

## Mechanism of inundation within a levee



1 After rain falls in a town, the water is discharged to rivers from water channels, sewage pipes, etc.



2 When heavy rain falls, the level of water rises. Instead of water being discharged to rivers, small rivers, sewage pipes, etc., fill up and overflow.

Caution is required by people living near a river.

## Overflow for other reasons



Also, when heavy rain falls, roadside drains become clogged, puddles form on low sections of the road, and overflow occurs. Furthermore, also be cautious of flooding on roads (underpasses) which are low due to multi-level crossing.