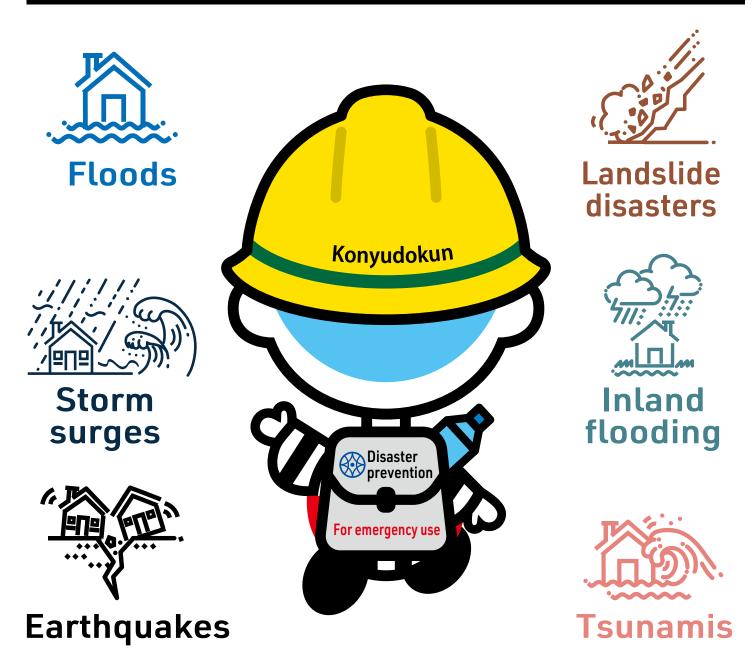
Disaster Prevention Hazard Map

Yokkaichi City BOSAI Hazard MAP





Start from now to protect your own life.

Know. Think. Prepare.

Step 1: Know



Step 2: Think



Know disaster risks.

Yokkaichi City is also at risk of disasters, such as wind and flood damage (floods, landslide disasters, storm surge, and inland flooding), earthquakes, and tsunamis.



Know about the measures and information to protect lives.

The response to protect lives is different for each type of disaster, such as wind and flood damage (floods, landslide disasters, storm surges, inland flooding), earthquakes, and tsunamis.



Consider measures to protect your life and those of your family members.

Wind and flood damage (floods, landslide disasters, storm surges, and inland flooding) is a disaster that can be prepared for by obtaining information in advance.

On the other hand, earthquakes occur suddenly.

Using the hazard map, think about what you can do to protect yourself and your family.





On a regular basis

Know on your own, with your family, and in your community. Think. Prepare.









It is important to learn about the disasters that are expected to occur around you, consider the necessary responses according to the individual situation, and prepare on a daily basis to respond to them in order to protect your life from disasters.

Step 3: Preparation

Preparing necessities including food

Supplies in the evacuation shelter are limited.

In the event of a disaster, lifelines such as electricity, water, and gas may be cut off



Preparation in your home

Check for dangerous areas in your home and what you can do to prepare for flooding, and take countermeasures.





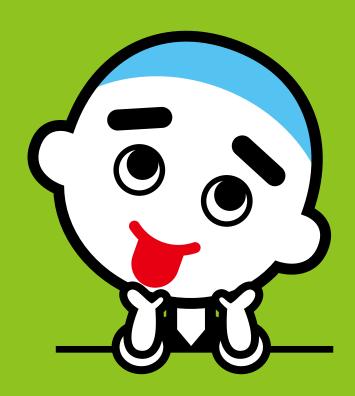
Take action to save lives



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Know



What disaster risks are expected in Yokkaichi City?

Yokkaichi City is also at risk of disasters such as wind and flood damage (floods, landslide disasters, storm surge, and inland flooding), earthquakes, and tsunamis.

Awareness map

→ Pages 5 to 6

Q When and where to evacuate?

Appropriate evacuation methods vary depending on the type of disaster and the circumstances of you, your family, your home, and the surrounding area.

Know what to do to save

 \rightarrow Pages 7 to 8

Q What information is available to save lives?

Information that will trigger evacuation, such as information urging evacuation, weather information, and river water level information, will be announced by various organizations. Let's actively collect information and take action.

Information to save lives

- \rightarrow Pages 9 to 10
- How to obtain information
- → Pages 11 to 12
- **Q** What kind of disaster is wind and flood damage?

Wind and flood damage is a disaster caused by typhoons, heavy rain, etc. Floods, landslide disasters, storm surge, and inland flooding are expected in Yokkaichi City.

Basic knowledge of wind and flood damage

→ Pages 13 to 14

Q How to protect your life from wind and flood damage?

Wind and flood damage (floods, landslide disasters, storm surge, inland flooding) is a disaster that can be prepared for by obtaining information in advance.

Check the disaster risk around your home to confirm where to evacuate and what information to use to begin your evacuation.

Know about floods

→ Pages 15 to 16

Know about landslide disasters

 \rightarrow Pages 17 to 18

Know about storm surge

→ Pages 19 to 20

Know about inland flooding

 \rightarrow Pages 21 to 22

Q How to protect your life from earthquakes and tsunamis?

Since it is not possible to obtain information in advance in case of an earthquake, it is important to learn how to protect yourself from the shaking.

Tsunamis can also occur due to earthquake shaking. Learn the actions to take to protect your life from a tsunami and the information that will be announced. Basic knowledge of earthquakes and tsunamis

→ Pages 23 to 24

Know about earthquakes

→ Pages 25 to 26

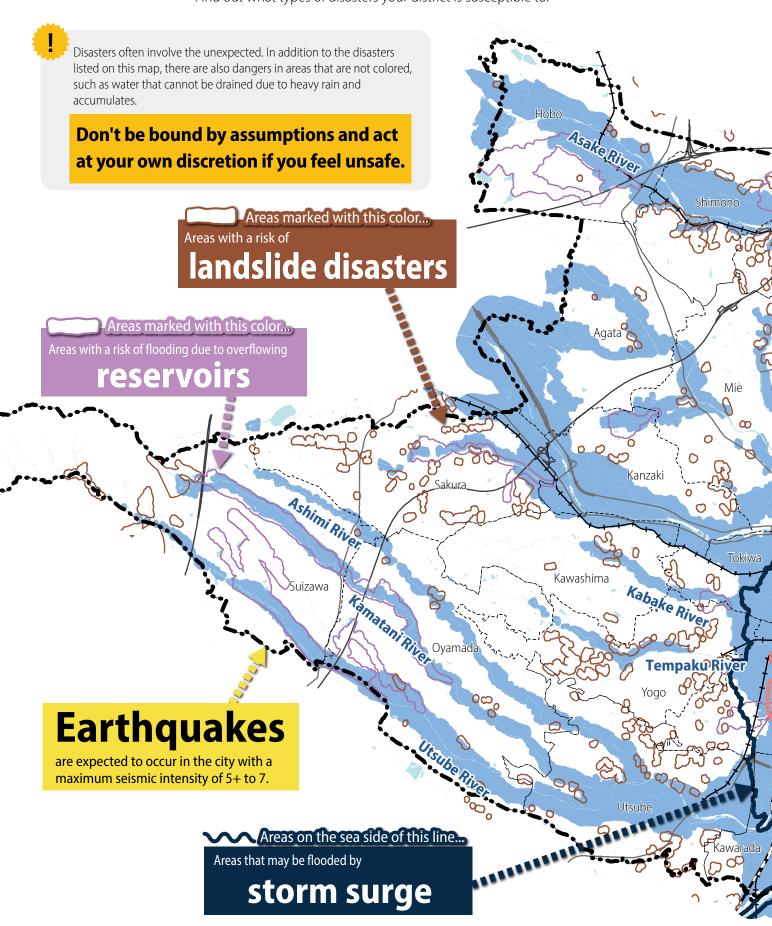
Known about tsunamis

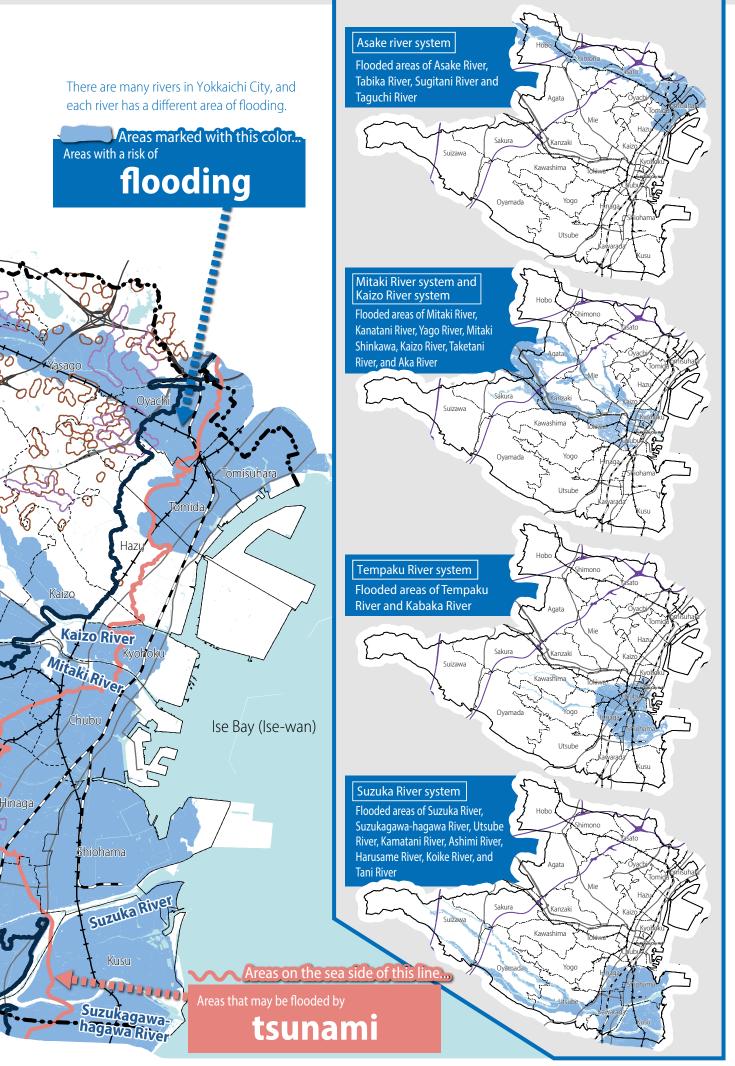
→ Pages 27 to 28

Awareness map

This map shows what kinds of assumed disaster risks exist in Yokkaichi City, based on the estimated flood inundation zone map, landslide disaster warning zone, tsunami flooding zone map, storm surge flooding zone map, and reservoir hazard map.

Find out what types of disasters your district is susceptible to.



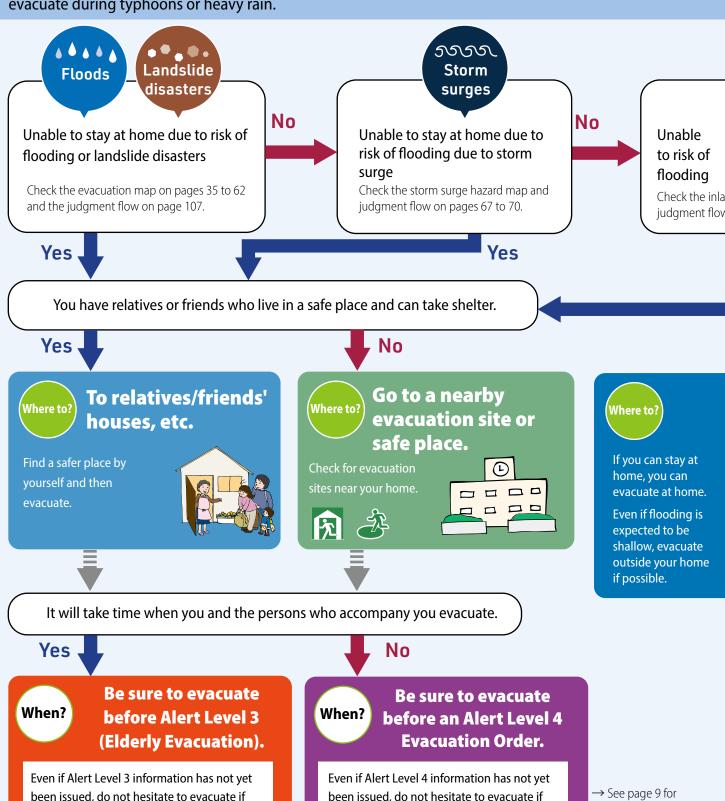


When to evacuate? Where?

Know what to do to save lives

When there is a risk of wind and flood damage due to a typhoon

Those who are living in areas where there is a risk of flooding, landslide disasters, or storm surge need to evacuate during typhoons or heavy rain.



vou feel anxious or can evacuate sooner.

evacuation

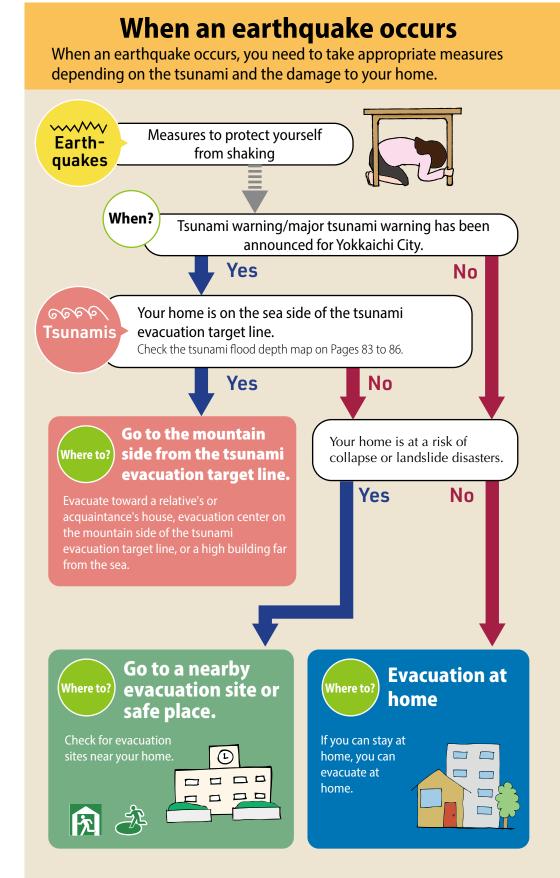
information and alert

7

vou feel anxious or can evacuate sooner.

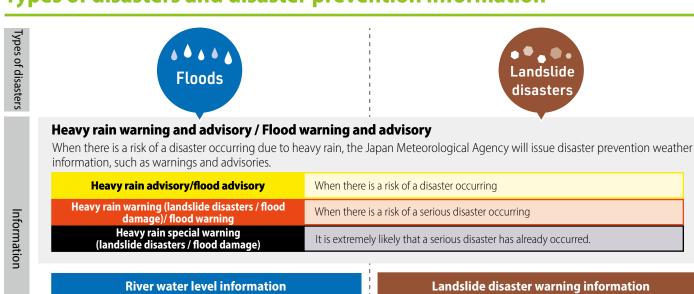
The timing and destination of evacuation will vary depending on the disaster situation. Look at the hazard map and check your evacuation response.

or heavy rain /////// Inland flooding to stay at home due flooding or inland nd flood hazard map and on pages 73 to 76. Yes No **Evacuation** at home



Information to save lives

Types of disasters and disaster prevention information



Flood forecasts that tell you the status of river water levels and future prospects

Information calling for vigilance when a life-threatening landslide disaster could occur at any time after the announcement of a heavy rain warning (landslide disaster)

lt is very dangerous to evacuate through flood

water.

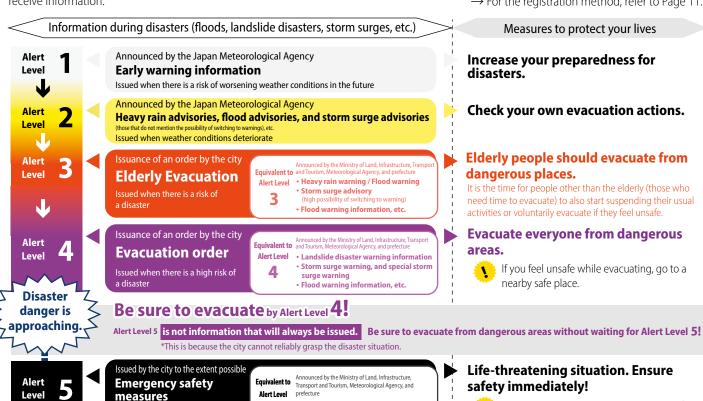
Evacuation information

When evacuation is necessary, the city will issue evacuation information.

Issued when a disaster is actually

occurring or is imminent

Be sure to register in advance with the **Yokkaichi City S-Alert** and **Yokkaichi City Safety and Security Disaster Prevention Emails** to receive information. → For the registration method, refer to Page 11.



* Information may not necessarily be released in this order depending on the target river and the progress of the disaster situation. It is important to respond flexibly depending on the situation.

Flood occurrence information

• Heavy rain special warning, etc.



Storm surge warning/advisory

The Japan Meteorological Agency will issue an announcement when a typhoon causes sea levels to rise and there is a risk of coastal disasters.

Storm surge advisory What is not mentioned in the possibility of switching to a warning	When there is a risk of a disaster occurring
Storm surge advisory What is mentioned in the possibility of switching to a warning	When there is a risk of a disaster occurring
Storm surge warning	When there is a risk of a serious disaster occurring
Storm surge special warning	It is extremely likely that a serious disaster has already occurred.

Tide level observation information

Information that instantly displays the latest real conditions from 6 days ago and forecasts until tomorrow at tide level observation points across the country



Earthquake early warning

Immediately after the occurrence of an earthquake, information to be provided as quickly as possible to predict the arrival time and intensity of strong shaking in various places



Information about tsunamis

If a tsunami disaster is expected to occur after an earthquake, warnings and advisories will be issued.

<Actions to be taken by everyone>

Tsunami advisory

Anyone in the sea must immediately get out of the sea and move away from the shore.

Tsunami warning People in coastal areas or along rivers must immediately evacuate to safe locations, such as higher ground and evacuation buildings.

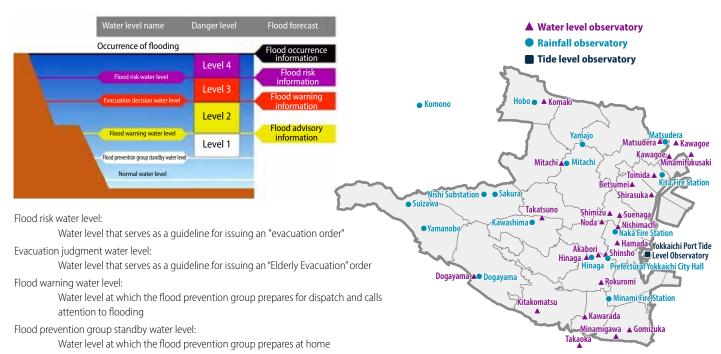
Major tsunami warning (special warning) People in coastal areas or along rivers must immediately evacuate to safe locations, such as higher ground and evacuation buildings.

Information on river water level, rainfall, and tide level

 \rightarrow How to obtain information is on Pages 11 to 12.

River water levels, rainfall, and tide levels are monitored In Yokkaichi City. If there is a high possibility of river flooding or flooding, confirm the river water level.

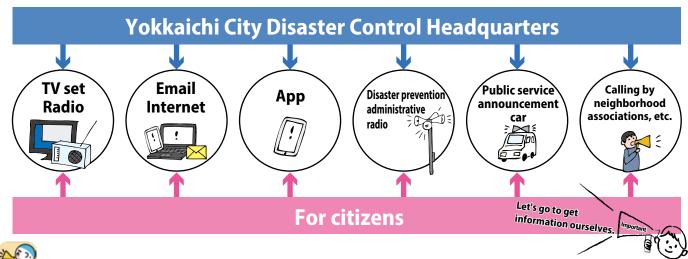
 \rightarrow Check Page 12 for confirmation method.



How to obtain information

How to convey information

Information about evacuations and disasters can be obtained in many ways. Be proactive in obtaining information yourself.



Yokkaichi City S Alert

Receive by app

Download the app with a QR code.

You can obtain evacuation information etc. provided by Yokkaichi City.





Radio Cube FM Mie 78.9MHz

iPhone, iPad

Android

$\geq \leq$

Receive by **email**

Yokkaichi City Safety and Security Disaster Prevention Mail

Let's pre-register.

You can obtain disaster prevention information etc. provided by Yokkaichi City.

To register, please read the QR code on the right, click "Send blank email", and follow the instructions in the email you receive.

[Click here for feature phones (flip phones).]





Smartphone, PC

Feature phone



Check by **phone**

Disaster prevention siren / audio broadcast confirmation dial

Automatic telephone answering is available to check the contents of sirens and audio broadcasts.

TEL 059-351-4004

URL https://m.sugumail.com/m/yokkaichi/home

Emergency alert email (area mail)

URL https://plus.sugumail.com/usr/yokkaichi/home

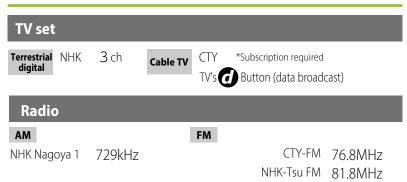
No registration required

Information such as evacuation orders is sent to compatible mobile phones via "Emergency alert email (area mail)."

*Some models may not be compatible. Please contact your mobile phone company for details.



Check on TV/Radio





Check via the Internet

Yokkaichi City disaster prevention information

You can see disaster prevention information etc. provided by Yokkaichi City.



URL https://bousai2.city.yokkaichi.mie.jp/



Check via the Internet

Weather information, rainfall, river water level, tide level information

Yokkaichi City disaster prevention weather information

Weather in Yokkaichi City, announcement status of various advisories and warnings, rainfall, river water level observation data, etc.

URL https://yokkaichi-city.bosai.info/



Disaster Prevention Mie.jp

Weather in Mie Prefecture, announcement status of various advisories and warnings, rainfall, river water level observation data, etc.

URL https://www.bosaimie.jp



CTY-NET Online

Live camera footage of Mitaki River, Kaizo River, Kabake River, etc. (updated every minute)

Nttps://www.cty-net.ne.jp/ *An app is required for smartphones. Download the app with

River disaster prevention information by the Ministry of Land, Infrastructure, Transport and Tourism

Weather advisories and warnings, typhoon information, earthquake and tsunami information, etc.

URL https://www.river.go.jp



River water level information (crisis management type water level gauge) (Foundation of River & Basin Integrated Communications, JAPAN)

Observed values of crisis management water level gauges, etc.



URL https://k.river.go.jp

Environment of Yokkaichi Port (Yokkaichi Port Authority)

Current tide level of Yokkaichi Port, etc.

URL http://www.yokkaichi-port.or.jp/yp-environment/index.html

Japan Meteorological Agency

Weather advisories and warnings, typhoon information, earthquake and tsunami information, etc.

URL https://www.jma.go.jp



Check the surrounding rain and danger level using Kikikuru (risk distribution).

When a warning is announced, you can check where the risk of landslide disasters, food damage, and flood disasters is increasing.



Public GIS (disaster prevention information)

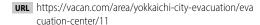
This system can provide a variety of digitized map information in an easy-to-understand manner.

URL https://bousai2.city.yokkaichi.mie.jp/hazard-map/hm-03/



Evacuation center congestion information site "VACAN"

You can check the availability and congestion status of each designated evacuation shelter.





Yokkaichi City Regional Disaster Prevention Plan [Data collection]

You can check a list of designated emergency evacuation sites, facilities for people requiring special consideration, underground shopping malls, etc. in zones expected to be flooded due to wind and flood damage.

URL https://bousai2.city.yokkaichi.mie.jp/plan-document/local-disaster-prevention-plan/etc-04/





Check with the app.

Yokkaichi City AR disaster prevention learning app "ARLook" Download the app with a QR code.

If you "walk" and "look at" areas by holding up your camera or smartphone, you can see nearby evacuation shelters and the flood depth at the current location displayed using AR technology.





iPhone, iPad

Android

Basic knowledge of wind and flood damage

In recent years, unprecedented disasters caused by typhoons and heavy rain have frequently occurred across the country. This situation is expected to increase further in the future due to factors such as global warming.



lse Bay Typhoon in 1959 (Showa 34) Tomitaisshiki coastal area destroyed by wind and storm surge



Localized torrential downpours in July 1974 (Showa 49) Near Hinaga1-/2-chome

How do typhoons and heavy rain occur?

When a low pressure system accompanied by a typhoon or a front passes near Japan, or when the front is stationary, it can cause heavy rain over a wide area. In addition, it is necessary to pay attention not only to rain but also to strong winds and storm surge during typhoons.

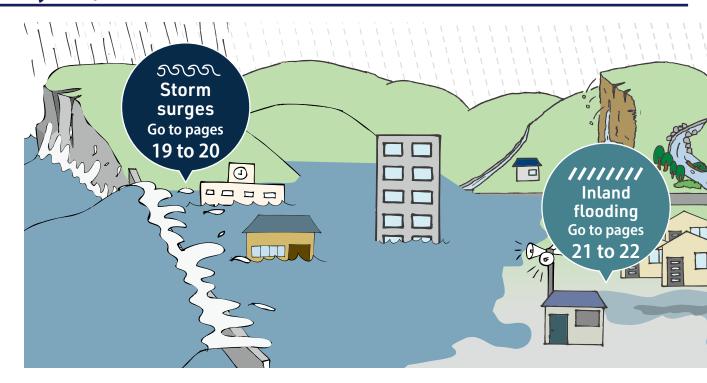
Typhoon

Since rising air currents are likely to occur over tropical oceans with high sea surface temperatures, these air currents cause many cumulonimbus clouds to form one after another and to form a vortex. When such a vortex has developed, it is called a typhoon. Typhoons often occur over the ocean near the equator.

Heavy rain due to a front

The place where warm air and cold air meet is called a front. At a front, clouds form due to rising air currents due to temperature differences, making it easier for rain to fall near the front. Clouds form at a front due to rising air currents caused by temperature differences, making it easier for rain to fall near the front. During the rainy season, etc., the forces of warm air and cold air become equal and stay in the same position, making it easier to experience long periods of rain.

Types of wind and flood damage (disasters caused by typhoons and heavy rain)



Rain intensity and how it falls

Rain intensity (forecast term)

Somewhat heavy rain

Hourly rainfall (mm/hour) Less than 10 to 20 mm



Puddles form all over the ground.

Heavy rain

Hourly rainfall (mm/hour) Less than 20 to 30 mm



- Get wet even with an umbrella
- Difficult to see even with the wipers at high speed

Torrential rain

Hourly rainfall (mm/hour) Less than 30 to 50 mm

The road becomes like

Rain like an overturned

a river.

bucket

Very heavy rain





- Umbrellas are completely useless.
- Driving a car is dangerous.
- Rainwater flows underground.



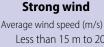
Feeling pressure or fear that makes it difficult to breathe

Wind strength

Wind strength (forecast term)

Slightly strong wind

Average wind speed (m/s) Less than 10 m to 15 m



Very strong wind

Average wind speed (m/s) Less than 20 m to 25 m

Very strong wind

Fierce wind



- Difficult to walk against the wind
- When driving at high speed, you feel like you are being swept away by a crosswind.

Less than 15 m to 20 m



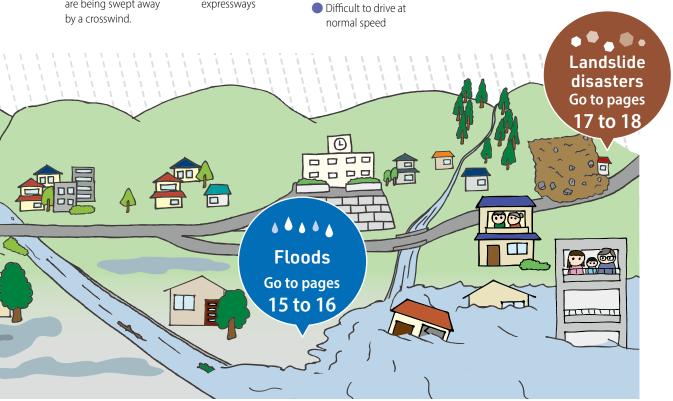
- Some people cannot walk towards the wind and fall down.
- Difficult to drive on expressways
- Cannot stand without holding onto something
- There is a risk of injury from flying objects.



- Activities outdoors are extremely dangerous.
- A running truck rolls over.



- Many trees fall down.
- Block walls and houses begin to collapse.





Know about floods



Heavy rain falls due to a typhoon or a stagnant front, causing river embankments to break or rivers to overflow.



Rivers flowing through Yokkaichi City

Yokkaichi City has many rivers, such as Asake River, Kaizo River, Mitaki River, Kabake River, Tempaku River, Utsube River, and Suzuka River.

In the past, the city has suffered from many flood disasters, including river flooding due to typhoons and heavy rain.

Since there is a risk that rivers may flood due to the effects of climate change, etc., estimated flood inundation zone maps have been published for many of the city's rivers.



Actions to Early evacuation save lives

Be sure to evacuate from dangerous places at

Alert Level 3 (Elderly Evacuation) Or at Alert Level 4 (evacuation order)

If heavy rain is expected due to the approach of a typhoon or a low-pressure system, avoid approaching dangerous areas and evacuate to areas with less risk of flooding as soon as possible. Evacuation to a relative's or friend's house is



a relative's house, acquaintance's house, or an evacuation center outside the flooded area as an evacuation shelter.



Points for evacuation

Evacuate early and give yourself a lot of time to spare.

It is dangerous at night because visibility is poor and sounds are difficult to hear. If a typhoon is approaching or heavy rain is expected to continue, evacuate early before it gets dark.



Consider the dispersion of evacuation by evacuating to places other than evacuation centers.

The number of people that can be accommodated at the evacuation center is limited. From the perspective of preventing infectious diseases, each person should secure an evacuation site, such as a relative's or acquaintance's house or a private accommodation facility, in an area with a low risk of flooding.

What has to be taken care of during evacuation



The water becomes muddy and it is difficult to see your feet. It is dangerous to fall into manholes or gutters with lids removed.



Avoid driving on roads that are lower than the surrounding area and prone to flooding, such as underpasses under elevated tracks.



In some zones, the force of the floodwaters is so strong that buildings may be destroyed or washed away. Evacuate as soon as you hear evacuation information.

Actions to save lives

If it is too late to evacuate...

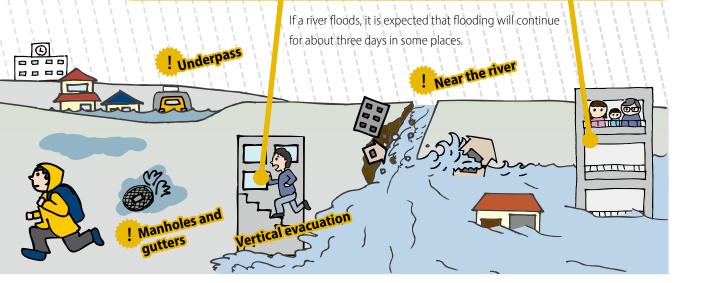
Go to a tall and durable building where you can stay in even after flooding, or a high place in your home.

Walking through flood water is dangerous. If it is too late to evacuate, protect yourself in the safest place depending on the situation.



Look for tall buildings, high places outside, high places in your home, or safe places nearby to evacuate.

Make a judgment by using the evacuation map on Pages 33-62.





Know about landslide disasters

What is a landslide disaster?

Disasters triggered by heavy rain or earthquakes that cause mountains and cliffs to collapse and soil and stones mixed with water to flow out through rivers



Types of landslide disasters

Landslip (collapse of steep slope)

Water seeping into the ground loosens the slope, causing it to collapse suddenly due to the effects of rain, earthquakes,



Landslide disasters are divided into three types. If precursor phenomena of a disaster are seen before it occurs, it is important to evacuate to a safe place as soon as possible.

Debris flow

Rocks and soil on mountainsides and riverbeds are washed downstream all at once by long rains or localized torrential downpours.

Precursor phenomena

 Despite continuous rainfall, the river The mountains water level is falling. The river suddenly becomes muddy and driftwood is mixed in.

Landslide

Slow sliding of the ground over a wide area due to the influence of groundwater, etc.

Precursor phenomena

Water from streams and wells becomes

Ćracks appear in the ground.

Water gushes out from the

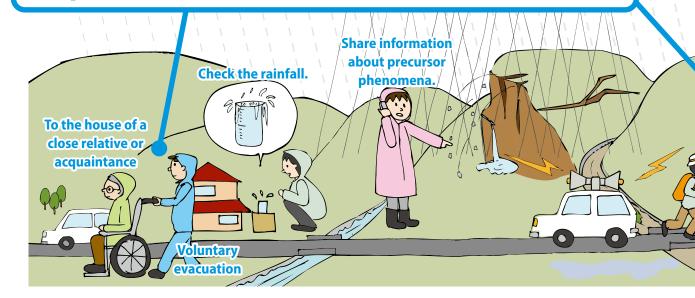
Early evacuation

Be sure to evacuate from dangerous places at

Alert Level 3 (Elderly Evacuation) Or at Alert Level 4 (evacuation order)

Landslide disasters are a phenomenon in which it is extremely difficult to issue evacuation information. Pay attention to rain and precursor phenomena, and seize an opportunity to voluntarily evacuate even if there is no

a relative's house, acquaintance's house, or an evacuation center in an area with low risk of floods and landslide disasters as an evacuation shelter.



Points for evacuation

Decide on evacuation rules in your community and family.

If you discover signs of a landslide, it is important to share information with those around you and begin evacuation. Be sure to decide where to evacuate and how to share information.

You need to be careful even after the rain has stopped.

The rain that has fallen so far remains in the soil. Even if the rain has stopped, be careful while a heavy rain warning is issued, as landslides may occur.



Landslide disaster warning zone and landslide disaster special zone

As zones where landslides are likely to occur, Mie Prefecture has designated landslide disaster warning zones and landslide disaster special warning zones depending on the degree of risk. In addition, zone designation is being carried out sequentially.

Landslide disaster warning zone (yellow zone)

This is a zone where there is a risk of landslide disasters, and it is recognized that landslide disasters may cause a risk of danger to the lives or bodies of residents.

Landslide disaster special warning zone (red zone)

This is a zone where there is a risk of landslide disasters, and it is recognized that landslide disasters may cause a risk of damage to buildings and serious harm to the lives or bodies of residents.



Know about storm surge

What is storm surge?

A phenomenon in which the sea level rises and the sea surges due to a typhoon, low pressure, etc.



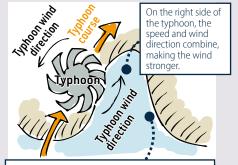
Typhoon size and impact on storm surge

When a typhoon approaches and the atmospheric pressure decreases, the sea level will rise by approximately 1 cm for every 1 hPa of pressure drop. For example, when a typhoon approaches and the atmospheric pressure goes from 1000 hPa to 950 hPa, the sea level rises by 50 cm. In particular, when a typhoon moves northward on the west side of a bay that opens to the south, strong winds blow from the south, which can cause major damage by storm surge.

(hPa: Hectopascal)

Typhoon size

The size of typhoons is classified by the radius of wind speeds of 15 m/s or more



High waves from storm surges are more likely to hit south-facing bays and deep bays.

_	Class	Maximum wind speed
	Strong	33 m/sec to 44 m/sec
	Very strong	44 m/sec to 54 m/sec

Typhoon strength is classified by maximum

Typhoon strength

wind speeds.

Fierce

ec ec

Class Radius with wind speed of 15 m/s or more
Large type (large) 500 km to less than 800 km
Super large type (very large) 800 km or more

Actions to save lives

Early evacuation

54 m/sec or more

Before the typhoon approaches and the winds get stronger, be sure to evacuate from dangerous places at

Alert Level 3 (Elderly Evacuation) or at Alert Level 4 (Evacuation order)

When typhoon winds are strong, going outdoors can be very dangerous. Evacuate early before the wind gets stronger.

Look for

an evacuation place, such as a relative's house, an acquaintance's house, an evacuation shelter, or a tall building far from the sea as an evacuation shelter.



Points for evacuation

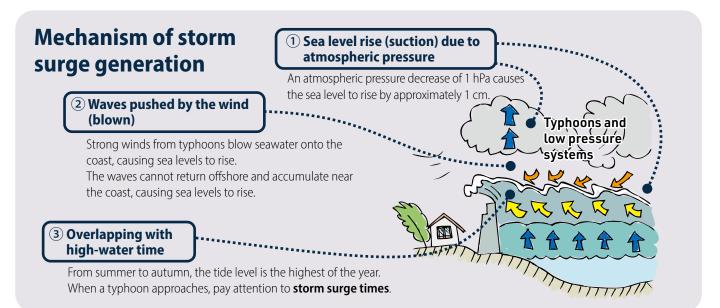
Do not approach the coast or river mouth unnecessarily.

When the tide level is high due to a storm surge, waves may rush into areas where they would normally not reach. River levels may also rise.

Evacuate early before the wind and rain get stronger.

Violent winds may be expected before the tide rises. Once a violent wind starts to blow, going outdoors can be life-threatening.







Know about inland flooding.

11111111

What does inland flooding mean?

It means that when a lot of rain falls in and around the city, water that cannot drain to the river accumulates in low places.

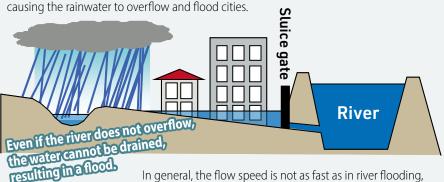


Types of flood damage

Flood damage includes "outside water flooding" and "inland water flooding." Large-scale floods can be caused by outside water flooding of rivers. However, since inland flooding can also occur due to localized torrential downpours or localized heavy rain, care must be taken.

Inland flooding

It means that when localized heavy rains, such as localized torrential downpours, fall in a short period of time, drainage canals and sewers are unable to drain away the rainwater, causing the rainwater to overflow and flood cities.



In general, the flow speed is not as fast as in river flooding, but in localized low-lying areas or places with steep slopes, the flow speed may increase, and even shallow flooding depths can be dangerous.

Outside water flooding (river flooding)

It means that heavy rains due to typhoons or localized torrential downpours cause river water levels to rise, causing rivers to overflow due to levees breaking or overflowing.



For outside water flooding (river flooding), refer to Pages 15 to 16.

Points for evacuation

Be proactive in obtaining information yourself.

Pay attention to evacuation information and weather conditions, and if there is no risk of river flooding and you can ensure your safety on the second floor or higher of your home, do not force yourself to go out or move.



It is dangerous to walk even if flooding is shallow

Even if flooding is shallow, it is dangerous to walk if the water is flowing quickly.

You may become stranded even in ankle-deep water.



How to reduce flood damage

On a routine basis,

let's start with what you can do.

Cleaning gutters and drains

When rainwater does not flow smoothly, it accumulates and causes flooding. Clean your gutters and drains on a regular basis to ensure good drainage.



Securing water for living use

Let's collect water in the bathtub without draining it. It can prevent the backflow of sewage and can be used as water for living.



Stage where heavy rain is expected

Take all possible measures 3 days to 1 and a half days before flooding occurs.



Work outdoors before heavy rain.

Check around the house.

Turn off the breaker.

Reinforce your windows and roof as soon as possible!

Lay out clotheslines and bring flower pots, garbage cans, and other items indoors that could be blown away by the wind.



higher location.

Move your car to a safe location as soon as possible.

Private car movement



There is a risk of electrical leakage from the air conditioner's outdoor unit and wiring. Turn off the breaker.



Checking the septic tank

Make sure that the septic tank lid is tightly closed to prevent dirt and mud from entering the septic tank. Also, turn off the power to the blower (septic tank pump) and move it to a



Prevent water from entering from unexpected places.

Preventing water from gushing up

Sewage may flow backward and water may come out of the toilet.

Weight it down with a plastic bag filled with water, etc.



Underfloor flooding may open the lid of the underfloor storage, causing water to

Weight it down to prevent it from flooding.



Move important things to a higher place.

Move your belongings and family mementos to a higher location where they will not be flooded.

Passbooks, seal impressions, etc.



Home appliances



Mementos such as

Clothes etc. for

the time being



albums

Prevent flooding with simple flood prevention methods.

The simple flood prevention method prevents water from flooding or flowing into a house using household items. Effective when the water is shallow. It is important to prevent water from seeping not only at doorways, such as entrances, but also under floors.

Simple water bags using household items

Double up the trash bags and fill them half full with water.

A plastic container filled with water and a planter filled with soil

Put them in a cardboard box and connect it to use.

Wrap it up with a leisure sheet.

Water stop plate

Install boards etc. at doorways to prevent flooding.

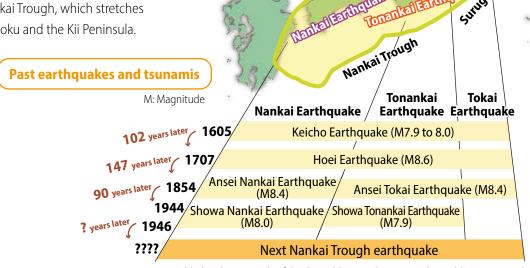


Basic knowledge of earthquakes and tsunamis

Earthquake expected in Yokkaichi City

Huge earthquake in the Nankai Trough

Huge earthquakes have occurred at intervals of 100 to 150 years in the vicinity of the Suruga Trough, which extends from Suruga Bay to the coast of Aichi Prefecture, and the Nankai Trough, which stretches along the coasts of Shikoku and the Kii Peninsula.



Added to the materials of the Central Disaster Prevention Council (June 28, 2001)

Earthquakes caused by active faults

There are many active faults around Yokkaichi City, and historically, the Iga Ueno Earthquake (1854) and the Nobi Earthquake (1891) occurred, causing much damage. Ise Bay also has the Ise Bay Fault Zone, which can be a source of tsunamis.

Shiga Prefecture Kuwana City Nagoya City Prefecture Komono-cho Tardsaka fault Yokkaichi City Mie Prefecture Suzuka-toen fault zone Kameyama City Suzuka City Ise Bay Suzuka City

Created based on Mie active fault (revised in March 2012)

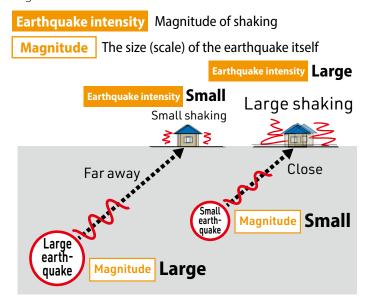
Active fault map in Mie Prefecture (Hokusei Area)





Earthquake intensity and magnitude

Earthquake intensity represents the magnitude of shaking, and magnitude represents the size (scale) of the earthquake itself. Earthquake waves travel underground and cause the ground to shake. So if an earthquake is large but far away, the shaking will be small; conversely, if a small earthquake is close, the shaking will be large.



What kind of earthquakes have occurred in the past?

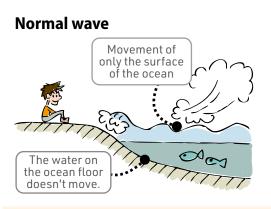
The Showa Tonankai Earthquake occurred in December 1944 (Showa 19), and the Showa Nankai Earthquake occurred two years later in 1946 (Showa 21). In the Yokkaichi area, it is recorded that 1,263 buildings were wholly or partially destroyed, and 22 people were killed. One-third of the large chimney at the Yokkaichi Factory of Ishihara Sangyo Kaisha, Ltd., which was the world's tallest at that time, collapsed.

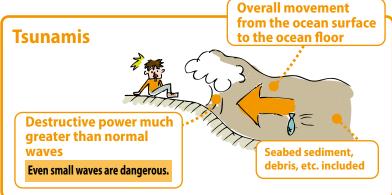


Photo provided by: Yokkaichi Factory of Ishihara Sangyo Kaisha, Ltd.

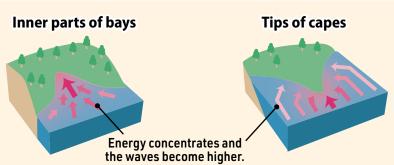
Characteristics of tsunami

Tsunamis have great destructive power regardless of their sizes. Understand their characteristics from the differences from normal waves.





Since waves concentrate and become high in the inner parts of bays and the tips of capes, special attention needs to be paid.

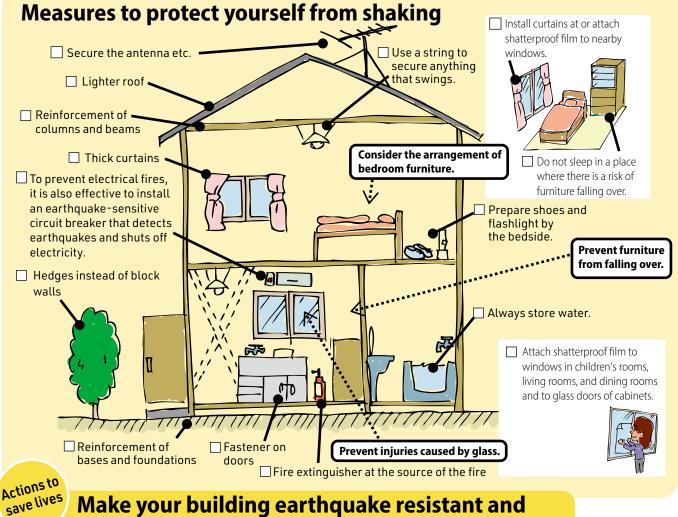


Know about earthquakes

What is an earthquake

Shaking of the ground due to a sudden shift of an underground rock when it is pushed or pulled from its surroundings





Make your building earthquake resistant and secure your furniture.

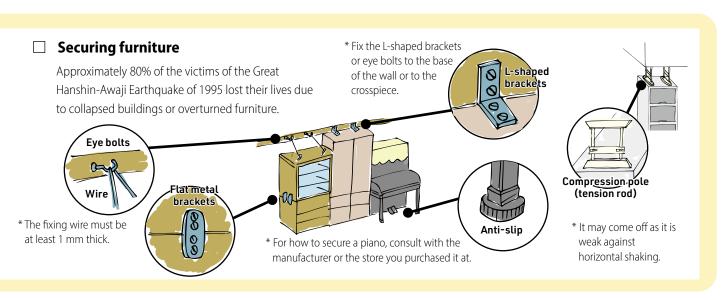
Since an earthquake instantaneously brings damage, it is best to prepare before it happens. In particular, if you have a wooden house built before 1981, make sure to have it seismically reinforced as necessary.



Earthquake countermeasures in the workplace



- ☐ Preventing office furniture from falling over ☐ Securing an evacuation route Secure bookshelves, etc. to the wall or floor. Also secure OA equipment.
 - Do not place large furniture near doorways.
 - The aisle width needs to be at least 120 cm.
- Preventing objects from falling
 - Do not place equipment on shelves.
 - Store items that are at risk of flying out, due to shaking on shelves, in a cabinet with doors.



Actions to save lives

If you feel unsteady, protect yourself first.

If you feel shaking, take cover under a sturdy table or desk to protect your head. When outdoors, be careful of objects falling from above or walls falling over.

Be careful of aftershocks





If you see or hear an earthquake early warning, do not panic and ensure your own safety by avoiding objects that may fall or overturn in the short period before strong shaking occurs.

* Breaking news may not be delivered in time. When you feel the shaking of an earthquake, take actions to protect yourself.

If shaking occurs, take immediate action to protect yourself.

If you see or hear an earthquake early warning or feel the shaking of an earthquake, protect yourself immediately.

When indoors

Protect your head by getting under a desk or table and wait for the shaking to subside.

- If you are in a building with low earthquake resistance, open the door, secure an evacuation route, and get out.
- Once the shaking has subsided, calm down and put out any fires.

When outdoors

Stay away from buildings, trees, and utility poles, protect you head with a bag, etc., and wait until the shaking subsides.





After the disaster





Known about tsunamis.



It is a very large wave of seawater rushing onto the land due to an earthquake that occurs mainly on the ocean floor.



The maximum tsunami height and flood depth are different.

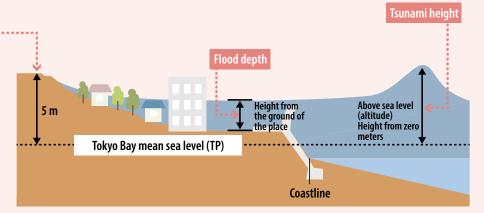
The maximum tsunami height is different from flood depth. Tsunami height is the height offshore from sea level (altitude) zero meters, and flood depth is the height of the flooded surface from the ground. Therefore, the flooding depth varies depending on the location.

Tsunami evacuation target line

A line connecting points 5 m above sea level in inland areas

In the event of a tsunami, evacuate to the mountain side of this line.

→ Check the tsunami hazard map on Pages 81 to 90.



Actions to save lives

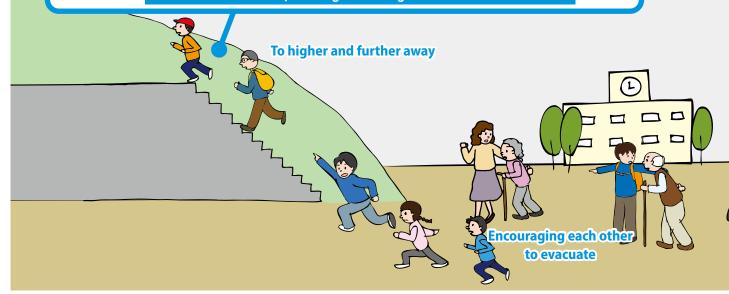
Early evacuation

If you feel a large tremor or a long-lasting tremor,

go as soon as possible to a place far and high on the mountain side of the tsunami evacuation target line!

Continue to evacuate while a tsunami advisory or warning is in effect. Evacuation by car may cause a traffic jam due to congestion. As a general rule, evacuate on foot.

Look for a place to evacuate, such as a relative's or acquaintance's house, an evacuation center, or a high building far from the sea.



Tsunami evacuation points

Do your best.

When evacuating from a tsunami, don't panic, call out to each other, and evacuate together. Please note that the place to evacuate does not have to be a tsunami evacuation building. It is important to do your best to save lives.



→ For Tsunami evacuation buildings, refer to Pages 101 to 102.

Take the initiative to call out and evacuate.

It is difficult to take appropriate action in case of emergency. First of all, if you take the initiative, people nearby who see you will also evacuate, and as a result, you can help many people.



Evacuate on foot.

Evacuation by car may cause roads to become impassable due to damage from shaking or liquefaction, resulting in a traffic jam due to congestion. As a general rule, evacuate on foot.



Make it a habit to evacuate.

If the adults around children do not respond to calls to evacuate, they will grow up without taking their evacuation for granted. Making it a habit to evacuate no matter how many times you fail is a form of tsunami disaster prevention education you can do at home.



Actions to

If it is too late to evacuate...

If you cannot evacuate far away, go to a

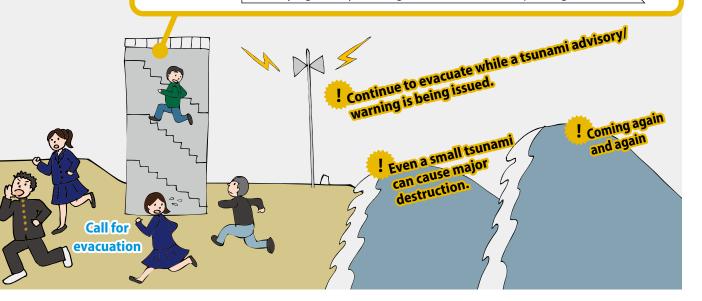
nearby high place.

If you fail to escape, protect yourself in the safest place depending on the situation.



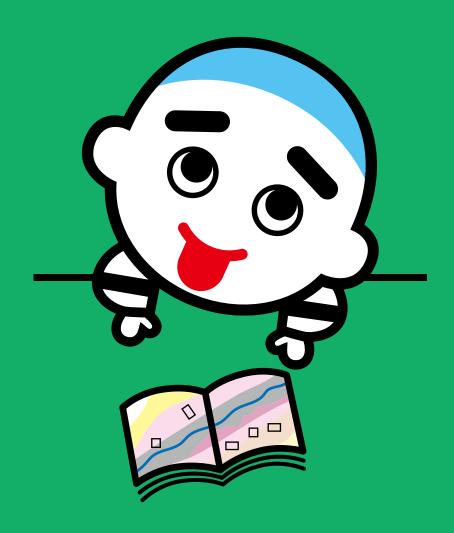
Look for a nearby tsunami evacuation building, tall building, or high place as an evacuation site.

Make a judgment by checking the tsunami hazard map on Pages 81 to 90.





Think



Look at the hazard map and discuss it with your family.

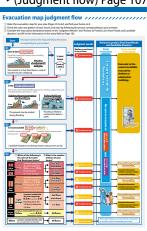


Open the map for your district.

Map page/index drawing → Pages 31 to 32



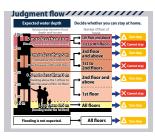
- **Evacuation map**
- \rightarrow Pages 33 to 62
- → (Judgment flow) Page 107





Storm surge hazard map

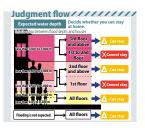
 \rightarrow Pages 65 to 70





Inland flooding hazard map

→ Pages 71 to 76



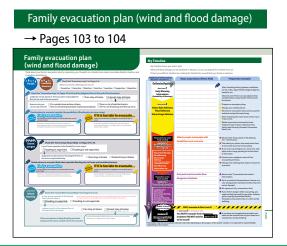


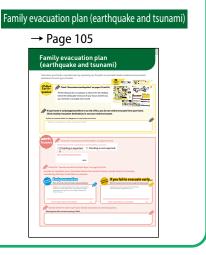
→ Pages 81 to 90





Based on the judgment results, confirm your and your family's evacuation actions and write them in your "Family evacuation plan."







→ Page 106



Please enter your family's contact information in the entry field.

Map page/index drawing



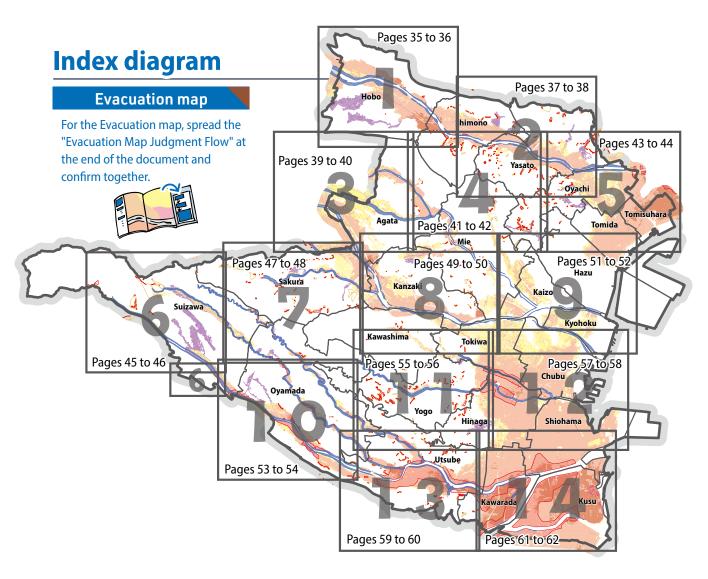


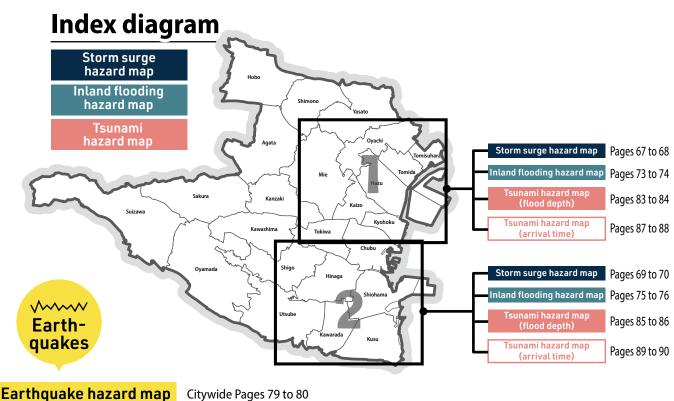






	(f	Evacuation map (lood/landslide disasters)		rm surge zard map		d flooding ard map		Tsunami ha		map
Chubu District	Map 9/12	Published on Pages 51 to 52 and 57 to 58	Map 1/2	Published on Pages 67 to 70	Map 1/2	Published on Pages 73 to 76	Map 1/2	· · · · · · · · · · · · · · · · · · ·		Published on Pages 87 to 90
Tomisuhara District	Мар 5	Published on Pages 43 to 44	Мар 1	Published on Pages 67 to 68	Мар 1	Published on Pages 73 to 74	Мар 1	Published on Pages 83 to 84	Мар 1	Published on Pages 87 to 88
Tomida District	Map 5/9	Published on Pages 43 to 44 and 51 to 52	Мар 1	Published on Pages 67 to 68	Мар 1	Published on Pages 73 to 74	Мар 1	Published on Pages 83 to 84	Мар 1	Published on Pages 87 to 88
Hazu District	Map 5/9	Published on Pages 43 to 44 and 51 to 52	Мар 1	Published on Pages 67 to 68	Мар 1	Published on Pages 73 to 74	Мар 1	Published on Pages 83 to 84	Мар 1	Published on Pages 87 to 88
Tokiwa District	8/9/ 11/12	Published on Pages 49 to 52 and 55 to 58	Map 1/2	Published on Pages 67 to 70	Мар 1/2	Published on Pages 73 to 76	Мар 2	Published on Pages 85 to 86	Мар 2	Published on Pages 89 to 90
Hinaga District	Map 11/12	Published on Pages	Мар 2	Published on Pages 69 to 70	Мар 2	Published on Pages 75 to 76	Мар 2	Published on Pages 85 to 86	Мар 2	Published on Pages 89 to 90
Yogo District	Map 10/11	Published on Pages 53 to 56	Мар 2	Published on Pages 69 to 70	Мар 2	Published on Pages 75 to 76				
Utsube District	Map 11/13/ /14	Published on Pages 55 to 56 and 59 to 62			Мар 2	Published on Pages 75 to 76				
Shiohama District	Map 12/14	Published on Pages 57 to 58 and 61 to 62	Мар 2	Published on Pages 69 to 70	Мар 2	Published on Pages 75 to 76	Мар 2	Published on Pages 85 to 86	Мар 2	Published on Pages 89 to 90
Oyamada District	Map 7/8/ /11	Published on Pages 47 to 50 and 55 to 56								
Kawashima District	7/10/ 11/13	Published on Pages 47 to 48, 53 to 56, and 59 to 60								
Kanzaki District	Мар 8	Published on Pages 49 to 50								
Sakura District	Map 6/7/8	Published on Pages 45 to 50								
Mie District	Map 4/8/9	Published on Pages 41 to 42 and 49 to 52			Мар 1	Published on Pages 73 to 74				
Agata District	Map 3/4/8	Published on Pages 39 to 42 and 49 to 50								
Yasato District	Map 2/5	Published on Pages 37 to 38 and 43 to 44			Мар 1	Published on Pages 73 to 74				
Shimono District	Map 1/2/4	Published on Pages 35 to 38 and 41 to 42								
Oyachi District	Мар 4/5	Published on Pages 41 to 44	Мар 1	Published on Pages 67 to 68	Мар 1	Published on Pages 73 to 74				
Kawarada District	Map 13/14	Published on Pages 59 to 62	Мар 2	Published on Pages 69 to 70	Мар 2	Published on Pages 75 to 76				
Suizawa District	6/7/ 10	Published on Pages 45 to 48 and 53 to 54								
Hobo District	Мар 1	Published on Pages 35 to 36								
Kaizo District	Мар 9	Published on Pages 51 to 52	Мар 1	Published on Pages 67 to 68	Мар 1	Published on Pages 73 to 74				
Kyohoku District	Map 9/12	Published on Pages 51 to 52 and 57 to 58	Map 1/2	Published on Pages 67 to 70	Мар 1	Published on Pages 73 to 74	Мар 1	Published on Pages 83 to 84	Мар 1	Published on Pages 87 to 88
Kusu District	Мар 14	Published on Pages 61 to 62	Мар 2	Published on Pages 69 to 70	Мар 2	Published on Pages 75 to 76	Мар 2	Published on Pages 85 to 86	Мар 2	Published on Pages 89 to 90

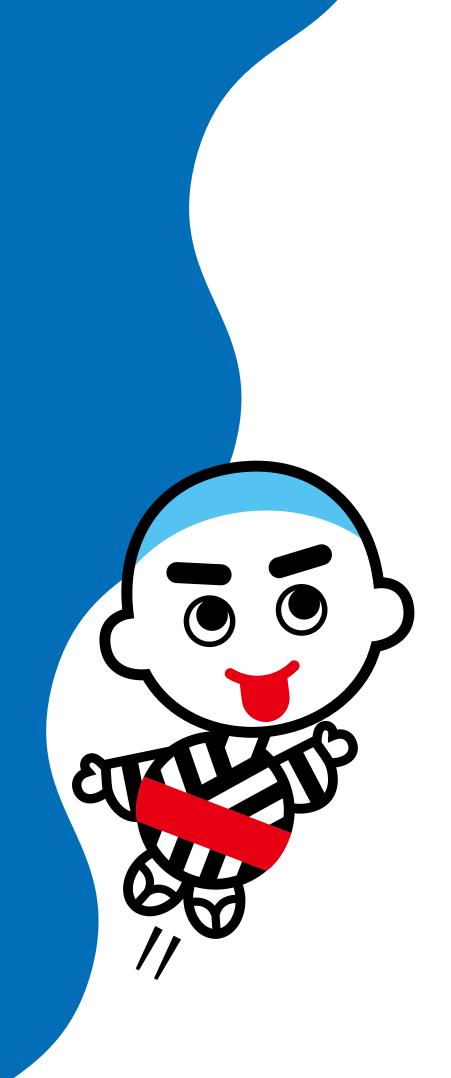




Citywide Pages 79 to 80

32

Evacuation map (Floods/landslide disasters)



Look at the map, consider a possible disaster situation for your home and where to evacuate, and fill out your family evacuation plan (wind and flood damage) on Pages 103 and 104.





Entry example



Check the "Awareness map" on Pages 5-6.

Which river floods, affecting your house?		
□Suzuka River □Utsube River ☑Mitaki R	iver ₩ Kaizo River □Asak	e River 📈 Tempaku River 📈 Kabake River
Check the "Evacuation map" on Pages 35 to	62 and the judgment flow	at the end of the document.
Judgment results based on the evacuation map judgment flow (at the end of the document)	□ Can stay at home	☑Cannot stay at home

☐ There is a risk of the wooden house collapsing.

☐ There is a risk that the ground will be eroded during floods.

There is a risk of flooding up to the floor where you live.



Consider the evacuation destination by referring to the "Judgment Results" and "Actions to Protect Lives from Floods and Landslide disasters."

☐ There is a risk of landslide disasters.

Decide where to evacuate (consider the possibility of flooding due to storm surge).



at home

Early evacuation

Evacuation information and places to evacuate before the rain and wind get stronger

Relatives' houses, acquaintances' homes, and evacuation shelters in areas where flooding and landslide disasters are not anticipated

Aunt's house on a hill

Reasons why you cannot stay



If it is too late to evacuate...

A place to evacuate when it is dangerous to evacuate far away or go out

A tall and durable building where you can stay in even after flooding, or a high place in your home away from a slope



Damage estimation used for evacuation map

Estimated flood inundation zone map (estimated maximum scale)

*For more details, please check the estimated flood inundation zone map on Pages 63 to 64.

☐ Target rivers Suzuka River system (Suzuka River, Suzukagawa-hagawa River, Utsube River, Kamatani River, Ashimi River, Harusame River, Koike River, Tani River)

Tempaku River system (Tempaku River, Kabake River), Asake River system (Asake River, Tabika River, Sugitani River, Taquchi River)

Mitaki River system (Mitaki River, Kanatani River, Yago River, Mitaki Shinkawa, Aka River), Kaizo River system (Kaizo River, Taketani River)

Landslide (special) warning zone

- Created by: Mie Prefecture
- ☐ Publication date: March 2020

https://www.pref.mie.lg.jp/HOZEN/HP/06770006284_00003.htm



Reservoir hazard map

*Only the flood range is shown on the evacuation map.

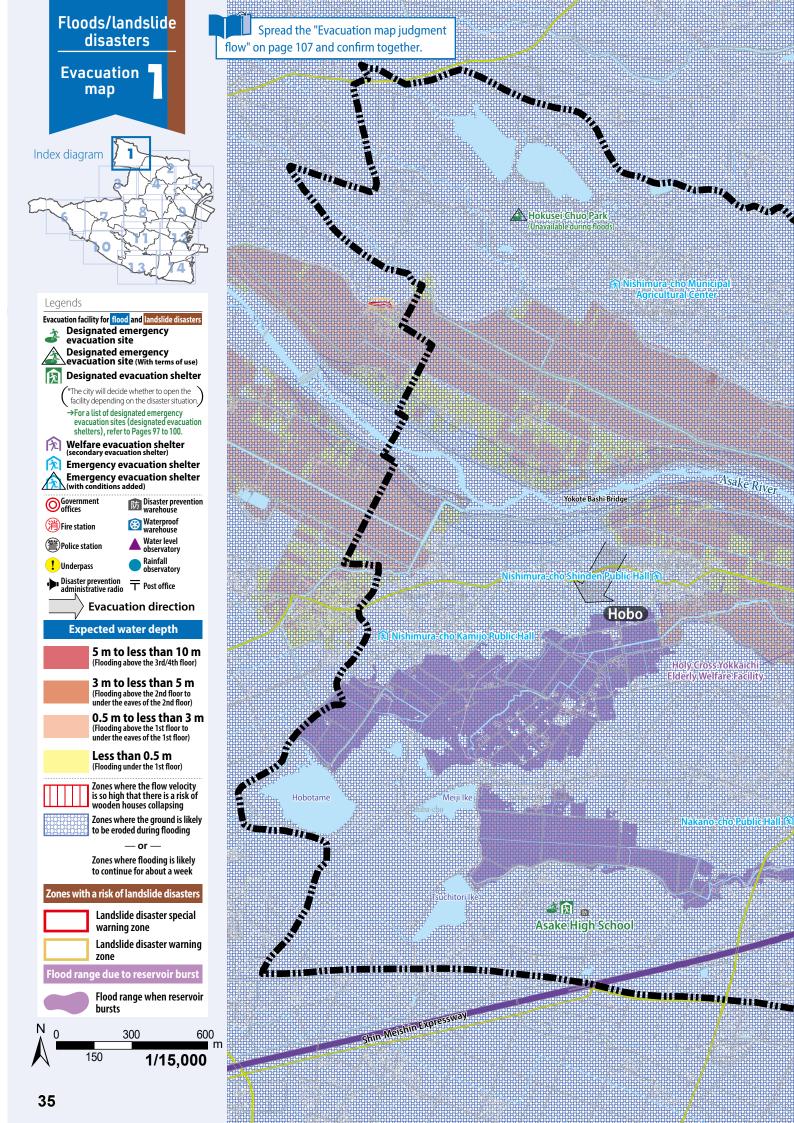
- $\hfill \square$ Published information: Flood depth and arrival time in the event that the reservoir body collapses
- Created by: Yokkaichi City
- ☐ Publication date: September 2022

https://www.city.yokkaichi.lg.jp/www/contents/1661993893908/index.html

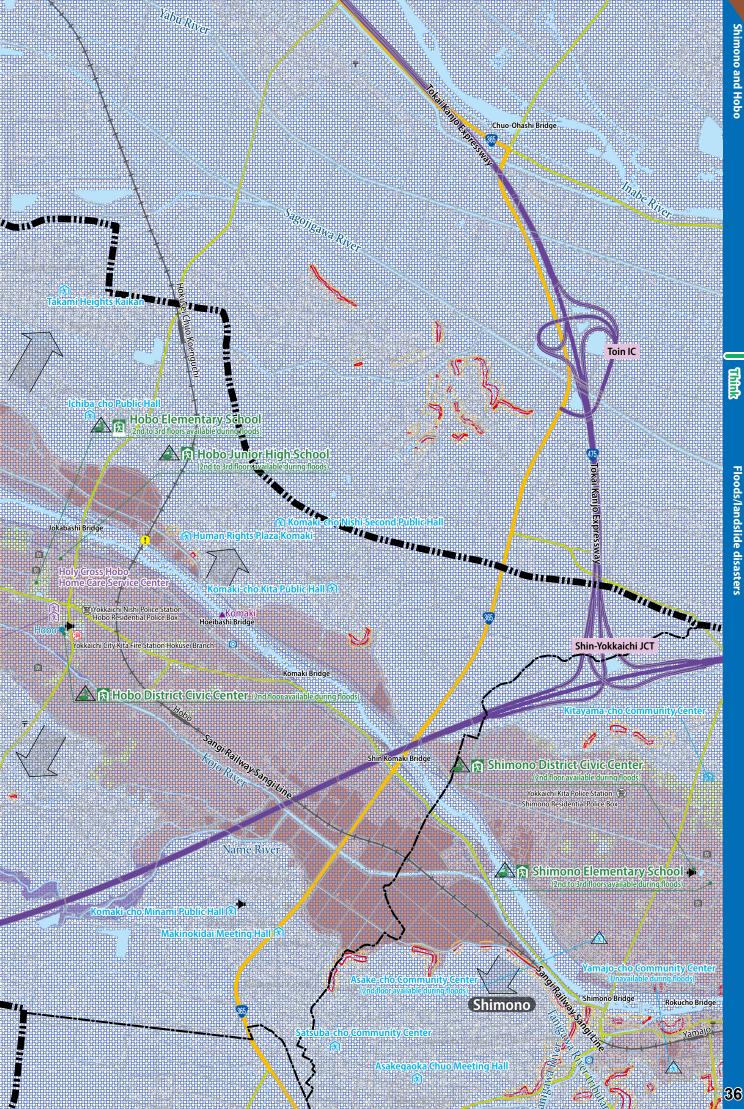


Spread the "Evacuation Map Judgment Flow" at the end of the document and take a look at the Evacuation Map.

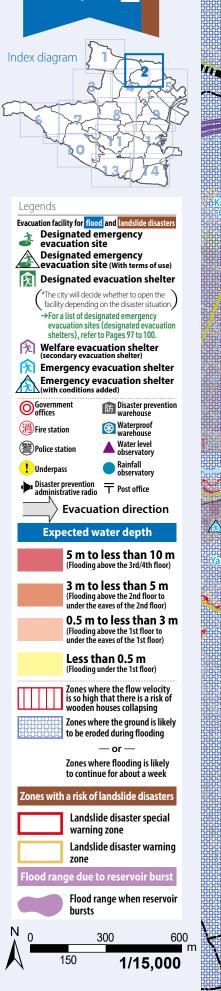


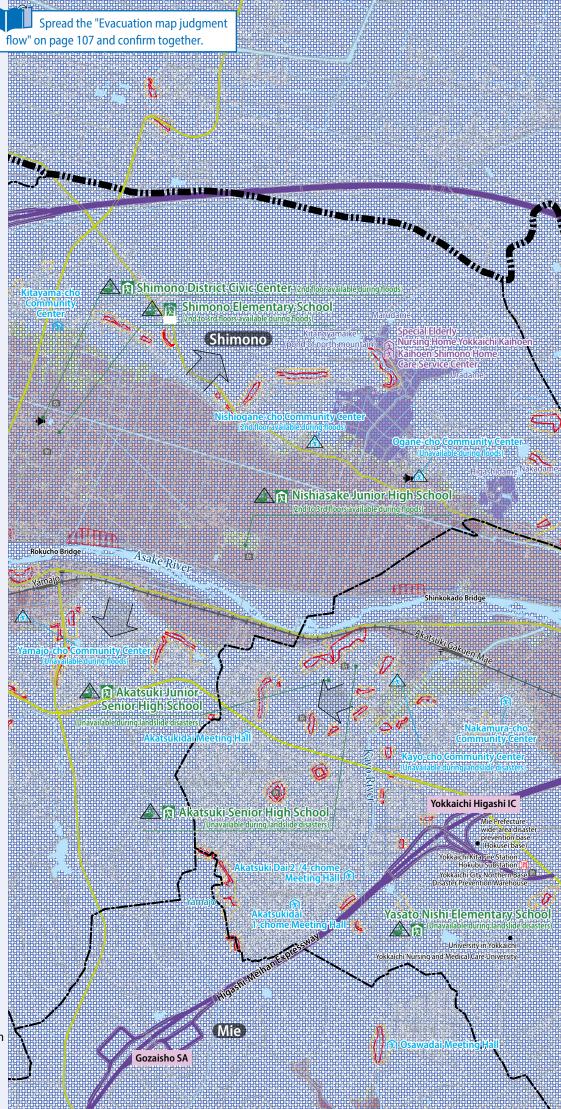


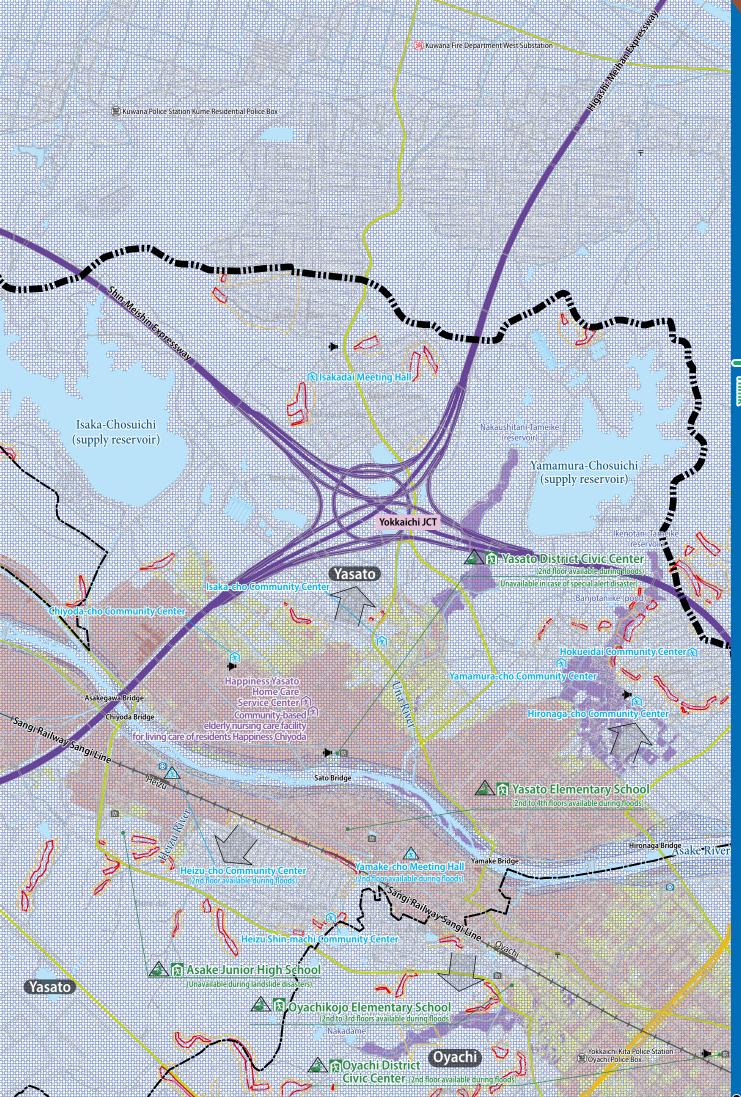


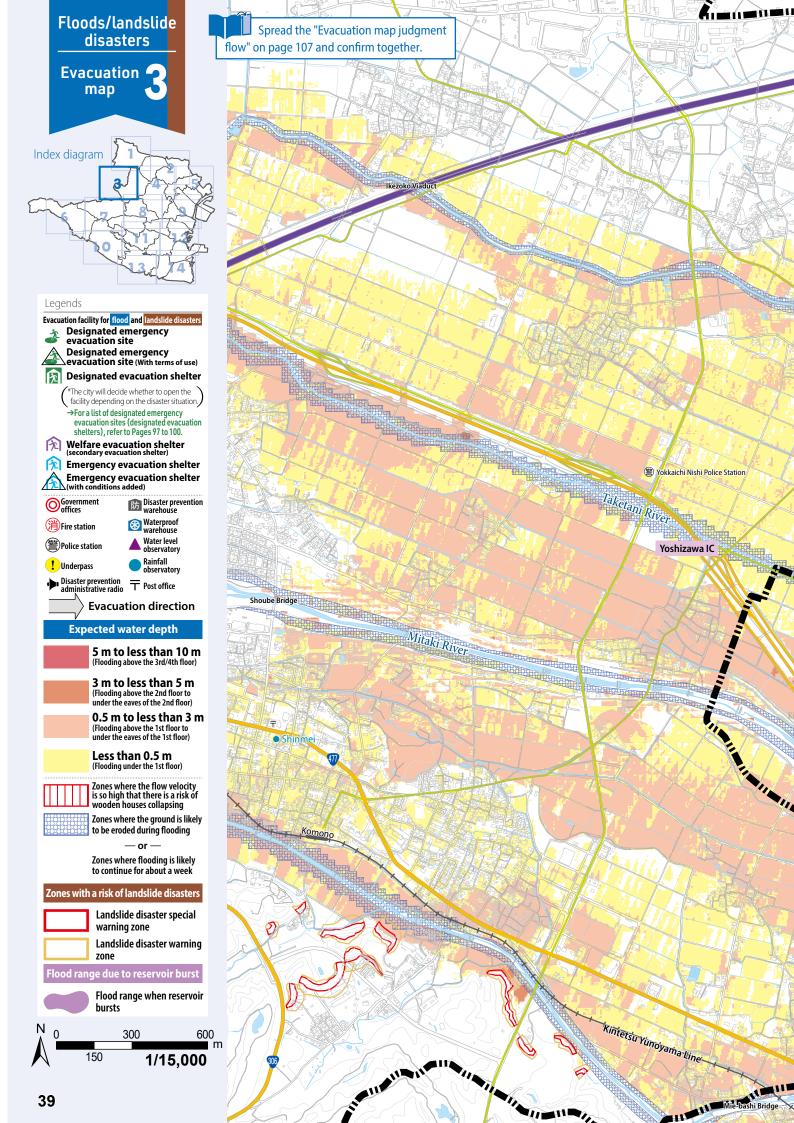


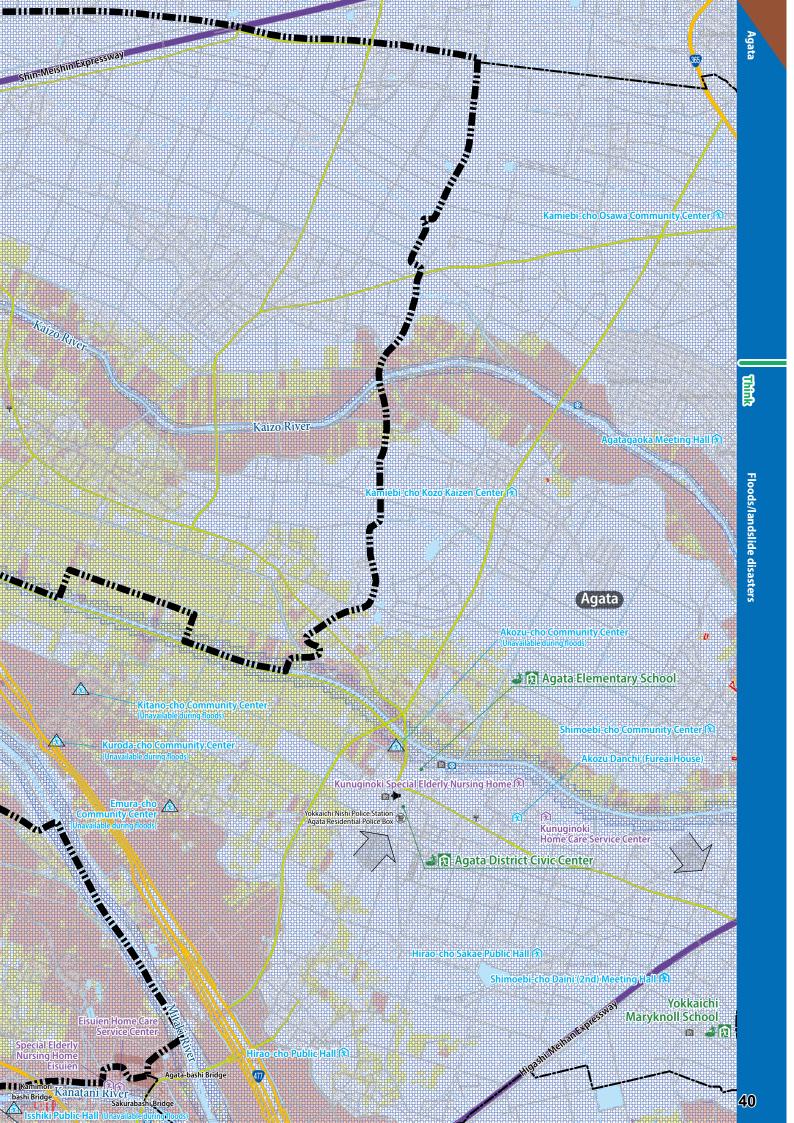


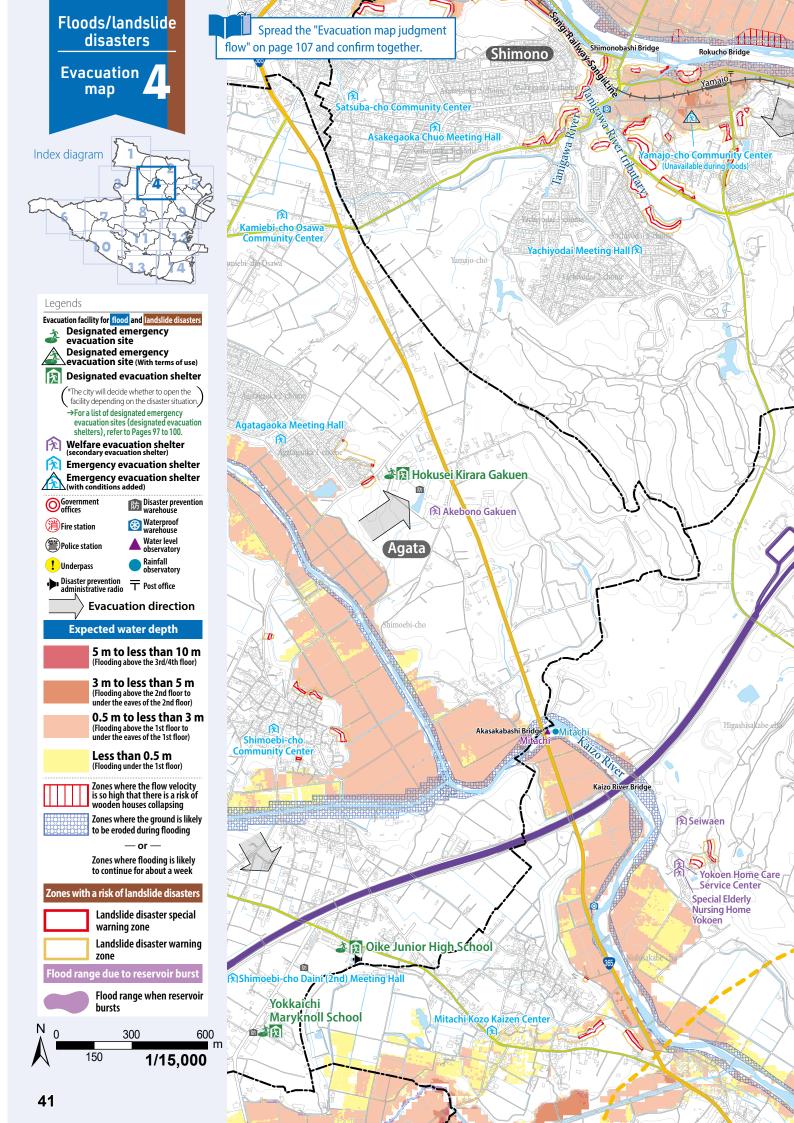


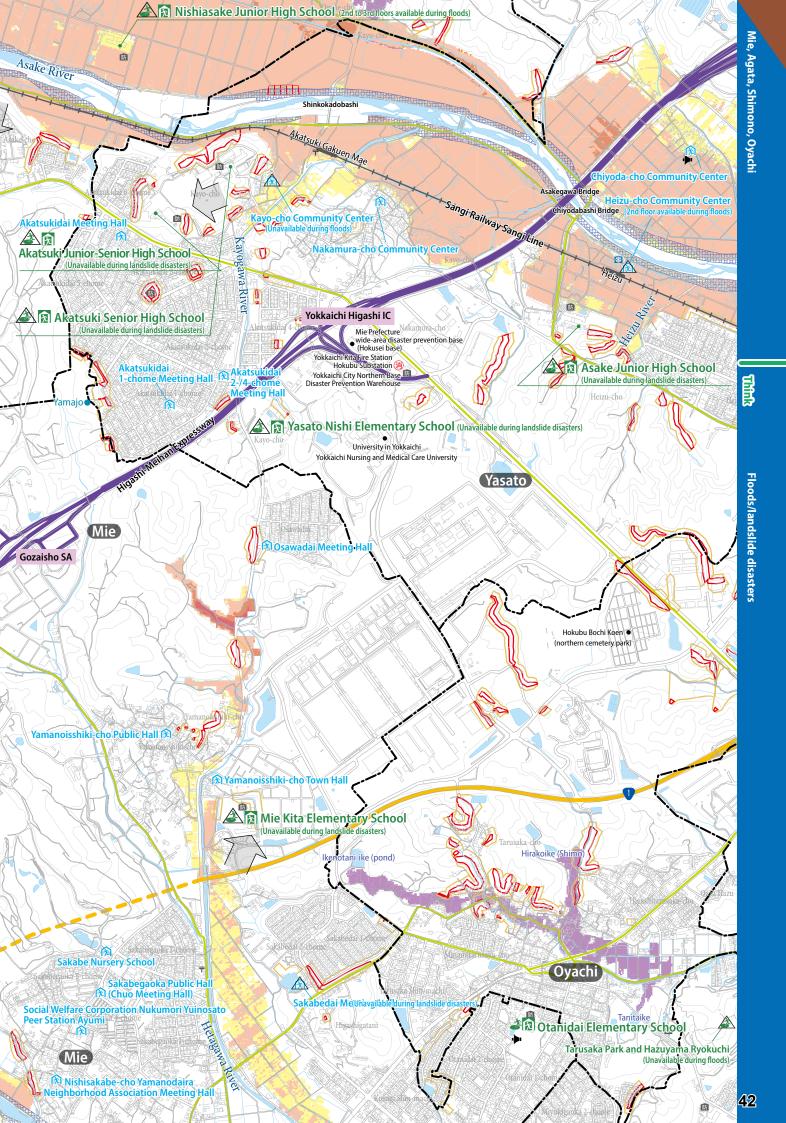


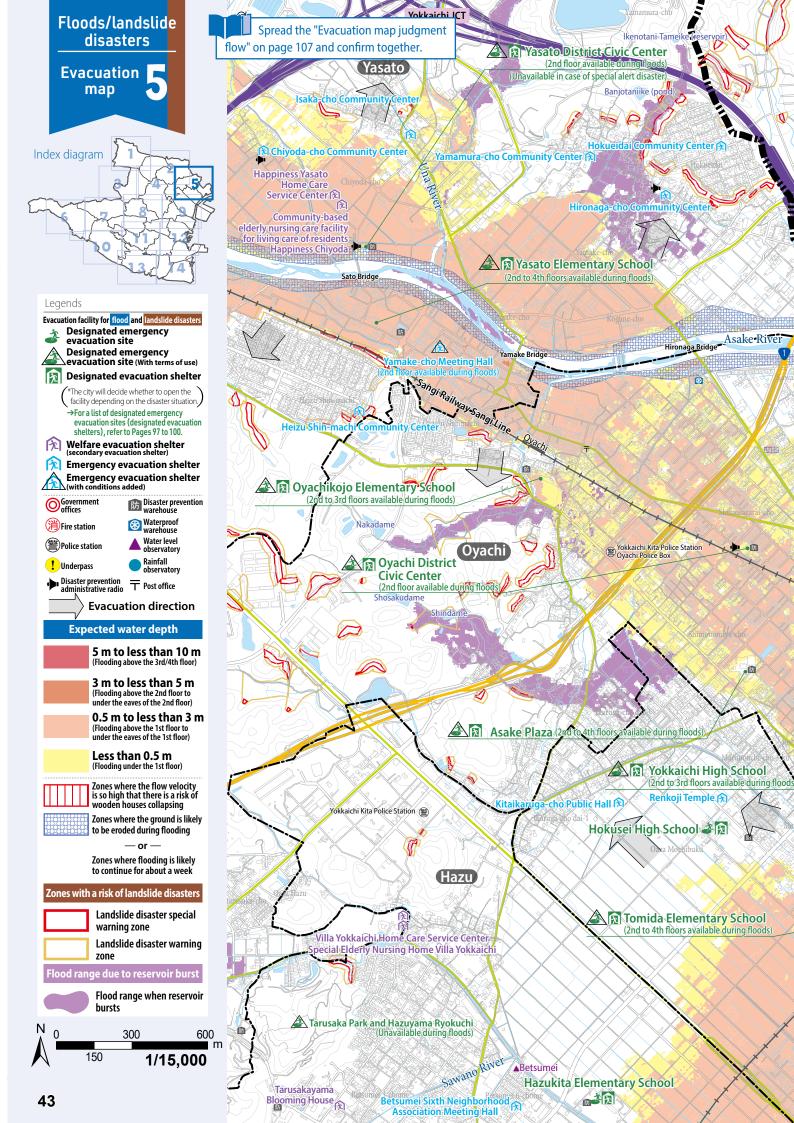


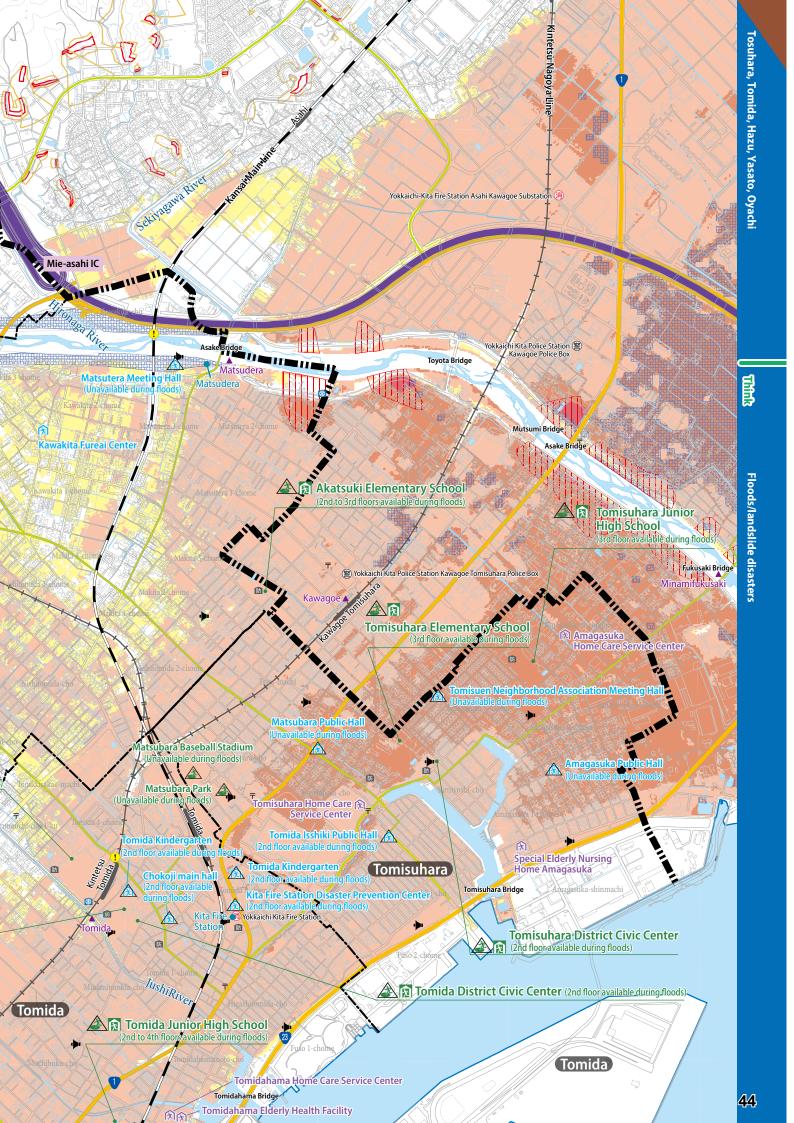


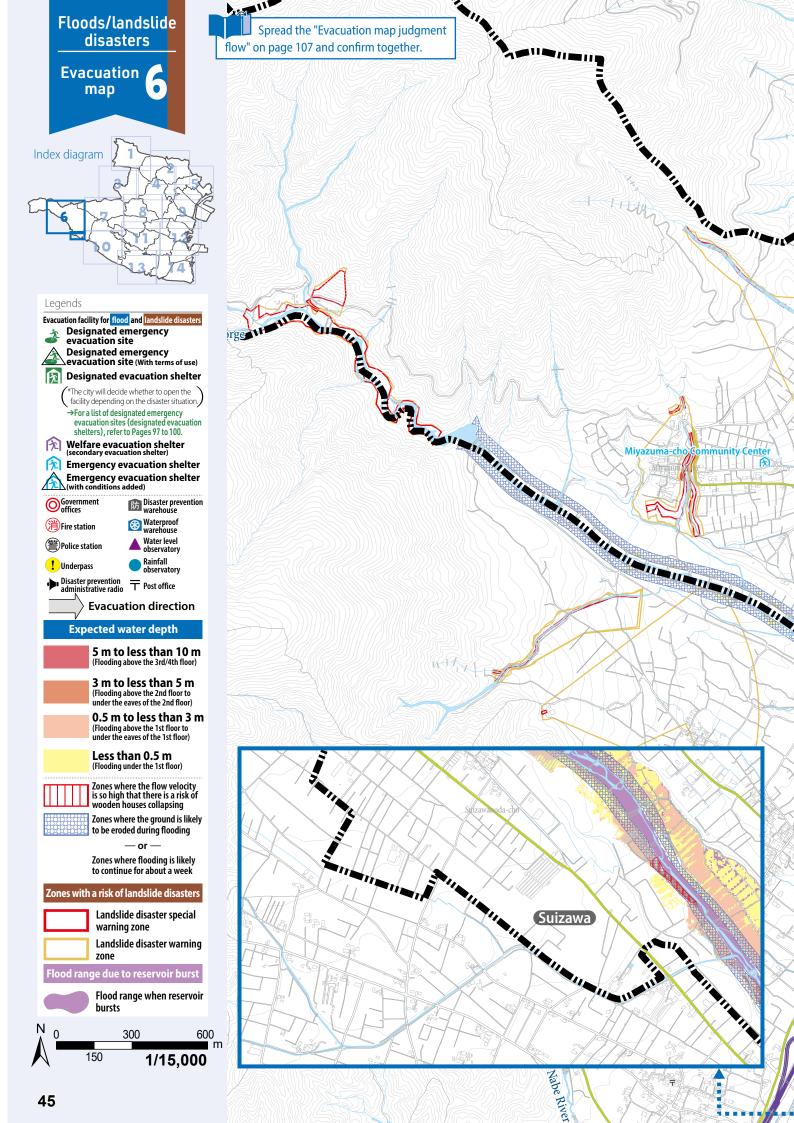


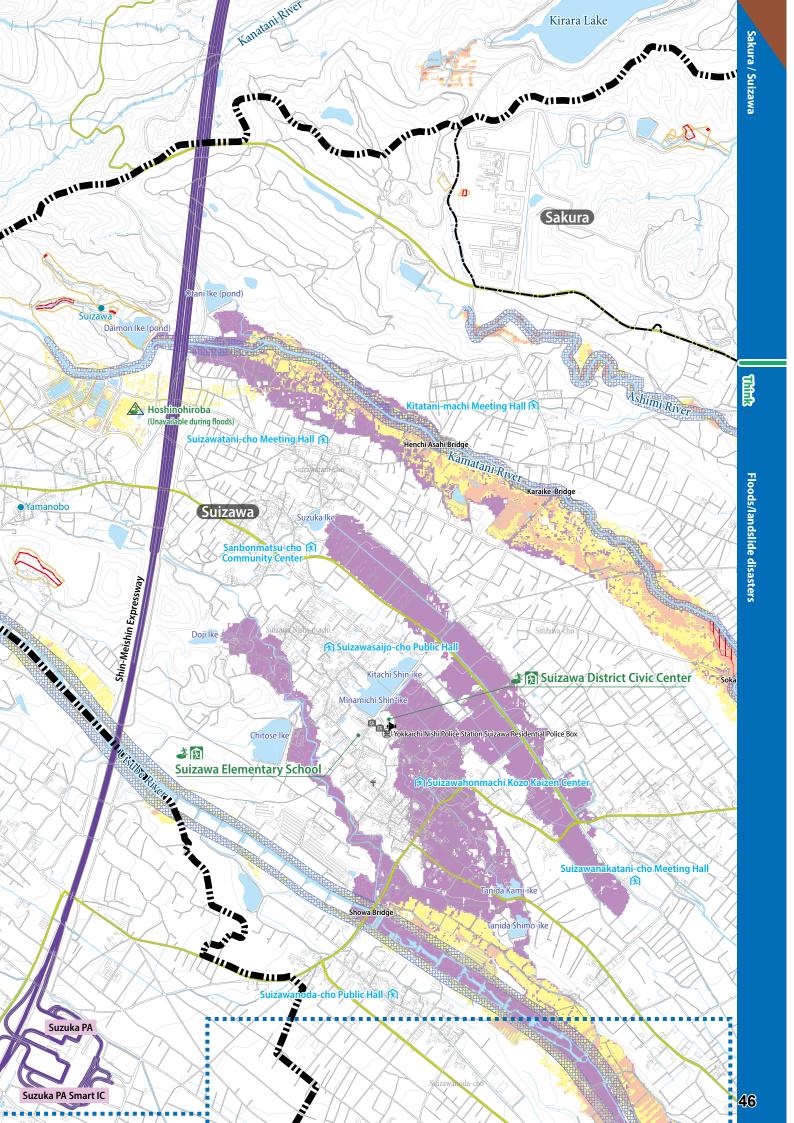


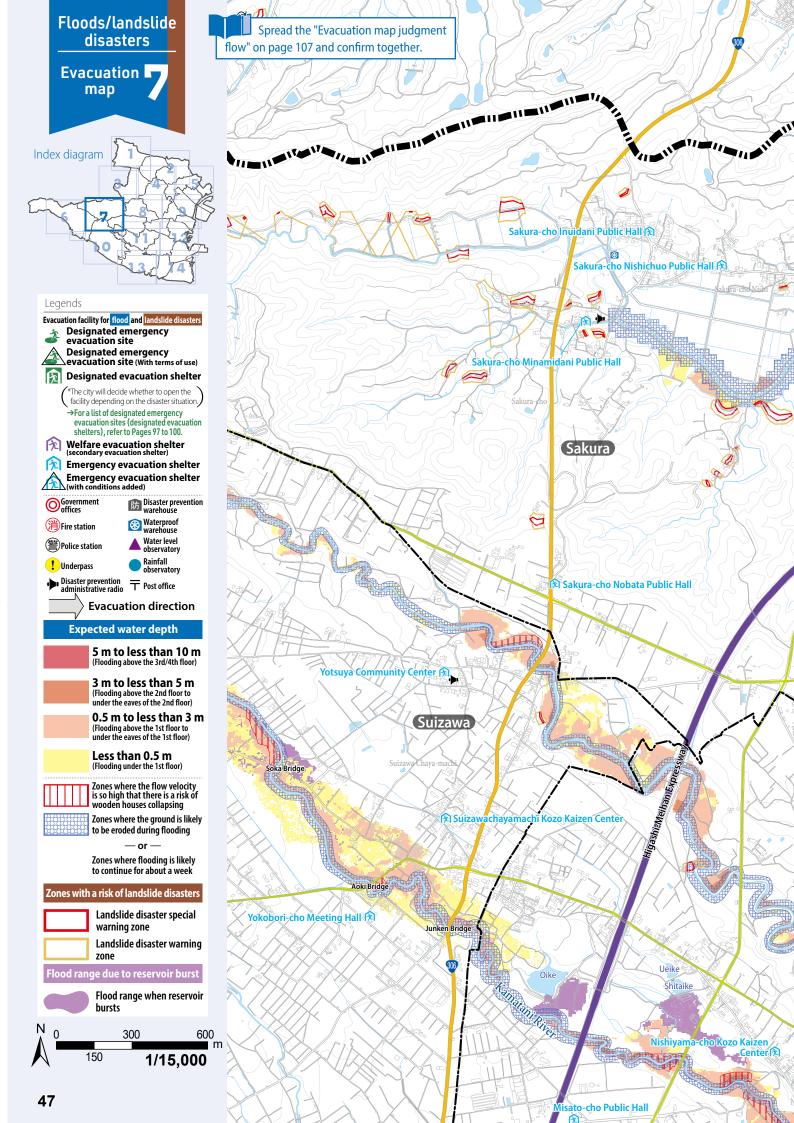


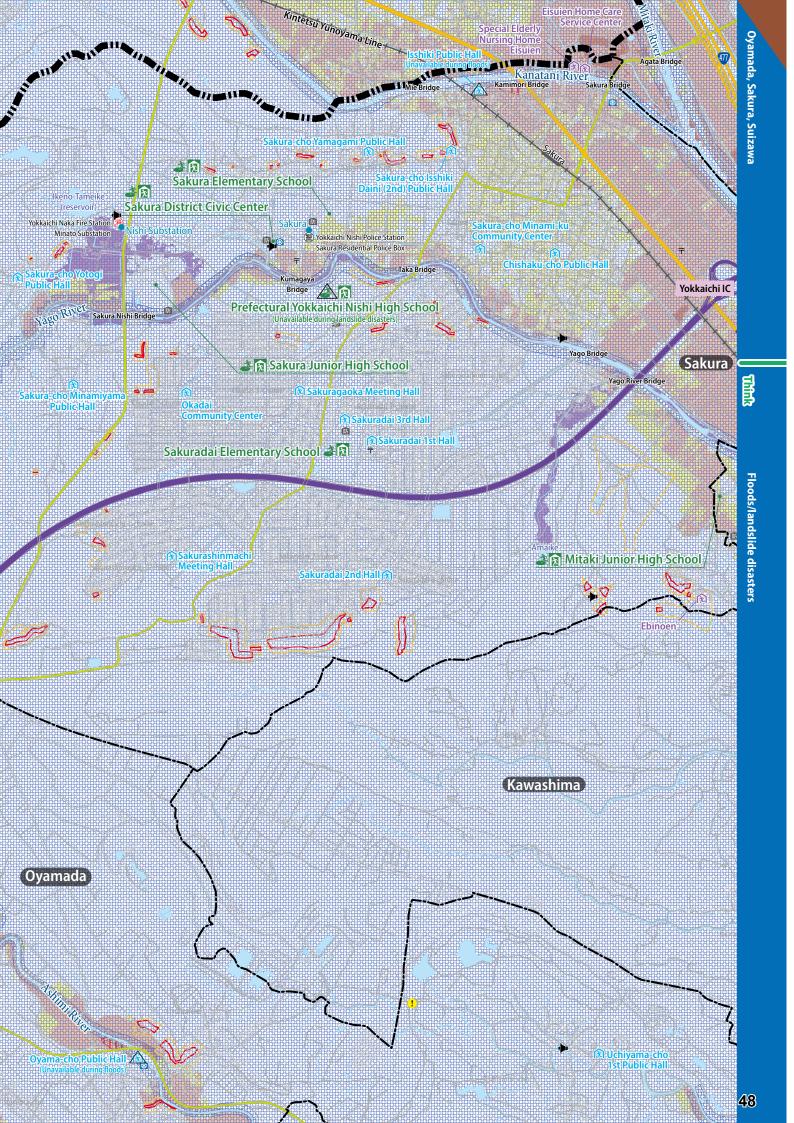


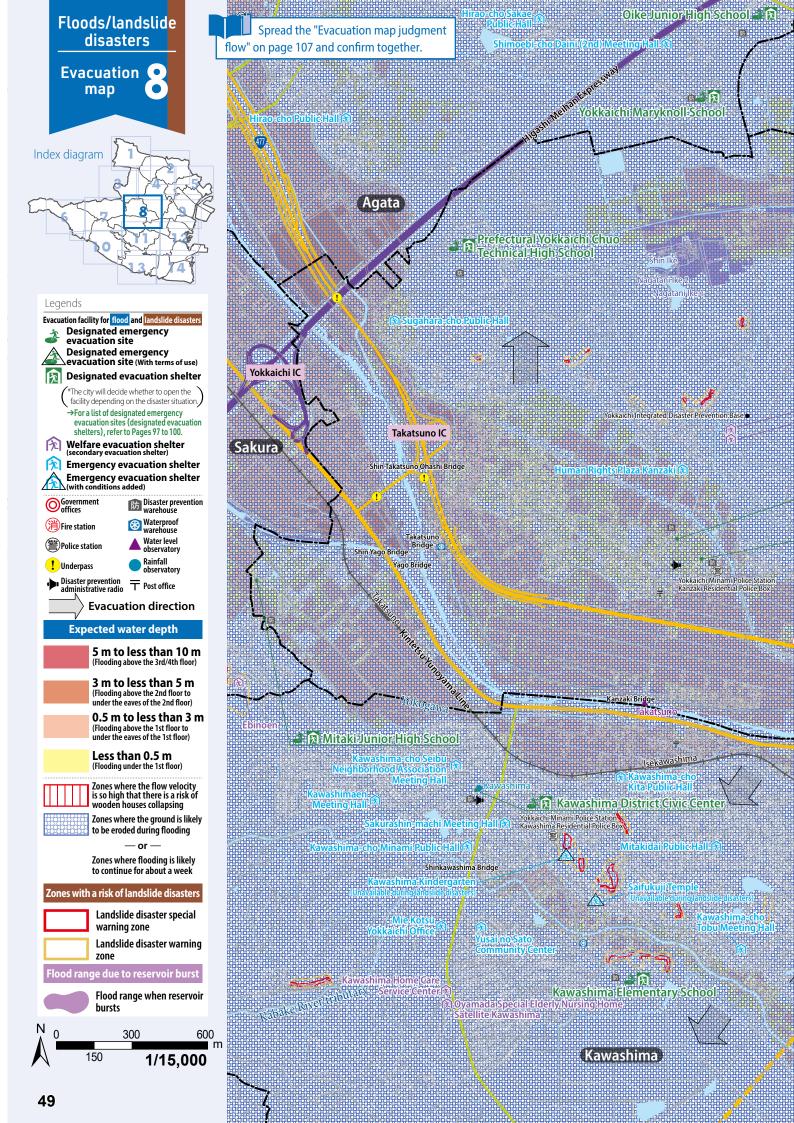


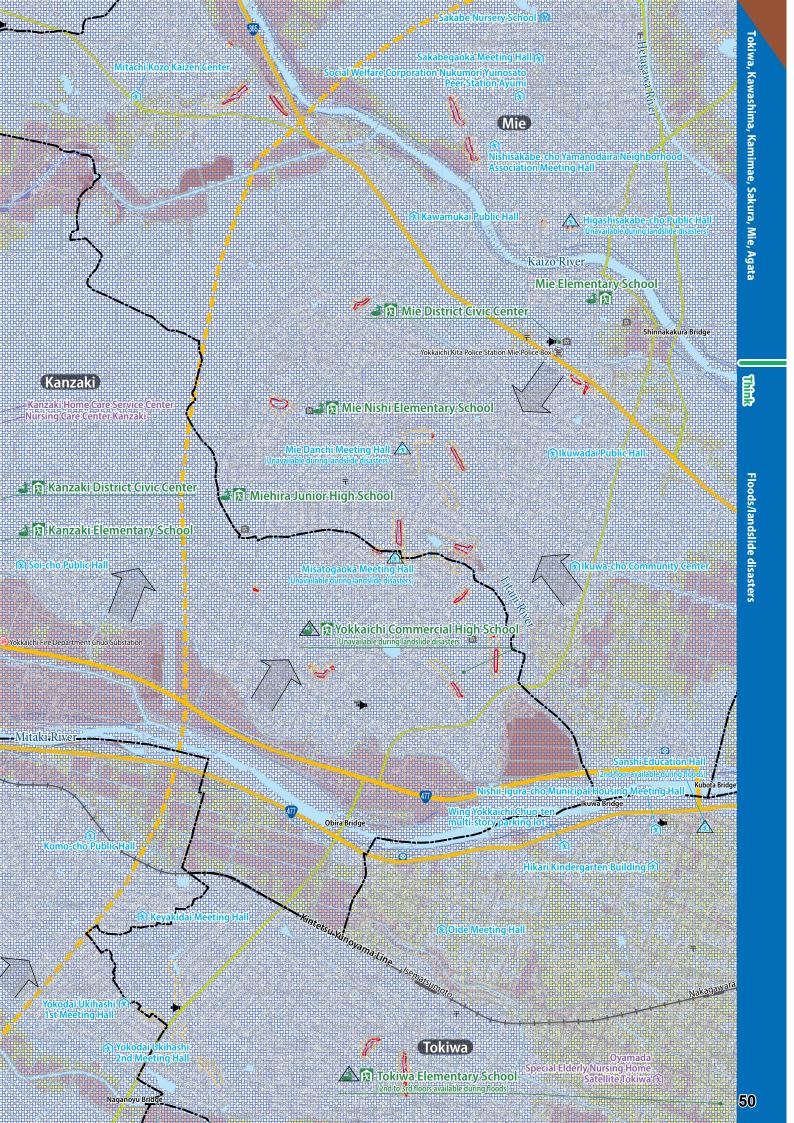


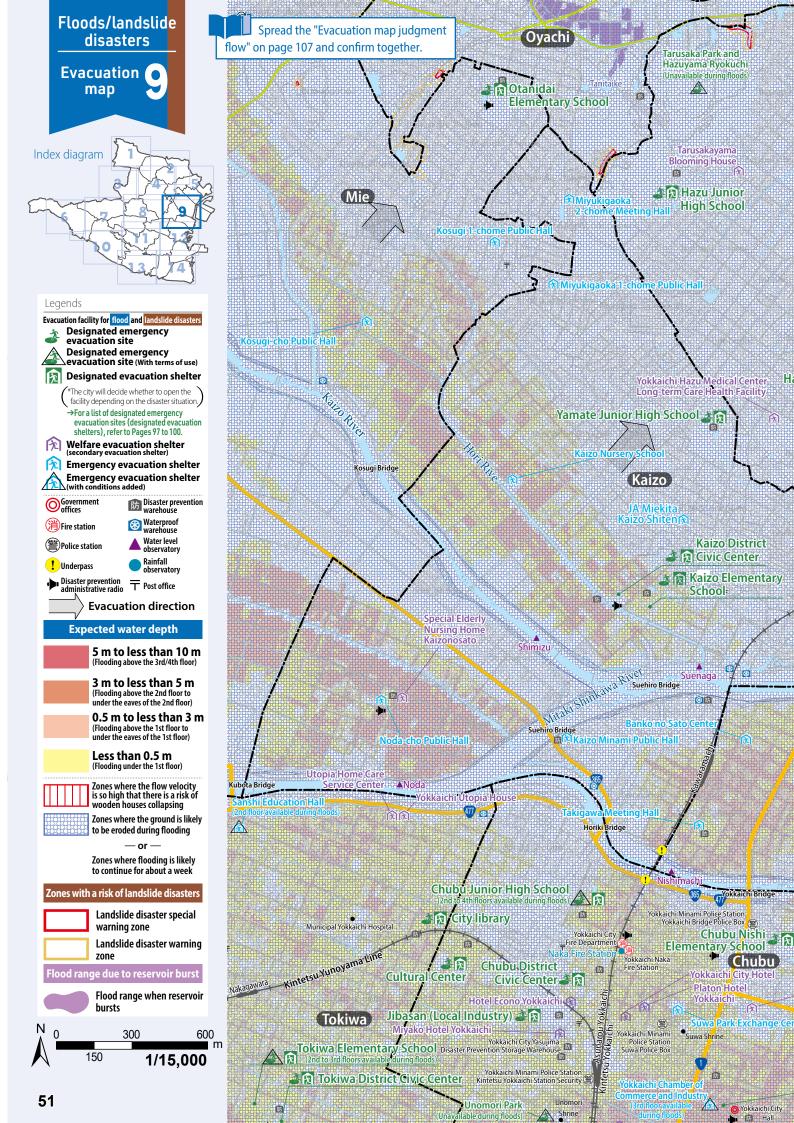










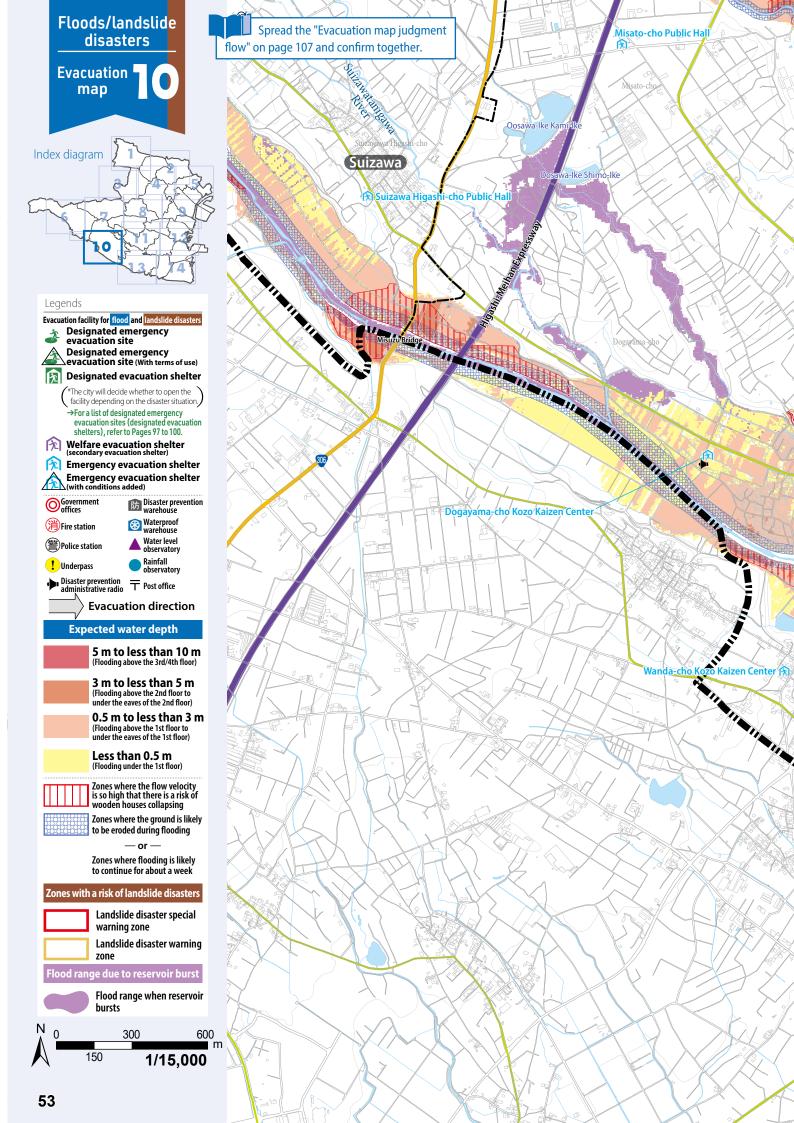


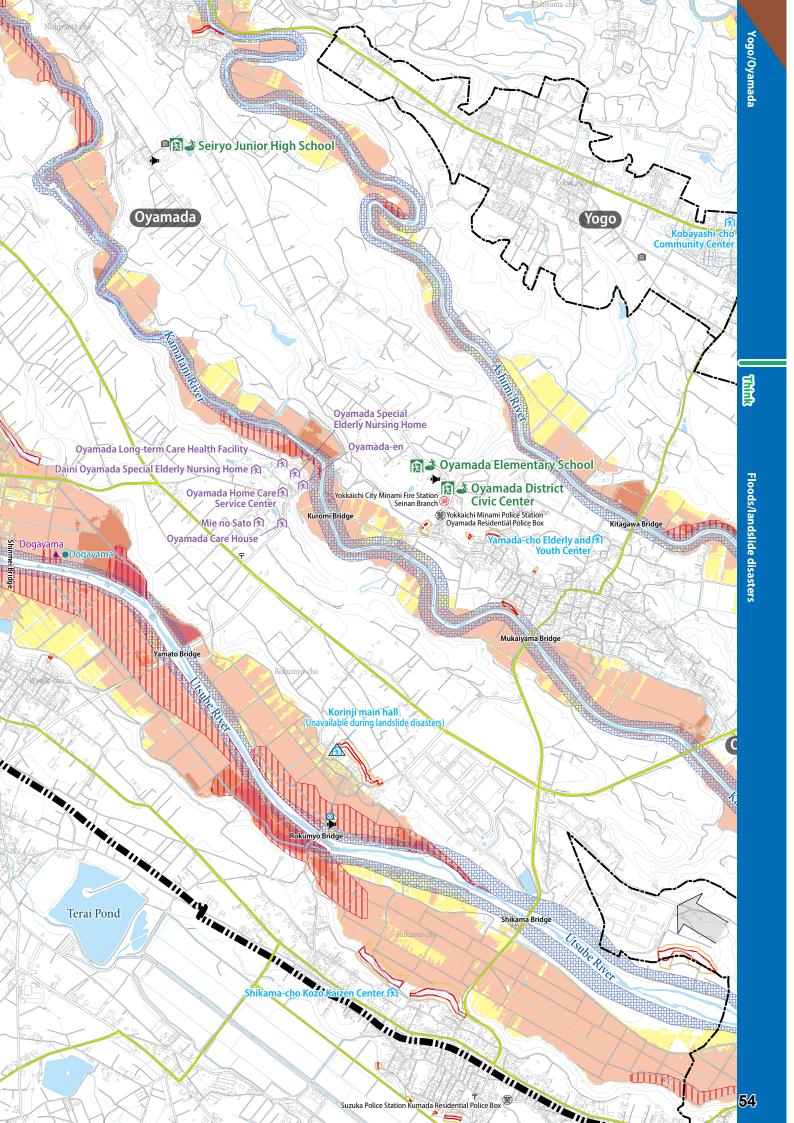


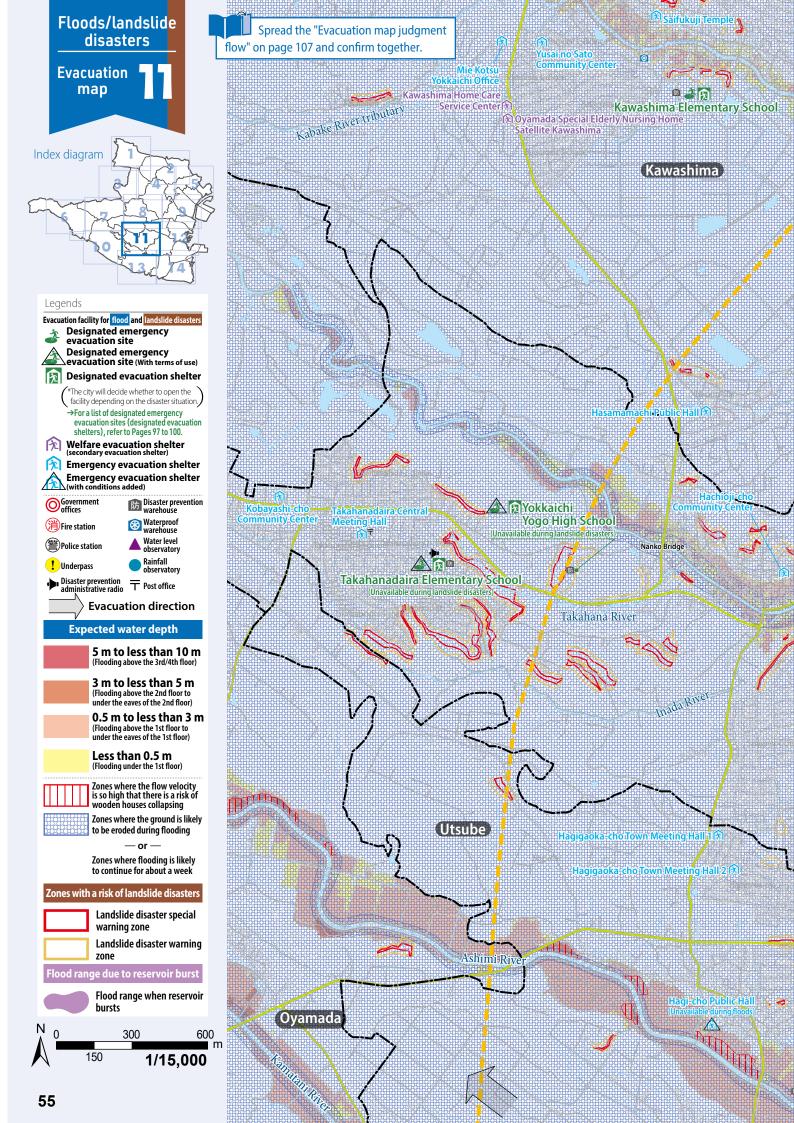


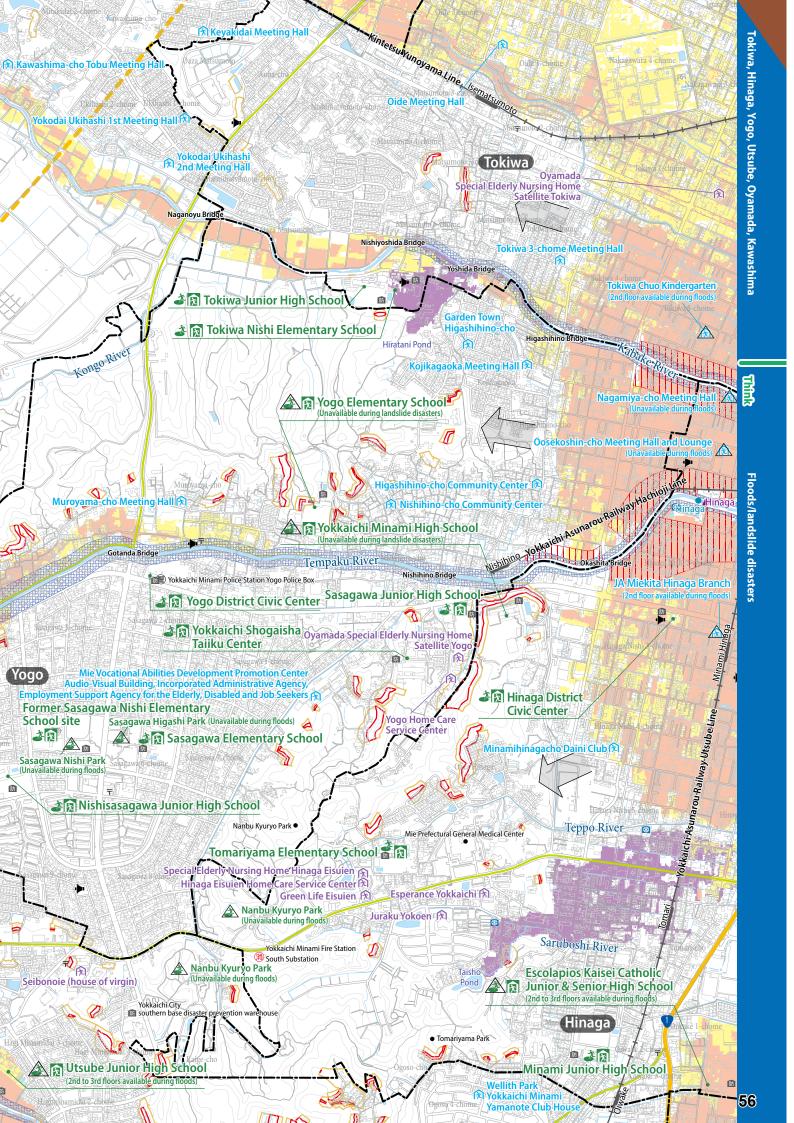


















Designated emergency evacuation site (With terms of use) Designated evacuation shelter

*The city will decide whether to open the facility depending on the disaster situation. →For a list of designated emergency

evacuation sites (designated evacuation shelters), refer to Pages 97 to 100.

Welfare evacuation shelter (secondary evacuation shelter) Emergency evacuation shelter

Emergency evacuation shelter

Government

励 Disaster prevention warehouse

#Fire station

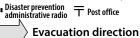
Waterproof warehouse



Water level observatory



Rainfall observatory



Post office

Expected water depth

5 m to less than 10 m

(Flooding above the 3rd/4th floor)

3 m to less than 5 m (Flooding above the 2nd floor to under the eaves of the 2nd floor)

0.5 m to less than 3 m (Flooding above the 1st floor to under the eaves of the 1st floor)

Less than 0.5 m (Flooding under the 1st floor)

Zones where the flow velocity is so high that there is a risk of wooden houses collapsing

Zones where the ground is likely to be eroded during flooding

Zones where flooding is likely

to continue for about a week

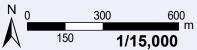
Zones with a risk of landslide disasters

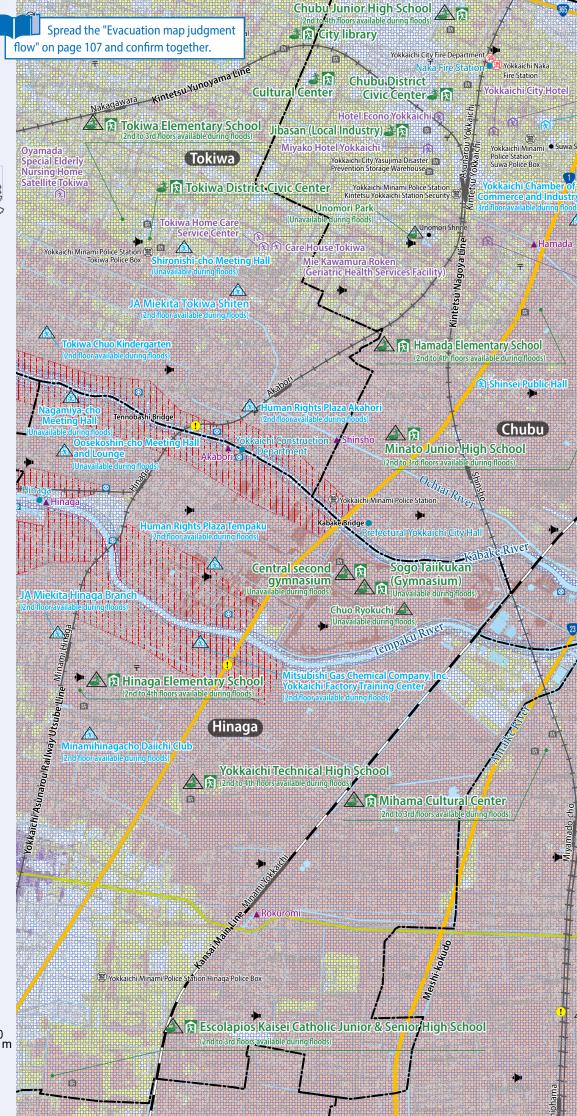
Landslide disaster special warning zone

Landslide disaster warning zone

ood range due to reservoir burst

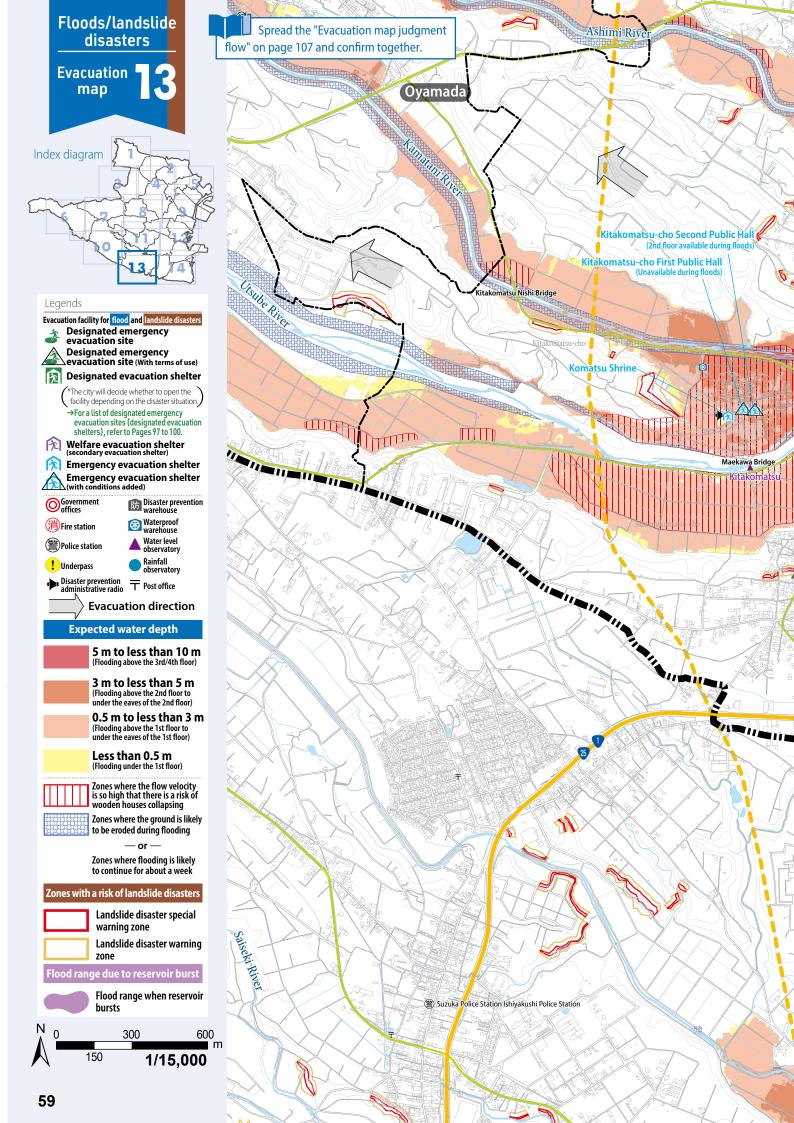
Flood range when reservoir bursts

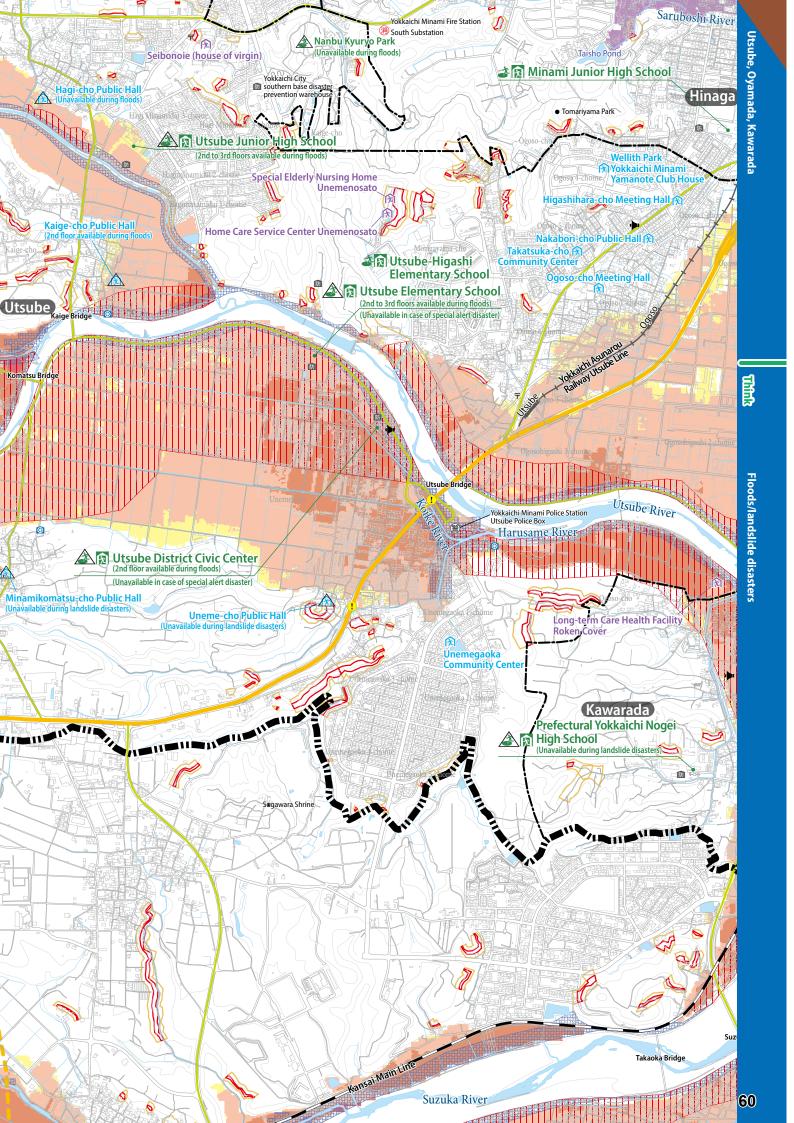


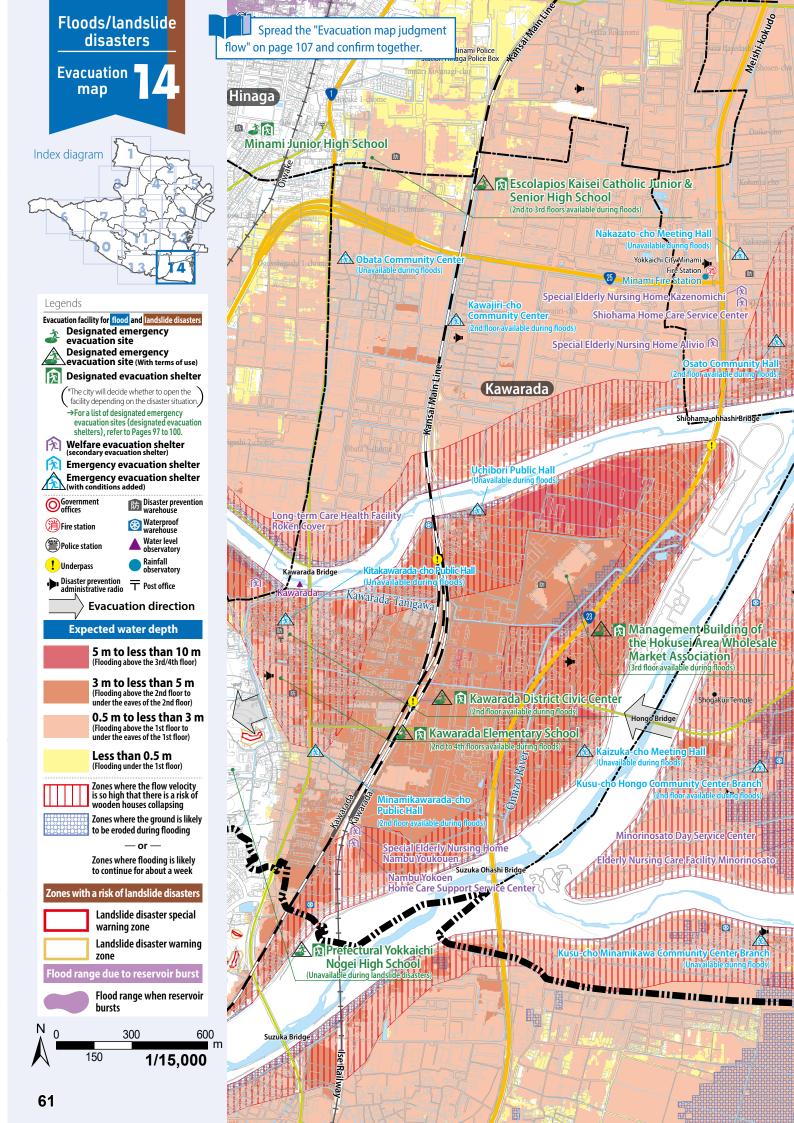




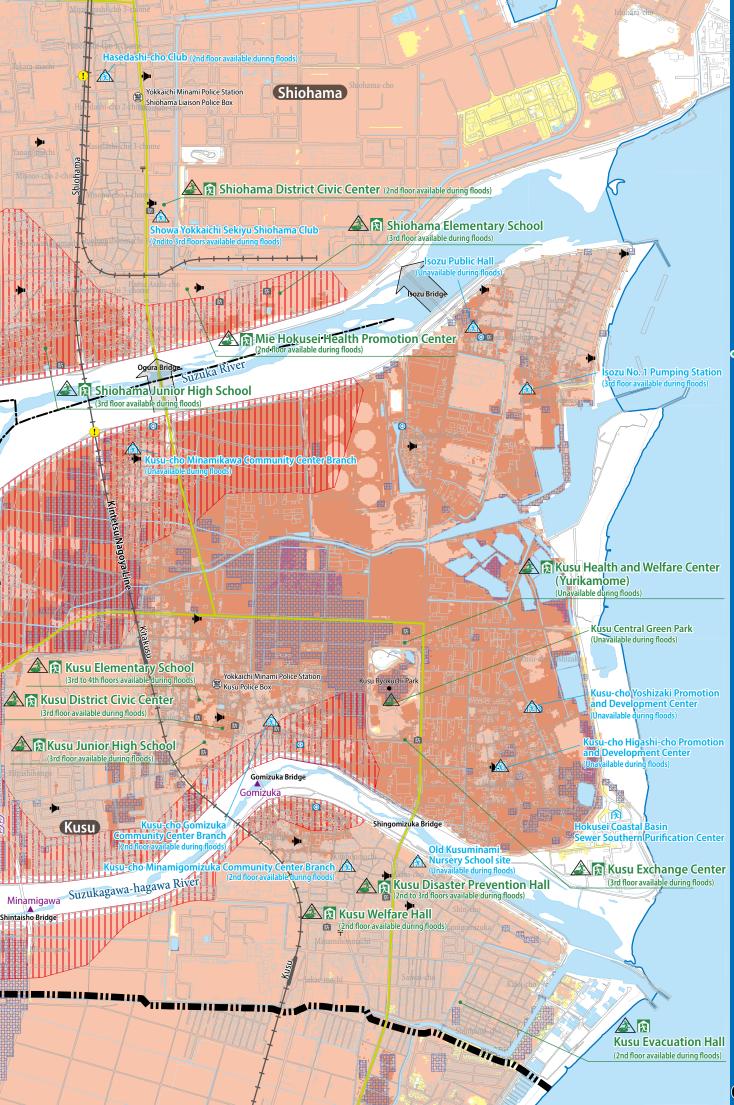












Estimated flood inundation zone map

Legends **Expected water depth** 5 m to less than 10 m (Flooding above the 3rd/4th floor) 3 m to less than 5 m (Flooding above the 2nd floor to under the eaves of the 2nd floor) 0.5 m to less than 3 m (Flooding above the 1st floor to under the eaves of the 1st floor) Less than 0.5 m (Flooding under the 1st floor) Zones where the flow velocity is so high that there is a risk of wooden houses collapsing

> Zones where the ground is likely to be eroded during flooding

Asake river system In the event of flooding of Asake River,

Tabika River, Sugitani River and/or Taguchi River



Estimated flood inundation zone map of Asake River in the Asake River system (estimated maximum scale)

Prerequisite for designation: 24-hour total rainfall of 752 mm in the Asake River basin

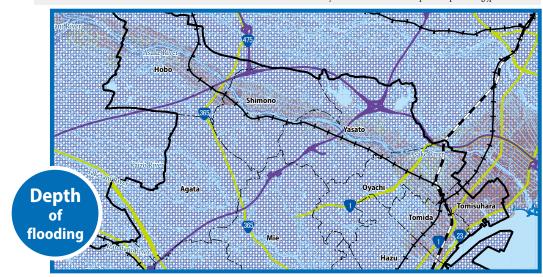
Designated date: March 21, 2017

Created by: Mie Prefecture URL:http://www.pref.mie.lg.jp/

Estimated flood inundation zone map of Tabika River, Sugitani River and Taguchi River in the Asake River system (estimated maximum scale) Prerequisite for designation: 24-hour total rainfall of 836 mm in the

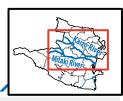
Tabika River basin Publication date: May 24, 2022

Created by: Mie Prefecture URL: http://www.pref.mie.lg.jp/



Mitaki River system and Kaizo River system In the event of flooding of

Mitaki River, Kanatani River, Yago River, Mitaki Shinkawa, Aka River, Kaizo River, and/or Taketani River



Estimated flood inundation zone map of Mitaki River, Kanatani River, Yago River, Mitaki Shinkawa, and Kaizo River in the Mitaki River system (estimated maximum scale)

Prerequisite for designation: 24-hour total rainfall in the Mitaki River basin: **779** mm; 24-hour total rainfall in the Kaizo River basin: **828** mm.

Publication date: September 22, 2017

Estimated flood inundation zone map of Yago River in the Mitaki River system (expected maximum scale)

Prerequisite for designation: 24-hour total rainfall of $\,$ 779 mm in the Yago River

Publication date: May 24, 2022

Created by: Mie Prefecture URL: http://www.pref.mie.lg.jp/

Estimated flood inundation zone map of Kanatani River and Aka River in the Mitaki River system (estimated maximum scale)

Prerequisite for designation: 24-hour total rainfall of 779 mm in the Kanatani River basin Publication date: May 24, 2022

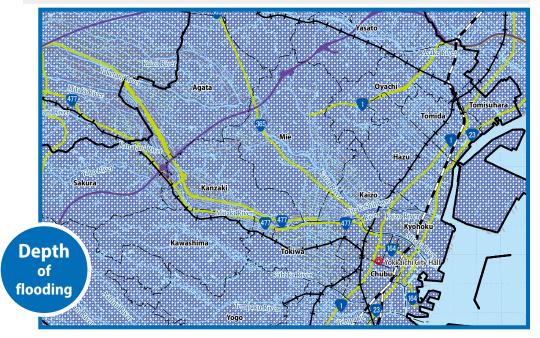
Created by: Mie Prefecture URL: http://www.pref.mie.lg.jp/

Estimated flood zone map of Taketani River in the Kaizo River system (expected maximum scale)

Prerequisite for designation: 24-hour total rainfall of 836 mm in the Taketani River basin

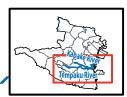
Publication date: May 24, 2022

Created by: Mie Prefecture URL: http://www.pref.mie.lg.jp/





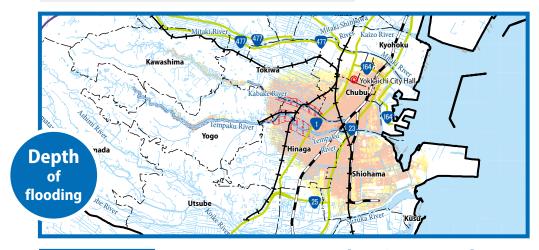
In the event of flooding of Tempaku River and/or Kabake River



Estimated flood inundation zone map of Tempaku River and Kabake River in the Tempaku River system (estimated maximum scale)

Prerequisite for designation: 24-hour total rainfall of $\,\mathbf{829}$ mm in the Tempaku River basin Publication date: May 7, 2019

Created by: Mie Prefecture URL: http://www.pref.mie.lg.jp/



Suzuka River system In the event of flooding of Suzuka River, Suzukagawahagawa River (short branch of Suzuka River), Utsube River, Kamatani River, Ashimi River, Harusame River, Koike River, and/or Tani River



Estimated Flood Inundation Zone Map of Suzuka River, Suzukagawa-hagawa River, and Utsube River in the Suzuka River system (estimated maximum scale)
Prerequisite for designation: 6-hour total rainfall of **391** mm in the Suzuka River basin

Publication date: May 31, 2016

Created by: Ministry of Land Infrastructure, Transport and Tourism, Chubu Regional Development Bureau, Mie River National Highways Office

URL: http://www.cbr.mlit.go.jp/mie/index.html

Estimated flood inundation zone map of Harusame River and Koike River in the Suzuka River system (estimated maximum scale)

Prerequisite for designation: 6-hour total rainfall of **481** mm in the Harusame River basin Publication date: May 24, 2022

Estimated Flood Inundation Zone Map of Utsube River, Kamatani River, and Ashimi River in the Suzuka River system (estimated maximum scale)

Prerequisite for designation: 24-hour total rainfall of 797 mm in the Utsube River basin, 24-hour total rainfall of 836 mm in the Kamatani River/Ashimi River basin

Publication date: May 27, 2020

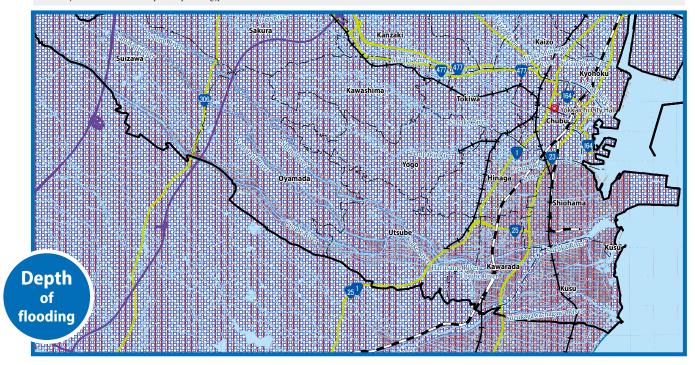
Created by: Mie Prefecture URL: http://www.pref.mie.lg.jp/

Estimated flood inundation zone map of Tani River in the Suzuka River system (estimated maximum scale)

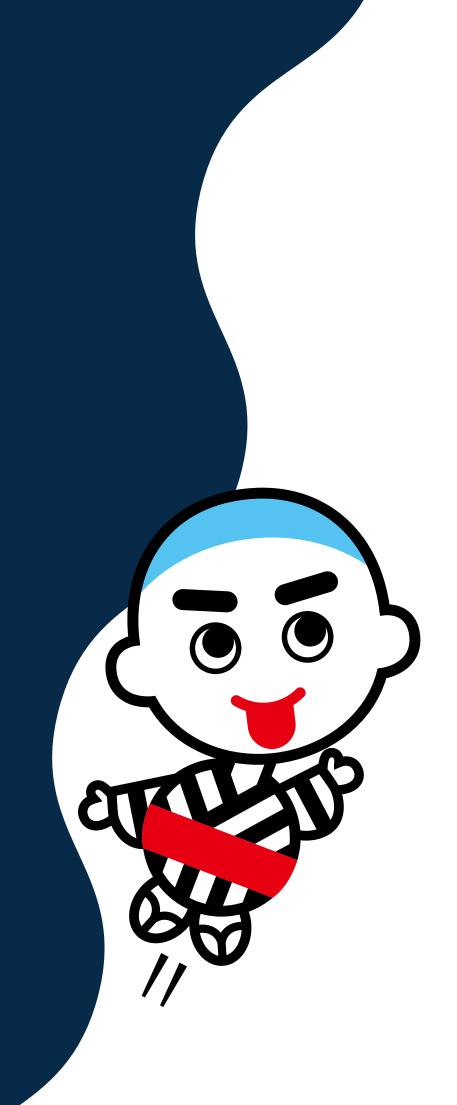
Prerequisite for designation: 6-hour total rainfall of 481 mm in the Tani River basin

Publication date: May 24, 2022

Created by: Mie Prefecture URL: http://www.pref.mie.lg.jp/

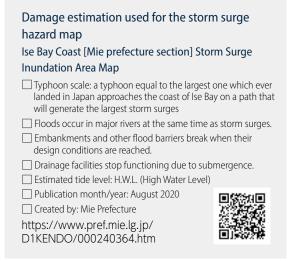


Storm surge hazard map



Look at the map, consider the possible disaster situation for your home and where to evacuate, and fill out your family evacuation plan (wind and flood damage) on pages 103 and 104.



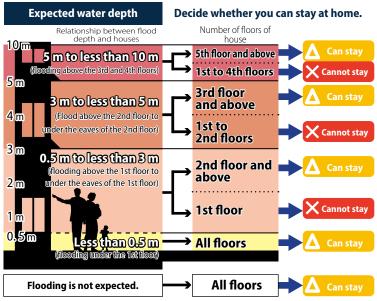


Let's take a look at the storm surge inundation depth map.









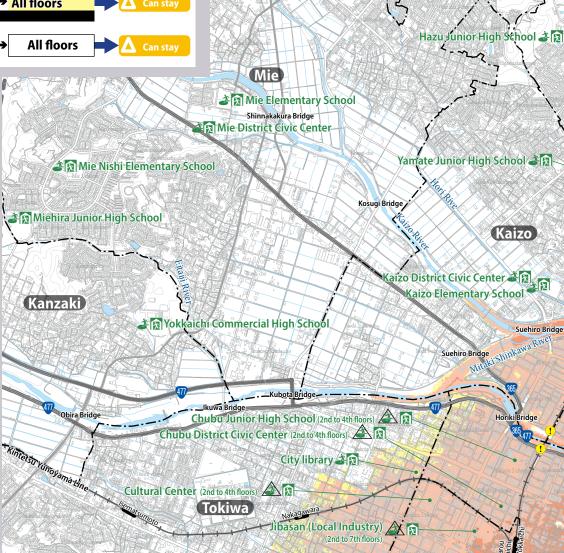
Legends Evacuation facilities for stormsurge **Designated emergency** Designated emergency evacuation site (number of floors available) Designated emergency evacuation site (unavailable) **Designated evacuation shelter** * The city will decide whether to open the facility depending on the disaster situation. For a list of designated emergency evacuation shelters (designated evacuation shelters), see pages 97 to 100.



Tokiwa Elementary School

Nishiyoshida Bridge

(2nd to 3rd floors)



Asake Junior

High School

Yasato

Kaizo

Horiki Bridge

X Unomori Park

Tokiwa District
Civic Center (2nd floor

Suehiro Bridge

Yokkaichi City Northern Base Disaster Prevention Warehouse

Yokkaichi Higashi IC

Yokkaichi Nursing and Medical Care University

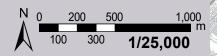
University in Yokkaichi

ম Mie Kita Elementary School

Otanidai Elementary School 🏕

Mie Prefecture wide-area disaster prevention base (Hokusei base)

Yasato Nishi Elementary School 多家



O Government offices ! Underpass

Expected water depth

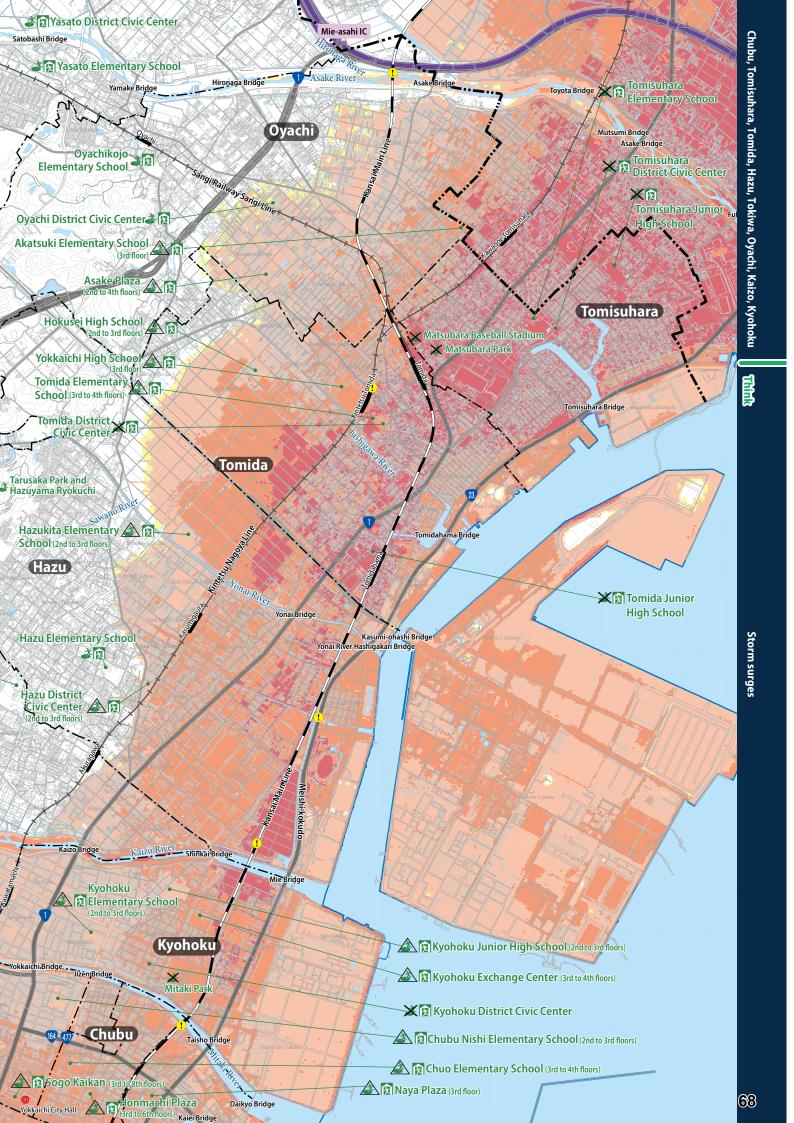
5 m to less than 10 m (flooding above the 3rd and 4th floors)

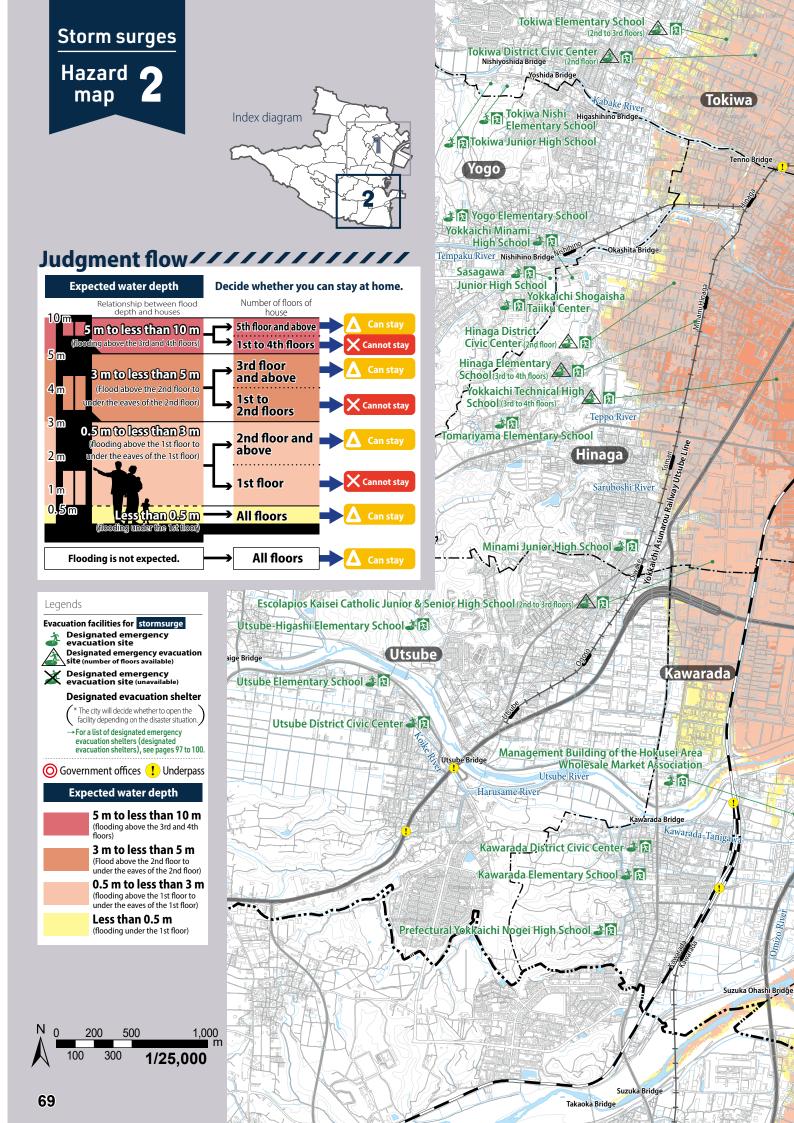
3 m to less than 5 m (Flood above the 2nd floor to

under the eaves of the 2nd floor) 0.5 m to less than 3 m (flooding above the 1st floor to under the eaves of the 1st floor)

Less than 0.5 m

(flooding under the 1st floor)

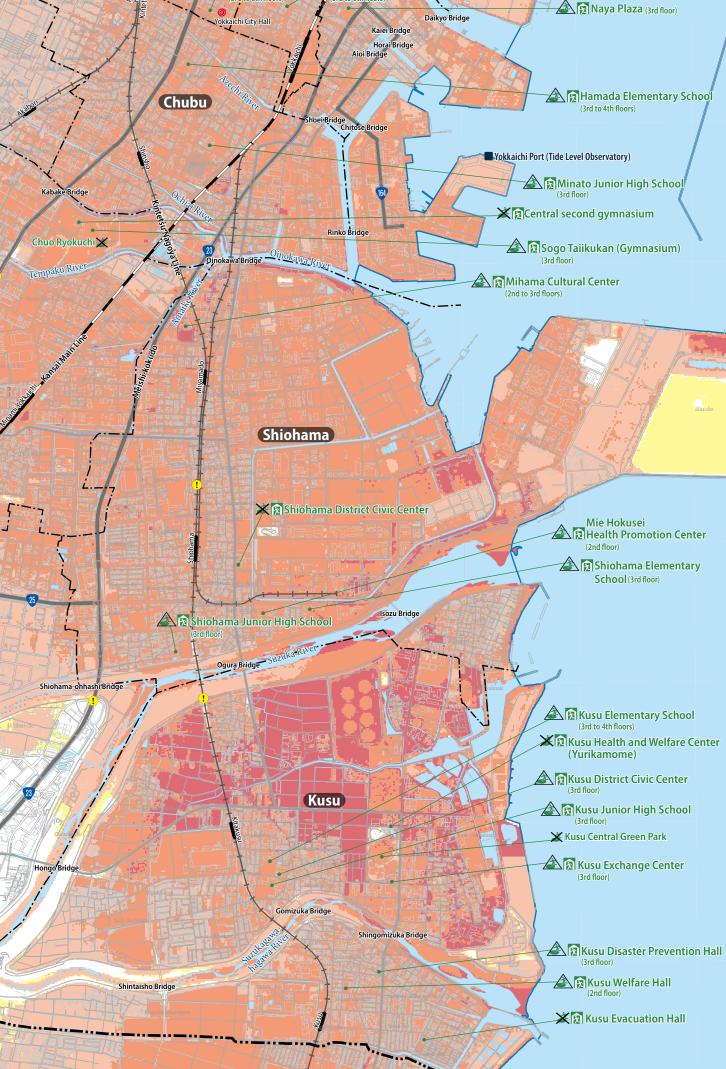






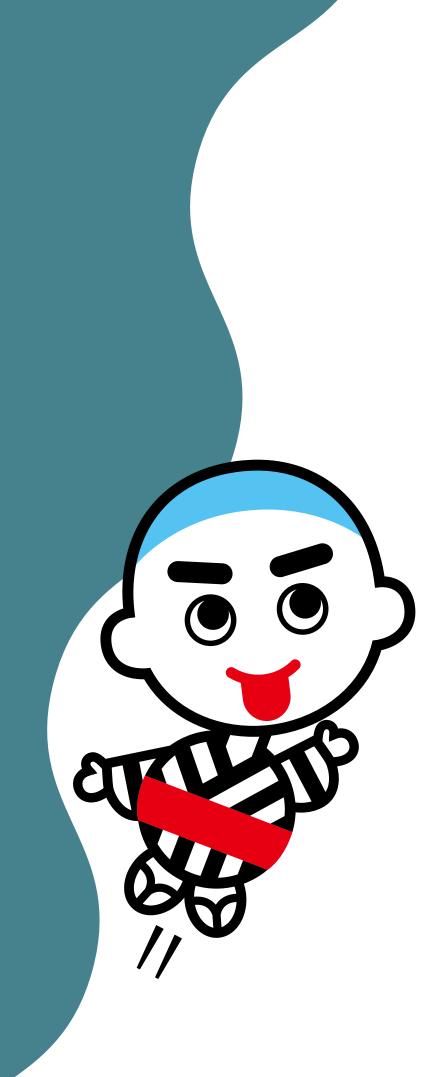
🔼 府 Chuo Elementary School

(3rd to 4th floors)

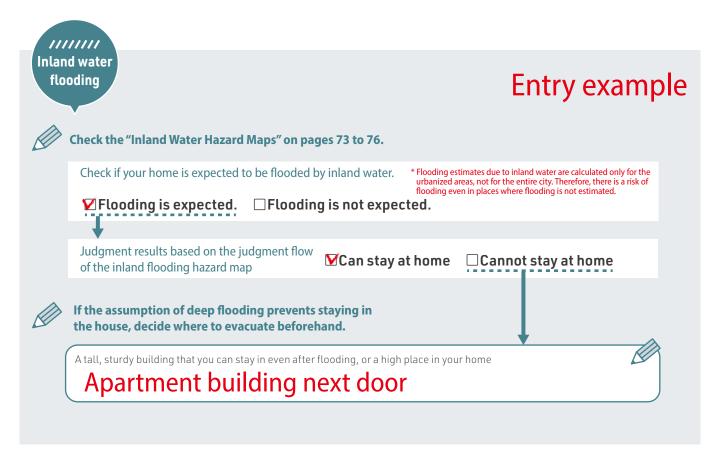


Honmachi Plaza (3rd to 6th floors)

Inland Water Hazard Maps



Look at the map, consider the possible disaster situation for your home and where to evacuate, and fill out your family evacuation plan (wind and flood damage) on pages 103 and 104.



Damage estimation used for the inland water flooding hazard map Yokkaichi city estimated flood inundation area map

- ☐ Maximum hourly rainfall: 147 mm/h

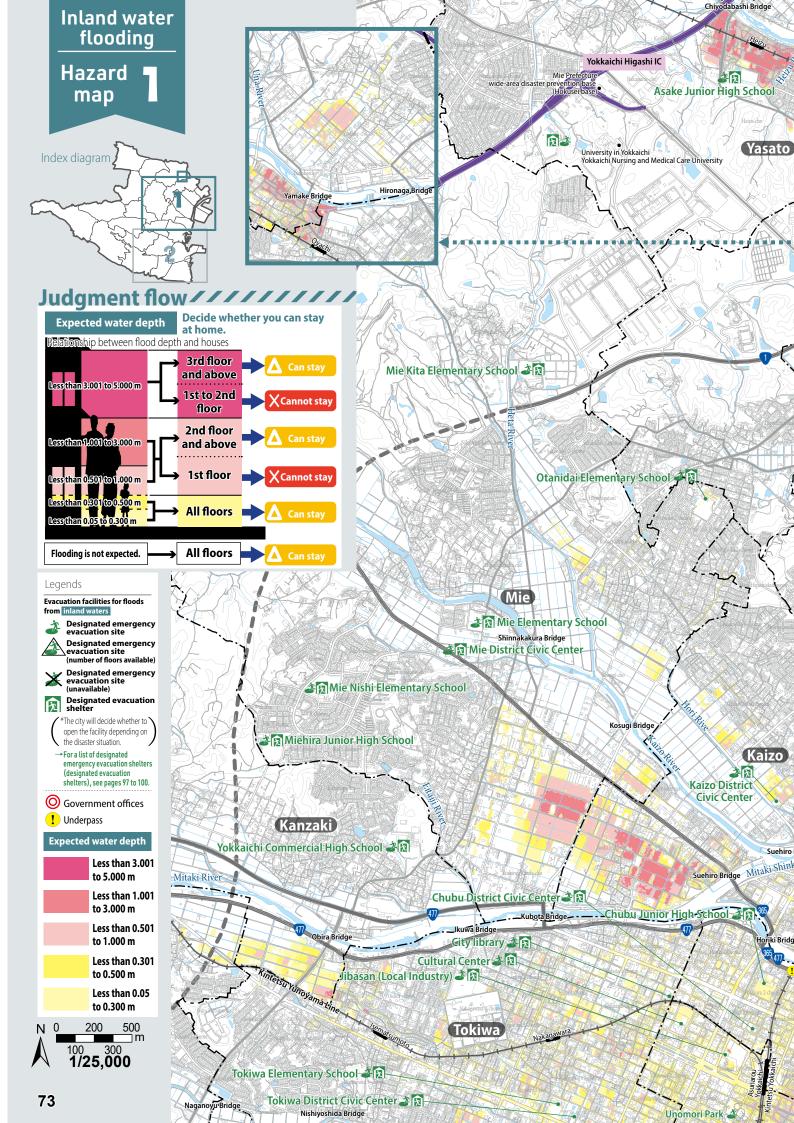
 The map is created based on the assumption of heavy rains that could occur approximately once every 1,000 years with the maximum hourly rainfall rate of 147 mm/h.
- ☐ Publication month/year: August 2020
- ☐ Created by: Yokkaichi City

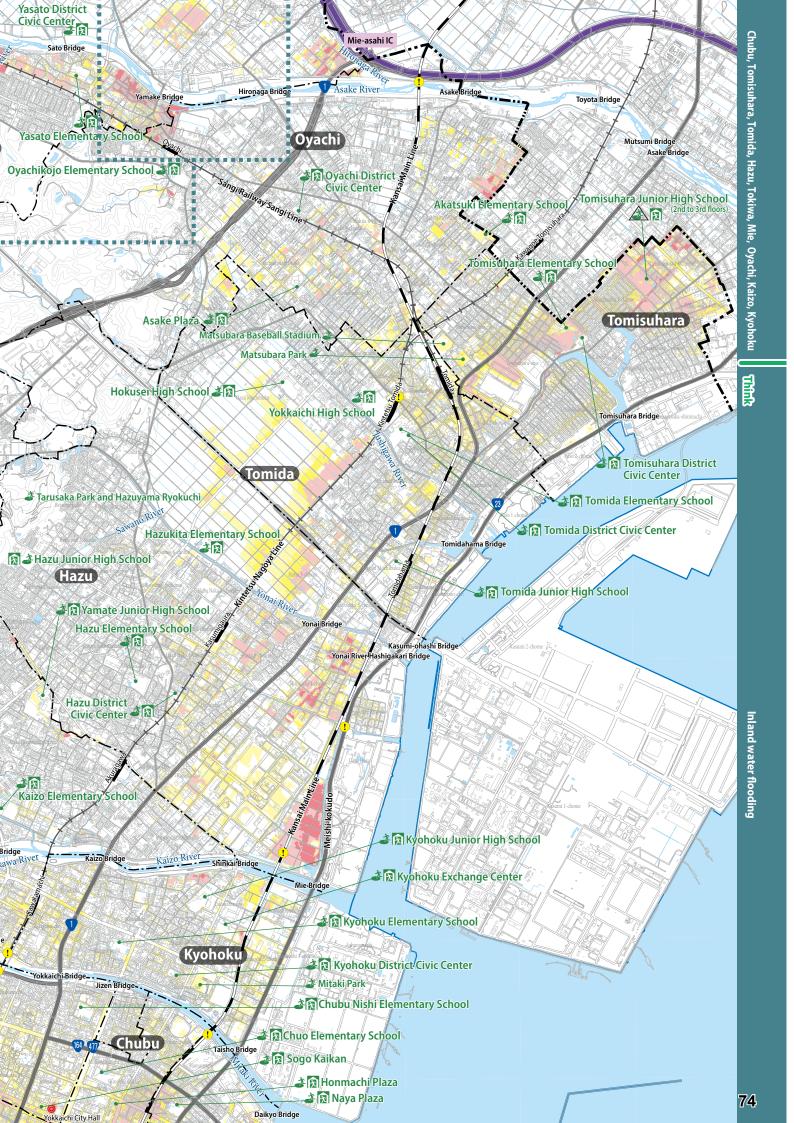
 $https://bousai2.city.yokkaichi.mie.jp/home/02_hazard_map_hinanjyo/01_hazard_map/03.html$

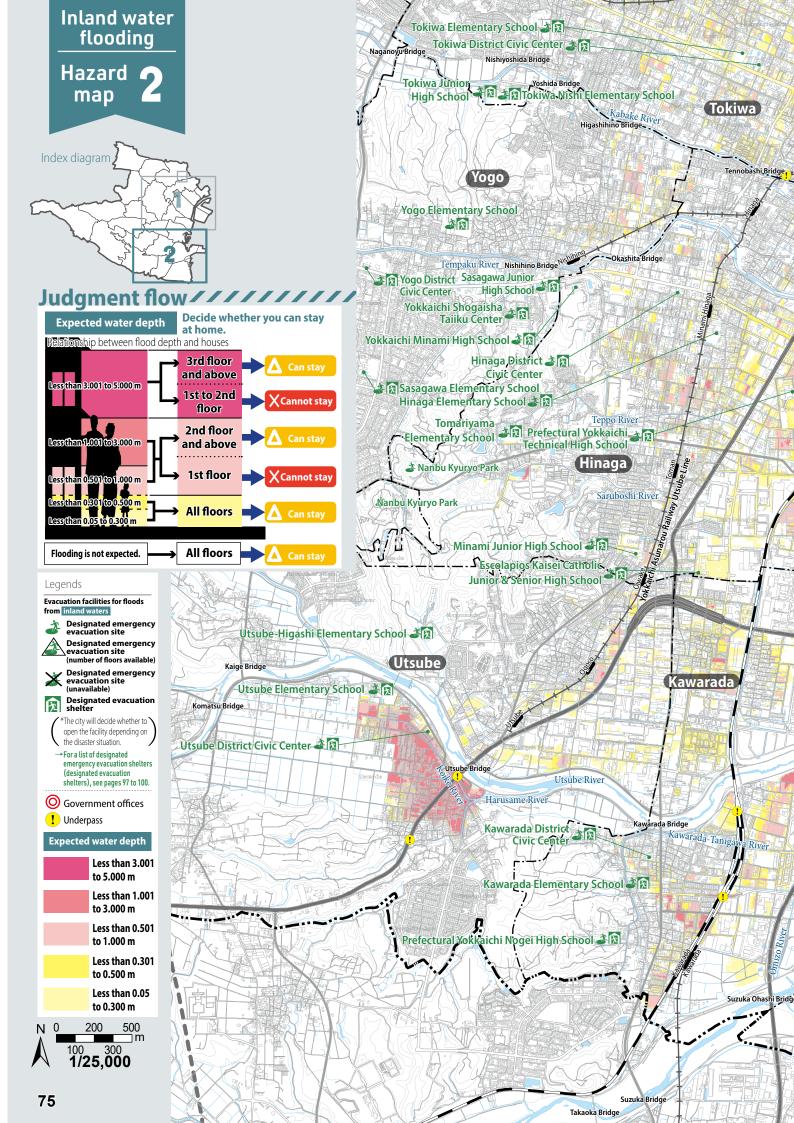


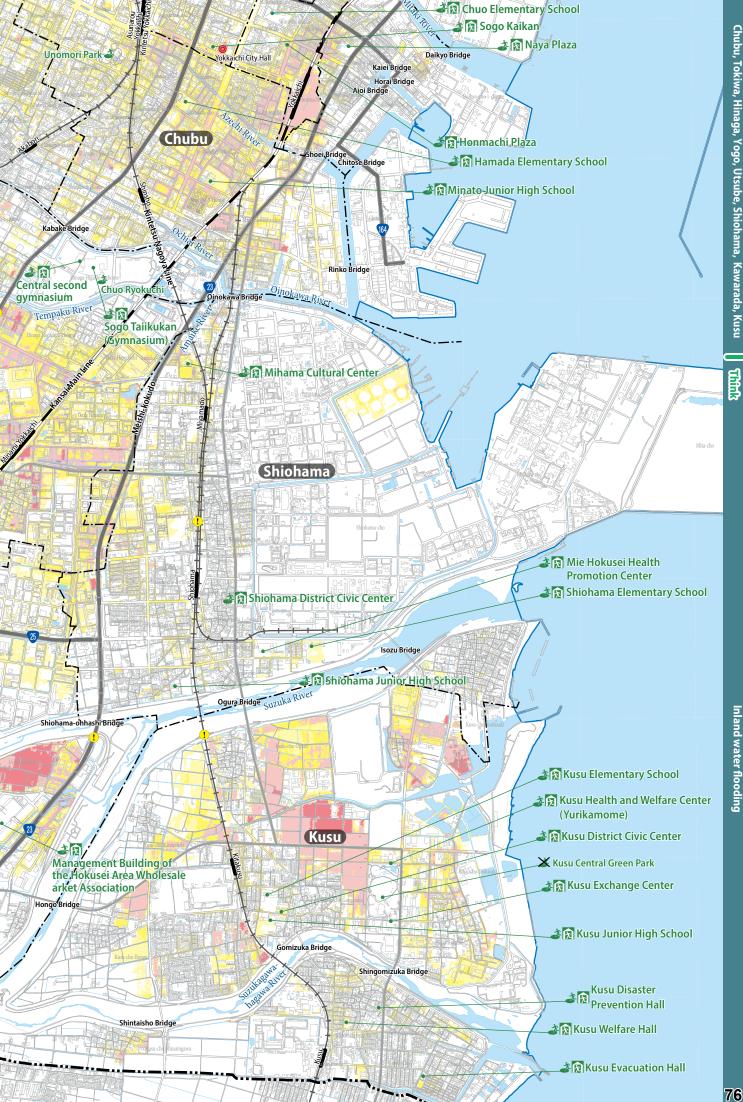
Let's take a look at the inland water inundation depth map.











Earthquake hazard map



Look at the map, consider the possible disaster situation for your home and where to evacuate, and fill out your family evacuation plan (earthquake) on page 105.

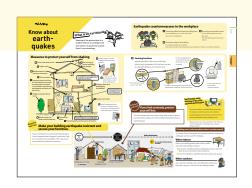


Entry example



Check "Know about earthquakes" on pages 25 and 26.

The first thing to do is to prepare in advance for the shaking. Check the earthquake resistance of your house and the way your furniture is arranged and secured.





If there is no damage to your house and no risk of fire, you do not need to evacuate from your home. Check nearby evacuation shelters in case you need to evacuate.

A place to evacuate when it is dangerous to stay inside your house

Relative's or acquaintance's house, or evacuation shelters



Elementary School



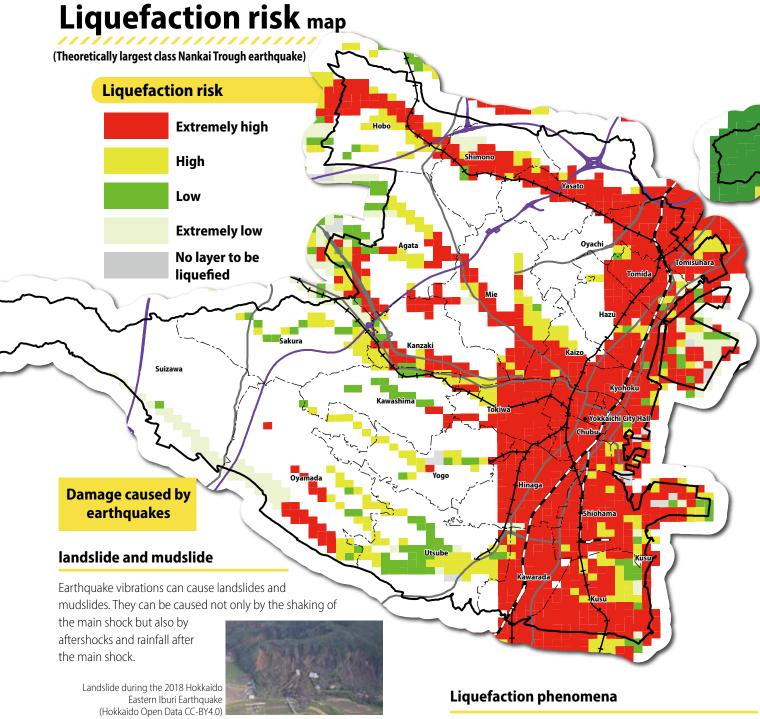
Let's take a look at the liquefaction risk map and seismic intensity distribution map.





Mie Prefecture surveyed earthquake damage estimates in FY2013, referencing the damage estimates for the Nankai Trough mega-earthquake published by the government in FY2012.

The survey estimated the seismic intensity distribution, liquefaction risk distribution, etc., targeting not only earthquakes of two magnitudes in Nankai Trough but also three active faults of the "Yoro-Kuwana-Yokkaichi Fault Zone," the "East Nunobiki-sanchi-toen Fault Zone," and the "Tongu Fault."



Reservoir embankment burst

When a large earthquake occurs, cracks and landslides occur in

embankments, and ground liquefaction occurs, increasing the risk of embankment burst.



Reservoir hazard map

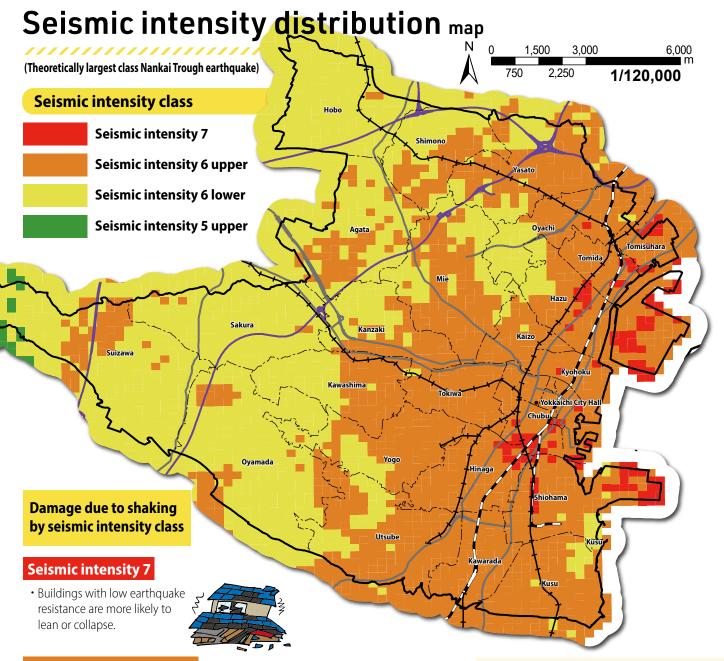
https://www.city.yokkaichi.lg.jp/www/contents/166 1993893908/index.html



When the ground liquefies due to earthquake vibrations, damage can occur, such as tilting of buildings, breaking of underground gas and water pipes, and gushing of water mixed with sand onto the ground.



Liquefaction damage caused by the Great East Japan Earthquake (Institute of Scientific Approaches for Fire & Disaster)



Seismic intensity 6 upper

- Cannot move without crawling, and may be blown away
- Large cracks in the ground, large-scale landslides, and forest collapse may occur.

Seismic intensity 6 lower

- Difficult to keep standing
- Wall tiles and window glass may be damaged or may fall.

Seismic intensity 5 upper

- · Difficult to walk without holding on to something
- Furniture that is not secured may fall over.
- · Unreinforced block walls may collapse.

Seismic intensity 5 lower

- · Most people feel fear and want to hold on to something.
- Dishes on the shelves and books on the book shelves may fall.









Mie Prefecture Earthquake Damage Estimation Survey for FY2013

A predicted liquefaction risk distribution map and a predicted seismic intensity distribution map have been created, targeting the following five estimated earthquakes:

- The largest-class Nankai Trough earthquake ever recorded
- ☐ Theoretically largest class Nankai Trough earthquake (damage assumption used for the map on this page)
- Earthquakes with epicenters on active faults in the land area (Yoro-Kuwana-Yokkaichi Fault Zone)
- ☐ Earthquakes with epicenters on active faults in the land area (East Nunobiki-sanchi-toen Fault Zone)
- ☐ Earthquakes with epicenters on active faults in the land area (Tongu Fault)
- ☐ Created by: Mie Prefecture

Predicted liquefaction risk distribution map

https://www.pref.mie.lg.jp/D1BOUSAI/ 84543007860.htm

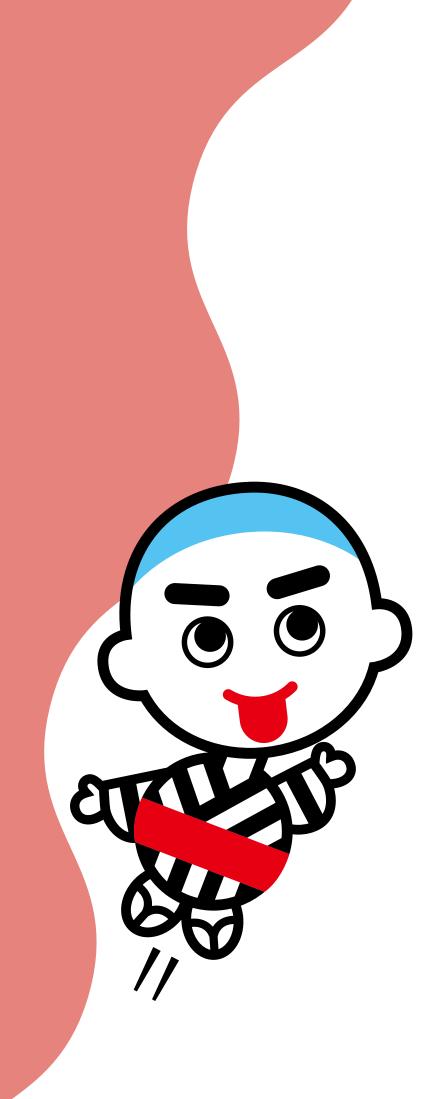


Predicted seismic intensity distribution map

https://www.pref.mie.lg.jp/D1BOUSAI/ 84541007863.htm



Isunami hazard map



Look at the map, consider the possible disaster situation for your home and where to evacuate, and fill out your family evacuation plan (tsunami) on page 105.



Entry example



Check the "Tsunami Arrival Time Maps" on pages 87 to 90.

Check if your home is expected to be flooded by a tsunami.

▼Flooding is expected. □ Flooding is not expected.

Time until tsunami arrives

90 minutes



Check the "Tsunami Inundation Depth Maps" on pages 83 to 86.

In order to complete your evacuation before the tsunami arrives, decide where to evacuate, considering the time it will take to evacuate.



Places to evacuate if you feel strong or long-lasting shaking

Relative's or acquaintance's house, evacuation shelters on the mountain side of the tsunami evacuation target line, or a high building far from

Aunt's house on a hill

Time required for evacuation 35 minutes



If you fail to evacuate early...

Where to evacuate if you do not have enough time to go far awa

Nearby tsunami evacuation buildings, tall buildings, high places, etc.



Time required for evacuation 3 minutes





Decide where to meet up if your family evacuates to a faraway place.

Meeting place after tsunami warning is lifted

Grandma's house



Damage estimation used for the tsunami hazard map Mie Prefecture Earthquake Damage Estimation Survey for FY2013

Target tsunami earthquake

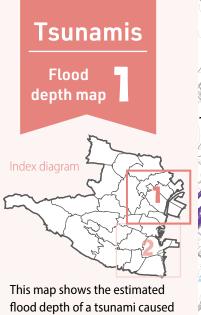
- ☐ Nankai Trough Earthquake: one of the largest theoretically possible earthquakes
- ☐ Created by: Mie Prefecture

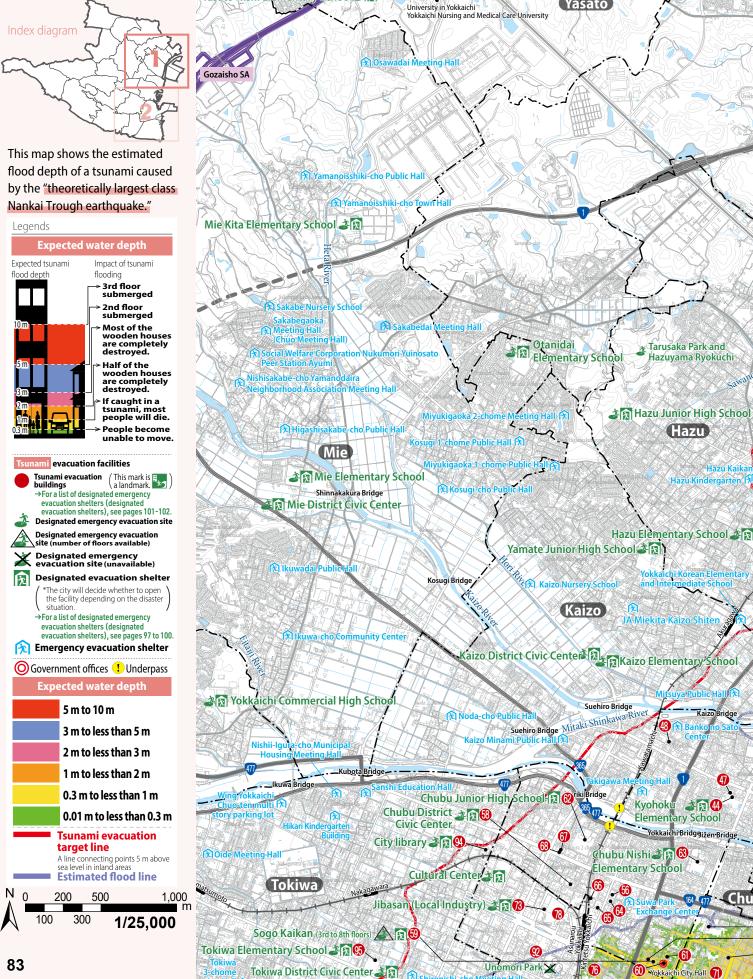
https://www.pref.mie.lg.jp/common/02/ci500003606. htm



Let's take a look at the tsunami inundation depth map and arrival time map.







katsukidai Meeting Hall

Yasato Nishi Elementary School

Yasato District Civic Center 🚁 🔊

沙宛

Hazuyama Ryokuchi

Hazu

Yokkaichi Bridggizen Bridge

Yokkaichi Higashi IC Asake Junior High School Yasato Elementary School

Yasato

Myokkaichi City Northern Base Disaster Prevention Warehouse



Mie Kawagoe IC

Asake Bridge

Tomisuhara Junior High School

Tomida District Civic Center

Tomisuhara District Civic Center

②▲ 🛱 Tomisuhara Elementary School

(3rd floor)

(3rd to 4th floors)

Fukusaki Bridge





🔞📤 🛐 Tomida Junior High School

Look at the map and think. Where do you evacuate?

Mie-asahi IC

Akatsuki Elementary School য়ি 🐠

Oyachi

Asake Rlaza And Matsubara Baseball Stadium

Yokkaichi High School

Tomida

Hazukita Elementary School

Yonai Bridge

Kasumi-ohashi Bridge

Yonai River Hashigakari Bridge

(City Chamber of

cho Community Center

Matsubara Park 🔀

Sanginailivay Sangirtine Discrict Civic Center

Hokusei High School & 🔁 📵

40 🌛 🛐

0

Hazu

District Civic Center

Kaizo River Shinkai Bridge

Kyohoku

49

Taisho Bridge

Daikvo Bridge

Tomida Elementary School (3rd to 4th floors)

Asake Bridge

1

優 🎝 Kyohoku Junior High School

Kyohoku Exchange Center
(3rd to 4th floors)

💥 Mitaki Park

® B School

🛈 🏕 🔁 Naya Plaza

🔞📤 🖻 Honmachi Plaza

🔀 Kyohoku District Civic Center

Chuo Elementary

(3rd to 6th floors)

Mutsumi Brida Asake Bridge

Tomisuhara

Tomisuhara Bridge

In principle, you should go somewhere far away and high up.

Early evacuation destination Evacuation sites on the mountain side or places higher than the tsunami evacuation target line

Evacuation destination in case you fail to escape

Nearest tsunami evacuation building or tall building

Measure the distance on the map.





Measure approximate time on the map.

84

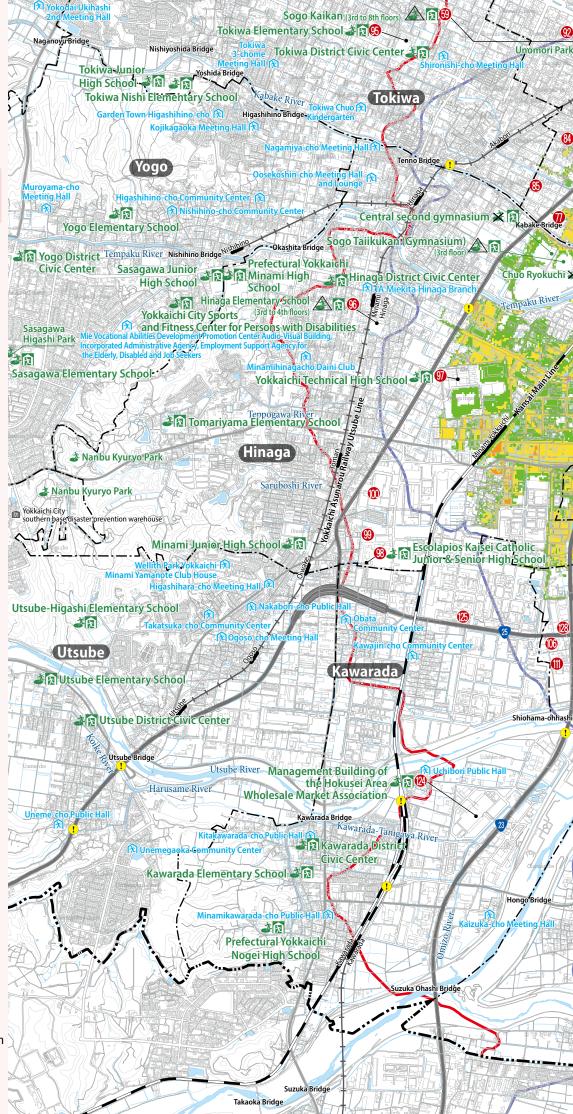
Tsunamis Flood depth map



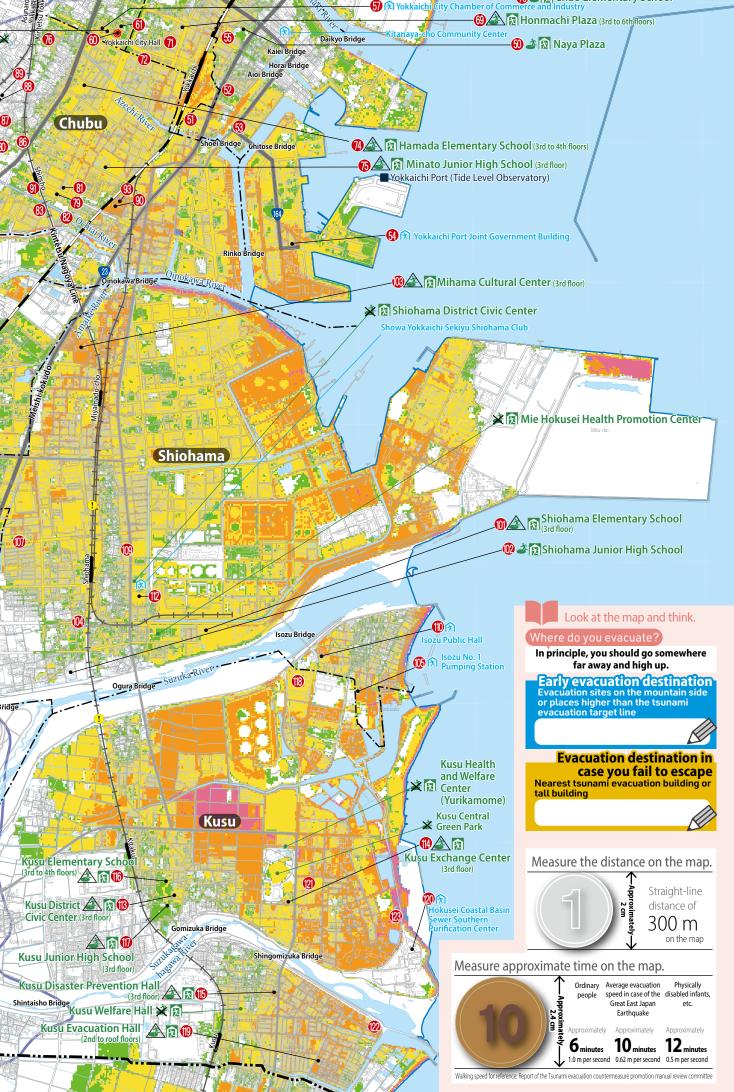
This map shows the estimated



1/25.000



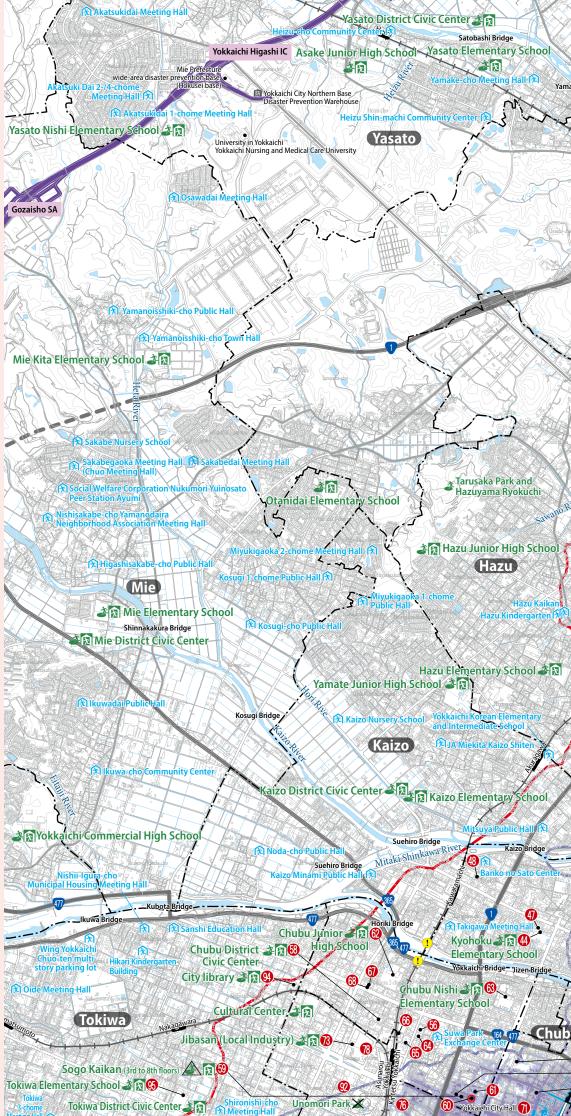




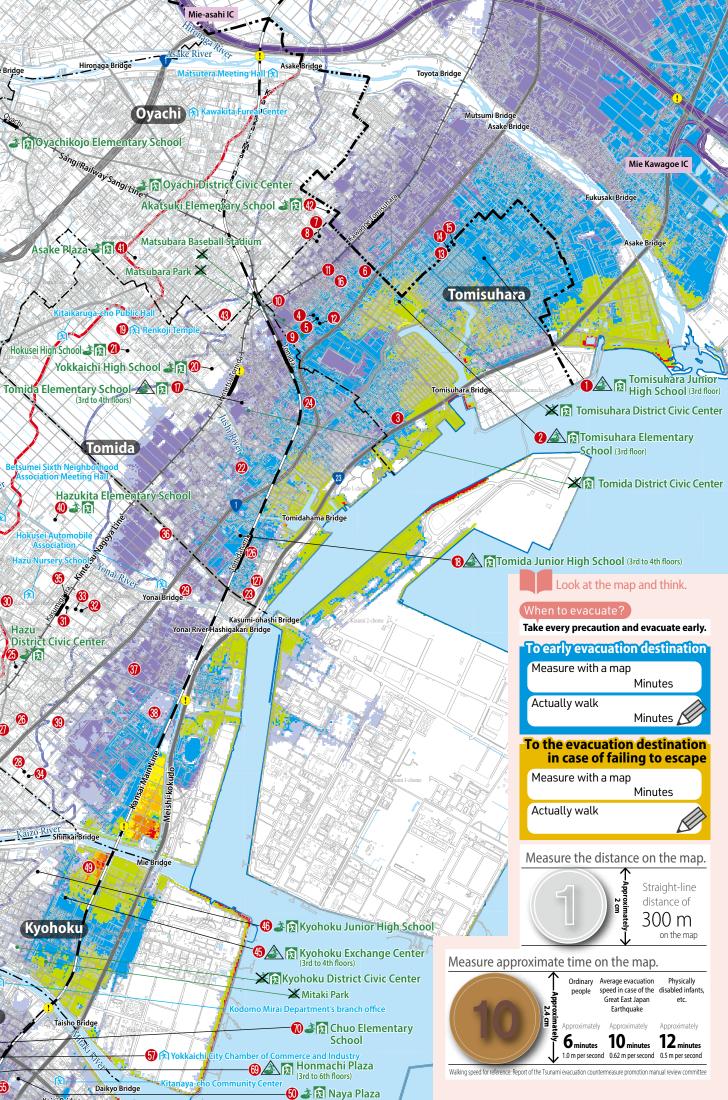


This map shows the time taken for a tsunami with a flood depth of 30 cm to reach the area after an earthquake occurs. (Based on assumption of tsunami flooding due to "theoretically largest class Nankai Trough earthquake")



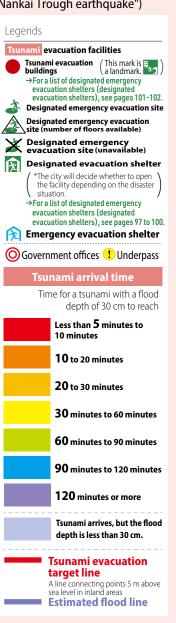




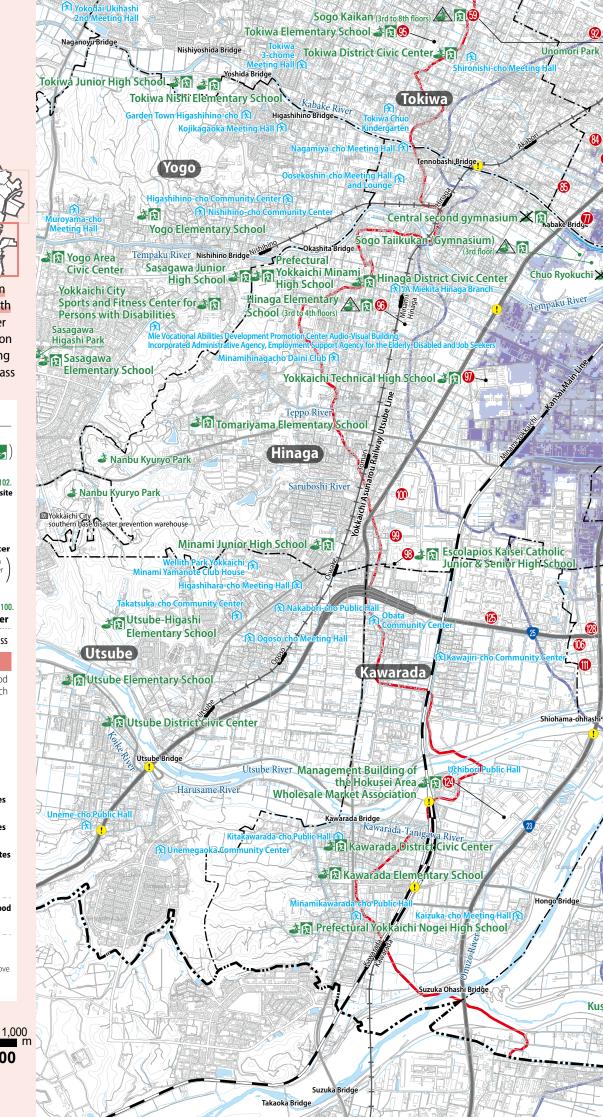




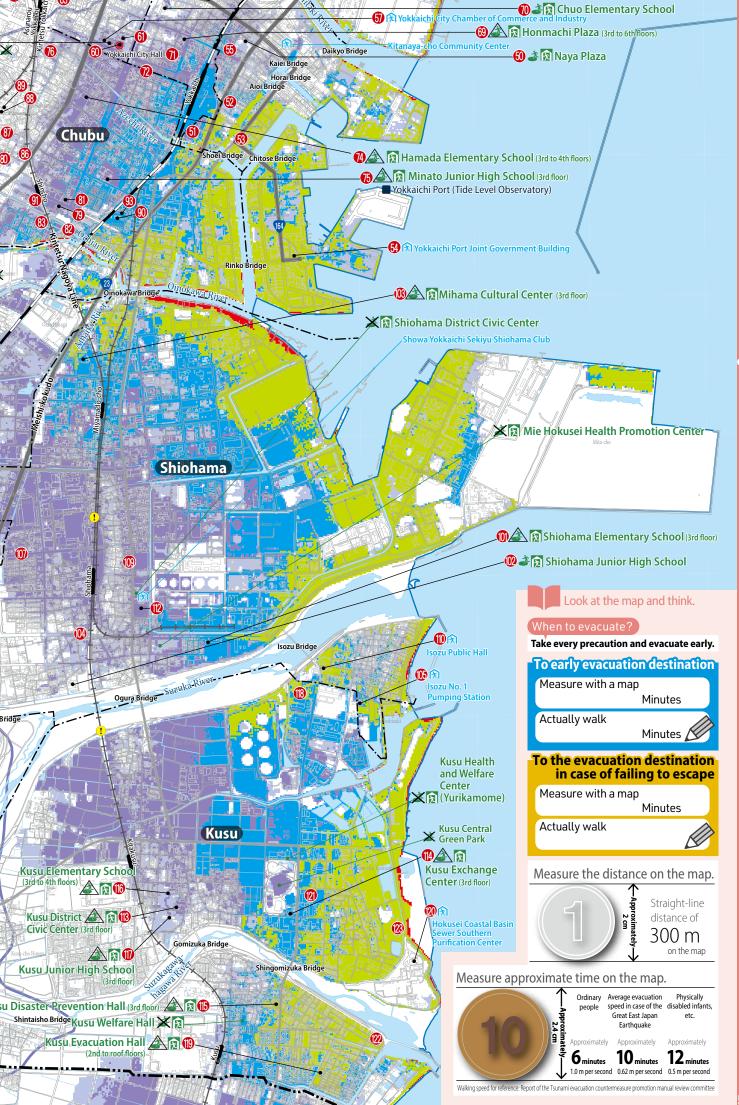
This map shows the time taken for a tsunami with a flood depth of 30 cm to reach the area after an earthquake occurs. (Based on assumption of tsunami flooding due to "theoretically largest class Nankai Trough earthquake")



1/25.000









Prepare



In disaster prevention, the most important thing is to take precautions in advance!

There are limits to what can be done after a disaster occurs. Let's prepare in advance to protect lives from disasters.

Prepare by yourself

"Protect your life by yourself."



- Protecting your own life helps protect the lives of your family and the community. First, take action to protect your own life.
- There is no such thing as ``Disasters won't happen to me." Let's think in advance about what to do in an emergency without being bound by assumptions.
- Think of disasters as a personal matter and prepare for them independently without relying on others.

Prepare as a family

"Protect the lives of your family by yourselves."



- Disaster preparations differ depending on each household's circumstances, such as family composition and house structure. Check the risks faced by your house.
- Discuss with your family and confirm the means of contact and evacuation locations in case of an emergency.
- Be sure to proactively check the preparedness of not only yourself but also your family and loved ones.

Prepare as a community

"Protect your community by yourselves."



- In case of emergency, it is the power of the community that you can rely on. Try to build face-to-face relationships by actively participating in local events and disaster prevention activities.
- Don't hesitate to evacuate; in an emergency, urge each other in your neighborhood to evacuate together.
- Be aware of people with physical disabilities and foreigners in your community in advance. Work together to confirm their safety and assist them in evacuation.

Emergency goods/Stockpiled supplies

Emergency goods

Prepare the minimum necessary items as emergency items so that you can evacuate immediately with them. A backpack that leaves both hands free is a good option for an emergency bag. Try carrying it on your back to see if it's too heavy.

Items to keep in your emergency bag (backpack, etc.)

□ Drinking water

*Minimum so as not to be too heavy (about 2 to 3 500 ml plastic bottles)



☐ Emergency food

*Items that have a long shelf life and can be eaten without cooking



_				
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- ☐ Cash ☐ Health insurance card
- ☐ Bank book ☐ Driver's license
- ☐ Name stamp ☐ My number card

*In the event of a disaster, electronic payment may not be possible due to power or network outages. Be sure to have cash (small change) ready.



- ☐ Disinfectant ☐ Mask
- ☐ Bandage ☐ Thermometer
- ☐ Sling ☐ Slippers



Others

- ☐ Whistle
- ☐ Thick gloves (work gloves)
- ☐ Clothing (outerwear, underwear, socks)
- ☐ Hand warmer
- ☐ Plastic bag
- ☐ Sanitary products

- ☐ Helmet/disaster hood
- Rain/cold weather gear
- ☐ Towel/handkerchief
- ☐ Knife/can opener
- ☐ Disposable tableware (chopsticks, paper plates)
- ☐ Female sanitary items

- ☐ Shoes with sturdy soles
- ☐ Battery-powered charger/mobile battery
- ☐ Portable toilet
- ☐ Tissue paper/wet tissue
- ☐ Toiletries
- ☐ Yokkaichi City Disaster Prevention Hazard Map

Necessary items depending on family structure and circumstances

Infant

- ☐ Baby Food
- ☐ Powdered milk/ liquid milk
- ☐ Diapers
- ☐ Baby wipes etc.

Pregnant woman

- ☐ Maternal and child health handbook
- ☐ Absorbent cotton 【##
- ☐ Gauze
- ☐ Newborn supplies etc.



Senior citizen

- ☐ Dentures
- ☐ Nursing care food
- ☐ Adult diapers etc.



Person with a disease

- ☐ Attending physician contact information
- ☐ Medicine for chronic disease
- ☐ Prescription record book etc.



おくすり手帳

おくすり

Pet

- ☐ Lead
- ☐ Cage
- ☐ Toilet supplies
- ☐ Pet food etc.



Others

- ☐ Hearing aids etc.



Stockpiled supplies

Stockpiled supplies in the evacuation shelter are limited. It is also necessary to consider the possibility that relief supplies may not arrive for several days after the occurrence of a disaster.

Therefore, you will feel safe if you prepare enough daily necessities for yourself and your family.

Emergency stockpiled supplies

- More than 7 days worth of food
 - Rice that can be eaten by adding water (pregelatinized rice)
 - ☐ Canned food
 - ☐ Hardtack
 - ☐ Instant retort food
 - ☐ Nutritional supplement
 - ☐ Sweets
 - □ Seasoning
 - ☐ Soup etc.

- More than 7 days worth of drinking water
 - ☐ Per adult
 - 3 liters per day
 - *The approximate amount of water required per day for each person is 2.5 liters in total, including meals and sports drinks.
- □ Toilet supplies
 - ☐ Simple toilet (toilet bag)
 - ☐ Container for storing waste
 - ☐ Toilet paper

- ☐ Fuel etc.
 - ☐ Cassette stove
 - ☐ Gas cylinder etc.
- □ Domestic water
 - *Use of leftover bath water, storage of water in a plastic tank, etc.
- ☐ Food wrap film
 - *Save water by covering dishes, etc.

What is rolling stock?

This way always keeps food stocked at home by buying a little more food and processed products than usual, and then buying new ones as they are used.

Keep a little more stock of food and processed products than usual.



Stocking up on delicious food will keep you energized in case something happens!

Buy only what

is used.

Let's carry an emergency bag!

A backpack that leaves both hands free is a convenient emergency bag.

Try carrying it on your back beforehand to see if it's too heavy.





Self-help, mutual help, and public help

Collaboration of self-help, mutual help, and public help

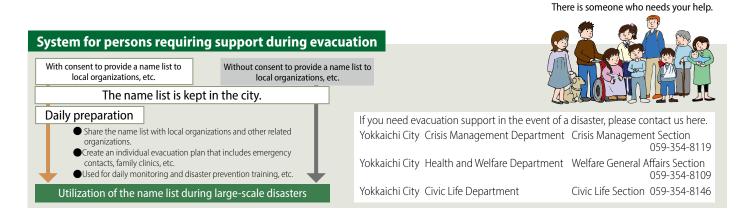
When a large-scale disaster occurs, good collaboration of "self-help," "mutual help," and "public help" is important to minimize the damage. The basic principle of disaster prevention is that you have to protect your own safety.

It is important for you, the local community, and the government to share the roles and help each other to move forward with disaster prevention measures.



Cooperating with each other in local communities to support people who require special care

There is a system in place to support each other in the community for those who are unable to evacuate on their own and need support, such as the elderly and people with disabilities, when a large-scale disaster occurs. The city creates a list of people who need support, "List of people who need support during evacuation," to establish a support system in the event of a disaster and to prepare for emergencies.



The power of the area

The fire department provides districts and voluntary disaster prevention organizations with technical guidance on fire extinguishing, rescue, etc. The fire departments, districts, voluntary disaster prevention organizations, and local crime prevention organizations also work together to strengthen regional cooperation in preparation for large-scale disasters.

In addition, voluntary disaster prevention organizations are formed by local residents for the purpose of working together to "protect their own areas by themselves" from disasters. They make various efforts to prepare for disasters on a daily basis, and in the event of a disaster, they carry out activities to minimize the damage caused by the disaster.

When a disaster occurs, some people cannot evacuate alone and need help. In case of emergency, it is the power of the community (mutual help) that we can rely on. Let's call out to each other on a daily basis and actively take part in local drills to make a disaster-resistant district.



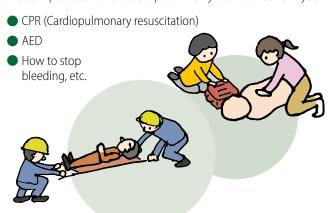
Even if there is information calling for evacuation, we tend to hesitate to evacuate alone.

The decision to evacuate will be made easier by establishing an evacuation system in your community in advance.



First aid that you should know

During large-scale disasters, many people get injured. Be sure to acquire first aid knowledge and skills in normal times so that you can provide simple treatment or transport when you or someone in your family or around you gets injured or collapses.



Yokkaichi City Fire Department provides first aid training.

Yokkaichi City Fire Department

CPR procedure, first aid training application form, a list of AED installation locations, etc.



https://www.city.yokkaichi.mie.jp/syoubou/emergency_front/index.html

Emergency front line

List of Designated Emergency **Evacuation Sites 1**

Designated emergency evacuation sites are designated for each type of disaster. Please note that which evacuation sites ca disaster.

Types and roles of evacuation shelters



Designated emergency evacuation site

A place for temporary evacuation to avoid danger during a disaster It will also serve as a place for people unable to return home to wait until public transportation is restored.



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Designated evacuation

Facilities for temporarily accommodating evacuated residents affected by the disaster until the danger of the disaster subsides. The city will decide whether to open the shelters depending on the disaster situation.



Welfare evacuation shelter (secondary evacuation shelter)

Welfare facilities with which the city has concluded agreements in advance for people who require care and have difficulty staying at designated evacuation shelters or designated emergency evacuation sites



Emergency evacuation shelter (other shelters)

Facilities designated at the request of local communities for local residents to temporarily avoid danger during disasters

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Earthquakes	Tsunamis				esi on sh	Floods		Landslide disasters	Storm surges		Inland waters		Earthquakes	Tsunamis	
uak	mis	Floor(s)		[Name]	gn ate elter	sbc	Floor(s)	andslide lisasters	jes m	Floor(s)	nd ers		uak	amis :	Floor(s)
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-0			Yogo	Playground of Sasagawa Junior High School	٨			$\frac{\circ}{\circ}$	\bigcirc				\bigcirc	0	
	^	Dud and 4th	•	Nishisasagawa Junior High School	\Rightarrow			$\frac{\circ}{\circ}$	\bigcirc		\bigcirc		\bigcirc	0	
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0	^	2		Yokkaichi Yogo High School	\Rightarrow	\cup			\bigcirc		\bigcirc		\bigcirc	0	
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0				Yokkaichi City Sports and Fitness Center for Persons with Disabilities	\Rightarrow	\cup		\bigcirc	\bigcirc		\bigcirc		\bigcirc	0	
\bigcirc	\cup			Sasagawa Higashi Park				\bigcirc	\bigcirc		\bigcirc		\bigcirc	0	
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Ŏ	Ŏ		Shio	Mihama Cultural Center	☆	\triangle	Jiu	0	\triangle	2nd and 3rd	Δ	2nd and 3rd	\bigcirc	\triangle	3rd
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0		3rd and 4th	Oyamada	Mihama Cultural Center Playgound of Mihama Cultural Center Shiohama Junior High School Playground of Shiohama Junior High School Mie Hokusei Health Promotion Center Oyamada District Civic Center Oyamada Elementary School Playground of Oyamada Elementary School Seiryo Junior High School Playground of Seiryo Junior High School	\$\frac{1}{2}\$	Δ Ο Ο	2nd and 3rd 3rd		000	3rd	000000000000000000000000000000000000000	2nd and 3rd	000	0	3rd
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			Oyamada Kawashima	Mihama Cultural Center Playgound of Mihama Cultural Center Shiohama Junior High School Playground of Shiohama Junior High School Mie Hokusei Health Promotion Center Oyamada District Civic Center Oyamada Elementary School Playground of Oyamada Elementary School Seiryo Junior High School Playground of Seiryo Junior High School Kawashima District Civic Center Kawashima Elementary School Playground of Kawashima Elementary School Kanzaki District Civic Center Kanzaki Elementary School Playground of Kanzaki Elementary School Mitaki Junior High School Playground of Mitaki Junior High School Yokkaichi Commercial High School Playground of Yokkaichi Commercial High School	\(\dagger \da		2nd and 3rd 3rd	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3rd		2nd and 3rd	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3rd
			Oyamada Kawashima	Mihama Cultural Center Playgound of Mihama Cultural Center Shiohama Junior High School Playground of Shiohama Junior High School Mie Hokusei Health Promotion Center Oyamada District Civic Center Oyamada Elementary School Playground of Oyamada Elementary School Seiryo Junior High School Playground of Seiryo Junior High School Kawashima District Civic Center Kawashima Elementary School Playground of Kawashima Elementary School Kanzaki District Civic Center Kanzaki Elementary School Playground of Kanzaki Elementary School Mitaki Junior High School Playground of Mitaki Junior High School Yokkaichi Commercial High School Playground of Yokkaichi Commercial High School Playground of Yokkaichi Commercial High School	\(\dagger \da		2nd and 3rd 3rd	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3rd		2nd and 3rd	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3rd
			Oyamada Kawashima	Mihama Cultural Center Playgound of Mihama Cultural Center Shiohama Junior High School Playground of Shiohama Junior High School Mie Hokusei Health Promotion Center Oyamada District Civic Center Oyamada Elementary School Playground of Oyamada Elementary School Seiryo Junior High School Playground of Seiryo Junior High School Kawashima District Civic Center Kawashima Elementary School Playground of Kawashima Elementary School Kanzaki District Civic Center Kanzaki Elementary School Playground of Kanzaki Elementary School Mitaki Junior High School Playground of Mitaki Junior High School Yokkaichi Commercial High School Playground of Yokkaichi Commercial High School Yokkaichi Chuo Technical High School Playground of Yokkaichi Chuo Technical High School Sakura District Civic Center	\(\dagger \da		2nd and 3rd 3rd	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3rd		2nd and 3rd	000000000000000000000000000000000000000		3rd
			Oyamada Kawashima Kanzaki	Mihama Cultural Center Playgound of Mihama Cultural Center Shiohama Junior High School Playground of Shiohama Junior High School Mie Hokusei Health Promotion Center Oyamada District Civic Center Oyamada Elementary School Playground of Oyamada Elementary School Seiryo Junior High School Playground of Seiryo Junior High School Kawashima District Civic Center Kawashima Elementary School Playground of Kawashima Elementary School Kanzaki District Civic Center Kanzaki Elementary School Playground of Kanzaki Elementary School Mitaki Junior High School Playground of Mitaki Junior High School Yokkaichi Commercial High School Playground of Yokkaichi Commercial High School Yokkaichi Chuo Technical High School Sakura District Civic Center Sakura Elementary School	\(\dagger \da		2nd and 3rd 3rd	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3rd	000000000000000000000000000000000000000	2nd and 3rd	000000000000000000000000000000000000000		3rd
			Oyamada Kawashima Kanzaki	Mihama Cultural Center Playgound of Mihama Cultural Center Shiohama Junior High School Playground of Shiohama Junior High School Mie Hokusei Health Promotion Center Oyamada District Civic Center Oyamada Elementary School Playground of Oyamada Elementary School Seiryo Junior High School Playground of Seiryo Junior High School Kawashima District Civic Center Kawashima Elementary School Playground of Kawashima Elementary School Kanzaki District Civic Center Kanzaki Elementary School Playground of Kanzaki Elementary School Mitaki Junior High School Playground of Mitaki Junior High School Yokkaichi Commercial High School Playground of Yokkaichi Commercial High School Yokkaichi Chuo Technical High School Playground of Yokkaichi Chuo Technical High School Playground of Sakura Elementary School Playground of Sakura Elementary School	\$ \$\frac{1}{2} \frac{1}{2} \fr		2nd and 3rd 3rd	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3rd		2nd and 3rd	000000000000000000000000000000000000000		3rd
			Oyamada Kawashima	Mihama Cultural Center Playgound of Mihama Cultural Center Shiohama Junior High School Playground of Shiohama Junior High School Mie Hokusei Health Promotion Center Oyamada District Civic Center Oyamada Elementary School Playground of Oyamada Elementary School Seiryo Junior High School Playground of Seiryo Junior High School Kawashima District Civic Center Kawashima Elementary School Playground of Kawashima Elementary School Kanzaki District Civic Center Kanzaki Elementary School Playground of Kanzaki Elementary School Mitaki Junior High School Playground of Mitaki Junior High School Yokkaichi Commercial High School Playground of Yokkaichi Commercial High School Yokkaichi Chuo Technical High School Playground of Yokkaichi Chuo Technical High School Sakura District Civic Center Sakura Elementary School Playground of Sakura Elementary School	\(\dagger \da		2nd and 3rd 3rd	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3rd	000000000000000000000000000000000000000	2nd and 3rd	000000000000000000000000000000000000000		3rd
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List of Designated Emergency Evacuation Sites 2

		Also a	[Applicable disaster type]								
	[Name]	Also as 🛐 esignated evacuation shelter	Floods	Floor(s)	Landslide disasters	Storm surges	Floor(s)	Inland waters	Earthquakes	Tsunamis	Floor(s)
S	Playground of Sakura Junior High School			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		 S		
Sakura	Prefectural Yokkaichi Nishi High School	☆				0		$\overline{\bigcirc}$	$\overline{}$		
ਡ	Playground of Prefectural Yokkaichi Nishi High School	<i>N</i>						$\overline{}$	$\overline{}$		
	Mie District Civic Center	☆						$\frac{\circ}{\circ}$	$\overline{}$		
	Mie Elementary School	☆			$\overline{\bigcirc}$	0		$\overline{\bigcirc}$	$\overline{}$		
	Playground of Mie Elementary School	W			$\overline{}$			$\overline{}$	$\overline{}$		
	Mie Nishi Elementary School	\Rightarrow			$\overline{\bigcirc}$	0		$\overline{\bigcirc}$	$\overline{}$		
	Playground of Mie Nishi Elementary School	\sim						$\overline{}$	$\overline{}$		
Mie	Mie Kita Elementary School	☆				0		$\overline{\bigcirc}$	$\overline{0}$		
₽.	Playground of Mie Kita Elementary School	W						$\overline{}$	$\overline{}$		
	Otanidai Elementary School	☆			\bigcirc	0		$\overline{\bigcirc}$	$\overline{0}$		
	Playground of Otanidai Elementary School	W						$\overline{}$	$\overline{}$		
	Miehira Junior High School	☆									
	Playground of Miedaira Junior High School	W									
	Agata District Civic Center	☆			$\overline{}$			$\frac{\circ}{\circ}$	$\overline{}$		
	Agata Elementary School	₩						$\overline{\bigcirc}$	$\overline{}$		
	Playground of Agata Elementary School	W									
Þ	Oike Junior High School							0			
Agata	Playground of Oike Junior High School	$\stackrel{\wedge}{\boxtimes}$	0					\sim			
نو	Hokusei Kirara Gakuen				0			\bigcirc			
		$\stackrel{\wedge}{\sim}$	0					0	\bigcirc		
	Playground of Hokusei Kirara Gakuen	٨			\bigcirc	\bigcirc		\bigcirc	$\frac{1}{2}$		
	Yokkaichi Maryknoll School	☆	0		0	0		0	0		
	Plarking Lot of Yokkaichi Maryknoll School	Λ	^	2*	0	0		\bigcirc	0	0	
	Yasato District Civic Center	*	\triangle	2nd *	0	0		\bigcirc	\bigcirc		
	Yasato Elementary School	\Rightarrow		2nd to 4th		\bigcirc		\cup			
_	Playground of Yasato Elementary School	٨			0	0			\bigcirc	0	
Yasago	Yasato Nishi Elementary School	\Rightarrow	0			\bigcirc		0			
go	Playground of Yasato Nishi Elementary School	٨						\bigcirc	\bigcirc		
	Asake Junior High School	\Rightarrow	\bigcirc			\bigcirc		\bigcirc			
	Playground of Asake Junior High School	٨						\bigcirc	\bigcirc		
	Akatsuki Junior-Senior High School	<u></u>	\bigcirc			\bigcirc		\bigcirc			
	Akatsuki Senior High School	☆	\cup					\bigcirc			
	Playground of Akatsuki Junior-Senior High School	Α				\bigcirc		\bigcirc	\bigcirc	\bigcirc	
10	Shimono District Civic Center	☆ ^	\triangle	2nd	\bigcirc	0		0	\bigcirc	0	
 Fi	Shimono Elementary School	\Rightarrow		2nd and 3rd	\bigcirc	\bigcirc		\bigcirc	\bigcirc	0	
Shimono	Playground of Shimono Elementary School	Α.	^	2 12	\bigcirc	0		0	\bigcirc	0	
•	Nishiasake Junior High School	\Rightarrow		2nd and 3rd	\bigcirc	0		\bigcirc	\bigcirc	\bigcirc	
	Nishichomei Junior High School				\bigcirc	\bigcirc		\bigcirc	0	0	
	Oyachi District Civic Center	☆	\triangle	2nd	\bigcirc	0		\bigcirc	\bigcirc	0	
.o	Oyachikojo Elementary School	\Rightarrow		2nd and 3rd	\bigcirc	\bigcirc		\bigcirc	\bigcirc	0	
Oyachi	Playground of Oyachi Kojo Elementary School				\bigcirc	<u>O</u>		\bigcirc	\bigcirc	0	
≅.	Asake Plaza	\Rightarrow		2nd to 4th	0		2nd to 4th	0	0	\bigcirc	
	Playground of Akatsuki Elementary School				0			0	0		
	Akatsuki Elementary School	\Rightarrow	\triangle	2nd and 3rd	0	\triangle	3rd	0	0	0	
	Kawarada District Civic Center	\Rightarrow	\triangle	2nd	0	\bigcirc		0	0	0	
Kav	Kawarada Elementary School	\Rightarrow	\triangle	2nd to 4th						\bigcirc	
Kawarada	Playground of Kawarada Elementary School				0	0		0	0	0	
lda	Prefectural Yokkaichi Nogei High School	$\stackrel{\wedge}{\sim}$	0			0		0		0	
	Playground of Prefectural Yokkaichi Nogei High School					0		0	\bigcirc	0	
	Management Building of the Hokusei Area Wholesale Market Association	\Rightarrow	\triangle	3rd		0		0			
S	Suizawa District Civic Center	☆	0		0	0		\bigcirc	0	0	
Suizawa	Suizawa Elementary School	$\stackrel{\wedge}{\sim}$				0		0			
wa	Playground of Suizawa Elementary School				0	0		0	0	0	
	Hoshinohiroba					0					
	HOSHITIODIA					\cup					

		[Applicable disaster type]										
	[Name]	Also as 🔊 esignated evacuation shelter	Floods	Floor(s)	Landslide disasters	Storm surges	Floor(s)	Inland waters	Floor(s)	Earthquakes	Tsunamis	Floor(s)
	Hobo District Civic Center	☆	\wedge	2nd	\bigcirc	\bigcirc		0		0	0	
	Hobo Elementary School	☆	$\overline{\wedge}$	2nd and 3rd	$\overline{\bigcirc}$	$\overline{\bigcirc}$		$\overline{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\bigcirc}$	
	Playground of Hobo Elementary School				$\overline{\bigcirc}$	Ŏ		$\overline{\bigcirc}$		Ŏ	Ŏ	
Ŧ	Hobo Junior High School	☆	\wedge	2nd and 3rd	$\overline{\bigcirc}$	$\overline{\bigcirc}$		$\tilde{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\bigcirc}$	
Hobo	Playground of Hobo Junior High School				$\overline{\bigcirc}$	Ŏ		$\overline{\bigcirc}$		Ŏ	Ŏ	
	Asake High School	\Rightarrow	\bigcirc		$\overline{\bigcirc}$	$\overline{\bigcirc}$		$\tilde{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\bigcirc}$	
	Playground of Asake High School				$\overline{\bigcirc}$	Ŏ		$\overline{\bigcirc}$		$\overline{\bigcirc}$	O	
	Hokusei Chuo Park				$\overline{\bigcirc}$	$\overline{\bigcirc}$		$\overline{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\bigcirc}$	
	Kaizo District Civic Center	☆	\bigcirc		$\overline{\bigcirc}$	Ŏ		$\overline{\bigcirc}$		$\tilde{\bigcirc}$	Ŏ	
	Kaizo Elementary School	☆	$\overline{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\bigcirc}$		$\tilde{\bigcirc}$		$\overline{\bigcirc}$	$\tilde{\bigcirc}$	
Kaizo	Playground of Kaizo Elementary School				$\overline{\bigcirc}$	Ŏ		$\overline{\bigcirc}$		$\overline{\bigcirc}$	O	
0	Yamate Junior High School	\Rightarrow	\bigcirc		$\overline{\bigcirc}$	$\overline{\bigcirc}$		$\overline{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\bigcirc}$	
	Playground of Yamate Junior High School				Ŏ	Ŏ				Ŏ	O	
	Kyohoku District Civic Center	☆	\bigcirc		Ŏ			\bigcirc		Ŏ		
	Kyohoku Elementary School	☆	$\overline{\wedge}$	2nd and 3rd	$\overline{\bigcirc}$	\wedge	2nd and 3rd	$\tilde{\bigcirc}$		$\widetilde{\bigcirc}$	\bigcirc	
	Playground of Kyohoku Elementary School				Ŏ					Ŏ		
Kyohoku	Kyohoku Exchange Center	$\stackrel{\wedge}{\Rightarrow}$	\bigcirc		$\tilde{\bigcirc}$	\wedge	3rd and 4th	\bigcirc		$\widetilde{\bigcirc}$	\wedge	3rd and 4th
<u>\$</u>	Playgound of Kyohoku Cultural Center				Ŏ			$\overline{\bigcirc}$		Ŏ		
2	Kyohoku Junior High School	\Rightarrow	\bigcirc		$\overline{\bigcirc}$	\wedge	2nd and 3rd	$\tilde{\bigcirc}$		$\overline{\bigcirc}$	0	
	Playground of Kyohoku Junior High School	~			Ŏ					Ŏ		
	Mitaki Park				$\overline{\bigcirc}$			$\tilde{\bigcirc}$		$\overline{\bigcirc}$		
	Chubu District Civic Center	☆			$\overline{\bigcirc}$	\wedge	2nd to 4th	0		Ŏ		
	Chubu Nishi Elementary School	☆	$\overline{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\wedge}$	2nd and 3rd	$\overline{\bigcirc}$		$\overline{\bigcirc}$		
	Playground of Chubu Nishi Elementary School				Ŏ					Ŏ		
	Chuo Elementary School	\Rightarrow	\bigcirc		$\overline{\bigcirc}$	\wedge	3rd and 4th	\bigcirc		$\overline{\bigcirc}$	\bigcirc	
	Playground of Chuo Elementary School	~			Ŏ					Ŏ		
	Hamada Elementary School	\Rightarrow	\wedge	2nd to 4th	$\overline{\bigcirc}$	\wedge	3rd and 4th	\bigcirc		$\overline{\bigcirc}$	\triangle	3rd and 4th
	Playground of Hamada Elementary School				Ŏ					$\tilde{\circ}$		
	Chubu Junior High School	\Rightarrow	\wedge	2nd to 4th	$\overline{\bigcirc}$	\wedge	2nd to 4th	\bigcirc		$\overline{\bigcirc}$	\bigcirc	
Chubu	Playground of Chubu Junior High School				$\overline{\bigcirc}$			$\overline{\bigcirc}$		$\overline{\bigcirc}$		
5	Minato Junior High School	\Rightarrow	\wedge	2nd and 3rd	$\overline{\bigcirc}$	\triangle	3rd	$\overline{\bigcirc}$		$\overline{\bigcirc}$	\triangle	3rd
	Playground of Minato Junior High School				$\overline{\bigcirc}$					Ŏ		
	Naya Plaza	\Rightarrow	\wedge	2nd and 3rd	$\overline{\bigcirc}$	\wedge	3rd	\bigcirc		$\overline{\bigcirc}$	\bigcirc	
	Playground of Naya Plaza				Ŏ					$\tilde{\bigcirc}$		
	Sogo Kaikan	\Rightarrow	\wedge	2nd to 8th	$\overline{\bigcirc}$	\wedge	3rd to 8th	\bigcap		$\overline{\bigcirc}$	\wedge	3rd to 8th
	Honmachi Plaza	☆	$\overline{\wedge}$	2nd to 6th	$\overline{\bigcirc}$	$\overline{\wedge}$	3rd to 6th	$\overline{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\wedge}$	3rd to 6th
	Jibasan (Local Industry Center)	☆			$\overline{\bigcirc}$	$\overline{\wedge}$	2nd to 7th	$\tilde{\bigcirc}$		$\overline{\bigcirc}$		
	Cultural Center	☆	$\overline{\bigcirc}$		$\overline{\bigcirc}$	$\overline{\wedge}$	2nd to 4th	$\overline{\bigcirc}$		$\overline{\bigcirc}$	Ö	
	Unomori Park				$\overline{\bigcirc}$			$\overline{\bigcirc}$		$\overline{\bigcirc}$		
	Kusu District Civic Center	☆	\triangle	3rd		\triangle	3rd				\triangle	3rd
	Kusu Elementary School	☆	$\overline{\wedge}$	3rd and 4th		$\overline{\wedge}$	3rd and 4th	$\overline{\bigcirc}$			$\overline{\wedge}$	3rd and 4th
	Playground of Kusu Elementary School				$\overline{\bigcirc}$			$\overline{\bigcirc}$		$\overline{\bigcirc}$		
	Kusu Junior High School	\Rightarrow	\triangle	3rd	$\overline{\bigcirc}$	\triangle	3rd	$\tilde{\bigcirc}$		$\overline{\bigcirc}$	\wedge	3rd
	Playground of Kusu Junior High School				$\overline{\bigcirc}$			$\overline{\bigcirc}$		$\overline{\bigcirc}$		
	Kusu Exchange Center	\Rightarrow	\triangle	3rd	$\overline{\bigcirc}$	\triangle	3rd	$\overline{\bigcirc}$		$\overline{\bigcirc}$	\wedge	3rd
	Kusu Welfare Hall	☆	\triangle	2nd	$\overline{\bigcirc}$	\triangle	2nd	0		$\frac{\circ}{\circ}$		
Kusu	Square in front of Kusu Welfare Hall	M		2.70								
n n	Kusu Disaster Prevention Hall	☆	\triangle	2nd and 3rd	0	\triangle	3rd				\triangle	3rd
	Square in front of Kusu Disaster Prevention Hall	W		22 33 53			5.5	0				3.0
	Kusu Evacuation Hall	☆	\triangle	2nd	$\frac{0}{0}$							2nd floor to rooftop
	Playground of Kusu Evacuation Hall	M		2.10								to rooftop
	Kusu Health and Welfare Center (Yurikamome)	\Rightarrow						0				
	Square in front of Kusu Health and Welfare Center (Yurikamome)	W			\bigcirc							
	Kusu Chuo Ryokuchi											
	nasa chao nyokachi						*(Unavailak	1- 6-				1:

List of Tsunami Evacuation Buildings

As of May 2023



Tsunami evacuation buildings

A temporary evacuation building to protect people against tsunamis caused by the anticipated Nankai Trough earthquakes, etc.

In Yokkaichi City, in preparation for a tsunami, not only public facilities and school facilities but also commercial facilities and condominiums have been designated as tsunami evacuation buildings. They are sturdy buildings of 3 or more floors in an area within 4 km of the coastline and 5 m or less above sea level. Some tsunami evacuation buildings, especially public facilities, are equipped with a key box that automatically unlocks the doors when hit by a seismic intensity of 5-lower or greater. At such facilities, anyone can unlock the doors and evacuate to inside the facility without waiting for the facility manager to arrive.





ΓΛΑονο

Key	bo

	[No.]	[Name]	[No. of floors]	[Above sea level]	[Capacity]
	0	Tomisuhara Junior High School	3	-0.4	2420
	2	Tomisuhara Elementary School	3	0.6	1860
	3	Yugen gaisha Maekawa	3	1.4	130
	4	Sunny Heights Matsubara Park Building A	5	0.8	80
	6	Sunny Heights Matsubara Park Building B	5	1	80
	6	Residence Tomisuhara	3	1	32
≓	1	Corpo Eden A	3	0.8	35
Tomisuhara	8	Corpo Eden B	3	0.8	35
uha	9	Hinomoto Nursery School	2 (rooftop)	1.1	240
<u>a</u>	0	Hinomoto Daini Nursery School	2 (rooftop)	1.3	320
	•	Raums Tomisuhara	9	1.3	250
	2	Chubu Plant Service Co., Ltd. Yokkaichi Dormitory	4	1	98
	13	Lions Mansion Tomisuhara New City Ichibankan	9	0.1	230
	14	Lions Mansion Tomisuhara New City Nibankan	14	0.1	430
	15	Lions Mansion Tomisuhara New City Sanbankan	13	0.1	210
	6	Towa City Corp Tomisuhara	5	0.8	108
	•	Tomida Elementary School	4	1.8	2750
	18	Tomida Junior High School	3	1.4	960
	19	Renkoji Temple	3	4.1	75
ᇹ	20	Yokkaichi High School	3	2.6	1292
Tomida	2	Hokusei High School	3	3.5	445
e)	22	Hokusei National Highway Office	Office building: 3 Dormitory: 5	1.4	209
	23	La prima casa	6	3.6	186
	24	Disaster Prevention Education Center (North Fire Department)	2 (rooftop)	1.1	222
	(26)	Chantclair	3	0.9	21
	1	Porta del mare	3	2.8	26
	25	Hazu District Civic Center	3	4	100
	26	Mansion Belleheim Shiroyama	4	2.5	79
Hazu	7	Radier Maison	3	3.1	90
_	28	Excellence	3	2.3	20
	2	Spring Saison	3	2.8	11

	[No.]	[Name]
	30	Cosmos
	3	Dwell Wisteria
	32	Social Demeure Building East
	33	Social Demeure Building West
	34	Wing Pachinko Parlor Kaneba Store, Multi-story parking lot
Hazu	35	Mie Hair Artist Academy
_	36	Kasumi no Sato
	3	Cainz Home Yokkaichi Store
	38	MGM Yokkaichi Store
	39	Hazukita Elementary School
	40	Tomita Saihokaku Funeral Hall
	4	Asake Plaza
Oyachi	42	Akatsuki Elementary School
₹.	43	Frespo Yokkaichi Tomida
	4	Kyohoku Elementary School
	45	Kyohoku Exchange Center
Kyohokı	46	Kyohoku Junior High School
10ku	4	Asahi Doboku Co., Ltd.
	48	Banko no Sato Center
	49	Special Elderly Nursing Home Takahama Rakurakukan
	10	Naya Plaza
	6	Sumitomo Wiring Systems Co., Ltd.
ĭ	②	SWSWAY Center
ato	3	Okubo Shokai Co., Ltd.
	54	Yokkaichi Port Joint Government Building
	55	Acorde Kuramachi
	5	San ju San Bank Head Office
	9	Chamber of commerce and industry
	63	Chubu District Civic Center
	<u> </u>	Sogo Kaikan
	(1)	Yokkaichi City Hall
₹	6	Municipal central parking lot
odo	@	Chubu Junior High School
	<u> </u>	Chubu Nishi Elementary School
	64	Platon Hotel Yokkaichi
	65	Yokkaichi City Hotel Building
	66	B. D. Hayashi
	1	Prurlion
	63	Plazer Building
5	69	Honmachi Plaza
e e	1 0	Chuo Elementary School
		Yokkaichi Kensetsugyo Kaikan
	1 3	Saiwaicho Building Jibasan (Local Industry Center)
푰		Hamada Elementary School
Hamada	1 5	Minato Junior High School
da	1	Yokkaichi City Hotel Annex
		Mie Prefectural Yokkaichi City Hall
		rerecturar ronnarerii city Hall

Yokkaichi City disaster prevention information/Evacuation information "Know the evacuation sites"

URL https://bousai2.city.yokkaichi.mie.jp/evacuation/ei-03/

► List of Tsunami Evacuation Buildings



[No. of floors]	[Above sea level]	[Capacity]
3	3.4	33
5	2.9	120
4	2.9	60
4	2.9	40
5	2.3	2343
4	3.8	540
4	1.7	260
2 (rooftop)	1.9	7503
2 (rooftop)	1.8	2888
3	4.7	843
2 (rooftop)	1.8	1337
4	4.9	20
3	1.9	1397
2	2.8	3600
3	3.5	900
4	1.5	2200
3	3.5	1400
3	3.5	100
3	4.4	80
5	1.2	240
3	1.1	300
Building A: 5	1.7	350
Cafeteria building: 3	2.1	150
3	2.3	320
4	1.9	307
4	1.3	34
12	2.4	150
4	1.4	400
4	3	300
8	1.4	1000
11	1.4	250
5 (rooftop)	1.4	800
4	3.4	2800
3	3.4	1300
10	2.4	300
10	2.4	1500
4 (rooftop)	2.4	36
5	3.7	68
3	3.7	80
6	1.2	1000
4	1.8	1900
4	1.2	220
6	1.1	50
7	2.8	400
4	1.2	2300
3	1.1	1600
10	1.4	400
5	2.2	135

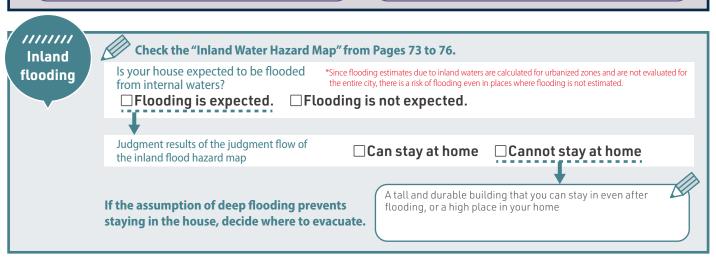
			in the second		
	[No.1	[Name]	[No. of floors]	[Above	l [Capacity]
	[No.]	[INdTHE] Miyako Hotel Yokkaichi	15	2.2	4800
	19	Iroha Building	6	1.3	72
	8	Shalom Bion R	5	1.7	51
	8	Ibon Lavien	5	1.1	165
	2	Nakashima Heights	3	1.4	22
	83	Yokkaichi Democratic Chamber of Commerce and Industry	3	1.1	77
	84	Maison Venus	3	1.8	78
<u> </u>	85	Kohyo Co., Ltd., Parking building	2 (rooftop)	1.9	1500
3	8	Meitetsu Yokkaichi Taxi, Multi-story parking lot	2 (rooftop)	1.7	150
,	87	Earl's Court 2	6	2.4	44
	83	Dia Palace Yokkaichi Station South	15	2.5	321
	89	Humanitec Junior College	4th floor lecture room 5th floor lecture room etc.	2.5	610
	9	Akebono-cho Municipal Housing Building 1	5	0.7	486
	9	Saint Lumiere	6	1.9	60
	92	Taisui Chuo Nursery School	5	2.9	380
	93	Akebono-cho Municipal Housing Building 2	5	0.7	261
<u> </u>	94	City library	3	4.2	200
	95	Tokiwa Elementary School	4	5	1900
	9	Hinaga Elementary School	4	2.6	1800
	9	Yokkaichi Technical High School	4	2.5	6400
<u>.</u>	93	Escolapios Kaisei Catholic Junior & Senior High School	3	4.5	2154
3	99	Super Viva Home Yokkaichi Tomari Store	Rooftop parking lot	4.3	13118
	0	Aeon Town Yokkaichi Tomari Store	2 (rooftop)	3.8	22146
	0	Shiohama Elementary School	3	1.2	2140
	0	Shiohama Junior High School	3	2.2	1394
	®	Mihama Cultural Center	3	0.7	1450
	104	Humanitec Medical & Welfare College	Rehabilitation Building 4th floor Dental, Acupuncture & Welfare Building 4th floor	1.4	560
2	(b)	Isozu No. 1 Pumping Station	24	1.8	55
<u>.</u>	100	Sansho Bussan Co., Ltd. Head Office	6 (rooftop)	2.3	400
3	0	MS Kanzai Co., Ltd.	3	1.3	150
	<u>(09</u>	Sankyu Co., Ltd. Mie Branch	4 (rooftop)	1.7	215
	1	Isozu Public Hall	2 (rooftop)	1.6	247
	(1)	Ohashi Gakuen High School	3	2.4	240
	1	Showa Yokkaichi Sekiyu Co., Ltd. BCP Center	3	1.6	717
	23	Minami Fire Station	3 (rooftop)	2.4	500
	B	Kusu District Civic Center	3	2.2	600
		Kusu Exchange Center	3	1.4	90
	1	Kusu Disaster Prevention Hall	4	1.3	160
	1	Kusu Elementary School	3	2.3	3334 2614
5		Kusu Junior High School MIE Chemical Machinery Co.,Ltd.	Welfare building,	2.6	860
	13	Kusu Evacuation Hall	gensunba, 3rd floor	1.8	140
	19	Hokusei Coastal Sewer System Southern	2 (rooftop)	0.8	
	20	Purification Center Watanabe Tekko Co., Ltd.	2 (rooftop) Gensunba,	4.9 1.5	400
	2	Shinminami Gomizuka Pumping Station	2nd floor 3 (rooftop)	1.7	303
	23	Yoshizaki Pumping Station	2 (rooftop)	2.8	660
5	(<u>24</u>)	Hokusei Area Wholesale Market Association	2 (1001top) 4	4.6	500
		JSR Corporation Yokkaichi Plant Main Building	5	3.2	320
5	(25)	3511 Corporation Tokkalciii Flant Walli Bulluliig	3	5.2	320

Family evacuation plan (wind and flood damage)

Think about your family's evacuation plan by organizing your thoughts on a disaster basis about assumable disaster situations and evacuation destinations.

Check the "Awareness map" on Pa	ages 5-6.								
Floods Landslide Which river floods, affecting your house	Which river floods, affecting your house?								
disasters									
Subtructives Substitute Structures	Suzuka kiver Suzuka kiver Militaki kiver Maizu kiver Masake kiver Melipaku kiver Mauake kiver								
Check the "Evacuation map" on Pages 35 to 62 and the judgment flo	ow at the end of the document.								
Judgment results based on the evacuation map judgment flow (at the end of the document)	ay at home Cannot stay at home								
	V								
Reasons why you	☐ There is a risk of landslide disasters. loods. ☐ There is a risk of flooding up to the floor you live on.								
Decide where to evacuate (consider the possibility of flooding due t	o storm surge)								
Farly over ustion	If it is too late to evacuate								
Actions to Actions to Evacuation information and places to evacuate before the rain and wind get stronger Actions to Actions to Save lives	A place to evacuate when it is dangerous to evacuate far away or go out								
Relatives' houses/acquaintances' homes or evacuation shelters in areas where flooding and landslide disasters are not anticipated	A tall and durable building that you can stay in even after flooding, or a high place in your home away from a slope								





My Timeline shows your action plan.

Wind and flood damage can be predicted in advance, so you can prepare for it before it occurs.

Protect yourself from disasters by creating My Timeline for yourself and your family in advance.

Early Warning Information (Probability of Warnings) Alert Level 2 Heavy Rain Advisory Flood Advisory Storm Surge Advisory Storm Surge Advisory Flood advisory Flood advisory Start checking the water level of the ri in your area. Obtain evacuation information from Yokkaichi City Safety and Security Disaster Preventic Email, etc. Elderly people and people with elvel reached Alert Level 3 Heavy Rain Marning Flood advisory water level control of the Elderly, etc. Flood advisory water level control of the Elderly, etc. Flood Warning Flood Warning Flood Warning Flood Warning Information, etc. Hazardous water level reached Alert Level 4 Level reached Alert Level 4 Evacuation Instruction Flood Warning Information, etc. Everyone must evacuate from dangerous locations. Everyone must evacuate from dangerous locations helter the not be flooded. As a general rule, evacuate on foot. If you feel in danger while evacuating, need not limit yourself to your plan. Ins you feel in danger while evacuating, need not limit yourself to your plan. Ins you end not limit yourself to your plan. Ins you feel in danger while evacuation, need not limit yourself to your plan. Ins you feel in danger while evacuation shelter,	Publicized information, disaster situations etc.	Major preparations [Memo field]	Preparation examples
Alert Level 1 Early Warning Information (Probability of Warnings) Alert Level 2 Heavy Rain Advisory Flood Advisory Flood Advisory Storm Surge Advisory Storm Surge Advisory Flood advisory water level reached Alert Level 3 Heavy Rain Warning - Hood Warning - H	Outbreakoftyphoon		
Information (Probability of Warnings) Alert Level 2 Heavy Rain Advisory Flood Advisory Storm Surge Advisory Storm Surge Advisory Flood advisory water Level reached Alert Level 3 Evacuation of the Elderly people and people with Elderly etc. Flood Varning Storm Surge Advisory Elderly people and people with Clare to evacuate methods using the hazard map. Start checking the water level of the rinyour area. Obtain evacuation information from Yokkaichi City Safety and Security Disaster Preventic Email, etc. Elderly people and people with disabilities must evacuate. Elderly people and people with disabilities must evacuate. Flood Warning Storm Surge Advisory Level reached Alert Level 4 Level Reached Alert Level 8 Level Reached Alert Level 9 Le	Alert Level 1 Early Warning		Start checking future typhoon conditions on TV, radio, Japan Meteorological Agency website, etc.
Heavy Rain Advisory Flood Advisory Storm Surge Advisory Flood Advisory Storm Surge Advisory Flood Advisory Flood advisory Flood advisory Flood advisory water level reached Alerticoral 3 Evacuation of the Elderly, GtG. Flood Warning Flood disability of a subsequent warning information. Everyone must evacuate from dangerous locations. Everyone must evacuate from dangerous locations. Everyone must evacuate from dangerous locations. Everyone must evacuate from information. G to a relative's/acquaintance's house city-designated evacuation shelter than to be flooded. As a general rule, evacuate on foot. If you feel in danger while evacuation, y need not limit yourself to your plan. Instruction, need not limit yourself to your plan. Instruction and one warming the plane of the rich warming to the reached warming to the plane of the receive the reached warming to the plane of the receive			Check to see if there are any objects that could be blown away by the wind around
Flood Advisory Storm Surge Advisory Flood advisory Start checking the wazer level of the ri in your area. Obtain evacuation information from Yokkaichi City S-Alert, Yokkaichi City Safety and Security Disaster Preventic Email, etc. Flood advisory water level reached Alarricord 3 Evacuation of the Elderly, etc. "information. Flood Warning Flood Warning Flood Warning Flood Warning Information, etc. Flood Warning Information, etc. Flood advisory water level and people with disabilities must evacuate. Flood advisory water level reached Alarricord Alert Level 3 Heavy Rain Warning Flood Warning Information, etc. Flood Warning Information Alert Level 4 Landslide Alert Level 9 Landslide Alert 1 Landslide Aler	Alert Level 2		 Prepare an emergency bag.
Flood Advisory Storm Surge Advisory Reconfirm evacuation sites and evacua methods using the hazard map.	Heavy Rain Advisory		Ocharge your mobile phone.
Flood advisory water level of the ri in your area. Obtain evacuation information from Yokkaichi City S-Alert, Yokkaichi City Safety and Security Disaster Preventic Email, etc. Flood advisory water level reached Alert Level 3 Evacuation Of the Elderly, etc. Edural to Alert Level 3 Evacuation of the Elderly people and people with disabilities must evacuate. Flood Warning -Storm Surge Advisory (with a high probability of a subsequent warning) Flood Warning Information, etc. Faculty and Security Disaster Preventic Email, etc. Evacuation of the Elderly, etc. "Information. The elderly or others who need extra to evacuate must start evacuating. If you are evacuating by car, move to a place with a large parking lot at this lea at the latest. Contact your neighbors who will be evacuating with you. Change into clothing that makes it easi evacuate. Everyone must evacuate from dangerous locations. Everyone must evacuate from foot a relative's/acquaintance's house city-designated evacuation shelter the not be flooded. As a general rule, evacuate on foot. If you feel in danger while evacuating, you plan. Insight of the properties of the relative sylventy of the properties of the pr	Flood Advisory		 Reconfirm evacuation sites and evacuation methods using the hazard map.
Flood advisory water level reached Alert Level B Evacuation of the Elderly, etc. Flood Warning Flo	J. J		 Start checking the water level of the rivers in your area.
Level reached Alert Level 3 Evacuation of the Elderly, etc.			Yokkaichi City S-Alert, Yokkaichi City Safety and Security Disaster Prevention
The elderly or others who need extra to evacuate must start evacuating.	Flood advisory water level reached		 Receive the "Evacuation of the Elderly, etc." information.
Fequivalent to Alert Level 3 Heavy Rain Warning Flood Warning Storm Surge Advisory (with a high probability of a subsequent warning) Flood Warning Information, etc. Everyone must evacuate from dangerous locations. Everyone must evacuate from dangerous locations. Everyone must evacuate from dangerous locations. Flood Warning Information Information Evacuation Instruction Equivalent to Alert Level 4 Landslide Alert Information Storm Surge Warning Storm Surge Emergency Warning Fequivalent to Alert Level 4 Landslide Alert Information Storm Surge Emergency Warning Fequivalent to Alert Level 4 Landslide Alert Information Storm Surge Emergency Warning Fequivalent to Alert Level 4 Landslide Alert Information Storm Surge Emergency Warning Fequivalent to Alert Level 4 Landslide Alert Information Storm Surge Emergency Warning Fequivalent to Alert Level 4 Landslide Alert Information Storm Surge Emergency Warning Fequivalent to Alert Level 4 Landslide Alert Information Storm Surge Emergency Warning Fequivalent to Alert Level 3 Fryou are evacuating by Car, move to a place with a large parking lot at this is at the latest. Contact your neighbors who will be evacuating by Car, move to a place with a large parking lot at this is at the latest. Contact your neighbors who will be evacuating by Car, move to a place with a large parking lot at this at the latest. Contact your neighbors who will be evacuating by Can, move to a place with a large parking lot at this at the latest. Contact your neighbors who will be evacuating by contact the latest. Contact your neighbors who will be evacuating by contact the latest. Contact your neighbors who will be evacuating by contact the latest. Contact your neighbors who will be evacuating by contact the latest. Contact your neighbors who will be evacuating with you. Change into clothing that makes it easier the authors were a contact the latest. Frequency of the latest. Contact your neighbors who will be evacuating with your neighbors were a contact the latest.	AlertLevel 3 Evacuation of the	disabilities must evacuate.	The elderly or others who need extra time to evacuate must start evacuating.
Storm Surge Advisory (with a high probability of a subsequent warning) Flood Warning Information, etc. Everyone must evacuate from dangerous locations. Everyone must evacuate from information. Evacuation Instruction Go to a relative's/acquaintance's house city-designated evacuation shelter the not be flooded. Evacuation Instruction Equivalent to Alert Level 4 Landslide Alert Information Storm Surge Warning, Storm Surge Emergency Warning Contact your neighbors who will be evacuating with you. Change into clothing that makes it easi evacuate. Receive the "Evacuation Instruction" information. Go to a relative's/acquaintance's house city-designated evacuation shelter that not be flooded. As a general rule, evacuate on foot. If you feel in danger while evacuating, you need not limit yourself to your plan. Instruction information.	Equivalent to Alert Level 3— • Heavy Rain Warning		 If you are evacuating by car, move to a safe place with a large parking lot at this level at the latest.
a subsequent warning information, etc. Hazardous water level reached Alert Level 4	Storm Surge		
Hazardous water level reached Alert Level 4 Evacuation Instruction Equivalent to Alert Level 4 Landslide Alert Information Storm Surge Warning, Storm Surge Emergency Warning Alert Level 4 Landslide Alert Information Information Go to a relative's/acquaintance's house city-designated evacuation shelter that not be flooded. As a general rule, evacuate on foot. If you feel in danger while evacuating, you need not limit yourself to your plan. Instance of the second shelter.	a subsequent warning) • Flood Warning		 Change into clothing that makes it easier to evacuate.
Alert Level 4 Evacuation Instruction Equivalent to Alert Level 4 Landslide Alert Information Storm Surge Warning, Storm Surge Emergency Warning Go to a relative's/acquaintance's house city-designated evacuation shelter that not be flooded. As a general rule, evacuate on foot. If you feel in danger while evacuating, you need not limit yourself to your plan. Instance of the property of the			
Landslide Alert Information Storm Surge Warning, Storm Surge Emergency Warning Landslide Alert If you feel in danger while evacuating, your plan. Instance of the surge of the su	Alert Level 4	ualigerous locations.	 Go to a relative's/acquaintance's house or a city-designated evacuation shelter that will not be flooded.
• Landslide Alert Information • Storm Surge Warning, Storm Surge Emergency Warning • Landslide Alert Information If you feel in danger while evacuating, your need not limit yourself to your plan. Instance go to a nearby evacuation shelter,	Equivalent to Alert Level 4		
	Information •Storm Surge Warning, Storm Surge Emergency Warning		 If you feel in danger while evacuating, you need not limit yourself to your plan. Instead,
Flood Hazards, etc. building.	Flood Hazards, etc.		
URGENT: A disaster MUST evacuate at Alert Level 4!	URGENT: A disaster may occur any time.	MUST evacuate at Alert Level 4!	
An Alert level 5 is not always issued. You MUST evacuate from dangerous If you have not completed evacuation you	Alemberal 5	You MUST evacuate from dangerous	If you have not completed evacuation yet, move to the second floor of your home or a

*Information may not necessarily be released in this order depending on the progress of the disaster situation. It is important to respond flexibly depending on the situation.

to be issued!

Measures

Prepai

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Family evacuation plan (earthquake and tsunami)

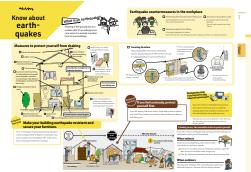
Think about your family's evacuation plan by organizing your thoughts on assumable disaster situations and evacuation destinations for each type of disaster.





Check "Know about earthquakes" on pages 25 and 26.

The first thing to do is to prepare in advance for the shaking. Check the earthquake resistance of your house and the way your furniture is arranged and secured.





If your home is undamaged and there is no risk of fire, you do not need to evacuate from your home. Check nearby evacuation destinations in case you need to evacuate.

A place to evacuate when it is dangerous to stay inside your house

Relative's or acquaintance's house, or evacuation shelters







Check the "Tsunami Arrival Time Maps" on pages 87 to 90.

Check if your home is expected to be flooded by a tsunami.

 \square Flooding is expected. \square Flooding is not expected.

Time until tsunami arrives

min



Check the "Tsunami Inundation Depth Maps" on pages 83 to 86.

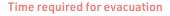
In order to complete your evacuation before the tsunami arrives, decide where to evacuate, considering the time it will take to evacuate.



Early evacuation

Places to evacuate if you feel strong or long-lasting shaking

Relative's or acquaintance's house, evacuation shelters on the mountain side of the tsunami evacuation target line, or a high building far from the sea



min



If you fail to evacuate early...

Where to evacuate if you do not have enough time to go far away

Nearby tsunami evacuation buildings, tall buildings, high places, etc.

Time required for evacuation

min



Decide where to meet up if your family evacuates to a faraway place.

Meeting place after tsunami warning is lifted



Family contact information

Confirm what actions to take if your family members or loved ones need to evacuate from places they have gone to, e.g., workplace and school.

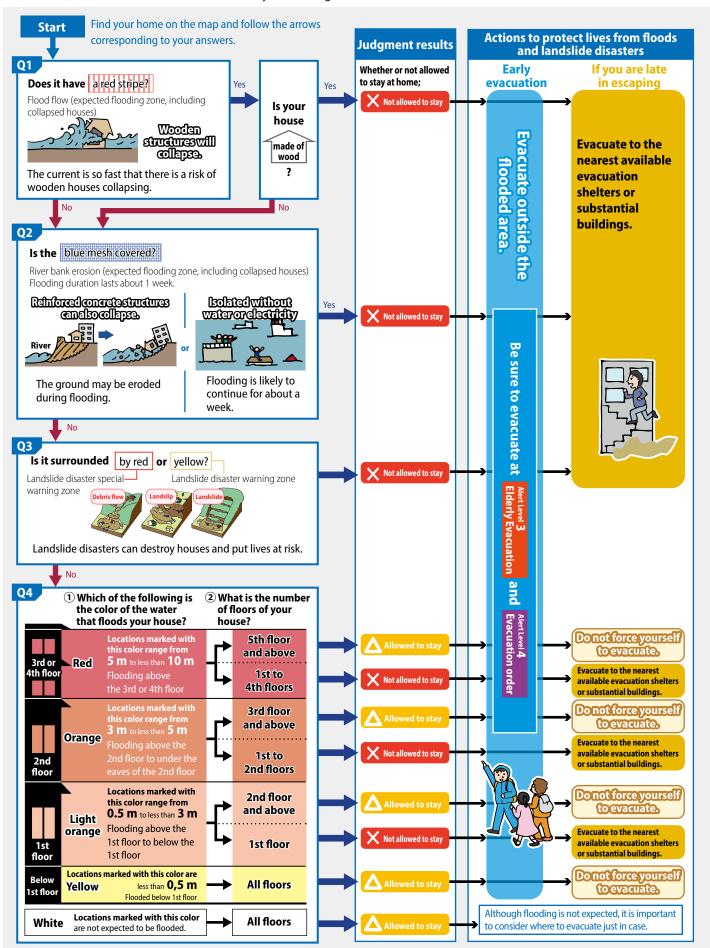
Name	Contact	address
	workplace, school, or the e to (evacuation)	Stay at workplace, school, or the place you have gone to Come back home
Name	Contact	address
	workplace, school, or the e to (evacuation)	☐ Stay at workplace, school, or the place you have gone to☐ Come back home
Name	Contact	address
	workplace, school, or the e to (evacuation)	Stay at workplace, school, or the place you have gone to Come back home
Name	Contact	address
	workplace, school, or the e to (evacuation)	☐ Stay at workplace, school, or the place you have gone to☐ Come back home
Name	Contact	address
	workplace, school, or the eto (evacuation)	Stay at workplace, school, or the place you have gone to

Contact address in case of evacuation

Even when evacuation information is issued, it is difficult to make a decision to evacuate alone. Be sure to confirm whom you will call out to during evacuation and who will be evacuating with you.

Relatives/	Name	Contact address			
acquaintances	\Box Call out to others during evacuation $\ \Box$ You will be contacted during evacuation. $\ \Box$ Evacuate together				
	Name Contact address				
	☐ Call out to othe	rs during evacuation 🔲 You will be contacted during evacuation. 🗆 Evacuate together			
Representative of the neighborhood	Name	Contact address			
association	☐ Call out to othe	rs during evacuation 🗌 You will be contacted during evacuation. 🗆 Evacuate together			

- ① Open the evacuation map for your area (Pages 35 to 62) and find your home on it.
- ② Check the color and pattern of your house, and start by following the arrows corresponding to your answers.
- ③ Consider the evacuation destination based on the "Judgment Results" and "Actions to Protect Lives from Floods and Landslide disasters," and fill in the information in the entry field on Page 103.



Contact/Inquiries in Case of Disaster

Firefighting (fire/emergency/rescue)

...119

Police (incident/emergency)

>>> 110

Japan Coast Guard (marine accidents/incidents) • •

Administrative Agencies

Yokkaichi City Hall (Disaster Control Headquarters)	059-354-5234
Yokkaichi City Fire Department (Fire inquiries)	059-353-9999
Emergency Medical Information Center (Call Center)	059-229-1199

Lifeline Utilities

Chubu Electric Power Power Grid Yokkaichi Sales Office	0120-923-384
Toho Gas Yokkaichi Sales Office	059-353-9151
Yokkaichi City Water and Sewerage Bureau	059-354-8355

Traffic information/Road conditions/Weather information

Kintetsu Railway Telephone Center	050-3536-3957
JR Tokai Telephone Center	050-3772-3910
Yokkaichi Asunarou Railway	059-351-1860
Sangi Railway	059-364-2141
lse Railway	059-383-2112
Japan Road Traffic Information Center	050-3369-6624
Mie Kotsu Yokkaichi Sales Office (Bus)	059-323-0808
Sangi Railway Automotive Department Tomita Sales Office	059-365-9106
Weather Guidance	059 + 177



Disaster Message Board

Web171 (NTT)

NTT docomo

URL https://www.web171.jp/



171.jp/

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

The Disaster Message Board provided by NTT and other mobile phone companies can be used during a disaster if internet connection is available.

Softbank / Y!mobile

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



au (KDDI)

URL https://dengon.ezweb.ne.jp



A disaster message board will be provided when a major disaster occurs. For service details, please refer to the explanations provided by NTT and other mobile phone companies

Map Page for Each District

	Evacuation map (flood/landslide disasters)		Storm surge hazard map		Inland flooding hazard map		Tsunami haza			ard map Arrival time	
Chubu District	Maps 9/12	Pages 51 to 52 and 57 to 58	Maps 1/2	Pages 67 to 70	Maps 1/2	Pages 73 to 76	Maps 1/2	Pages 83 to 86	Maps 1/2	Pages 87 to 90	
Tomisuhara District	Map 5	Pages 43 to 44	Мар 1	Pages 67 to 68	Мар 1	Pages 73 to 74	Мар 2	Pages 83 to 84	Мар 1	Pages 87 to 88	
Tomida District	Maps 5/9	Pages 43 to 44 and 51 to 52	Мар 1	Pages 67 to 68	Мар 1	Pages 73 to 74	Мар 1	Pages 83 to 84	Мар 1	Pages 87 to 88	
Hazu District	Maps 5/9	Pages 43 to 44 and 51 to 52	Мар 1	Pages 67 to 68	Мар 1	Pages 73 to 74	Мар 1	Pages 83 to 84	Мар 1	Pages 87 to 88	
Tokiwa District	Maps 8/9/ 11/12	Pages 49 to 52 and 55 to 58	Maps 1/2	Pages 67 to 70	Maps 1/2	Pages 73 to 76	Мар 1	Pages 85 to 86	Мар 2	Pages 89 to 90	
Hinaga District	Maps 11/12	Pages 55 to 58	Мар 2	Pages 69 to 70	Мар 2	Pages 75 to 76	Мар 2	Pages 85 to 86	Мар 2	Pages 89 to 90	
Yogo District	Maps 10/11	Pages 53 to 56									
Utsube District	Maps 11/13/ 14	Pages 55 to 56 and 59 to 62			Мар 2	Pages 75 to 76					
Shiohama District	Maps 12/14	Pages 57 to 58 and 61 to 62	Мар 2	Pages 69 to 70	Мар 2	Pages 75 to 76	Мар 2	Pages 85 to 86	Мар 2	Pages 89 to 90	
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Kawashima District	Maps 7/10/ 11/13	Pages 47 to 48, 53 to 56 and 59 to 60									
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Sakura District	6/7/ 8 Maps	Pages 45 to 50									
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Yasato District	Maps 2/5	Pages 37 to 38 and 43 to 44			Мар 1	Pages 73 to 74					
Shimono District	Maps 1/2/ 4	Pages 35 to 38 and 41 to 42		•							
Oyachi District	Maps 4/5	Pages 41 to 44	Мар 1	Pages 67 to 68	Мар 1	Pages 73 to 74					
Kawarada District	Maps 13/14 Maps	Pages 59 to 62	Мар 2	Pages 69 to 70	Мар 2	Pages 75 to 76					
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Kaizo District	Map 9	Pages 51 to 52	Мар 1	Pages 67 to 68	Maps 1	Pages 73 to 74					
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Kusu District	Maps 14	Pages 61 to 62	Мар 2	Pages 69 to 70	Maps 2	Pages 75 to 76	Мар 2	Pages 85 to 86	Мар 2	Pages 89 to 90	
						Earthq	uake h entire)	nazard ma city)	p	Pages 79 to 80	

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Some of the maps shown in this booklet are based on the Digital Map (Basic Geospatial Information 200000) and the Fundamental Geospatial Data published by the Geospatial Information Authority of Japan (GSI), with approval obtained from the GSI Director General. (Approved by GSI Director General (Use) based on Surveying Act, R 4JHs 644)

Some of the maps shown in this booklet are based on the National Land Numerical Information by the Ministry of Land, Infrastructure, Transport and Tourism (River Data, Municipal Offices, Police Stations, Fire Stations).