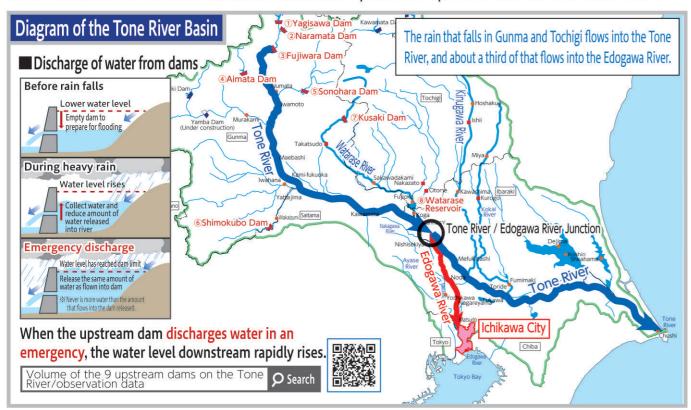
What Type of Place is Ichikawa?

Rainfall collects in the Tone River basin.

Ichikawa City is located at the downstream end of the Edogawa River where rainfall collects in the Tone River, which has the widest basin. Therefore, attention must be paid to the upstream dam and river water level.



Different regions are prone to different types of flood damage

Why are there so many low-lying areas in Ichikawa?

About 6,000 years ago (in the Jomon period), the earth was warmer than today and Ichikawa was mostly under the sea. As the sea level gradually dropped, layers of sediment were deposited, creating the topography of today's Ichikawa. Numerous shell mounds have been discovered along the coastline from that time. (in the figure on the right)

The northern area, which was originally land, became a plateau, while the central and southern areas, which were under the sea, became flat lowlying areas. Hence, there are many low-lying areas

There is a very close relationship disasters. The risk of disaster can be predicted based on the undulations and origins of the land. Water flows to low places, so it is important to know the elevation of the land.



Topography of Ichikawa and disasters likely to occur There are 10 rivers of various sizes flowing through the city

Remember this!

Types of Flood Damage in Different Regions

landslides in the north of the city

If the banks of the Edogawa River collapse, wide spread damage will occur.

Collapse of river banks

Rainwater that cannot be washed away accumulates

Backflow prevention

in urban areas.

Landslides

When heavy rains cause water to build up in soil, landslides, in which steep hillsides suddenly collapse, occur. As they occur unexpectedly, people cannot run away and deaths occur as a result.



When the river water level rises, river banks may collapse and water may overflow. As the water flows out all at once, it can destroy houses near the river and cause deaths.



Inland flooding occurs when drainage cannot keep up with heavy rainfall or when rainwater cannot drain away due to rising rivers. Although the current is not swift, water gathers in low lying areas of the city, resulting in flooded roads and inundation above and below ground level.

Storm surge

A storm surge occurs when a typhoon or low pressure system sucks up the sea surface and strong winds blow in from the ocean. As seawater flows over levees, flooding of roads and inundation above and below ground level will occur.

What is urban flood damage?

When the ground is covered with

asphalt, it makes it difficult for

rainwater to seep into the soil and

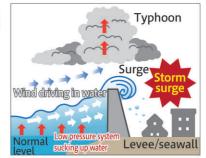
You need to be careful of urban

flood damage in Ichikawa City!

large amounts of rainwater flow into waterways and rivers all at once, making it easy for inland flooding

and river overflows to occur. This type of flood damage

unique to urban areas is called "urban flood damage.".



Beware when high tide coincides with the passage of a typhoon!

Beware if heavy

upstream rises!

Beware if there is

torrential rain for a

short period of time

or if it rains heavily

for a long time!

rainfall continues

and the water level























has created a "disaster prevention chart" that shows the local characteristics







Source: Geospatial Information Authority of Japan website (https://www.gsi.go.jp/kankyochiri/degitalelevationmap_kanto.html) Processed and created a digital elevation topographic map (Edogawa, Nakagawa, Ayasegawa basin-1)