

Strength of Wind and Rain

Strength of Wind and Expected Damage

Avg. Wind Speed(m/sec) Forecast Term	Expected Damage
10 to 15 Slightly Strong Wind	Cannot use umbrellas
15 to 20 Strong Wind	Cannot walk against wind
20 to 25 Extremely Strong Wind	Driving becomes dangerous to continue
25 to 30 Extremely Strong Wind	Begins to uproot trees and rip off roof tiles
30 and more Violent Wind	Roofs torn off and such, wooden houses may be destroyed



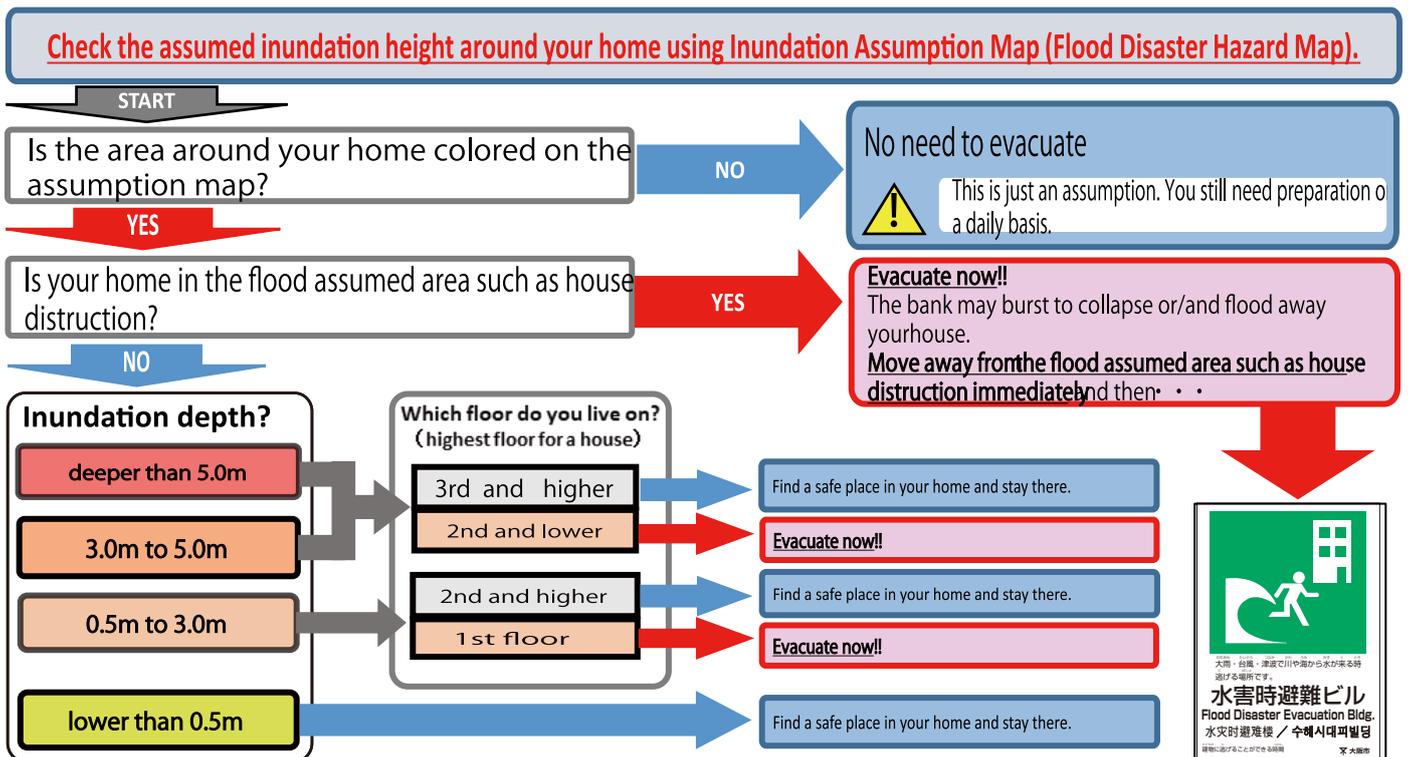
Intensity of Rain and Expected Damage

Hourly Rainfall (mm) Forecast Term	Expected Damage
10 to 20 Moderately Heavy Rain	Be careful when the rain lasts long
20 to 30 Heavy Rain	Street drains may be flooded
30 to 50 Extremely Heavy Rain	Manholes may be flooded
50 to 80 Extremely Heavy Rain	Rainwater may run into underground area
80 and more Torrential Rain	A large-scale disaster is expected



In case evacuation information is announced, act accordingly referring to the evacuation flow chart below.

Preparation for flood disaster such as river flooding **Evacuation Flow Chart**



The above is the information for your reference only. The chart may not be applicable as the floor height of living room differs depending on the building. Moreover, a wooden house may be destroyed or flooded away due to deterioration even if the area is not designated as the flood assumed area.

Tsunami Evacuation (Tsunami Evacuation Building • Flood Disaster Evacuation Building)

As the landform of Osaka City area is comparatively flat, it is necessary to evacuate as soon as possible to a higher place to protect yourself from Tsunami or river flooding. To ensure the safety of citizens, Osaka City has been working on to designate a tough and high building as "Tsunami Evacuation Building" or "Flood Disaster Evacuation Building" aiming for 22 wards (except Tennoji and Abeno wards) that are prone to inundation by Tsunami or river flooding.