

Hazard maps

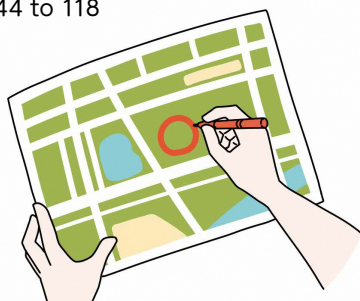
Using hazard maps

Review these hazard maps during normal times to determine what you should do in the event of a disaster.

1. Find your home

Mark the location of your home on the maps.

▶▶▶ Pages 44 to 118

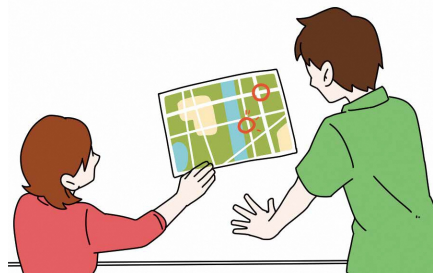


2. Review what you should do and the locations of shelters

Review how you should evacuate based on pages 10 to 13. Check the locations of any shelters to which you might need to evacuate.

▶▶▶ Pages 12 and 13 : Choosing to evacuate

▶▶▶ Pages 36 and 37 : Shelters in Hirakata City



4. Actually walk your evacuation route

Check whether the evacuation route you chose using the maps is safe, whether there are any other dangerous locations or locations requiring caution, and how long it will take you to evacuate.



3. Consider your evacuation route

Choose a safe route, taking into consideration the need to use large roads and avoid rivers and slopes.

▶▶▶ Pages 44 to 118 : Hazard maps



5. Talk about disasters and evacuation

Share information about disasters and evacuation, not only with family members, but also with neighbors and colleagues at work.



Winds, Flooding,
and Landslides

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Types of hazard
maps

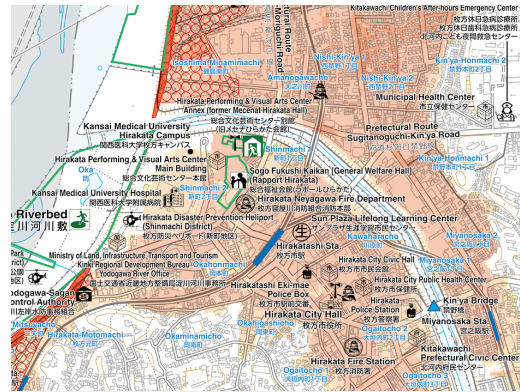
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Exercise caution as the nature of any rainfall and local topography may cause the actual flood depth to diverge from anticipated levels, or flooding or landslides to occur in areas where flooding was not anticipated.

Types of hazard maps

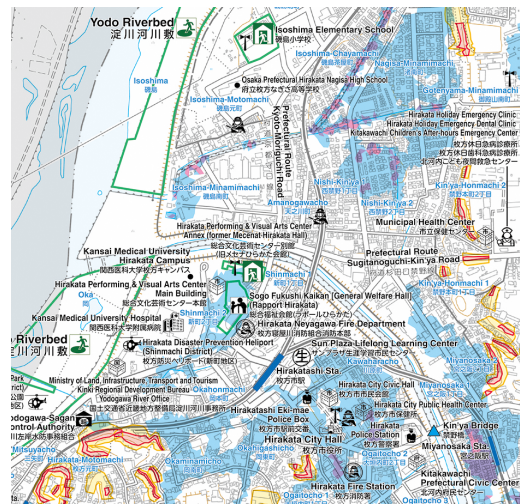
Flood hazard maps

These flood hazard maps have been created in accordance with Article 14 of the Flood Control Act. They indicate zones where flooding due to the maximum anticipated rainfall is likely to occur as well as the anticipated depth of floodwaters.



Rainfall-triggered flooding hazard maps

Rainfall-triggered flooding hazard maps have been created using the city's own simulation process since anticipated rainfall flood zones and anticipated high-tide flood zones have not been designated in accordance with Article 14 Paragraph 2 and Article 14 Paragraph 3, respectively, of the Flood Control Act. The maps have been created based on a simulation of flood range and depth in the event all areas of the city were to experience the largest amount of rain that has ever fallen in Hiraoka City (108 millimeters in one hour).



Landslide hazard maps

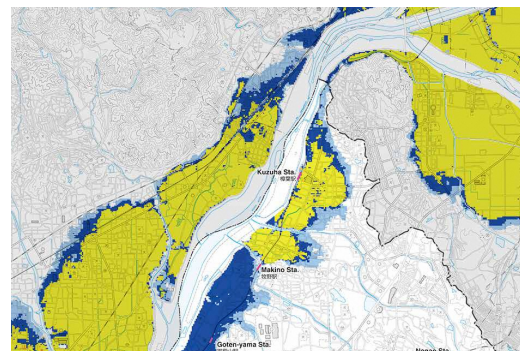
These maps have been created based on landslide warning areas and landslide special warning areas as surveyed and designated by Osaka Prefecture. Please see Osaka Prefecture's website for details.

<http://www.pref.osaka.lg.jp/damusabo/dosyahou/sitei.html>



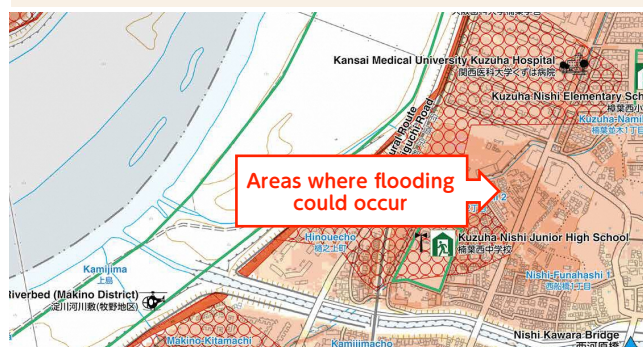
Flood durations

These flood duration hazard maps have been created in accordance with Article 14 of the Flood Control Act. Projections are based on a simulation of flood conditions in the event rivers were to overflow as a result of the maximum anticipated rainfall.



Explanation of hazard maps

Flood hazard maps



Flood depth: Legend

	Area with depths of 10.0 m to less than 20.0 m
	Area with depths of 5.0 m to less than 10.0 m
	Area with depths of 3.0 m to less than 5.0 m
	Area with depths of 0.5 m to less than 3.0 m
	Area with depths of less than 0.5 m

Yodo River and Kizu River

(as announced by the Ministry of Land, Infrastructure, Transport and Tourism's Kinki Regional Development Bureau on June 14, 2017)

Assumed rainfall: Maximum anticipated rainfall

Yodo River: Total 24-hour rainfall of 360 mm upstream of Hirakata

Kizu River: Total 12-hour rainfall of 358 mm upstream of Kamo

Funahashi, Hotani, Amano, Toda, Kita, and Mae Rivers

(As announced by Osaka Prefecture's Hirakata Civil Engineering Office on March 25, 2020)

Assumed rainfall: Maximum anticipated rainfall

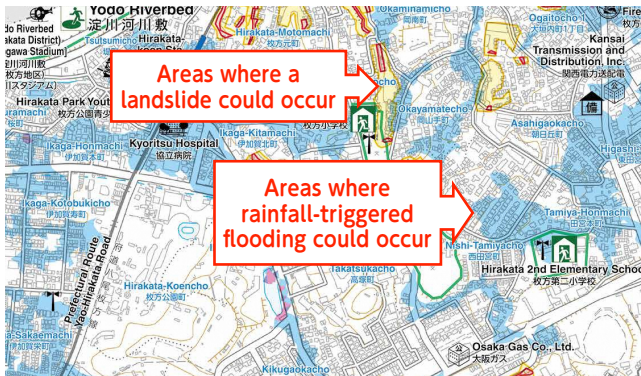
	Total 24-hour rainfall	Maximum 1-hour rainfall
Funahashi River basin	1,150 mm	143.0 mm
Hotani River basin	1,150 mm	140.0 mm
Amano River basin	1,038 mm	115.0 mm
Toda River basin	1,150 mm	147.0 mm
Kita River basin	1,150 mm	144.0 mm
Mae River basin	1,150 mm	146.0 mm

Areas where early evacuation is necessary (during flooding)

Residents of the following areas will need to evacuate early: areas where flooding could cause homes to collapse or the riverside to erode, areas where even the upper stories of homes may experience water ingress, and areas where flooding may continue for an extended period of time. Residents of areas such as these should proceed to a safe location without delay as instructed in evacuation information in the event of a disaster since staying at home could pose imminent, life-threatening hazards.

Designated area type			Type of disaster and action in event of evacuation	
Early evacuation areas	Areas where flooding could lead to collapse of homes	Flooding Hazard map legend 		Residents should evacuate early as wooden homes could collapse.
		Riverside erosion Hazard map legend 		Residents should evacuate early as homes could collapse.
	Areas where homes could experience flooding (to a depth of 3 m or greater)			Residents should evacuate early as floodwaters could reach even the upper stories of homes.
	Areas where flooding is expected to continue for at least 24 hours			Residents should evacuate early as flooding is anticipated to continue for an extended period of time. Even shallow flooding could pose difficulties in daily life, even for residents of high-rise buildings.

Rainfall-triggered flooding and landslide hazard maps



Flood depth: Legend (rainfall-triggered flooding)

- Less than 0.5 m
- 0.5 m or greater and less than 1 m
- 1 m or greater

Landslides: Legend

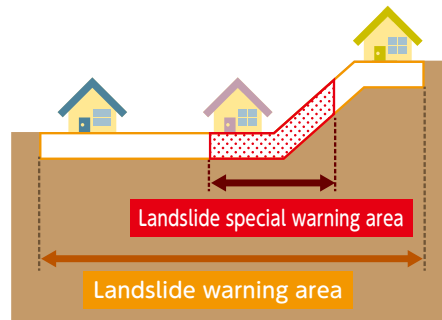
- Landslide special warning area (steep slope)
- Landslide warning area (steep slope)
- Landslide special warning area (debris flow)
- Landslide warning area (debris flow)
- Landslide warning area (landslide)

Special warning areas and warning areas (landslides)

The city has conducted basic research and designated areas where landslides could occur.

Landslide special warning area (red zone)

Warning areas where the collapse of, or other damage to, a steep slope could cause damage to buildings and cause a high level of danger to life and limb



*Collapse of a steep slope

Landslide warning area (yellow zone)

Areas where the collapse of, or other damage to, a steep slope could endanger life and limb

Legend

(disaster readiness information)



Primary shelter



Secondary shelter



Wide-area shelter



Temporary shelter



Welfare shelter



Regional disaster base hospital



Designated disaster medical center



Hirakata City disaster medical center or disaster medicine partner hospital



Base first-aid station



Initial emergency medicine facility



Police station or police stand



Fire department or fire station



Volunteer fire department garage



City office or branch office



Other municipal facility



Other prefectural facility



Other national facility



Other public facility



Lifelong learning center



Library



Flood control association



Supply warehouse



Government-run disaster readiness radio broadcasting station



Heliport



Water level observation point



Underpass