Created March 2024

Komatsu City River Flooding Hazard Map

Rivers Shown on This Map Expected to Flood

Kakehashi River, Hatcho River, Nabetani River, Butsudaiji River, Kasukami River, Kakehashi River (Osugidani River), Gotani River, Mitsutani River, Nishimata River, Tsuegawa River

Target Neighborhoods (Elementary School Districts) | **Kokufu, Nakaumi, Kaneno, Nishio, Hasadani**

This Komatsu City River Flooding Hazard Map shows information for when rainfall causes rivers to flood, including flooding conditions, areas where earth-and-rock disasters may occur, and evacuation facilities. It is important to understand how your neighborhood, such as your home, school, or workplace, will be affected in the event of a flood, and to make sure you know where to evacuate and how to get there beforehand.
When there is a possibility of flooding, Komatsu City government may announce notices for evacuation of certain groups like elderly people, evacuation of all households, or to take emergency safety measures, depending on the situation. In these cases, follow instructions, and evacuate as soon as possible.

Estimated Flooding Areas

The colors on the map indicate flood areas and the maximum water depth there, calculated by overlaying the flood areas estimated based on river overflows as a result of the largest possible rainfall under the conditions shown below, as specified by the national and prefectural governments by May 2023.

Rivers	Rainfall Conditions
Kakehashi River	350 mm per 9 hours in the river basin
Hatcho River	813 mm per 24 hours in the river basin
Nabetani River	813 mm per 24 hours in the river basin
Nabetani River (excluding areas of rivers with known water levels), Tachitani River	813 mm per 24 hours in the river basin
Butsudaiji River	813 mm per 24 hours in the river basin
Kasukami River	813 mm per 24 hours in the river basin
Kakehashi River (Osugidani River), Gotani River, Mitsutani River, Nishimata River	813 mm per 24 hours in the river basin
Dainichi River, Ate River, Tsuegawa River, Sunodani River, Hiuchidani River	813 mm per 24 hours in the river basin

Note: The target areas have been expanded from the estimated flooding areas shown on the Komatsu City River Flooding Hazard Map created in April 2022. Flooding may occur outside of these estimated flooding areas, and estimated water depth may differ from actual flooding depth.

Earth-and-Rock Disaster (Special) Hazard Zones

Earth-and-rock disaster (special) hazard zones designated by Ishikawa Prefecture are shown on the map. Earth-and-rock disasters may occur outside of these zones shown on this map, depending on rainfall and land conditions.

Regularly check hazard maps for disaster risks and evacuation preparations, and proactively participate in disaster drills held by neighborhood associations or other organizations.

N 0 500 Meters 1,000
Scale: 1:22,500

Emergency Contacts

Firefighters 119
Police 110
Komatsu City Hall
0761-22-4111

Alert Levels and Disaster Safety Information

In recent years, there have been large-scale disasters in many places, due to causes like localized super-heavy rains.
Check the weather information regularly. If there is a possibility of a disaster, evacuate in a way that makes sense for you. Keep yourself safe — or alive .

Evacuation Information Types (Five Alert Levels)

Disaster Hazard Level

Alert Level	Status	What to Do	Official Evacuation Instructions/Information
5	Disaster already happening, or happening very soon	Life-threatening danger! Get to safety immediately!	Emergency Safety Measures
EVERYONE MUST EVACUATE from hazardous places by Alert Level 4!			
4	High risk of disaster	EVERYONE MUST EVACUATE from hazardous places	Evacuation Instruction
3	Risk of disaster	Elderly people and people with other special needs must evacuate from hazardous places	Evacuation of elderly people and people with other special needs
2	Weather conditions worsening	Check your evacuation plan	Heavy Rain and Flood Advisory
1	Risk of weather conditions worsening	Prepare for disasters	Early Warning Information

- Alert Level 5 information is not always officially issued.
- At Alert Level 3, anyone needing extra time to evacuate (not just elderly people) should evacuate if they can.
- If there is a risk of landslides or other hazards along your evacuation route, or if your designated shelter or evacuation site is far away, we recommend evacuating at Alert Level 3 (Evacuation of elderly people and people with other special needs).

Disaster Safety Information

Disaster safety information is provided through various means. Check them for the latest information.

Yahoo! Disaster Prevention News (Registration Required)
Emergency information from Komatsu City is delivered through the app. The app also provides information like notifications about shelters opening, and alerts for disasters.
For Receiving Information / For Sharing Information

Komatsu Disaster Prevention App (Registration Required)
The Komatsu Disaster Prevention App delivers smartphone push notifications, with evacuation information like evacuation instructions and information about shelters opening.
The app also provides extensive information to help users prepare for disasters as part of everyday life!
こまつ防災アプリ
Google Play / App Store

Komatsu City Official LINE Account (Registration Required)
Provides information on disasters happening, disaster safety, and other related topics.
[@komatsu-city]

Komatsu City Official Social Media Accounts
Facebook — Komatsu City Hall [@cityofkomatsu]
X (formerly Twitter) — Komatsu City [@komatsu_city]

Other Disaster Safety Information

River Water Level Status (MLIT Disaster Information for River Website)
Shows locations of water level gauges and live camera feeds.

Facilities for People Requiring Special Care (Komatsu City Website)
Facilities for use by people with special needs in the event of a disaster.

Digital Version of Flood Hazard Maps

More detailed information about floods, tsunamis, and other water hazards is available on computers and smartphones. Available in multiple languages.
Supported languages: English, Japanese (日本語), Simplified Chinese (中文(简体)), Portuguese (Português), Vietnamese (Tiếng Việt)

Heavy Rainfall on August 4, 2022 (Nakanobage-machi, Komatsu City)

Learning from Past Floods

The digital version of flood hazard maps can be used to check past flooding, such as the heavy rainfall in August 2022. Learn about the threat of natural disasters, and be prepared for future floods.
https://www.city.komatsu.lg.jp/soshiki/1007/kakushuhaza_domappu/1086.html

In addition to the River Flooding Hazard Map, the following maps are also available
Tsunami Hazard Map, Earth-and-Rock Disaster Map, Earthquake Hazard Map, Inland Flooding Hazard Map (Scheduled to be published in FY2025)
https://www.city.komatsu.lg.jp/soshiki/1007/kakushuhaza_domappu/index.html

Area Shown in This Map
Shown on the other side of this map

Areas Requiring Leaving Your Home for Early Evacuation

Locations where any of the following conditions apply require evacuation to safer places, away from homes and other structures.

Structures Where the Top Floor Could Flood

Estimated Flooding Areas / Water Level Reference
Early Evacuation Required
10.0–20.0 m (10.0 m)
5.0–10.0 m (5.0 m)
3.0–5.0 m (Flooding into 2nd floor level) (3.0 m)
0.5–3.0 m (Flooding into 1st floor level) (0.5 m)
Less than 0.5 m (Flooding below 1st floor level)

Places Where Flooding Could Continue for Long Periods of Time

"Vertical evacuation" by going upstairs is an option if the top floor of your home is not likely to be flooded, but in locations where flooding will continue for an extended period of time, you may need to leave your home to evacuate, depending on your preparedness, your health, and other circumstances.

Check the digital version of the flood hazard map for flood length!

Areas Where Flooding Could Cause Building Collapses

Flood Flow

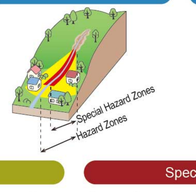
Places where wooden houses may collapse due to flood flows following levee breaches

Riverbank Erosion

Places where houses may collapse due to riverbank erosion

Earth-and-Rock Disaster (Special) Hazard Zones

Slope Failure (Steep Slope Collapse)

Debris Flow


Landslide

Hazard Zones
Zones where an earth-and-rock disaster could cause harm or death to any people there. Hazards are made known to the public, and warning and evacuation systems are put in place in these zones.

Special Hazard Zones
Zones where an earth-and-rock disaster could destroy buildings, and cause significant harm or death to any people there. Measures such as approval systems for specific development activities, and special regulations for buildings, are implemented in these zones.

"Evacuation" Means Avoiding Danger. Make Your Own Evacuation Plans.

Going to a shelter is not the only way to evacuate.
For example, if the estimated water level of a flood is less than 3 m, and your house has a second floor, you may be able to use the second floor as an evacuation site.
In order to get to safety in time, it is important to think ahead about how to evacuate, before it's too late. The flowchart below can help.

Use the flowchart below to plan your evacuation. Yes → No →

Step 1 Is your home located in an earth-and-rock disaster (special) hazard zone, or an area where floods could cause buildings to collapse?
Earth-and-Rock Disaster (Special) Hazard Zones
Areas Where Flood Could Cause Buildings to Collapse
Example

Step 2 Does your home have any rooms higher up than the estimated water level?
10–20 m
5–10 m
3–5 m
0.5–3 m
Less than 0.5 m

Step 3 Do you have enough water, food, portable emergency toilets (and refill bags), and other supplies to live on until the flood water is gone?

Evacuation by Leaving Your Home ("Horizontal Evacuation"): Evacuate to a Safe Place
Shelter
Choose an evacuation site that suits you best, such as a designated shelter you can walk to, a designated emergency shelter you drive to, or even a hotel or a friend's or relative's home.

Evacuation at Home ("Vertical Evacuation")
It is also possible to evacuate without leaving your home. Make sure you have enough water, food, portable toilets (and refill bags), etc.
Estimated Water Level

Points to Keep in Mind

- If at all possible , do not evacuate alone.
- Encourage neighbors to evacuate too.
- Work together as a community to support everyone's evacuation.
- If you need extra time to evacuate, you should start sooner.
- Keep away from hazardous places.
- Do not go near rivers or bridges.

Preparations to Reduce Damage

Use plastic trash bags, wooden boards, and other things around your home to prevent water from entering the building.

Make sure that any drains are not clogged. Take indoors any items that could blow away in the wind.

Emergency Items to Bring

These are the most important things to take with you when evacuating. Prepare these items based on the list, and check them regularly.

- ☐ Water
- ☐ Food
- ☐ Hard hat(s)
- ☐ Clothing and underwear
- ☐ Rainwear
- ☐ Laceless canvas shoes
- ☐ Flashlight(s)
- ☐ Portable radio
- ☐ Spare batteries and portable charger
- ☐ Matches and candles
- ☐ First-aid supplies
- ☐ Disposable heating pads (*kairo*)
- ☐ Blanket(s)
- ☐ Work gloves
- ☐ Toiletries
- ☐ Toothbrush(es) and toothpaste
- ☐ Towel(s)
- ☐ Pen(s) and notebook(s)
- ☐ Valuables (Bank passbooks, cash, passports, driver's licenses, hospital ID cards, individual number cards, etc.)

Disease Safety
Masks
Hand sanitizer
Bar soap/liquid soap
Wet wipes
Thermometer(s)

Items for Children
Baby formula
Disposable baby bottles
Baby food
Portable cutlery
Disposable diapers
Baby wipes
Portable bidet
Neck-light(s)
Baby carrier
Child shoes

Items for Women
Sanitary products
Pantyliners
Sanitary underpants
Sanitary bags
Personal alarm/whistle

Items for the Elderly
Adult diapers
Cane(s)
Hearing aid(s)
Nursing food
Dentures and cleansers
Absorbent pads
Intimate care products
Regular medications
Copy of medication handbook

Items to be stocked at home
Stockpiles
Food and water (at least 3 days' worth, preferably a week's worth) for each family member
Daily necessities (tissues, toilet paper, plastic wrap, trash bags, plastic water storage tank(s), portable toilet(s) and refill bags, etc.)

Shelters in the Event of Floods or Earth-and-Rock Disasters

As of March 2024

Shelters to be opened will vary depending on the scale and conditions of the disaster. Shelters listed below may not all open; before you evacuate, check with the Komatsu disaster prevention app, Komatsu City official LINE account, etc., for details on shelter openings.
Some of the roads surrounding shelters may flood, so you should evacuate as soon as possible. Disaster conditions may cause prolonged flooding of houses, and/or require leaving your home to evacuate.
For information on shelters outside of this map's coverage area, or more detailed forecasts, check the digital version of flood hazard maps.

Designated Shelters to Be Opened in the Event of Floods or Earth-and-Rock Disasters

*1 Shelters to be opened when flooding is expected
*2 Shelters to be opened when earth-and-rock disasters are expected
*3 Assuming flooding caused by once-in-a-thousand-years super-severe rainfall

Neighborhood (Elementary School District)	Facility Name	Address	Floods *1	Earth-and-Rock Disasters *2	Floors Available during Floods *3
Kokufu	Kokufu Elementary School	Tei-40-1 Koda-machi	○	○	All
Kokufu	Kokufu Junior High School	Mi-152-2 Ono-machi	○	○	All
Nakaumi	Nakaumi Elementary School	Ni-8-1 Sanrin, Nakaumi-machi	○	○	All
Nakaumi	Nakaumi Junior High School	2-4-1 Karumi-machi	○	○	All
Toryo	Toryo Elementary School	1-41 Nishikarumi-machi	○		All
Toryo	Komatsu Commercial High School	10 Kibogaoka	○		All
Kaneno	Former Kaneno Elementary School	Ne-43 Ono-machi	○	○	All
Kaneno	Shoto Midori Gakuen	Hei-30 Esashi-machi	○	○	3rd floor and above
Nishio	Former Nishio Elementary School	Ro-48 Kanagaso-machi	○	○	All
Nishio	Nishimata Shizen Kyoshitsu	Ni-301 Nishimata-machi	○	○	All
Hasadani	Fureai Shoto Community Center	49 Nagatani-machi	○	○	None

Designated Emergency Shelters Available During Floods

Neighborhood (Elementary School District)	Facility Name	Address	Cars OK?
Daiichi	Ministry of Land, Infrastructure, Transport and Tourism Komatsu Snow Removal Station Parking	He-no-bu Yawata	○
Kokufu	Komatsu Dengyo Co. Ltd. Head Office Factory 3 Parking	5-32-1 Kokufudai	○

Key

Estimated Flooding Areas (Estimated Water Levels)
10.0–20.0 m
5.0–10.0 m
3.0–5.0 m
0.5–3.0 m
Less than 0.5 m

Areas Where Flooding Could Cause Building Collapses
Flood Flow
Riverbank Erosion

Earth-and-Rock Disasters
Slope Failure (Steep Slope Collapse)
Debris Flow
Landslide

Designated emergency shelters available during floods
Sites or facilities where safety can be ensured, to keep people safe in the event of an emergency or other urgent risk of disaster.

The car icon indicates designated emergency shelters that accept cars, when evacuating from floods. For details like availability information, please check the Komatsu Disaster Prevention App or other sources.

Designated shelters available during floods or earth-and-rock disasters
Facilities where people can stay temporarily until the disaster risk is gone, or when the disaster prevents them from returning to their homes.

Voluntary shelters
Facilities that people can choose to evacuate to, at early stages (such as if you are feeling worried before official evacuation announcements are made)

Government office
Police station/substation (koban)
Fire station/substation
Medical institution
Water level observation station
Underpass/underground street (May be unusable if flooded)
Drainage pump station
Emergency route
Expressway
Komatsu City border

Approval by the Director-General of the Geospatial Information Authority of Japan based on the Survey Act (use) R 5JHs 279
This map was prepared with the approval of the mayor of Komatsu City, using the 1/2,500-scale Komatsu City map from the national basic map, published by the city government. (Approval No.: FY2023 Machi-De 133)