

Revised edition

English

Hakusan City Flood Hazard Map Guide

Hakusan Tedorigawa Geopark
Mascots "Yuki Mama & Shizuku-chan"



What is a flood hazard map?

The "Hakusan City Flood Hazard Map" shows safe areas to evacuate to in the event the Tedor River, Sai River, Yasuhara River, Takahashi River or Dainichi River overflows. In order to evacuate swiftly and safely during a disaster, being prepared is key.

*There are two versions of hazard map, one based on heavy rain-fall which might only fall in 100 years, and another in 1000 years.



About this guidebook

- Please keep this guidebook safe and in an easily accessible place.
- Confirm your evacuation shelter, route and emergency contact details.
- Prepare emergency supplies in advance.
- Regularly talk with your family about emergency procedures.

【Legend】

Icon	Name	Icon	Name	Points to keep in mind when evacuating	
	Designated Evacuation Shelter		Hokuriku Shinkansen		Landslide disaster alert area
	Height above sea level		JR Hokuriku Main Line		Landslide disaster special alert area
	Evacuation direction		Hokuriku-Rail Road Ishikawa Line		Storm surge flood alert area
	Care home		Government agency		Tsunami flood alert area
	Expressway		Fire station		Underground crossing locations
	National road		Police station, police box, carpark		Bridge
	Prefectural road, major road		Emergency health facility	Building collapse flood alert area (Early stage evacuation)	
	City, town and village borders				Flood
	Regional borders				Riverbank erosion

【Submersion depth chart】

Depth	Reference
10.0~ 20.0m	
5.0~ 10.0m	more than 2 levels of your house will be submerged
3.0~ 5.0m	the 2nd level of your home will be flooded
1.0~ 3.0m	the ground floor of your house will be submerged.
0.5~ 1.0m	the ground floor of your house will be flooded
0.0~ 0.5m	Underfloor

Queries regarding this hazard map

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Designated Emergency Evacuation Shelters

	Name of facility	District	Address	Tel	Type of disaster		
					Flood	Landslide Disaster	Tsunami/ Storm surge
1	白山市民交流センターはくさんホール (Hakusan Citizens' Exchange Center "Hakusan Hall")	松任 (Matto)	倉光二丁目1番地 (Kuramitsu-2chome-1)	274-9591	○	-	-
2	石川公民館 (Ishikawa Community Hall)	石川 (Ishikawa)	源兵衛町332番地1 (Genpeijima-machi-332-1)	277-0455	○	-	-
3	柏野公民館 (Kashiwano Community Hall)	柏野 (Kashiwano)	下柏野町483番地 (Shimokashiwano-machi-483)	276-1282	○	-	-
4	笠間公民館 (Kasama Community Hall)	笠間 (Kasama)	笠間町623番地1 (Kasama-machi-623-1)	276-1283	○	-	-
5	宮保公民館 (Miyabo Community Hall)	宮保 (Miyabo)	宮保町1159番地 (Miyabo-machi-1159)	276-1284	○	-	-
6	出城公民館 (Dejiro Community Hall)	出城 (Dejiro)	成町406番地2 (Nari-machi-406-2)	276-1286	○	-	-
7	御手洗公民館 (Mitarashi Community Hall)	御手洗 (Mitarashi)	相川町1566番地1 (Sogo-machi-1566-1)	276-1287	○	-	○
8	北陸自動車道緊急避難場所 (Hokuriku Expressway Emergency Evacuation Shelter)	御手洗 (Mitarashi)	相川町1868番地2 (Sogo-machi-1868-2)	-	-	-	○
9	旭公民館・旭丘体育館 (Asahi Community Hall, Asahigaoka Sports Hall)	旭 (Asahi)	旭丘二丁目32番地 (Asahigaoka-2-chome-32)	276-1288	○	-	-
10	中奥公民館 (Nakaoku Community Hall)	中奥 (Nakaoku)	中奥町144番地1 (Nakaoku-machi-144-1)	276-1290	○	-	-
11	林中公民館 (Hayashinaka Community Hall)	林中 (Hayashinaka)	乙丸町461番地 (Otomaru-machi-461)	276-1291	○	-	-
12	光野中学校 (Hikarino Junior High School (sports hall))	郷 (Gou)	番匠町468番地1 (Banjo-machi-468-1)	276-8823	○	-	-
13	郷公民館 (Gou Community Hall)	郷 (Gou)	田中町230番地 (Tanaka-machi-230)	276-1289	○	-	-
14	山島公民館 (Yamajima Community Hall)	山島 (Yamajima)	安吉町120番地 (Yasuyoshi-machi-120)	276-7764	2nd floor only	-	-
15	金沢工業大学つかほりサーチキャンパス65号館 (Kanazawa Institute of Technology Yatsukaho Research Campus Building no.65)	山島 (Yamajima)	八束穂三丁目1番地 (Yatsukaho-3-chome-1)	274-7733	○	-	-
16	千代野公民館・千代野児童センター (Chiyono Community Hall, Chiyono Youth Center)	千代野 (Chiyono)	千代野西八丁目30番地 (Chiyononishi-8-chome-30)	276-2204	○	-	-
17	旧美川図書館駐車場 (Old Mikawa Library Carpark)	美川 (Mikawa)	美川永代町ヲ266番地1 (Mikawa Eitai-machi-o-266-1)	-	○	-	○
18	はくさん信用金庫美川支店屋上 (Hakusan Shinkin Bank Mikawa Branch Rooftop)	美川 (Mikawa)	美川神幸町ノ336番地1 (Mikawa Jinko-machi-336-1)	278-2350	○	-	○
19	美川中学校 (Mikawa Junior High School (sports hall))	美川 (Mikawa)	美川浜町タ5番地 (Mikawahama-machi-yu-5)	278-2364	○	-	○
20	美川スポーツセンター (Mikawa Sports Center)	美川 (Mikawa)	美川浜町タ6番地 (Mikawahama-machi-6)	278-6090	○	-	○
21	湊小学校 (Minato Elementary School (Sports hall))	湊 (Minato)	湊町カ307番地 (Minato-machi-ka-307)	278-2244	○	○	○
22	湊防災コミュニティセンター (Minato Disaster Prevention Community Center))	湊 (Minato)	湊町ヨ70番地1 (Minato-machi-yo-70-1)	278-2002	○	○	○
23	白山青年の家 (Hakusan Youth Recreation Hall)	一ノ宮 (Ichinomiya)	八幡町戌142番地 (Yahata-machi-142)	272-3695	○	○	-
24	朝日小学校 (Asahi Elementary School (sports hall))	鶴来 (Tsurugi)	鶴来日吉町111番地 (Tsurugihyohi-machi-ro-111)	272-1611	○	○	-
25	広陽小学校 (Kouyou Elementary School (sports hall))	林 (Hayashi)	知気寺町と77番地2 (Chikiji-machi-to-77-2)	273-4131	○	○	-
26	林公民館 (Hayashi Community Hall)	林 (Hayashi)	道法寺町へ24番地 (Douhouji-machi-he-24)	272-1746	○	○	-
27	明光小学校 (Meikou Elementary School (sports hall))	館畑 (Tachihata)	井口町は1番地4 (Inokuchi-machi-ha-1-4)	272-1118	○	○	-
28	館畑公民館 (Tatehata Community Hall)	館畑 (Tachihata)	日向町イ19番地 (Hyuga-machi-i-19)	272-1041	○	-	-
29	河内ウッドホール (Kawachi Woody Hall)	河内 (Kawachi)	河内町江津い30番地 (Kawachi-machi-Gozu-i-30)	273-4133	○	○	-
30	鳥越小学校 (Torigo Elementary School (sports hall))	鳥越 (Torigo)	上野町オ1番地 (Kamino-machi-o-1)	254-2219	○	○	-
31	鳥越中学校 (Torigo Junior High School (sports hall))	鳥越 (Torigo)	釜清水町チ140番地 (Kamashimizu-machi-chi-140)	254-2319	○	○	-
32	鳥越ふるさとセンター (Torigo Furusato Center)	鳥越 (Torigo)	上吉谷町甲99番地 (Kamiyoshitani-machi-shin-99)	255-5066	○	○	-
33	白嶺小中学校 (Hakurei Elementary and Junior High School (sports hall))	尾口 (Oguchi)	瀬戸申66番地 (Seto-Saru-66)	256-7145	○	○	-
34	金沢工業大学白山麓キャンパスイノベーションセンター (Kanazawa Institute of Technology Hakusanroku Campus Innovation Hub)	尾口 (Oguchi)	瀬戸辰3番地1 (Seto-Tatsu-3-1)	256-7170	○	○	-

Other Facilities

	Name of facility	Address	Tel
City Hall	白山市役所 (Hakusan City Office)	倉光二丁目1番地 (Kuramitsu-2-1)	276-1111
	美川支所 (Mikawa Branch)	美川浜町ヨ103番地 (Mikawahama-machi-Yo-103)	278-3200
	鶴来支所 (Tsurugi Branch)	鶴来本町四丁目ヌ85番地 (Tsurugihon-machi-4c-Nu-85)	272-1111
	河内市民サービスセンター (Kawachi Citizen Service Center)	河内町福岡77番地 (Kawachi-machi-Fukuoka-77)	272-1100
	吉野谷市民サービスセンター (Yoshinodani Citizen Service Center)	佐良二136番地 (Sarani-136)	255-5011
	鳥越市民サービスセンター (Torigo Citizen Service Center)	別宮町170番地 (Betsumiya-machi-Ro-170)	254-2011
	尾口市民サービスセンター (Oguchi Citizen Service Center)	瀬戸午10番地 (Setoushi-10)	256-7011
	白嶺市民サービスセンター (Shiramine Citizen Service Center)	白嶺ハ157番地 (Shiramine-Ha-157)	259-2011
Police Station	白山警察署 (Hakusan Police Station)	倉光九丁目11番地1 (Kuramitsu-9-11)	216-0110
	白山警察署鶴来庁舎 (Hakusan Police Station Tsurugi Government Building)	月橋町644番地 (Tsukihashi-machi-644)	272-1161
Fire Station	白山野々市広域消防本部 (Hakusan Nonoichi City Wide Area Fire Department)	三浦町255番地1 (Miura-machi-255)	276-1119
	松任消防署 (Matto Fire Department)	三浦町255番地1 (Miura-machi-255)	276-6119
	松任消防署千代野分署 (Matto Fire Department Chiyono Branch Office)	北安田町861番地1 (Kitayasuda-machi-861-1)	275-2119
	鶴来消防署 (Tsurugi Fire Department)	明島町山84番地1 (Akarajimamachi-yama-84-1)	273-9119
	美川消防署 (Mikawa Fire Department)	鹿島町140番地1 (Kashima-machi-140)	278-6119
	白山消防署 (Hakusan Fire Department)	吉野夏111番地1 (Yoshino-Natsu-111)	255-8119
Hospital	公立松任石川中央病院 (Public Matto Ishikawa Central Hospital)	倉光三丁目8番地 (Kuramitsu-3-8)	275-2222
	公立つるぎ病院 (Tsurugi Hospital)	鶴来水戸町ノ1番地 (Tsurugi, Mito-machi-No-1)	272-1250

1

Let's Create My Timeline

*Created on a separate sheet

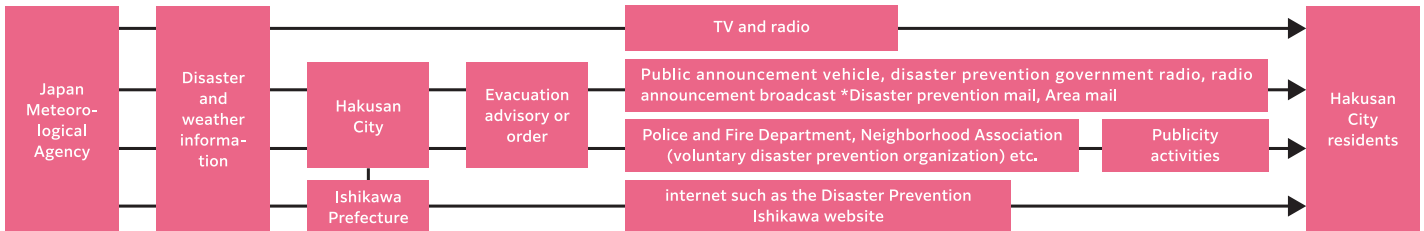
2

Weather and Evacuation Information Sources and Communication Methods During a Disaster



Information Transmission Route

Weather and evacuation information as well as the transmission route to citizens is displayed in the diagram below.



Please actively gather the latest weather and evacuation information from television and radio broadcasts. Information can also be obtained using your computer or smartphone.

Disaster Prevention Ishikawa	http://www.hrr.mlit.go.jp/kanazawa/bousai-info-ishikawa/index.html	
Ishikawa Prefecture disaster prevention and weather information	http://www.micosfit.jp/ishikawa_pref_bousai/	
Kanazawa Local Meteorological Office homepage	https://www.jma-net.go.jp/kanazawa/	

You can also access the websites using the QR code.

Hakusan City email distribution service *disaster prevention email

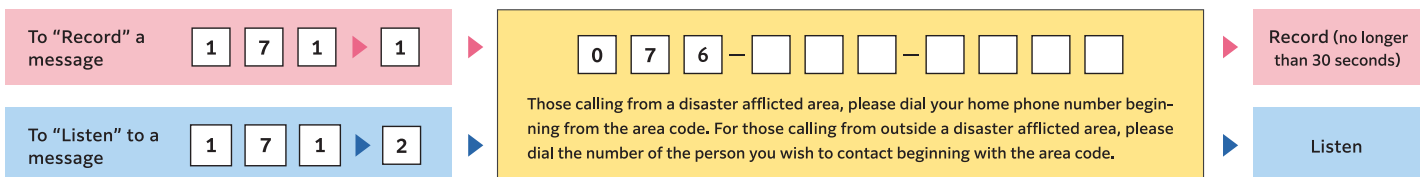
Here in Hakusan City, we are operating a service which distributes disaster prevention, weather and sight-seeing information to those who register to the service (Free registration).

To register through the Hakusan City homepage:	https://mail.cous.jp/hakusan/	
To register through your smartphone:	hakusan@entry.mail-dpt.jp	

You can also access the websites using the QR code.

NTT Disaster Voice Message Board

During emergency situations phelines may become congested, in such cases please use the disaster voice message board.



Mobile Phone Disaster Message Board

You can leave a written message for others to see during a disaster using your mobile phone. Using the "Disaster Message Board" set up by your mobile phone provider, you can register and confirm the safety of people in disaster afflicted areas.

Use of the above disaster message board via smartphone requires a different method, so please contact your mobile phone provider.



3 Tsunami, Storm Surge & High Waves



Tsunami, Storm Surge and High Waves Warnings and Alerts

At the Japan Meteorological Agency, when a Tsunami is predicted to occur, we aim to announce a tsunami alert (giant or regular tsunami) or tsunami caution approximately 3 minutes after the occurrence of an earthquake. Furthermore, when a disaster caused by a storm surge or high waves is predicted to occur, the storm surge and high waves alert or caution will be announced.

Types of tsunami alerts and cautions * Alerts regarding giant tsunami are classed under special alerts.






Type	Announcement criteria	Tsunami height to be announced		Estimated damage and appropriate action to be taken
		Numeric announcement (Tsunami height classification)	Announcement in the case of a giant earthquake	
Giant tsunami alert	When the predicted tsunami wave height is over 3m.	Over 10m (10m < estimated height)	Giant	Wooden framed houses will be completely destroyed or swept away, and people will be swallowed by the strong flow of water. Those on the coast or riverside, please immediately evacuate to a safe place such as high ground or evacuation shelter.
		10m (5m < estimated height ≤ 10m)		
		5m (3m < estimated height ≤ 5m)		
Tsunami alert	When the predicted tsunami height is over 1m but under 3m.	3m (1m < estimated height ≤ 3m)	Large	The tsunami will reach buildings at low elevation and cause flood damage. People will be swallowed by the strong flow of water. Those on the coast or riverside, please immediately evacuate to a safe place such as high ground or evacuation shelter.
Tsunami caution	When the height of the predicted tsunami is between 0.2m and 1m and there is a risk of damage being caused.	1m (0.2m ≤ estimated height ≤ 1m)	(Not shown)	Those in the sea will be swept away by the strong flow of water, cultivation rafts will be swept away and small boats capsized. Those in the sea please immediately get out of the water and move away from the coast.

Source: Japan Meteorological Agency Homepage (<https://www.data.jma.go.jp/svd/eqev/data/joho/tsunamiinfo.html>)

Storm surge and high wave forecast types

Type	Announcement conditions	Type	Announcement conditions
Storm surge alert	Predicted tide level being over 1.2m	High wave alert	Predicted wave height of 5.0m and above
Storm surge caution	Predicted tide level between 0.8m and 1.2m	High wave caution	Predicted wave height between 3.0m and 5.0m

Evacuation information

<p>Swiftly evacuate to higher elevation</p> <p>Evacuate swiftly and calmly to higher ground and away from the sea.</p> 	<p>Stay away from rivers and the sea</p> <p>Following an earthquake occurrence or alert/caution announcement, rivers and coastal areas become high risk. Those fishing or at the beach should swiftly move away from the water and evacuate to higher ground.</p> 
<p>Evacuate on foot where possible</p> <p>Evacuating by car may lead to traffic congestion and elevated risk, so please evacuate by foot where possible.</p> 	<p>Adhere to evacuation instructions (emergency)</p> <p>If evacuation instructions are announced, please abide by them and swiftly retreat to a safe location on higher ground.</p> 
<p>Obtain information from a trustworthy source</p> <p>Make sure you obtain current information from reliable sources such as the local government disaster prevention transmissions, television and radio.</p> 	

4 Landslides



Area Designation

In order to protect the lives and property of our citizens from landslide disasters which occur all over the country every year, Ishikawa Prefecture conducts terrain surveys in accordance with the Sediment Prevention Disasters Act, and is raising awareness of areas within Hakusan City which are at risk from landslide disasters using the below zones.

Landslide Caution Area Alert (yellow zone)

An area which carries a risk of causing harm to the lives of local residents in the case of a landslide.

Landslide Special Caution Area Alert (red zone)

An area which carries a risk of causing considerable harm to the lives of local residents and damage to buildings in the case of a landslide.

Landslide danger level

You can check the landslide danger level for your area by accessing the link below.

Ishikawa Prefecture
Landslide Disaster
Information System

<https://sabo.pref.ishikawa.lg.jp>

SABO I

Search

For smartphone
access use this
QR code ▶



5 Evacuation Information and River Water Levels



Flood
Occurrence!

	River				Danger level
	Tedori River (Tsurugi)	Dainichi River (Bekku)	Takahashi River (Tonodagawa)	Yasuhara River (Yasuhara Ohashi)	
High risk of flooding water level	10.1m	4.7m	1.5m	4.1m	5
Evacuation water level	3.0m	—	1.2m	2.9m	4 (danger)
Flood caution water level	2.3m	—	1.0m	2.5m	3 (alert)
Flood prevention team standby water level	1.4m	2.0m	0.9m	2.2m	2 (caution)
Ordinary water level		1.5m	0.7m	1.6m	1
Regular water level					

Flood disaster has already occurred

Take best measures in order to protect your life.

Evacuation Instruction (emergency)

A very dangerous situation. Immediately evacuate to the nearest evacuation shelter. For those who do not have enough time to do so, please evacuate to a tall and strong building and wait to be rescued.

Prepare to evacuate (elderly citizens start evacuating)

There is a high risk of flooding so please start preparing to evacuate. Elderly citizens, families with young children and those with physical disabilities please start evacuating to the nearest shelter immediately.

Caution

Please confirm the location and route to your nearest evacuation shelter using the hazard map etc.

Flood disaster danger level

You can check the flood disaster danger level using the below link.

Ishikawa Prefecture
Comprehensive River
Information System

<http://kasen.pref.ishikawa.jp/>




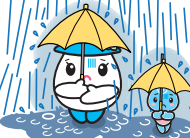
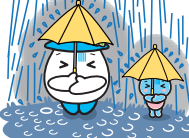
Ishikawa Prefecture River Information

Search

For smartphone
access use this
QR code. ▶

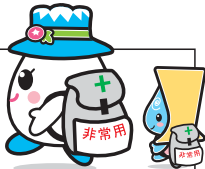


6 Rain (amount of rainfall in one hour)

Between 10-20mm	Between 20-30mm	Between 30-50mm	Between 50-80mm	Over 80mm
Moderate rain	Heavy rain	Very heavy rain	Violent rain	Torrential rain
				
The sound of the rain makes it harder to hear other people's voices. If this amount of rain continues for extended periods of time, extra care is required.	Gutters, drains and small rivers will begin to overflow and small scale landslides may also occur.	A continuous heavy downpour similar to emptying a bucket of water. Greater risk of landslides and landslips and in high risk areas evacuation preparation is necessary.	Rainfall that resembles the power of a waterfall. Manholes will overflow and there is a high risk of debris flows. This type of rain can cause many disasters.	There is almost a suffocating pressure that comes with this type of rainfall. There is a strong chance of large scale disasters occurring and strict vigilance is required.

7 Emergency Item List

To prepare for an imminent disaster, check the following list to make sure you have all the items necessary to cope in an emergency situation.



Food supplies (at least enough to last for 3 days)	<input type="checkbox"/> Drinking water (You need 3 litres of drinking water per day per person) <input type="checkbox"/> Food			
Valuables	<input type="checkbox"/> Money (cash including small change) <input type="checkbox"/> Important documents such as health insurance card and driving license etc.	<input type="checkbox"/> Bank account book <input type="checkbox"/> Official seal (inkan)	<input type="checkbox"/> Glasses or contact lenses <input type="checkbox"/> Spare key for your car and house	
Information	<input type="checkbox"/> Mobile phone, radio (including charger/batteries) <input type="checkbox"/> Emergency contact information	<input type="checkbox"/> Writing utensils <input type="checkbox"/> Hazard map		
Useful items	<input type="checkbox"/> Torch <input type="checkbox"/> Rain gear	<input type="checkbox"/> Whistle or buzzer <input type="checkbox"/> All-purpose knife	<input type="checkbox"/> Gloves <input type="checkbox"/> Plastic bags <input type="checkbox"/> Towel	<input type="checkbox"/> Change of clothes <input type="checkbox"/> Household medicine, prescription medicine
Infection prevention items	<input type="checkbox"/> Mask <input type="checkbox"/> Thermometer	<input type="checkbox"/> Hand disinfectant <input type="checkbox"/> Soap		

- This list is just an example, prepare what you need based on your own household situation.
- As not to interfere with evacuation, try to prepare everything in a compact manner.
- Decide an order of precedence and start preparing from the most important item.
- Periodically check the contents of your emergency bag.

Reference

- This hazard map was created in accordance with the amendment of the Flood Control Act carried out in May of 2015, hypothesizing a very heavy rainfall which may only fall once in roughly 1000 years. This map also uses the "Tedori River Water System Flood Hypothesis Area Map (created hypothesizing a worst case scenario) announced by the Ministry of Land, Infrastructure, Transport and Tourism" in April of 2017, and the "Sai River System, Yasuhara River, Takahashi River Flood Hypothesis Area Map"(created hypothesizing a worst case scenario) announced by Ishikawa Prefecture in July of 2018.
- Depending on the rainfall conditions, flooding may also occur in areas not marked on the map.
- Regarding the Tedori River and Obi River, part of Ichinomiya, Tsurugi and the Hakusanroku area indicated on the map is not based on the Water Act.
- This hypothetical flood map does not take into consideration rainfall which exceeds the assumed disaster level of rainfall, flooding of rivers not stated in this document as well as floods caused by inland water (such as gutter and irrigation water drainage issues).