"Natural Disaster Reduction" Booklet for Akashi Residents
(Akashi City Disaster Hazard Maps)

In case of emergencies, keep this booklet in easy reach at home.

This booklet provides you with the information about possible disasters at the time of an earthquake and an inundation caused by heavy rain or typhoon in the Akashi City area. This booklet is made with the purpose to safely aid the evacuation of Akashi residents.

The detailed hazard map is available for your reference at the Disaster Prevention Center (in Fire department), shimin (citizen) centers, or community centers in Akashi City.

Contents
p. 1 Emergency contact facilities.
pp. 2 - 7 Earthquake disaster (seismic intensity, Tsunami, liquefaction).
pp. 8 - 13 Storm and flood disaster (river, inland water, high tide inundation).

At the time of an emergency! - Contact number of the public institutions.

<table>
<thead>
<tr>
<th>Emergency contact facilities</th>
<th>Telephone number</th>
<th>Fax. (Facsimile) number</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akashi City Hall</td>
<td>912-1111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Akashi City Disaster Management Headquarters</td>
<td>918-5090</td>
<td>918-5146</td>
<td>At the time of a disaster.</td>
</tr>
<tr>
<td>Akashi City Comprehensive Safety Measures Bureau</td>
<td>918-5069</td>
<td>918-5140</td>
<td></td>
</tr>
<tr>
<td>Okubo Shimin (Citizen) Center</td>
<td>918-5620</td>
<td>918-5622</td>
<td>Call the Akashi City Hall on Saturdays, Sundays, holidays, and after business hours.</td>
</tr>
<tr>
<td>Uozumi Shimin (Citizen) Center</td>
<td>918-5630</td>
<td>918-5631</td>
<td></td>
</tr>
<tr>
<td>Futami Shimin (Citizen) Center</td>
<td>918-5640</td>
<td>918-5641</td>
<td></td>
</tr>
<tr>
<td>Fire station</td>
<td>119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Police station</td>
<td>110</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Akashi City Waterworks Division</td>
<td>912-1111</td>
<td></td>
<td>Call the Akashi City Water Service Center on Saturdays, Sundays, holidays, and after business hours.</td>
</tr>
<tr>
<td>Akashi City Water Service Center</td>
<td>928-6385</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Akashi office of The Kansai Electric Power Co., Inc.</td>
<td>0800-777-8046</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Osaka Gas Co., Ltd. (for gas leak)</td>
<td>0120-7-19424</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Photo: The neighborhood of Akashi Municipal Planetarium after The 1995 Southern Hyogo Prefecture Earthquake
Seismic Intensity Map

Great Nankai Trough Earthquake (oceanic trench type earthquake)

- Trench type earthquake is an earthquake caused by sudden movement of plates forming on oceanic trench and shakes slowly for a long time.
- This map shows seismic intensity distribution assumed simultaneous occurrence of 3 earthquakes, Tokai, Tonankai, and Nankai per grid unit of approximately 250 meters.

Inland Type Earthquake (Near Field Earthquake)

- Island type earthquake is also called as near field earthquake, which occurs at the inland active faults or bedrocks and its hypocenter is relatively shallow, and shakes quickly for a short time.
- This map shows the seismic intensity distribution of earthquake on the supposition that its hypocenter is Rokko-Awaji island fault zone (Rokko-Mountain southern edge to Awaji island east coast) by which Akashi City will be most severely affected, per grid unit of approximately 250 meters.

Seismic intensity

- Strong earthquake may occur anywhere in Japan.
- Seismic intensity represents the degree of the shaking strength at each location.
- There is also another scale which represents the energy of earthquake called magnitude. Even if the value of magnitude is high, when the hypocenter is far away, seismic intensity is weak.

Tsunami

- After oceanic trench type earthquake occurs, the high possibility of a Tsunami may follow soon after.
- Tsunami is a series of big waves caused by a sudden uplift and subsidence of the seafloor occurred by an earthquake.

Evacuation guideline; Northern area of Sanyo Dentetsu railway.

- When a tsunami arises!
  Stay away from coastal areas and rivers immediately and go to high ground. When there is no high ground, seek anywhere higher than the second floor such as a tsunami temporary refuge building or reinforced concrete building. Some Tsunami may surge up rivers. Don’t think it’s safe on the riverside even where your location is far away from the sea. Immediately stay away from the rivers, then evacuate to high ground. Tsunami can surge repeatedly.
  Stay in a safe place until the warning is called off.

Earthquake Disaster Hazard Map

Right after an earthquake!!

- Earthquake early warning is issued when the seismic intensity exceeds 5 lower.
  - Remain calm and secure your safety.
  - Keep away from shelves, furniture.
  - Make sure you have a way out.
  - Put on shoes (Be careful of broken glass).
- Be aware of fire.
- Confirm your family’s safety.
- Confirm disaster information. Pay attention to Tsunami warning.
- Prepare emergency survival kit.
- Put up your memo about your intended destination on your front door.
- Switch off the main gas tap and the electricity circuit breaker.

- If a fire starts!
  Don’t fight a fire while there is strong shaking. After the shaking has calmed down, put out the fire with an extinguisher or bucket etc.

- Be sure to obtain the correct information.
  At the occurrence of disaster, confusion of information is possible. Get accurate information from radio, TV, fire station, and local authorities.

- Can you help your neighbors?
  At the occurrence of large earthquake, some fire engines and ambulances cannot come right away. In such case help your neighbors. Rescue within 72 hours is crucial. It is the critical time between life and death.

- When a large earthquake occurs, Akashi City will establish Disaster Management Headquarters (Tel. 918-5090) which handles all of information collection and restoration of services.

Preparation for evacuation

- Put on shoes and evacuate on foot.
- Go to an evacuation area.
- Pay attention to any aftershocks.
- Stay away from concrete-block walls, rubble, cliffs, and riversides.
- Cooperate with your neighbors, encourage each other in a loud voice and take action.
- Confirm your family’s safety.
- Confirm disaster information. Pay attention to Tsunami warning.
- Prepare emergency survival kit.
- Put up your memo about your intended destination on your front door.
- Switch off the main gas tap and the electricity circuit breaker.
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- Cooperate with your neighbors, encourage each other in a loud voice and take action.

- When a tsunami arises!
  Stay away from coastal areas and rivers immediately and go to high ground. When there is no high ground, seek anywhere higher than the second floor such as a tsunami temporary refuge building or reinforced concrete building. Some Tsunami may surge up rivers. Don’t think it’s safe on the riverside even where your location is far away from the sea. Immediately stay away from the rivers, then evacuate to high ground. Tsunami can surge repeatedly.
  Stay in a safe place until the warning is called off.
Earthquake Disaster Hazard Map

Great Nankai Trough Earthquake / Map of Assumed Tsunami Inundation

Follow this procedure when Tsunami warning and advisory is announced

<table>
<thead>
<tr>
<th>Estimated maximum tsunami height</th>
<th>Expression in case of earthquake</th>
<th>Expected action to be taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tsunami advisory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1m (20cm – 1m)</td>
<td>No description</td>
<td>• Get out from the water and away from the coastal area immediately.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Do not enter or move closer to the sea, until the tsunami warning advisory is called off.</td>
</tr>
<tr>
<td>Tsunami warning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3m (1m – 3m)</td>
<td>High</td>
<td>• Evacuate from the coastal area to a safe place immediately such as high ground or a tsunami temporary refuge building.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Evacuate to a higher place if you are in a low lying area. Don’t think that the place where you are now is a safe place.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Since tsunami can surge repeatedly, stay at a safe place until the tsunami warning is called off.</td>
</tr>
<tr>
<td>Major tsunami warning (Upcoming warning)</td>
<td>5m (3m – 5m)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Huge</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10m (5m – 10m)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Over 10m (Over 10m)</td>
<td></td>
</tr>
</tbody>
</table>

What’s The Great Nankai Trough Earthquake?

“The Great Nankai Trough Earthquake” is supposed to be the biggest ever earthquake with a maximum magnitude of level 9 and a strong seismic intensity of level 7.

When a strong earthquake occurs, pay attention to the following:

The effects of the earthquake are not only limited to strong shaking.

- **Tsunami**
  It is predicted that a tsunami will follow, such as the Great Nankai Trough Earthquake. Evacuate in 60 minutes, after strong shaking has ceased.

- **Liquefaction**
  In case of strong earthquake there is the possibility of damage such as land subsidence, severe structural damage to buildings and inclination. This can occur in sandy areas where there is a high level of groundwater present (Such as landfill, near rivers, ponds, and sea water).

- **Landslide**
  Landslides may occur on steep cliffs when a strong earthquake occurs.

- **Collapse of irrigation ponds**
  The cracking or ground liquefaction of banks might cause the collapse of irrigation ponds, when a strong earthquake occurs. The outflow of pond water might cause flood damage.
Earthquake Disaster Hazard Map

Great Nankai Trough Earthquake / Map of Assumed Tsunami Inundation
Area / Map of Assumed Danger Area by Liquefaction (Eastern Area)

About tsunami

About tsunamis, the assumption of the greatest class based on current scientific findings is used, extreme caution against a tsunami is necessary in area lower than 3m above sea level because of the potential devastating power of tsunamis.

<table>
<thead>
<tr>
<th>Akashi City</th>
<th>The highest tsunami water level</th>
<th>The shortest arrival time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.0m</td>
<td>115 minutes</td>
</tr>
</tbody>
</table>

*The Great Nankai Trough Earthquake tsunami flooding simulation result by Hyogo prefecture. (As of February, 2014.)

Please make note and confirm sea levels on the map provided on the website “Geospatial Information Authority of Japan (GSI)” of “Ministry of Land, Infrastructure, Transport and Tourism” http://maps.gsi.go.jp/
**Storm and Flood Disaster Hazard Map**

**River Flooding and Inland Water Flooding**

A flood occurs not only by river flooding but also by overflowing from sewage lines and town gullies.

- Overflowing of water into a town area and farmland can be caused by heavy rain is called "flooding".
- "River flood": Flooding of river water due to heavy rain.
- "Inland water flood": Flooding of "inland water" in a town area caused by a capacity shortage of sewage lines and town gullies due to a heavy downpour.

- This map shows the assumed inundation area based on the analytical data calculated by using the past records of floods in the city area and the largest amount of rainfall.

**Expected inundation area caused by "Inland water flood"**

This map shows the assumed inundation area caused by both inland water flood and river flood due to the heaviest recorded rainfall of the past century, occurring at the same time.

**Assumed inundation area caused by "River flood" and "Inland water flood".**

(The enlarged maps are on page 10 - 11 and 12 - 13)

- If you live near a steep cliff or water ways, beware of landslides.
- If you live near a river, pay attention to the water level.

**Procedure for residents**

- During heavy storm and rain!!
- **Risk of storm and flood disaster is widely predictable.**
- **Obtaining information**
  - Check the weather forecasts by TV/Radio.
  - If you live near a steep cliff or river ways, beware of landslides.
  - If you live near a river, pay attention to the water level.
- **Preparation for evacuation**
  - Wear casual clothes that are easy to move in.
  - Watch your steps.
  - When evacuating, stay in groups or with your family and act calmly and orderly.
  - Cooperate with the evacuation of all children and elderly people.
- **Evacuation**
  - If you are unable to evacuate, do not risk your own safety (and others) trying to do so.
  - Evacuation at night is more risky because of obscurity of ground surface and other unseen hazards.
  - Once flooding begins, there is a risk of falling into unseen submerged manholes.
  - If you are unable to evacuate, take shelter on the second floor or higher and wait for rescue.

**Water level of rivers**

- The water mark installed at all big rivers indicates the water level.

**Assumed inundation area**

- 0.5m - 3.0m
- < 0.5m

**Expected inundation area**

- 0.5m - 3.0m
- < 0.5m

**Critical water level of inundation**

- Information of dangers of inundation due to the collapse of river banks.
- Information of warnings of flooding from rivers. Rough indication of issuance to give evacuation advisory by Akashi city.
- Information of advisory of flooding from rivers. Rough indication of issuance of the information of preparation for evacuation by Akashi city.

**Precautionary water level of inundation**

- Information of dangers of inundation due to the collapse of river banks.
- Information of warnings of flooding from rivers. Rough indication of issuance to give evacuation advisory by Akashi city.
- Information of advisory of flooding from rivers. Rough indication of issuance of the information of preparation for evacuation by Akashi city.

**Critical water level of inundation**

- The water mark installed at Akashigawa river.

**Announcement for preparation of evacuation**

- Evacuation advisory/order
  - Evacuation advisory is issued when the risk of disaster is increasing. If it is issued, the residents of relevant areas should be evacuated.
  - Evacuation order
    - Evacuation order is issued when the risk of disaster is critical. If it is issued, the residents of affected areas should be evacuated immediately.

**Announcement for preparation of measures**

- Obtaining information/preparation for measures
  - Obtaining information on weather and water level/establishment of communication channels. Preparation of measures, such as patrols.

**Correspondence from the city**

- Contact/Call address
  - Akashi City Hall: 912-1111
  - Akashi City Comprehensive Safety Measures Bureau: 918-5069
  - Akashi City Disaster Management Headquarters: 918-5090
  - Fire Station: 119
  - Police Station: 110

**A guide of flood depth**

- 3m: The depth that the ground floor of a house can be submerged.
- 50cm: Adult women's knee-deep water level.
- 90cm: Child can be submerged.

**Announcement for preparation of evacuation**

- Information for preparation for evacuation
  - When there is a risk of disaster, Akashi City provides an announcement of warning or preparation to evacuate.

**Announcement for preparation of measures**

- Information for preparation for measures
  - Information for preparation for evacuation
    - Obtaining information/preparation for measures
      - Obtaining information on weather and water level/establishment of communication channels. Preparation of measures, such as patrols.

**Information for preparation for evacuation**

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- Information of warnings of flooding from rivers. Rough indication of issuance to give evacuation advisory by Akashi city.
- Information of advisory of flooding from rivers. Rough indication of issuance of the information of preparation for evacuation by Akashi city.

**In case of danger, early evacuation is recommended!**

- If you live near a river, pay attention to the water level.
- If you are unable to evacuate, take shelter on the second floor or higher and wait for rescue.

**Preparation of measures, such as patrols.**

- Evacuation at night is more risky because of obscurity of ground surface and other unseen hazards.
- Once flooding begins, there is a risk of falling into unseen submerged manholes.
- If you are unable to evacuate, take shelter on the second floor or higher and wait for rescue.
When a storm and/or flood disaster hits, you need to pay attentions as follows!

- **Landslide**
  - Under heavy rain, steep sloping terrain can collapse.

- **Collapse of irrigation ponds**
  - Under heavy rain, further erosion by strong currents of overflowing water may cause banks of irrigation ponds to collapse.

- **Inundation of underground roads and underground shopping areas**
  - Inundation of an underground road (underpass) or underground shopping area can start earlier than other surrounding areas.

- **Inundation caused by overflowing water from sewage lines and waterways**
  - Low lying lands and depressions can be flooded even before river water overflows.

**High tide and large waves flooding assumption area map (Western area)**

- Setogawa and Akanegawa rivers warning water level to start evacuation (Water level observation station location)
  - The maximum tide level of Higashi-harima port is expected to be 4.2m and that of Eigashima port is 4.0m.

**Important flood prevention control area (Western area)**

- Priority areas for flood prevention where there is a huge impact caused by flooding and high tides (Designated by Hyogo Prefecture).

**River inundation assumption area map**

- Inland water flood risk area assumption map (Western area)
Weather Warnings - Actions to be taken at the issuances of Weather Warning and Advisory

Storm and Flood Disaster Hazard Map

River Inundation Assumption Area Map / Inland Water Flood Risk Area Assumption

Map / High Tide Inundation Assumption Area Map (Eastern Area)

<Simulated conditions>

River flooding

The map shows the expected river water flooding areas of Class-B rivers (Setogawa river, Shimzagawa river, Taniyagawa river, Akashigawa river, and Asagiri river under the management of Hyogo Prefecture), in the case of heavy downpours with the amount of rainfall assumed to occur once in 100 year.

Flood of high tide

The map shows areas expected to be most affected by flooding caused by a strong typhoon (like the 2nd Muroto-typhoon landed in 1961, and simulating if the path was to shift 1.5 degrees to the west).

Inland water flooding

The map shows areas expected at risk of "Inland water flooding", basing on the result deduced from the combined analysis using the respective maximum rainfall amounts and other factors of past flooding recorded in the city.

Assumed inundation area

- Inland water flood risk area
- Landslide warning area
- The possible collapsing of banks causes flooding from irrigation ponds that are placed under close observation.
- Irrigation ponds placed under close observation

For reference to the numbers and symbols on the map, please refer to page 15.

Important flood prevention control area (Eastern area)

Priority areas for flood prevention where there is a huge impact caused by flooding and high tides (Designated by Akashi City).

Data broadcasting of NHK and other stations deliver a real-time regional disaster information.

Data broadcasting screen image.

Press the d-button on the remote control on the TV.

NHK and other stations

Data broadcasting of NHK and other stations provide you with the water level data at the observation stations.

Asagiri and Akashigawa rivers warning water level to start evacuation (Water level observation station location)

The site of disaster prevention information of the river (http://www.river.go.jp/98.html) provides you with the water level data at the observation stations.

Critical water level of inundation

Critical water level of inundation

Inundation area (high tide)

Assumed inundation area (high tide)

- 0.5m - 1.0m
- 1.0m - 2.0m
- 2.0m - 3.0m
- 3.0m - 5.0m

River inundation assumption area map

Inland water flood risk area assumption map (Eastern area)

For higher probability of a serious disaster

For higher probability of a devastating disaster

For probability of disaster

Check weather information and take a look of the sky. Take water preparations against disasters, keeping in mind up-to-date information.

Stay at home, be careful of landslides and especially watch out for flooding in areas likely to be affected.

Special Warning (for higher probability of a devastating disaster)

Following to the evacuation advice issued by the City or relevant entities, evacuate immediately to your nearby shelter.

In the case when it is too dangerous to go outside, move to the safest place in your premises.
Evacuation Method of Impending Danger

This is opened with cooperation of the community, when elementary and junior high students are not enough to accommodate all.

Points to consider at the time of evacuation are as follows:

1. Do not act alone.
2. Carry an emergency survival kit (Use a backpack, keep both your hands free).
3. Turn off the electricity circuit breaker and main gas tap.
4. Keep away from narrow streets, walls, coastal area, riversides, and cliffs.
5. Cooperate together and support the evacuation of the aged, the disabled, and infants.

In case of earthquake or fire

When a tsunami occurs, and you fail to get out in time to high ground

This is opened when aged and disabled people need support.

Shelter

Public facility Neighborhood association facilities

When a tsunami occurs, and you fail to get out in time to high ground

This is opened when there are people having difficulty staying at an ordinary shelter.

Shelter (Public facility/Neighborhood association facilities)

Tsunami temporary refuge building

Temporary evacuation area

Regional park for disasters

Neighborhood parks

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This is opened when aged and disabled people need support.

Shelter (Public facility/Neighborhood association facilities)
### Methods to Get Disaster Information (Updates)…Try to confirm disaster information in more than one way.

#### Television and Radio broadcasts

<table>
<thead>
<tr>
<th>Radio</th>
<th>The disaster information is broadcasted from each radio station.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Kansai</td>
<td>AM 558kHz NHK the 1st AM 666kHz</td>
</tr>
<tr>
<td>NHK the 2nd</td>
<td>AM 828kHz Kiss FM KOBE FM 89.9MHz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Television</th>
<th>• Free-to-air T.V. Data broadcasting of NHK and other stations deliver a real-time regional disaster information.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• CATV (ACTV135) Local disaster information broadcasts on screen emergency alerts/updates.</td>
</tr>
</tbody>
</table>

#### Internet

- Hyogo disaster prevention weather information: [http://hyogo.bosai.info/](http://hyogo.bosai.info/)
- Disaster prevention information of the river (Ministry of Land, Infrastructure, Transport and Tourism): [http://www.river.go.jp/86.html](http://www.river.go.jp/86.html)

#### Disaster prevention checklist…Try to have a “Preparation for disaster plan” with your family.

- The evacuation area and the evacuation route.
- An agreed family meeting place in case of separation.
- The hazardous zones of the evacuation route.

#### Usage and storage place of medical and disaster (survival) supplies.

- **Emergency survival kit** (enough supplies for 3 days to 7 days).
- **Flashlight** (Batteries).
- **Candles** (Matches).
- **Water** (3 liters per day per person).
- **Foods** (instant foods, canned foods, retort-packed foods).
- **Portable radio** (Batteries).
- **Cash/Valuables**
- **Clothes** (raincoat, work gloves, underwear).
- **Disposable toilet.**
- **Hazard map.**
- **Medical supplies** (emergency supplies, household medicine supplies).

#### How to contact with family.

- Family name.
- The name of the office or school.
- The telephone number and the mail address.
- The action and the roles to take charge at the time of the disaster within your family (fire-warden, carrying emergency survival kit).

#### The message board (cellular phone, smartphone) for disaster, how to use the NTT Disaster Emergency Message Dial.

#### Memo

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March, 2014 issued, March, 2016 revised

*Reference: Akashi City Comprehensive Safety Measures Bureau. Tel. 918-5069*

Base map information of the Geospatial Information Authority of Japan is used in this booklet under the approval of its director general (Approval No. Hei 25 Jyosi, No.986)