

Bendigo Creek - Bay Street,
Golden Square



Local Flood Guide

Golden Square & Kangaroo Flat

Understand, prepare, and respond effectively to your flood risk.



FLOOD STORM
EMERGENCY **132 500**



If life threatening
call triple zero 000

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Victorian State Emergency Service acknowledges Aboriginal Traditional Owners of Country throughout Victoria and pays respect to their cultures and Elders past and present.

Disclaimer: Victoria State Emergency Service assumes no responsibility or liability for any errors or omissions for any of the content in this document.

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For more information visit: ses.vic.gov.au/plan-and-stay-safe

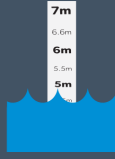


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Local flood information



Golden Square and Kangaroo Flat have a well recorded history of floods since 1850.



One of the largest floods on record was in 1857 when 82 millimetres of rain fell in 24 hours.



Flooding can happen quickly after heavy rainfall, giving people little to no time to prepare and take action.

Why do Golden Square and Kangaroo Flat flood?

Heavy rainfall can cause **flash flooding**. This can happen quickly and you may not receive an official warning.

- Stormwater drainage may not be able to drain the amount of rainfall, causing them to overflow.
- The ground may be unable to absorb the amount of rainfall, naturally causing the water to pool. Recent urban development has changed the natural flow of the excess water runoff.
- Properties in the Golden Square and Kangaroo Flat area close to the Bendigo creek and other waterways are at risk of the effects of flooding when waterways rise and overflow their banks.
- Even if your property or business is not close to a waterway, it could still be at risk of flooding.
- Severe flooding has occurred regularly throughout history in Golden Square and Kangaroo Flat. It's important to be aware of weather, especially heavy rainfall or sustained rainfall over a number of days.

How do floods impact communities?

Even if your home or workplace stays dry, floods can impact you in many ways.



Buildings flooded



Road closures



Drinking water supply and quality affected



Power outages



Mobile and internet network outage



Sewage overflows inside building

Check your home, work, and travel routes for floodwater

If the following maps shows potential flood risk for you, ensure you take action to **plan and prepare for floods**. See [page 8](#) for more information.

- These maps shows the area likely to flood in a significant flood event.
- This is referred to as a 1% Annual Exceedance Probability (AEP), which means there is a 1% chance of this size flood (or greater) happening in any year.



View an interactive version of this map using North Central Catchment Management Authority's portal called [Flood Eye](#), see [page 7](#) for more details.



What Roads Are likely to Flood ?

During a flood, the roads listed below may flood and be closed

- For current road closures, check [Vic traffic](#)
- [Vic Emergency](#) may include road closures in its warnings.

Golden Square

- Panton Street
- High Street
- Bay Street

Kangaroo Flat

- High Street
- Grantham Terrace
- Calder Highway

What might happen in a flood in your area?

Although no two floods are the same and the environment is constantly changing, the below provides an idea of what to expect for different flood sizes.



Minor impacts

- Water spilling over river banks and nearby low lying areas.
- Water coming up through drains in nearby streets.
- Water will cover minor paths, tracks, and low level bridges.
- Some backyards and buildings impacted below floor level.
- Relocation of stock may be required in some cases.



Moderate impacts

- Water spilling over riverbanks and covering large areas of land.
- Water above floor level in some houses and buildings.
- Evacuation may be required in some areas.
- Impact to roads and traffic routes.
- Relocation of stock may be required in some cases.



Major impacts

- Widespread flooding.
- Many houses and businesses are inundated above floor level.
- Properties and whole areas may be isolated.
- Major roads and rail routes closed.
- Many evacuations required.
- Impact to utility services (water, power, sewerage).

Previous flood impacts

In addition to these impacts, the below rainfall levels of past floods can help you anticipate impacts of future flood events.

September 2010 flood event

- Around 80 millimetres of rainfall was recorded in one day, with approximately 40 millimetres recorded over around 10 hours.

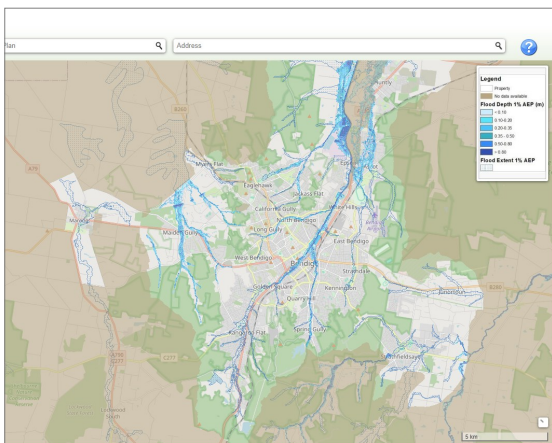
February 2011 flood event

- During this flood event, a total of 100 millimetres of rainfall was recorded over three days, with approximately 50 millimetres of rainfall recorded in a five hour burst.

October 2022 Flood event

- During the 2022 flood event, a low- pressure system brought intense rainfall and severe storms. Approximately 120 mm of rain fell over two days, overwhelming already high rivers, creeks, and catchments

Download your free Property Flood Report



[Flood Eye](#), developed by the North Central Catchment Management Authority, is a tool for residents and businesses to assess their flood risk.

- Use the portal to zoom in on your property and see if it's likely to be affected in a large flood event.
- Download a free property report to help you plan for future floods.



Go to floodreports.nccma.vic.gov.au

*Note this tool is not designed to be used during a flood event and does not provide information for current floods.



In a flood emergency, stay informed through [VicEmergency](#), see [page 8](#) for more information.

Your local services

Catchment Management Authority

For property specific advice and development advice before a flood event.

- **North Central Catchment Management Authority**
nccma.vic.gov.au | 03 5448 7124

Local Council

For relief support after a flood event and general land use planning.

- **City of Greater Bendigo**
bendigo.vic.gov.au | 1300 002 642

Plan and prepare for floods

1 How to stay informed

VicEmergency is Victoria's source of emergency information and warnings.

- Set-up a watch zone for your area for alerts when warnings are issued.
- Learn about the three different warning levels.



VicEmergency app
emergency.vic.gov.au
1800 226 226



vicemergency



@vicemergency



2 Make an Emergency Plan

Use information from your Local Flood Guide and your Catchment Management Authority, to help you decide;

- What you will do in a flood emergency
- When you will do it
- Who you will inform



Red Cross RediPlan is a free tool that helps you create a simple emergency plan that supports the flood actions you have chosen.

- Visit redcross.org.au/prepare
- Download the [Get Prepared](#) app

3 Prepare an emergency kit



You may need to stay safe for 72 hours in a disaster before help arrives. Make sure you have safe drinking water, food, and any special needs or medications for all family.



There will be extra items to be added to your emergency kit in an emergency like clothes, a phone and charger.



Watch a video on how to get your Emergency kit ready.

youtu.be/XgyLnKDMkNo

4 Reduce impacts to your property

- Keep gutters and drains clear of debris including leaves and any other items.
- Check your building and contents insurance, what kind of flooding does it cover?
- Move your valuable possessions up high.
- Back up important files and documents to a cloud storage or USB kept elsewhere.
- Identify higher ground on or around your property, away from the danger area.
- Consider buying sand and sandbags ahead of time, refer to our Sandbag Guide for more information.

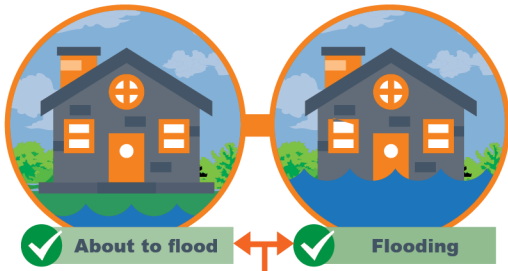



For more details and other tips, visit:
ses.vic.gov.au/flood



What to do in a flood emergency

When to call VICSES



 **Flood emergency assistance call VICSES 132 500**

 **If life threatening call triple zero 000**

Stay Informed

VicEmergency

Emergency warnings will provide information on what is happening and advice of what you should do.

You may not receive an official warning before a flood.



VicEmergency app
emergency.vic.gov.au
1800 226 226



vicemergency @vicemergency



- Set-up a watch zone for alerts for your area.

Bureau of Meteorology



Monitor rainfall, river levels, weather forecasts/warnings.
bom.gov.au/vic/flood/north_central.shtml

Emergency broadcasters



Radio | ABC 91.1FM, Triple M 93.5FM, Gold 98.3FM
TV | Sky News

If you expect floodwater at your property



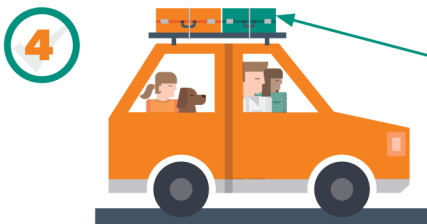
1 Bag it
Sandbag doorways and low-lying windows to slow floodwater entering your home.



2 Block it
Block toilets, bath and drains using a sandbag ideally placed inside a plastic rubbish bag.



3 Lift it
Put your valuables and electrical items as high as possible. Turn off power, gas, and water at the mains.



4 Leave
■ Leave **before** the flood arrives.
■ Check warnings from VicEmergency for information like evacuation or relief centres, and road closures.
■ Travel to the home of family or friends who are in a safe location, away from the flooded area.

Take your emergency kit and add the items below:



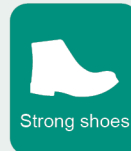
Phone & charger



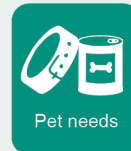
Prescriptions & medication



Clothes for your family



Strong shoes



Pet needs

Never drive through floodwater

Large



A Large 4WD can be moved by water only 45cm deep.

Small



A small car can be moved by water only 15cm deep.



For more details and other tips, visit:
ses.vic.gov.au/flood

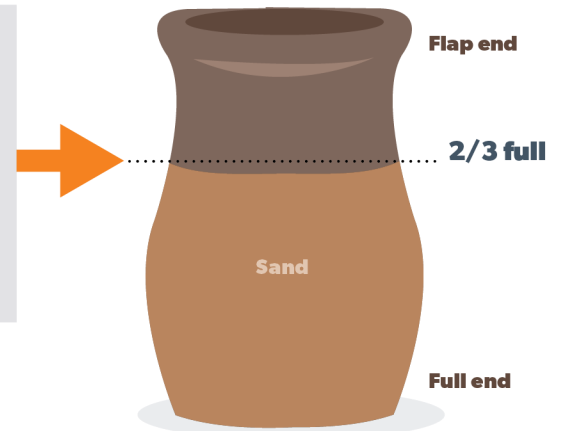


Sandbagging

Sandbags won't stop the water completely, but can reduce the amount of water entering your home.

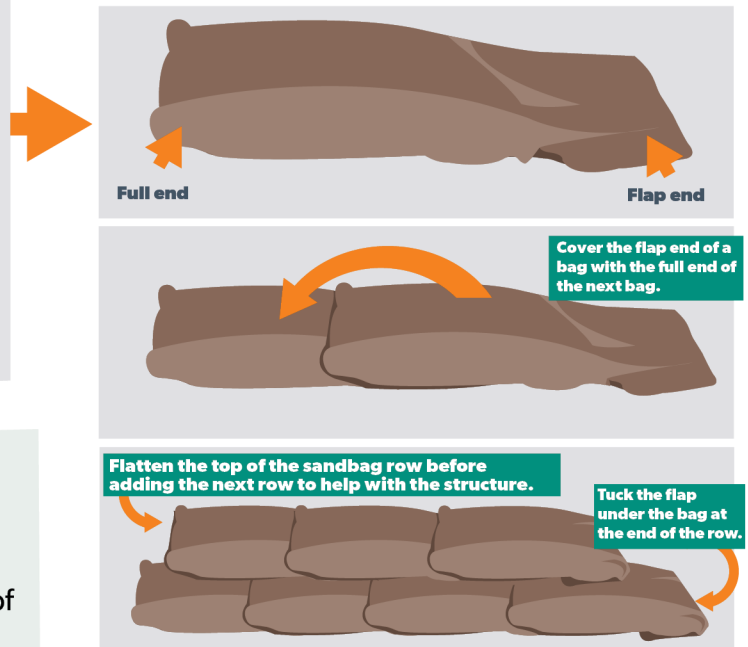
How do I fill a sandbag?

- Only use sand to fill hessian bags. Do not use dirt.
- Only fill sandbag two-thirds full.
- Do not over fill the sandbag as it will be too heavy to carry.
- Do not tie the top of the sandbag.
- Take care when filling and lifting the sandbag, to avoid injury.



How do I lay sandbags?

- Lay sandbags like brickwork. Stagger rows so that the joins do not line up.
- Start at one end and work to the other end.
- Ensure the unfilled part of the bag is covered by the next bag.
- Tuck flap under the bag at the end of the row.
- If the sandbag wall is going to be more than five (5) bags high, you will need to lay two (2) rows wide.

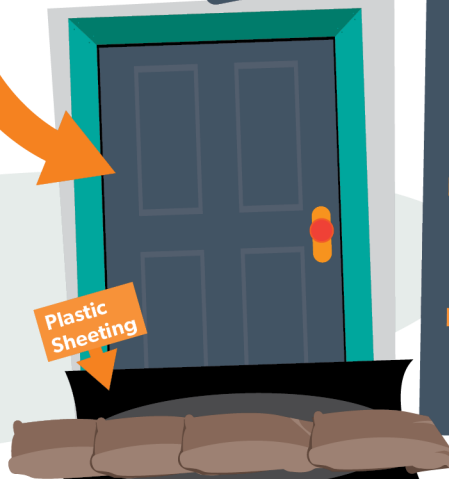


Where do I place the sandbags?

- Place sandbags in plastic bags to cover drainage holes in home (e.g. showers, toilets, sinks) to stop back flow of water.
- Place a small wall across doorways, at least the height of the expected water level. Be careful not to trap yourself inside.
- If available, plastic sheeting may be used under sandbags to reduce the seepage.

Block it

Toilets, bath and all drain holes



What do I do once I have finished with the sandbags?

- Sturdy gloves should be worn when handling wet sandbags as they can contain chemicals, waste and diseases.
- Sandbags that have been in contact with floodwater need to be thrown away.
- Contact your local council to find out how to dispose of your sandbags safely.



Sandbags and sand

Preparing your home

Having sandbag supplies ready can assist you before a flooding emergency occurs.

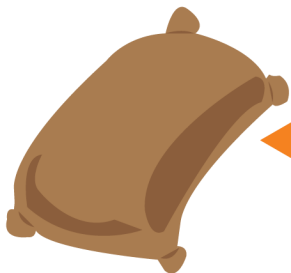


What supplies do I need to sandbag my home?

- Sandbags
- Sand
- Plastic sheeting
- Gloves and safety goggles
- Shovel and hand scoop

Where can I purchase these supplies?

- Many sandbag supplies can be purchased from hardware stores or garden centres.
- VICSES do not routinely supply sandbags to households.
- During floods, sandbag distribution points may be established in flood-affected areas.

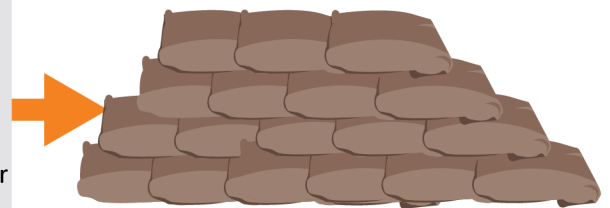


How many sandbags will I need and how much sand?

- Most homes can be protected by less than 25 sandbags.
- The number of sandbags will depend on your local flood risk and availability.
- Sandbags are filled 2/3 full which requires around 15-20kgs of sand per bag.

How do I store my sand and sandbags?

- Filled sandbags only have a short shelf life.
- It is recommended to store sandbags empty.
- Sandbags should be stored in a cool dry area away from UV light.
- Sand should be kept dry and can be stored in water resistant containers or under a tarp.
- Sand is heavy - ensure it is stored so it can be moved safely.



When should I sandbag my home?

- **You** are best placed to decide if there is a need to sandbag your home, based on local knowledge and past flood events.
- Monitor your local conditions. Stay up-to-date with weather forecasts and warnings by downloading the **BOM Weather** and **VicEmergency** apps, or call the VicEmergency Hotline on 1800 226 226.
- If you think you are at risk, do not wait for an official warning to act.