



# Local Flood Guide

## *Lakes Entrance*

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

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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.

**Cover:** Marine Parade, Lakes Entrance. *Victoria State Emergency Service. 2007.*

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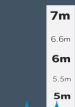
For more information visit: [ses.vic.gov.au/plan-and-stay-safe](https://ses.vic.gov.au/plan-and-stay-safe)



## Local flood information



The Gippsland Lakes have a history of flooding, including in Lakes Entrance.



In June 2007, 300mm of rainfall in the Gippsland Lakes resulted in lake levels rising 1.3 metres above normal levels.



Flooding typically occurs one to three days after the rivers have experienced flooding with peaks slow to rise and recede.

## Why does Lakes Entrance flood?

Lakes Entrance is at risk of both **riverine flooding** and **flash flooding**, which can happen separately or at the same time. Both are usually caused by heavy rainfall.

### Riverine flooding

This happens when the Gippsland Lakes including Cunninghame Arm Inlet and North Arm rise and spills water onto land. The most common cause is **prolonged** heavy rainfall.

- The Latrobe, Macalister, Avon, Mitchell, Nicholson and Tambo Rivers all flow into the Gippsland Lakes. Flooding of these rivers can in turn cause flooding of Gippsland Lakes which will impact Lakes Entrance.
- Low-lying coastal areas in Lakes Entrance may flood due to storm surges caused by strong winds and low pressure during storms, resulting in an abnormal rise in sea level.
- Abnormally high tides are a natural and predictable exceptionally high tide where the ocean meets the land. They may cause or add to existing flooding.

### Flash flooding

This type of flooding can happen quickly and you may not receive an official warning. Although these floods only last short time, they can cause severe damage.

- 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. More buildings and less green spaces can impact this.

## How do floods impact communities?



Buildings



Road



Drinking water supply and



Power outages



Mobile and internet network



Sewage overflows

## Check your home, work, and travel routes for floodwater

If this map shows potential flood risk for you, ensure you take action to **plan and prepare for floods**. See [page 7](#) for more information.

- This map shows the area likely to flood in a major flood event that would measure at least 1.8 metres high at the Bullock Island (Lakes Entrance) gauge.
- 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.



Floodwater can be very deep, rise quickly and move fast.

**Stay safe by avoiding flooded areas.**



## What might happen in a flood in your area?

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

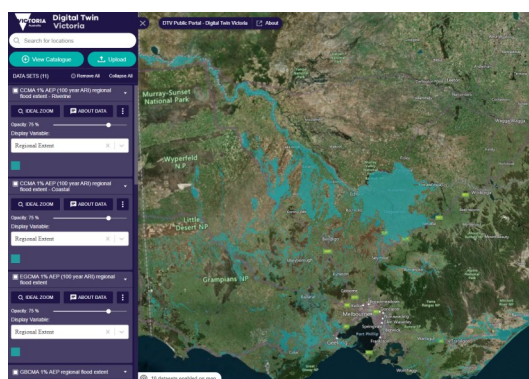
- **Before a flood:** Use the floodwater heights in the table to help you decide when you will need to act to protect yourself and your property in a flood event.
- **During a flood:** When a warning is issued by [VicEmergency](#), use the predicted floodwater height and warning information to understand what the potential impacts may be for you and your community.

Floodwater Height (metres)*	Potential impacts and previous flood events^
1.80m	<p>1% AEP Height, see <a href="#">page 4</a>. 1952 flood height.</p> <ul style="list-style-type: none"> <li>• Areas of the Princes Highway, Golf Links Road, Roadknight Street, Palmers Road and Bullock Island Road are affected by flood water.</li> <li>• Flooding in areas below expands further and increases in depth, affecting most of the Lakes Entrance Peninsula and Eastern Beach area.</li> </ul>
1.40m	<ul style="list-style-type: none"> <li>• Most areas on the Lakes Entrance Peninsula and the Eastern Beach area are affected by flood water, affecting up to 400 homes and isolating 250 properties.</li> </ul>
<b>1.30m</b>	<b>Major flood level</b>
	<p>2007 and 1998 flood event level.</p> <ul style="list-style-type: none"> <li>• Flooding in the areas below expands further and increases in depth potentially isolating properties and affecting businesses and travel through Lakes Entrance.</li> <li>• Low lying areas of Carpenter Street, Short Street, Jetty Road, Middle Street, Long Street, Fish Street and Marrungbaur Street may be affected by flood.</li> </ul>
1.10m	<ul style="list-style-type: none"> <li>• Several areas of The Esplanade and Marine Parade and most of Laura Street, Carstairs Street, Box Street, Gray Street, Rowe Street, Bulmer Street and Stock Street may be affected by flood water.</li> <li>• Marine Parade Reserve Playground, Lions Park at Eastern Beach Road, Lakes Entrance Skate Park and Woolworths Carpark may be affected by flood water.</li> </ul>
<b>0.90m</b>	<b>Minor flood level</b>
	<ul style="list-style-type: none"> <li>• Marine Parade, The Esplanade, Laura Street, Carstairs Avenue, Gray Street, Mechanics Street, Staunton Street and Devitt Street may have localised areas of flooding at storm water drains.</li> </ul>
0.70m	<ul style="list-style-type: none"> <li>• Low lying areas including boat ramps, jetties, car parks, walking tracks and parks near water can experience flooding.</li> <li>• Boat mooring lines may need to be extended.</li> </ul>

\*The height measurement is at the [Bullock Island \(Lakes Entrance\)](#) gauge.

^This table includes information from previous flood events and flood studies, which are scientific models used to predict impacts at different flood heights and flows.

## View the interactive flood map on Digital Twin Victoria (DTV)



The [Digital Twin Victoria Public Portal](#) brings together 2D, 3D and live data in a single online place for everyone to use. The portal hosts some flood mapping data.

- Use the map to zoom in on where you live, work and travel to see if it's likely to be affected in a flood event.

Go to [digitaltwin.vic.gov.au](https://digitaltwin.vic.gov.au)



In a flood emergency, stay informed through [VicEmergency](#), see [page 7](#) for more information.

## Your local services

### Catchment Management Authority

For flood advice and information on flood levels or depths when developing your property.

- **East Gippsland Catchment Management Authority**  
[egcma.com.au](https://egcma.com.au) | 03 5152 1184

### Local Council

For relief and recovery support after a flood event.

- **East Gippsland Shire Council**  
[eastgippsland.vic.gov.au](https://eastgippsland.vic.gov.au)  
03 5153 9500

## East Gippsland Emergency Dashboard

East Gippsland Shire Council's Emergency Dashboard provides community with centralised real-time access to emergency information including weather, emergency warnings, road closures, river heights and power outages.

To support community preparedness the East Gippsland Emergency Dashboard provides access to:

- Local Flood Guides, via the Victoria State Emergency Service website, and
- Community Emergency Management Plans and Local Incident Management Plans on the 'Your Community' page.

Go to [emergencydashboard.eastgippsland.vic.gov.au](https://emergencydashboard.eastgippsland.vic.gov.au)



**Stay safe by never driving through floodwater.** It can take just 15cm of flowing water to float a car, that's the height of an average pen.



# 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](https://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](https://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](https://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.

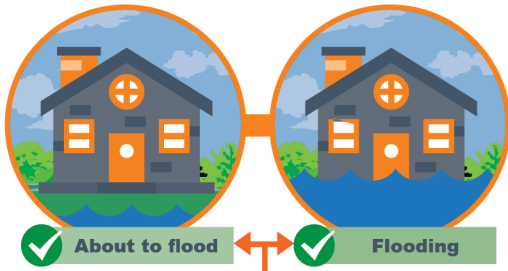


For more details and other tips, visit:  
[ses.vic.gov.au/flood](https://ses.vic.gov.au/flood)



# 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](https://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/east\\_gippsland.shtml](https://bom.gov.au/vic/flood/east_gippsland.shtml)

### Emergency broadcasters



**Radio** | ABC Local 594 AM, 774 AM and 100.7 FM

**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.

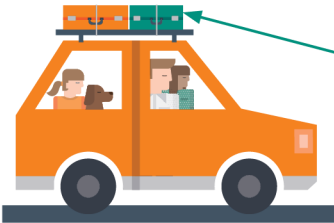
3



### 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](https://ses.vic.gov.au/flood)



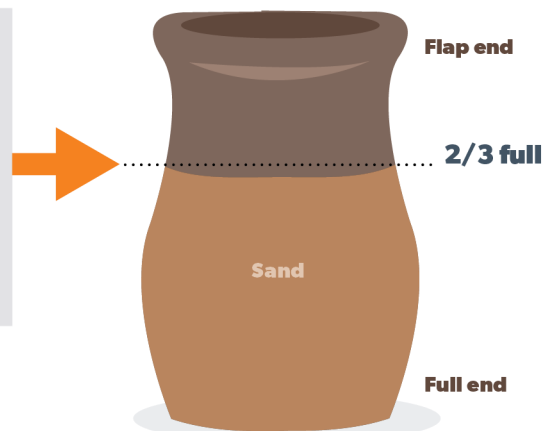


# Sandbagging

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

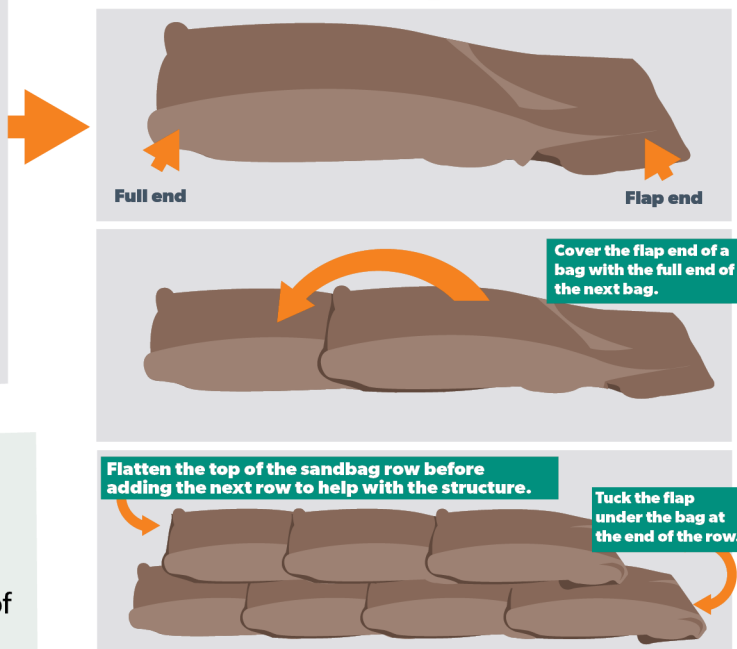
## How do I fill a sandbag?

- 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.

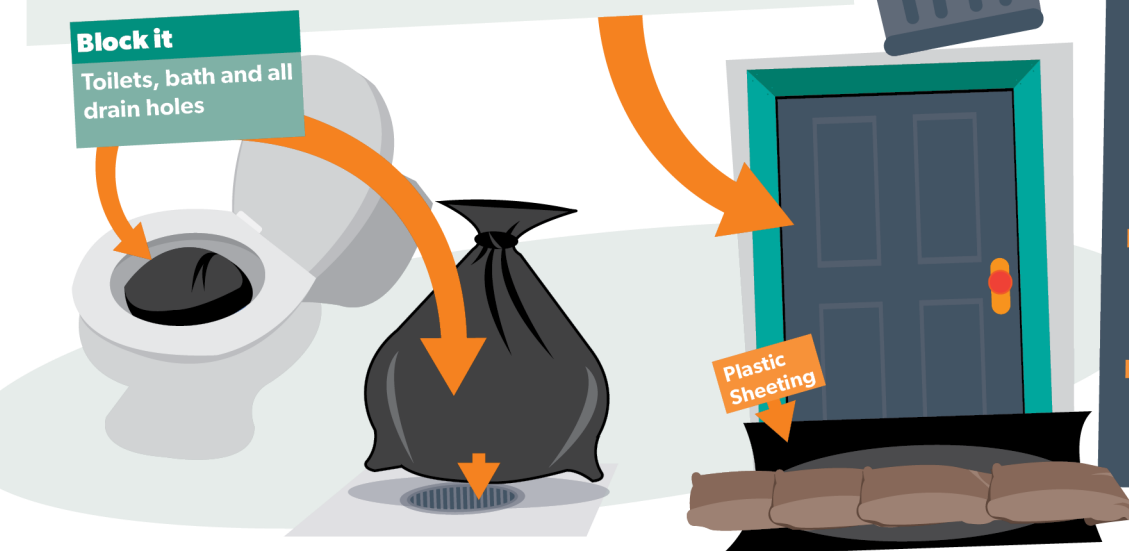


## Where do I place the sandbags?

- 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.

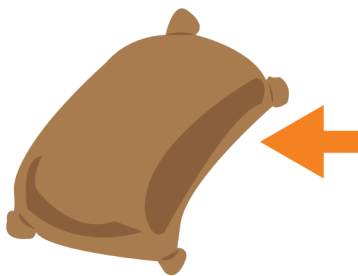


### *What supplies do I need to sandbag my home?*

- 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.

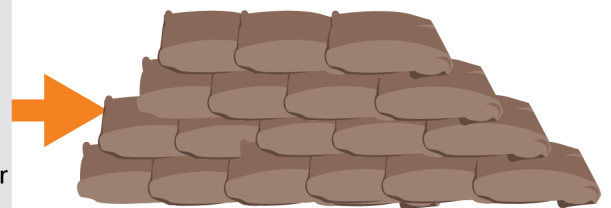


### *How many sandbags will I need and how much sand?*

- 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.