



Local Flood Guide

Pakenham

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.

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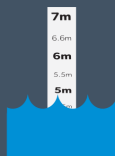


For more information visit: ses.vic.gov.au/plan-and-stay-safe

Local flood information



Pakenham has been impacted by flash flooding annually over the last ten years.



On the 5th of February 2011 a 1 in 100-year event (1% AEP) occurred at Pakenham and surrounding areas.



Flooding in Pakenham can last several days because the floodwater moves slowly over the flat and gently rolling land.

Why does Pakenham flood?

Pakenham 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 waterways surrounding Pakenham overflow their banks, spilling water onto land. The most common cause is **prolonged** heavy rainfall.

- Pakenham Creek which runs through the town centre, typically floods first.
- Prolonged rainfall can also lead to overflowing at Toomuc Creek (west of town), Deep Creek (east of town) and Kennedy Creek (runs through centre of town).

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.



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 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 significant flood event that is referred to as a 1% Annual Exceedance Probability (AEP) flood. This means there is a 1% chance of this size flood (or greater) happening in any year.



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 during a flood.



Minor impacts

- Water coming up through drains in nearby streets.
- Cover minor paths, tracks, and low level bridges.
- Some back yards impacted and buildings impacted below floor level.



Moderate impacts

- Toomuc Valley CFA Station and Pakenham Railway Station's northern platform may be impacted.
- Water spilling over river banks and covering larger 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.



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.
- Require many evacuations.
- Impact to utility services (water, power, sewerage).

Previous flood impacts

Pakenham has been impacted by flash flooding every year for the last ten years. Understanding the impacts of past floods can help you anticipate impacts of future flood events.

February 2011 Flood

- This flood exceeded the size of a 1% AEP flood, as shown on the map on [page 4](#).
- Flood water reached 2.19m at [Pakenham West Gauge](#) at Toomuc Creek (1% AEP: 2.11 metres) and 1.85 metres at [Pakenham Gauge](#) at Kennedy Creek (1% AEP: 1.78 metres).

January 2020 Flood

- Flash flooding event in Pakenham.
- VICSES received 32 requests for assistance in one day due to the impacts of the flood.

What roads are likely to flood?

During a significant 1% AEP flood, as shown on the map on [page 4](#), the roads listed below may become flooded and could be closed.

For current road closures, check [VicTraffic](#). [VicEmergency](#) may include road closures in its warnings, see [page 8](#) for more information.

- | | | |
|---------------------|--|---------------------------|
| ■ Arlington Avenue | ■ Dunbarton Drive | ■ Pommel Street |
| ■ Ascot Court | ■ Duncan Drive | ■ Purton Road |
| ■ Barrington Drive | ■ Hein Road | ■ Railway Avenue |
| ■ Belvedere Drive | ■ Henry Road | ■ Ryan Road at Canty Lane |
| ■ Blue Horizons Way | ■ Holt Place | ■ Sandalwood Drive |
| ■ Brown Road | ■ Isaac Court | ■ Simon Drive |
| ■ Caitlin Drive | ■ James Street | ■ Slattery Place |
| ■ Cameron Way | ■ Jason Lane | ■ Snodgrass Street |
| ■ Canty Lane | ■ John Street | ■ Templeton Crescent |
| ■ Charles Street | ■ King Street | ■ The Avenue |
| ■ Cyprus Place | ■ Leppitt Road | ■ Toomuc Valley Road |
| ■ Deed Drive | ■ Loz Court | ■ Wakenshaw Crescent |
| ■ Deep Creek Road | ■ Mulcahy Road | |
| ■ Delphinium Road | ■ Pakenham Road (at Pakenham Creek Bridge) | |

Additional lane closures may occur at the locations listed below.

- Princes Highway Eastbound Lane at Deep Creek crossing, Pakenham.
- Princes Highway Eastbound Lane between Deveney Street and The Avenue, Pakenham.

If the Princes Freeway or Princes Highway is closed, you may still be able to travel via Pakenham Road or Army Road.



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

Your local services

Catchment Management Authority

For general advice about flooding and controls on planning scheme amendments.

- **Melbourne Water**
melbournewater.com.au | 13 17 22

Local Council

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

- **Cardinia Shire Council**
cardinia.vic.gov.au | 1300 787 624

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.

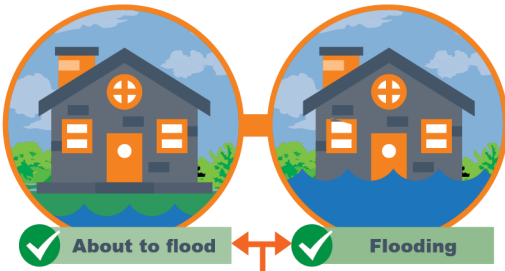


For more details and other tips, visit:
ses.vic.gov.au/flood



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/port_phillip.shtml

Emergency broadcasters



Radio | ABC 774 AM

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.

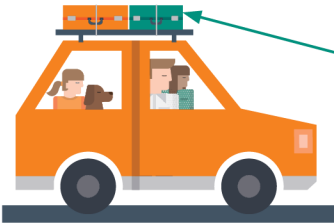
3



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:



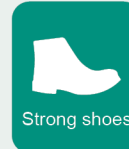
Phone & charger



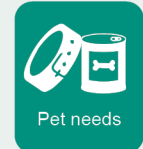
Prescriptions & medication



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

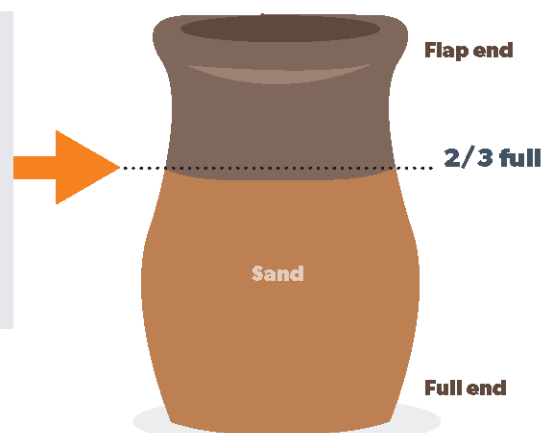
Sandbagging

Protecting your home

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?

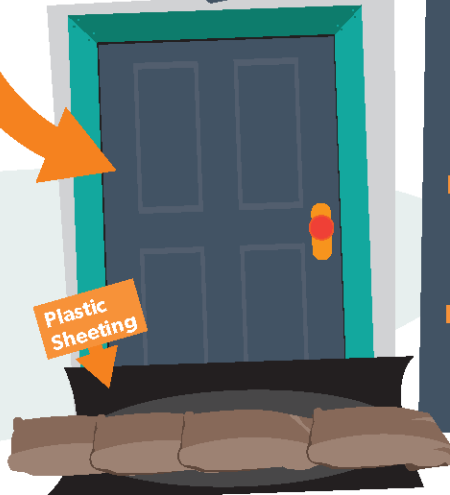
- Place sandbags in plastic bags to cover drainage holes in home (e.g. showers, toilets, sinks) to stop back flow of water.
- Place a small wall across doorways, at least the height of the expected water level. Be careful not to trap yourself inside.
- If available, plastic sheeting may be used under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

Block it

Toilets, bath and all drain holes



Plastic Sheeting



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 or hand scoop

Where can I purchase these supplies?

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

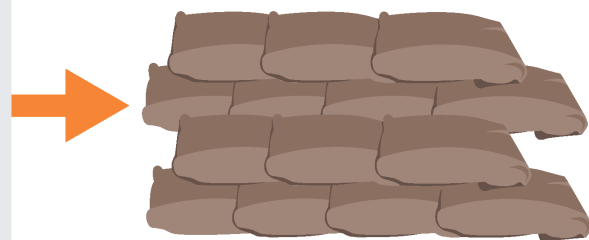


How many sandbags will I need and how much sand?

- 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.

