

MAYOR OF LONDON

Climate Adaptation

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CLIMATE CHANGE



Mitigation

Reduce or prevent emission of greenhouse gases

Net Zero by 2030



Adaptation

Taking action to prepare for and adjust to both the current effects of climate change the predicted impacts in the future.

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Why Adapt?

2000 – flooding

2001 – flooding

2003 – heatwave

2005 – flooding

2006 – drought

2006 – heatwave

2007 – flooding

2008 – flooding

2008 – snow and ice

2009 – snow and ice

2009 – flooding

2010 – flooding

2010 – snow and ice

2011 – warm spring

2011 – warm autumn

2012 – drought

2012 – wet summer

2013 – snow and ice

2013 – heatwave

2014 – flooding

2015 – flooding

2015 – heatwave

2016 – heatwave

2017 – heatwave

2018 – snow and ice

2018 – heatwave

2019 – record heat

2019 – drought

2020 – heatwave

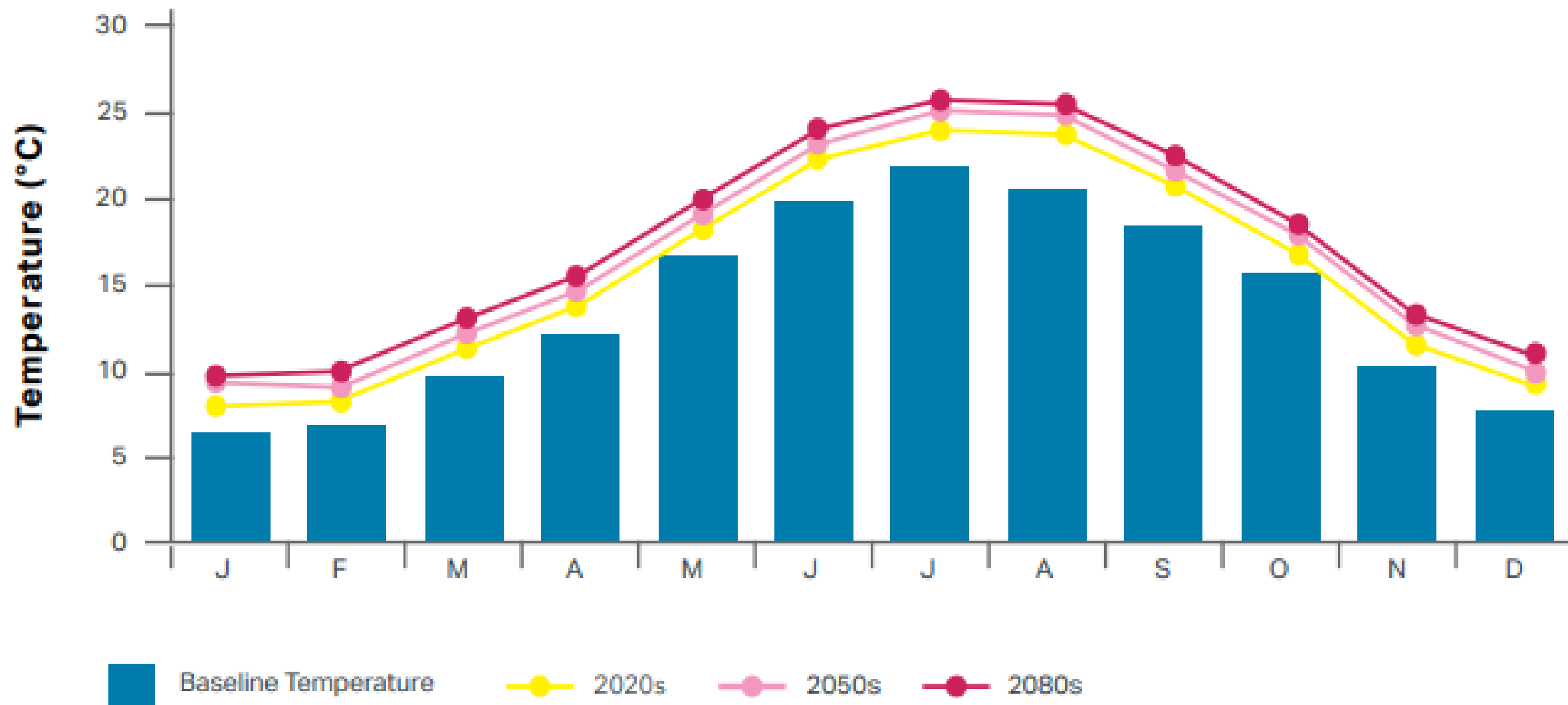
2020 – flooding

2021 – flooding

2021 – heatwave

2022 - heatwave



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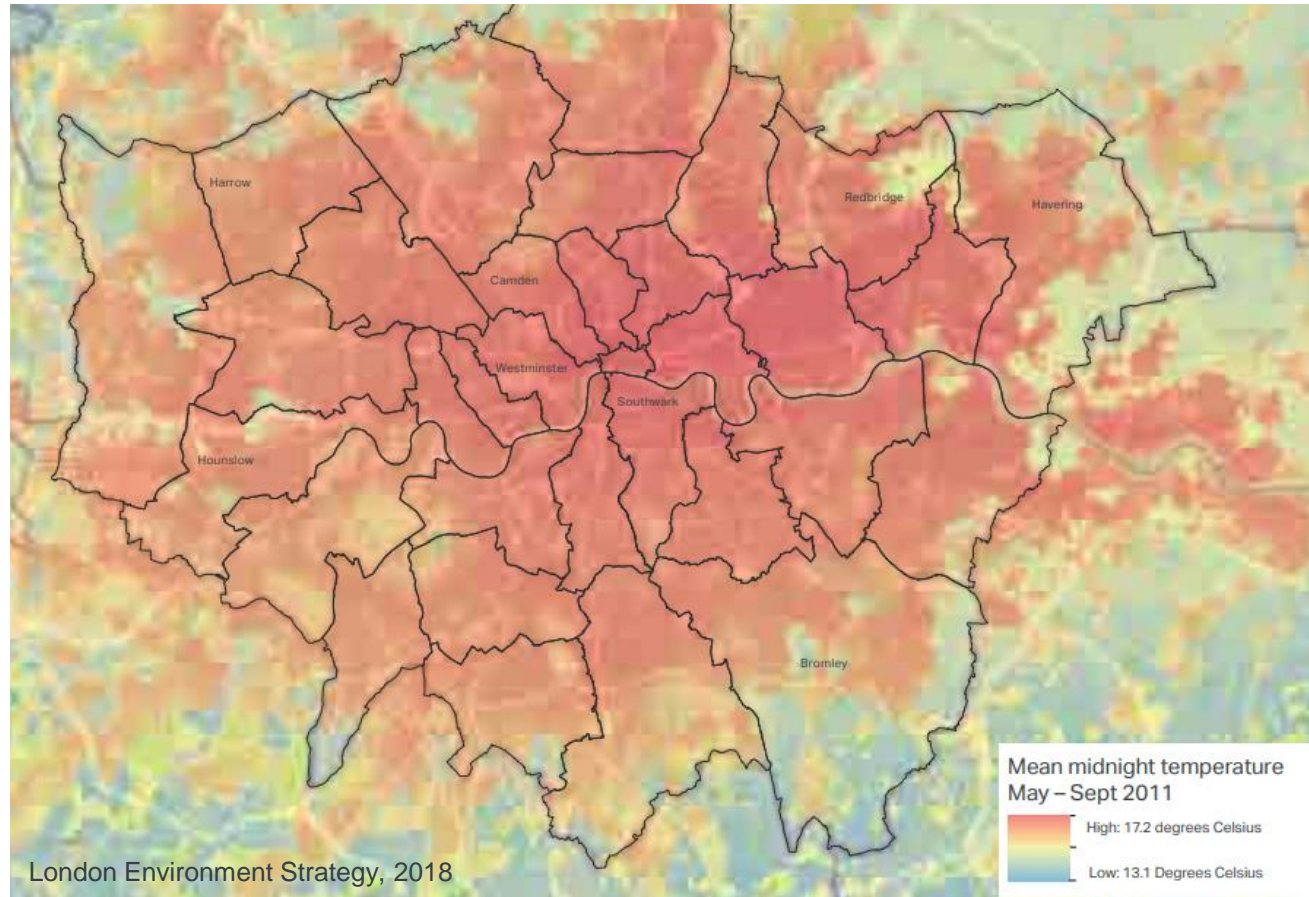
PROPERTIES IN LONDON AT RISK OF SURFACE WATER FLOODING



Source: Local Resident

	
Residential Properties	Commercial Properties
High (1 in 30 year event) 68,499	High (1 in 30 year event) 12,148
Medium (1 in 100 year event)) 164,546	Medium (1 in 100 year event)) 25,623
Source: GLA modelling based on: The GeoInformation Group (2016), UKMap; and Environment Agency (2017), Risk of Flooding from Surface Water.	

HOT WEATHER AND IMPACTS IN LONDON



Heat already impacts services and people

Buildings

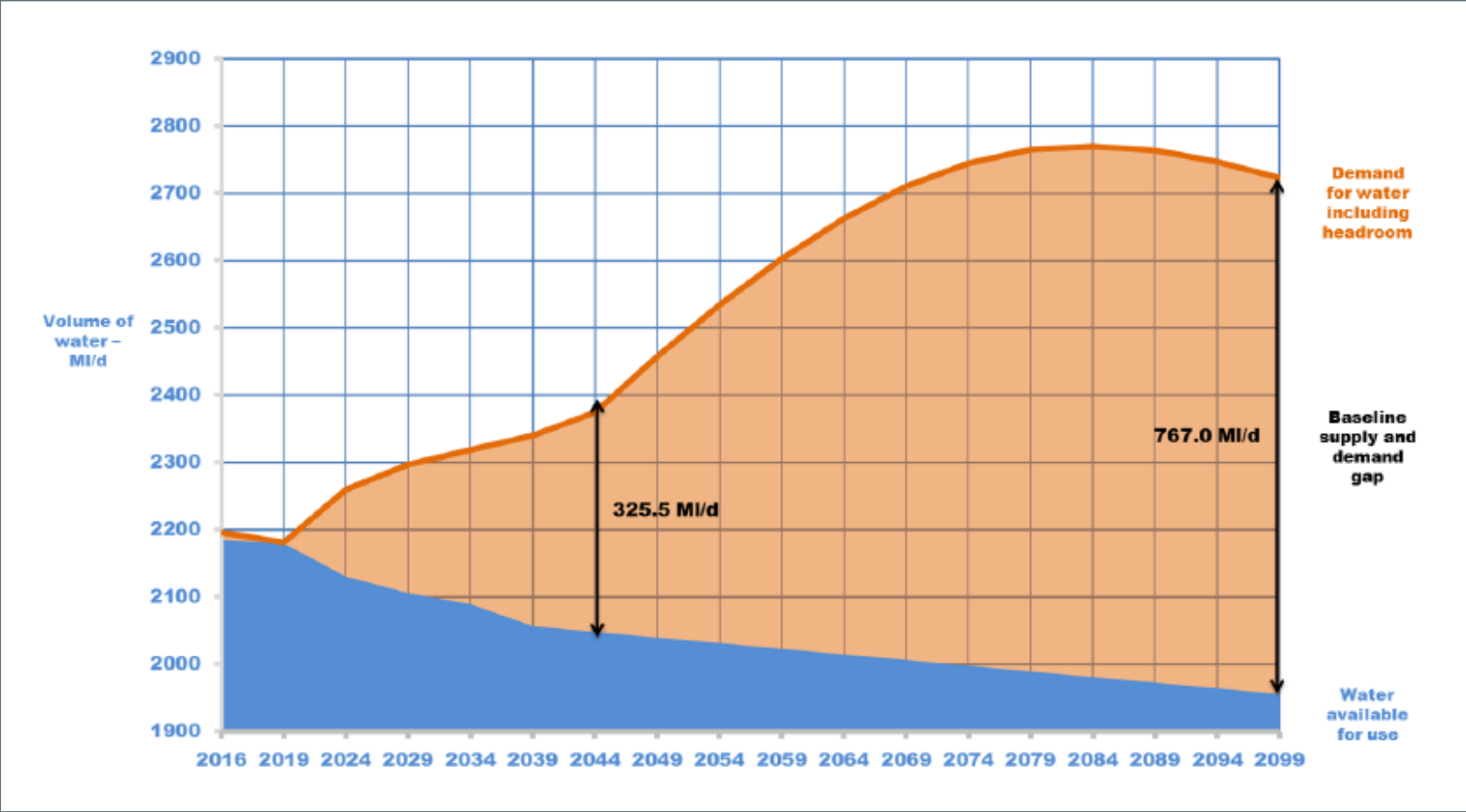
Urban Heat Island

Impacts not equal or fair

Projected 5-6° increase in summer and winter average temperatures by 2050

WATER DEFICIT PROJECTIONS

(MI/d) 2016-2100 under dry year annual average – Thames Water



London Environment Strategy, 2018

WHO IS AT RISK?

Heatwaves and Floods

UK Health Security Agency

An illustration of a person in a red wheelchair positioned next to a blue house with a yellow cross on its side. The background is a solid orange color.

Residents in care homes are particularly vulnerable in hot weather.

Know how to keep your residents and the environment cool.

UK Health Security Agency

An illustration featuring a red figure of an older person holding a white baby, and a blue figure of a young child holding a cane. The background is a solid light blue color.

Older people, people with long term conditions and young children

may need help keeping cool.

Many of us enjoy the hot weather but remember to look out for others.

UK Health Security Agency

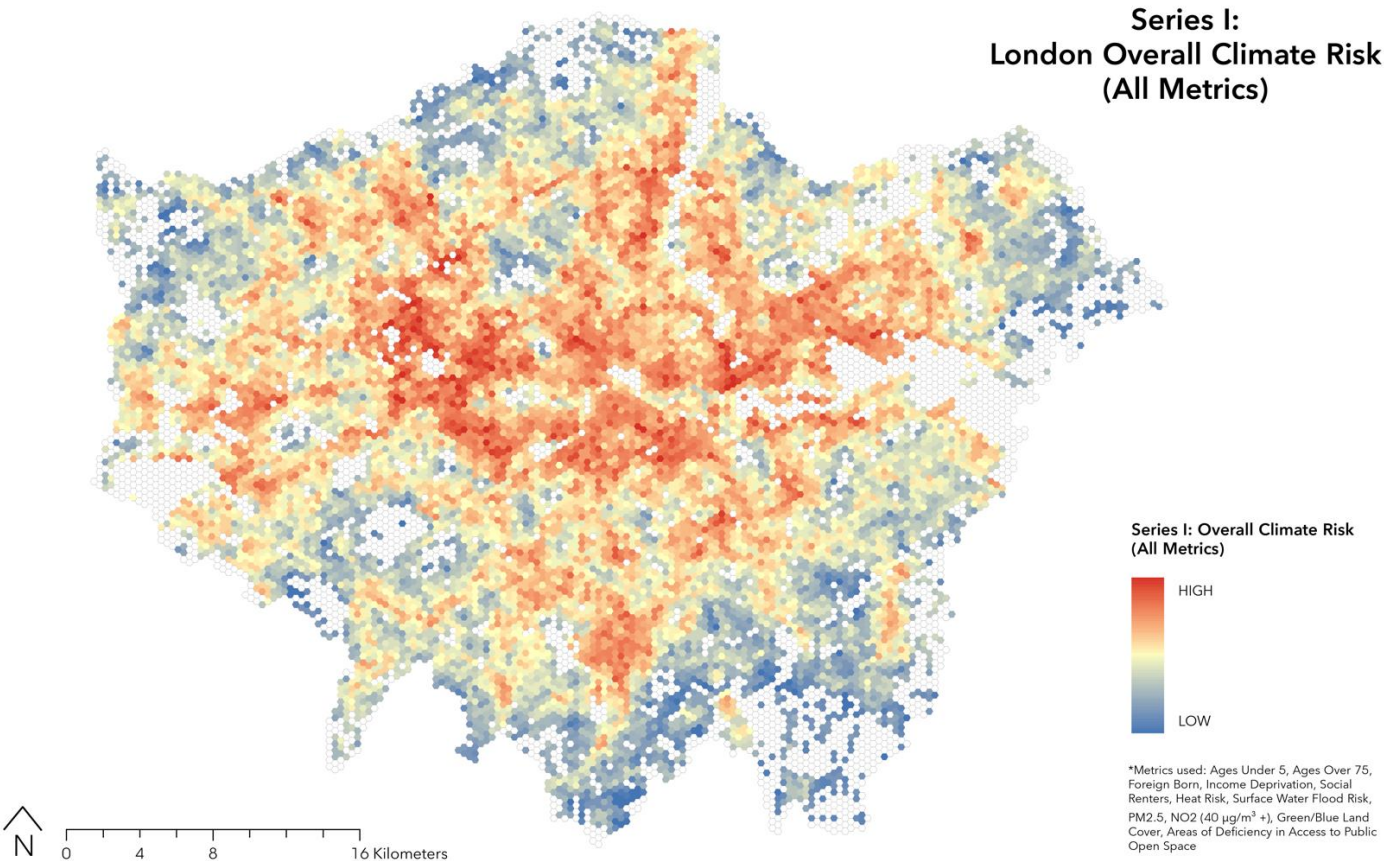
Infants and young children can be vulnerable during hot weather

Keep them cool and protect them from the sun if you're out and about.

An illustration of two white figures of children holding hands, standing next to a large orange sun. The background is a solid orange color.

LONDON'S INEQUALITY / SOCIAL VULNERABILITY TO CLIMATE CHANGE

data.london.gov.uk/dataset/climate-risk-mapping



WHAT IS THE MAYOR DOING TO TACKLE OVERHEATING?



Refill station

- **London plan**
 - Overheating models so buildings are resilient to extreme heat.
 - Cooling hierarchy to encourage passive cooling measures
- **Overheating audits in care homes** – simple measures to prepare for heat events
- **Guidance for Schools** on climate adaptation
- **Cool spaces** initiative map
- **Water refill** stations
- **Working with TfL** to tackle heat on the underground and bus network

WHAT IS THE MAYOR DOING TO TACKLE FLASH FLOODING

- London Sustainable Drainage Action Plan (LSDAP)
- Working with partners including water companies and boroughs
- Grow Back Greener and other funds for greening and climate adaptation
- Green New Deal programmes
- Climate Resilient Schools
- Surface Water flooding roundtables



Planting Day at Lost Effra SuDS

WATER SCARCITY

- Working with water companies to invest more in ageing infrastructure.
- London Resilience Drought Framework
- London Environment Strategy



HOW CAN WE ENGAGE WITH YOU?

Flooding and Heatwaves



www.london.gov.uk/what-we-do/environment/climate-change/climate-adaptation/cool-spaces



CLIMATE KICK-START 2022

- Four regional green careers events will be facilitated in November
- A digital 'green careers' toolkit
- Mayoral prizegiving event - £10,000
- www.london.gov.uk/climate-kick-start



BASEMENT FLOODING LEAFLET

This leaflet is designed to help you prepare for flash floods, which we expect to happen more frequently in our city. Be prepared – it could help to save lives.

Safety message from the Mayor of London:

"Serious flooding in London last year proved that the climate crisis was no longer a distant problem, but one increasingly on our doorsteps. We must all take action now to help build a greener city that is more resilient to the devastating impacts of climate change."



Sadiq Khan
Mayor of London

Flash flooding happens when heavy rain falls on hard surfaces overwhelming drainage and sewers. Flash floods are difficult to predict and often happen quickly with fast flowing water. They are more likely to happen during intense summer storms. The likelihood of flooding remains low for most basements, but where it happens, damage and risk to life can be serious.

WHAT YOU NEED TO DO TODAY TO BE PREPARED:

- Sign up to weather warnings: [metoffice.gov.uk](https://www.metoffice.gov.uk)
- Put your valuables on a high shelf to protect them from water damage.
- Make sure you know how to turn off your water, gas and electricity supply.
- Check your household building or contents insurance covers flooding. If you don't have any, FloodRe may be able to help: [floodre.co.uk](https://www.floodre.co.uk)
- Save phone numbers e.g. your insurance company, landlord, housing association and local council in your phone.
- Check drains outside your home and on your street are clear. Report street drainage issues to your council by phone, their website or at [fixmystreet.com](https://www.fixmystreet.com) or [lovecleanstreets.info](https://www.lovecleanstreets.info)
- Prepare a flood kit.

Your flood kit should contain items you must have if you need to leave your home. Things like:



Medicine and prescriptions



Warm / Waterproof clothing



Phone charger



ID / Passport and insurance policies



Torch

BEFORE IT FLOODS, YOU SHOULD:

PREPARE:

Check Met Office warnings and listen to local news if storms are forecast. Make sure your flood kit is ready just in case.

IF IT FLOODS, YOU SHOULD:

ACT:

If water starts to enter your home, move yourself, your family and pets away from danger. Turn off electricity, gas and water if safe to do so. Avoid flood water if possible as it may contain chemicals and waste. Don't drive through flood waters, as it's dangerous.

SURVIVE:

Call 999 if there is a threat to life. Emergency services can help if you need to evacuate your home.

LEND A HAND:

Check on vulnerable neighbours if you can.

WHO TO CALL DURING A FLOOD:

- For emergencies such as serious illness, injury and risk to life, call **999**: fire, ambulance and police services
- If your toilet, sink or bath is flooding, call Thames Water: **0800 316 9800**
- Inform your council of flooding coming from outside your property e.g. from the road or pavement– visit [gov.uk/find-local-council](https://www.gov.uk/find-local-council) to locate your council. Then, find contact information for the right team by searching for 'flood' or 'flooding' through the council website.

USEFUL CONTACTS

- For general advice, call the Environment Agency's 24-hour floodline: **0345 988 1188**
- The National Flood Forum has a helpline that provides general support before, during and after a flood on issues including insurance, home re-instatement and home resilience. Contact the National Flood Forum charity: **01299 403 055** [nationalfloodforum.org.uk](https://www.nationalfloodforum.org.uk)
- To find an insurer, try FloodRe: [floodre.co.uk](https://www.floodre.co.uk)
- If you are a renter inform your landlord/housing association if your home has flooded and needs repairs.

For more advice, visit: [London.gov.uk/flash-flooding](https://www.london.gov.uk/flash-flooding)



LONDON RESILIENCE

NEXT STEPS

Working together



SHARING
RESOURCES



WORKSHOPS

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Thanks for listening

Questions?

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