

Research into Flood Warnings

This is a survey that aims to explore how people understand and react to flood warnings, to help us prepare before flooding events happen. We hope that you will be able to fill it in.

Glasgow, 2010





Introduction

The Macaulay Land Use Research Institute (<u>www.macaulay.ac.uk</u>) has been commissioned by the Scottish Government to do research that will improve flood risk planning and responses to flood warnings. Our work in Scotland is part of a larger European research project called 'URFlood' aimed at providing guidance on good practice in flood communications. As part of this project, we will be handing out questionnaires across Scotland, some in areas which have been affected by flooding, and some in areas that have not been directly affected.

The aim of this questionnaire is to find out and characterise where and how warnings about floods are received and used. This questionnaire is not only for people who have been flooded: we are interested in <u>everybody's views</u>. It should take about 10-15 minutes to fill in, or longer if you wish to provide us with comments.

Please return the questionnaire to us by popping it into the enclosed FREEPOST envelope (no stamp is necessary).

If you would like to know any more, or have any questions, please contact Andrew Cuthbert on 01224 395139, or e-mail Andrew at ac.uhbert@macaulay.ac.uh.

We will distribute a summary of our findings in October. The provision of your personal details is entirely optional, but allows us to keep you informed about the research (it would not be used for any other purpose). Any information you provide will be anonymised and the data will be held at the Institute in accordance with current data protection guidelines. The summary findings will also be relayed to the Scottish Government and the agencies involved in flood communication systems, to inform them as they consider how best to communicate about flood events.

Thank you for your help, we really appreciate your time.

*If you are a small business owner please tick here _____ You can also use this questionnaire,

just fill it in for your business property rather than your home

and ignore question 2.

1. Questions about your home* and flooding

1) What type of building do you live in?

Bungalow		
Detached		
Semi-det		
Terraced house		
Flat		
Other:		

2) How many people live in your household, including yourself?

Adults	
Children	

3) Is your home:

Owned outright	
Owned with a mortgage	
Part owned	
Rented (council)	
Rented (private)	
Other:	

4) Do you think your home is in a flood risk area?

Yes	
Probably	
No	
Don't know	

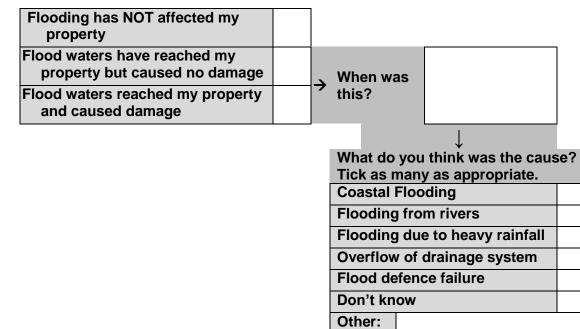
5) When you bought or moved into your home, were you told if it was at risk of flooding?

No		
Don't know		
Yes	\rightarrow	If you tic
		who told
		your hou

u ticked 'yes', told you that house was k?	Seller/ Landlord		
	Estate Agent		
	Surveyor		
	Solicitor		
	Neighbo	ur	
	Other:		

6) Have you been affected by flooding at your current home?

at ris



2. Awareness of flood warnings used locally

		0,
Flood watch	Pood Watch	Flooding possible. Be aware! Be prepared! Watch out!
Flood Warning		Flooding expected, affecting homes, businesses and main roads. Act now!
Severe Flood Warning	Severe Flood Warming	Severe flooding expected, with imminent danger to life and property. Act now!
All Clear	All Clear	Water levels have peaked and receded

In past years, SEPA have had a flood warning system with four levels.

7) Are you familiar with this warning system?

No							
Don't know							
Yes		→	lf 'yes',		÷	Reliability	→
	•		how reliable		Poor	Okay	Good
			do you feel the flooding	Watch M	0	0	0
			predictions are for each stage?	Rood Warning	0	0	0
			stage :	Severe Flood Warning	0	0	0
				Clear All	0	0	0

8) SEPA also has some flooding information on its website, and a flood risk map. Do you know about this, and if so what do you think of it?

I've not heard of it	l've heard of it	l've looked at it		
		\downarrow		
lf you'			informa	tion
V. unhe	elpful 🗧	- Okay →	V. he	lpful
0	0	0	0	0
	heard of it If you'	heard heard of it of it	heard of itheard of itlooked at itIf you've seen it, was the helpful?	heard heard looked of it of it at it If you've seen it, was the informa helpful?

9) "Floodline Warnings Direct" will be SEPA's new warning system from April 2011. This service will send messages free of charge, to registered landlines and mobiles, about flooding in areas covered by SEPA's Flood Warning Schemes. It will guide members of the public to the Floodline recorded telephone service or the website for more detailed information.

	No	Yes
Have you heard of Floodline Warnings Direct?		
Would you register into this new service when it becomes available in this area?		



10) Who would tell you how to find flood warning information (e.g. how would you know where to look)? Please tick as many boxes as appropriate.

From SEPA talks to local community	
Another agency told us about flood warnings	
Neighbours or family told me	
From the media: TV, radio or newspapers	
Other:	
I don't know	

11) If you can remember a flooding event here in Glasgow, were you aware of any warnings of predicted floods?

No, I didn't hear about any warnings beforehand		I can't answer this I do not remembe Glasgow	s question because r any floods in
I don't know if I heard about warnings			
Yes, I heard warnings	\rightarrow		
beforehand		If you ticked 'yes',	SEPA ¹
<u>_</u>	from whom did you hear the warning? You can tick multiple boxes		Radio
			TV
			Newspapers
			Local Authority
			Neighbours
		What is the most	Family
		important source	Police
		of warnings? Please show us by	Fire Brigade
		circling the tick.	Floodline
			Internet
			Don't know
			Other:

¹ SEPA = Scottish Environment Protection Agency

12) In *the last 3 months* have you been aware of any flood awareness information given in your area?

No				
Don't know				
Yes	>	lf yes,	Floodline exhibition trailer	
		where did this	Direct mail via post	
		advice come from?	Visit to your home	
			Advertising in local press	
			Information via community council	
			Other:	

13) In *the last 3 months* did you do any of these things, to learn about flood warning arrangements?

Please tick as many boxes as appropriate.

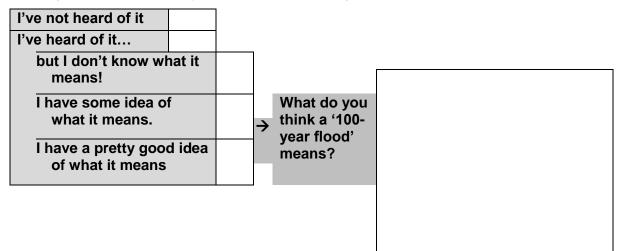
Visited a trailer about flooding			
Read some direct mail			
Received a visit from a floodline representatives			
Read advertising in the local press			
Attended a community council meeting			
Other:			



3. Judging uncertainty and risk

Scientists and meteorologists try hard to predict where floods will happen, and how bad they will be, but unfortunately it is not an exact science: there is usually some uncertainty associated with predictions. This makes the job of communicating the predictions more challenging. To help with this, we would like to know how some ideas to do with uncertainty are generally understood.

14) Floods are sometimes described as 'a 100-year flood' or a '50-year flood'. Have you heard of these phrases, and what do you understand about them?



15) Please indicate whether you agree or disagree with these five statements

		← Agreement→					
	Very Iow	Low	Moderate	High	Very high	Don't know	
I do not understand talk about probabilities	0	0	0	0	0	0	
I understand how risk is assessed	0	0	0	0	0	0	
When communicating warnings it would be good to have more information about the uncertainty associated with the predictions	0	0	0	0	0	0	
We get enough information: any more is simply confusing	0	0	0	0	0	0	
Messages from authorities use too much technical jargon	0	0	0	0	0	0	
A flood magnitude which is likely to be equalled or exceeded on average once in 50 years probably won't occur here in my lifetime.	0	0	0	0	0	Ο	

4. Feelings about flood warnings

When we hear a message, if we are to pay attention to it, it is important that we trust the source, and that we think the message is reliable and relevant to us. We are interested to know your feelings about the sources of information and the reliability of the messages.

16) Warnings about impending floods are likely to come from a public agency or the emergency services.

How trustworthy do you think these organisations are, in general?

		← Trustworthiness of agency→					
	Very low	Low	Moderate	High	Very high		
SEPA	0	0	0	0	0		
Scottish Water	0	0	0	0	0		
Fire service	0	0	0	0	0		
Ambulance & medics	0	0	0	0	0		
Local authority	0	0	0	0	0		
Police	0	0	0	0	0		

If your feelings about trustworthiness changed during a flooding event, please note how. (There is also space for comments on the next page.)

17) You might receive a warning about flooding from these agencies, or passed on via other sources such as the media, or friends and family.

How *reliable* is a message about flooding heard from these sources?

		← Rel	iability of mes	sage→	
	Very low	Low	Moderate	High	Very high
SEPA	0	0	0	0	0
Scottish Water	0	0	0	0	0
Fire service	0	0	0	0	0
Ambulance & medics	0	0	0	0	0
Local authority	0	0	0	0	0
Police	0	0	0	0	0
Friends and family	0	0	0	0	0
Neighbours	0	0	0	0	0
Floodline	0	0	0	0	0
Internet	0	0	0	0	0
TV	0	0	0	0	0
Radio	0	0	0	0	0
Newspapers	0	0	0	0	0
Other:	0	0	0	0	0

18) Sometimes it is important for agencies to listen to the concerns and needs of local people, during a flood event. Do you have any experience of this?

	I tried to talk to		Ignored me	Listened a little	Listened well
SEPA			0	0	0
Scottish Water			0	0	0
Fire service			0	0	0
Ambulance & medics		→ How did they listen?	0	0	0
Local authority			0	0	0
Police			0	0	0
Other:			0	0	0
· · · · ·		\downarrow			

In general, how			
accessible do you think authorities are	Poor	Okay	V good
about floods?	0	0	0

If you have specific examples of how you feel a response could have been improved, during a flood event, then please add your comments in the space below.

5. <u>Responding to warnings about floods</u>

19) If you heard a warning about a flood in this area, who would you tell? Please tick as many boxes as appropriate.

SEPA	Neighbours				
Radio	Family an				
TV	Nobody				
Newspapers	Others:				
Local Authority					

20) Have you received any practical advice, about how to prepare for a flood?

No								
Don't know								
Yes		→	If you ticked	SEPA				
	1		'yes', where	Scotti	ish Wate	er		
			did this advice come from?	Fire s	ervice			
				Ambu	lance &	me	dics	
				Local authority				
				Police	9			
				Famil	y or frie	nds		
				Neigh	bours			
				Don't	know			
				Other	:			
			And was it	No	Some	use	Useful	Don't know
		→	helpful or useful advice?	0	C)	0	0
				Why?)			

21) Do you have any other comments or ideas about the provision of information and advice about actions to take during a flood?

6. Acting to prepare for a flood

This page is concerned with actions you might take after receiving a flood warning.

If have been flooded, please start at the top of this page (Q 22) and ignore Q 23. If you were not flooded, please skip to the last question (Q 23).

22) If you were flooded: did you take any actions to prepare for the coming flood?

No: I didn't know it was		
coming		Please tick all that apply
		There was no time to act
No, I had warning but		I did not know what to do
I didn't do anything	\rightarrow Why?	I was panicked
		Don't know
Yes, I took action		Other:

Move items of sentimental value	Contact friends/ family for advice
Move or protect costly things (e.g. fridge, furniture)	Move myself and others to a safe place e.g. upstairs
Block doorways/ airbricks	Move pets /livestock to a safe place
Put flood-boards or flood-gates in place	Move cars to a safe place
Prepare for loss of power (candles/ torches)	Collect clothing, food, water or medication
Switch off gas/ electricity	Help neighbours
Block toilets	Evacuate property
Watch the water levels	Other:
Listen to TV/radio for more information	
Check the SEPA website or Floodline	

23) If you have not been flooded: what actions do you think you might do *to prepare* for a coming flood, if you received warning of a flood likely to affect your property?

Move items of sentimental value	Contact friends/ family for advice		
Move or protect costly things (e.g. fridge, furniture)	Move myself and others to a safe place e.g. upstairs		
Block doorways/ airbricks	Move pets /livestock to a safe place		
Put flood-boards or flood-gates in place	Move cars to a safe place		
Prepare for loss of power (candles/ torches)	Collect clothing, food, water or medication		
Switch off gas/ electricity	Help neighbours		
Block toilets	Evacuate property		
Watch the water levels	Other:	•	
Listen to TV/radio for more information			
Check the SEPA website or Floodline			

7. Your ideas about how flooding information should be delivered

24) How would you rate the amount of information about floods that is available?

	← Amount of information →		Don't	
	Too little	Fine	Too much	know
Warnings about floods	0	0	0	0
Actions to take	0	0	0	0

25) How would you prefer to receive information about floods?

Please tick as many as necessary.

Please circle the tick for the method you most prefer.

	Flood warnings	Actions to take
Phone call		
Text to Mobile Phone		
Website		
E-mail		
In-person visit		
Radio		
ТV		
Public announcement (e.g. tannoy)		
Other:		

26) Is there additional information that you would like to receive, other comments or ideas about how flooding information should be delivered?

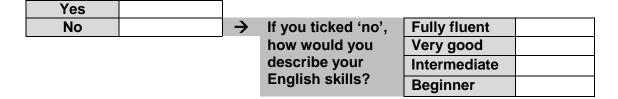
8. <u>Questions about you</u>

27) Are you?		
Male	Female	

28) What is your age?

Years

29) Is English your first language?



30) What best describes your employment status?

Employed full-time	
Employed part-time	
Self-employed	
Unemployed	
Retired	
Homemaker	
Studying / training	
Other:	

31) What is your educational experience?

Primary school	
Secondary school	
Sixth form	
HND or similar	
Bachelors-level degree	
Masters or postgraduate degree	

32) How long have you lived in your current location?

____Years

33) Would you be interested in participating in a small group discussion on flood warning systems in this area?

Yes	
Maybe	
No	

Do you have any additional comments?

34) Optional: personal details Please fill this in if you are interested in participating in a small group discussion, or would like to receive a summary of our research findings.

Name	Title:
	Forename
	Surname:
Address	
	Postcode:
Telephone(s)	
Email	
Preferred contact method / time	

Thank you very much for your answers



Craigiebuckler, Aberdeen AB15 8QH UK

TEL: +44 (0) 1224 395000

FAX: +44 (0) 1224 395010

macaulay.ac.uk

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