

Evidence on the cost of floods in England and Wales.

Questionnaire : Flood impacts on agriculture

Thank you for agreeing to take part in our survey. The questions seek information about the impact of flooding on your farm business. It is part of a larger study of flood impacts for the Environment Agency¹ to help inform decisions about investment in Flood Risk Management. Your answers will be treated in confidence and not attributed to you as an individual person or business, and will be used only for the purpose of this enquiry. Using this pdf version, please print out the questionnaire in order to complete it by hand. Please could you send this back to me in second class post, or alternatively send it as a digital copy by email, to: Prof Joe Morris. Postal Address: 3, Station Road Ampthill, Bedfordshire. MK45 2QP . Email: j.morris@m-res.co.uk. If you need further information on the questionnaire and the study, please contact me. Tel: 01525 404890.

Q1. Please describe, in order of greatest impact, the main flood incidents that you have experienced in the last 4 years (2016-2019) on your farm.

Month and Year of Flood Event	Source of Flooding Indicate whether River/Tidal/Overland/Groundwater /Other	Were floodwaters contaminated eg salt water, pollutants, debris	Average depth of flooding (m) and range	Number of weeks that floodwater remained on farm	Total area of land that was flooded on your farm (ha)	Typical period (days) that fields remained wet after flood waters receded.	Estimated total £ cost of this event, if available	What % of the estimated costs of the flood events has compensation by insurance?

¹ Evidence on the cost of floods in England and Wales. Research code: FRS18208. The project is led by Risk and Policy Analysts Ltd, <https://www.rpaltd.co.uk/>

Sketch and Photos of Flood Area

It would be really helpful if you can provide here a rough sketch (don't worry about precision and scale) showing, for the main flood event in Q1, the flooded areas on your farm and the source of flooding. Can you also show the locations of main water courses, main outfalls for field drainage, flood infrastructure such as embankments, and any main buildings and property affected. Please show how this flood area fits with the rest of the farm. This sketch can electronically copied or photographed. Copies of some digital photographs of flooding would be good also.

Q8: Have the floods affected Agri-environment obligations or voluntary arrangements on your farm, such as Options under the Countryside Stewardship (CS) Programme?

Agri-Environment Arrangements	CS Areas subject to flooding (ha)	Main Management Options ? eg priority habitats, landscape features , or CS Code	Are there any flood related options on the flooded land eg Flood mitigation or storage measures ?	Extra costs incurred due to flood impacts : restoration, repairs, damage to capital items (not covered in Q ? below)	Comments
CS Mid Tier					
CS Higher Tier					
Other (please specify) Including woodlands					

Q9: What has been the impact of flooding on Farm Buildings and Structures?

Was your farm yard flooded ? Yes/No. Were your buildings flooded? Yes/No

If Yes to either of these, please complete the following for the main impacts, A - D, on your farm

	A (eg grain store)	B	C	D
Type of Building or structure affected eg yard, barn, silo				
Was there structural damage , indicate Yes/No and if Yes, £ cost if known				
Were contents lost or damaged, please indicate whether [1] none [2] fertilisers [3] crop [4] machinery [5] livestock <i>If other, specify</i>				
Estimated cost damage /loss of contents £				

Q10: Did the flooding result in machinery damage or loss?

If yes, please specify damage to farm machinery and vehicles and associated costs

Machinery type and size eg tractor 75hp, plough 4 furrow, irrigation equipment	Impact : Rank [1] minor thru to [5] complete loss	Cost of repair/replacement £

Q11: Did flooding result in damage to the other physical property on the farm?

Please specify

Type of property or asset	Length (m) or number affected	Impact : Rank [1] minor thru to [5] complete loss	Total cost of repair/replacement £
Hedges			
Fences			
Gates			
Farm roads			
Field drains			
Water courses			
Culverts/drains			
Footpaths			
Other			

**Q12: Did flooding result in debris, rubbish and/or contamination on the farm property?
If yes, please specify.**

Type of debris :	Area affected (ha) or quantities of debris/contamination	Corrective action	Estimated cost £
General debris			
Silt deposits			
Other contaminants : specify			

Q13: Did flooding result in disruption to water / electricity or other essential supplies and services? If yes, please specify.

Type	Days disruption	Severity of impact [1] little to [5] major	Alternative sources (if any)	Associated costs £
Water				
Electricity				
Other, eg feed delivery , milk collection , please specify				

Q14: Did flooding result in additional impacts and/or labour costs not already mentioned, including farm management time? If yes, please specify.

Other impacts: specify	Farm Labour (hours) and Management time (hours)	Other costs: specify type and value:

Q15: Did the flooding result in extra finance costs? If yes,

Type of financing eg loan, overdraft, other , please specify	Approx Amount £	Expected borrowing period (months)

Q16: Did you receive or have you applied for any compensation or insurance settlements? If yes, please specify.

Insured or compensated items	Amount claimed £	Source; eg insurance, legal claim, farm flood recovery fund	Received: Yes/No

Q17: Have other business activities on the farm been affected by the flooding? If yes please indicate type of business, impacts and estimated costs .

Business type eg Contracting, B&B, Shop, Livery, lettings/ Other Please specify	Impact : indicate which [1] premises flooded [2] no access to premises [3] clients stayed away If other: please specify	Period (weeks)	Estimated loss of revenue and/or extra cost £

Q18: Did you receive any warning message that your farm yard and/or fields might flood?

Source of warning	How long before flooding?	Message
	h min	
	h min	

Q19: What actions were you able to take after you became aware that the flood was going to hit?

Actions	Actually took <i>Tick which apply</i>	Effectiveness [0] no opinion [1] negligible [5] very	Wanted to take <i>Tick which apply</i>	Time needed (hours) to implement
Move machinery				
Move livestock				(recorded in Q6 above)
Move contents in farm buildings				
Other (specify)				

Q20: Have the floods led, or are likely to lead, to permanent changes in the way you will use and manage the land in future , with respect to

(a) The fields that are subject to flooding? YES / NO

If yes, please explain:
.....

(b) The entire farm? YES / NO

If yes, please explain:
.....

Q21: Have the floods had or are likely to have, any other impacts on your farm that have not been covered above?

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**Q22 What do you think are the three best ways of managing flood risk in this area in future?
Please tick those that apply**

- Switch to flood tolerant crops and land use
- Improve flood defences
- Improve on farm drainage
- Improve maintenance of rivers and water courses
- Control run off from land
- Improve preparedness and resilience of farms
- Relocate business to area with low flood risk
- Improve flood warning
- Improve emergency responses during flood
- Provide compensation and funds for recovery after flood
- Other:

Q23 Please can you provide some background information on your farm so that flood impacts can be put in context.

Farm name	
Farm location (Post Code)	
Total Farm Size (ha) (where flood occurred)	
Type of farm: Cereals, General Cropping, Dairy (mainly or specialist) , Livestock, Other (please specify)	

Q23 Please can you provide your contact details. The information provided is treated in confidence and will not be attributed to you, and used only for the purposes here.

Contact Name	
Contact Tel Nr	
Contact Email	
Date of completion of Questionnaire	

Thank you for your help completing this Questionnaire. Should you need further information, my contact details are given on the first page.

Would you like to receive a report on the overall results of the survey? Yes/No .