STUDENT SHEET

Farming and flooding Lincolnshire case study

Floods are caused by a combination of human and natural or physical causes. Can you give examples of both types of causes for this flood?

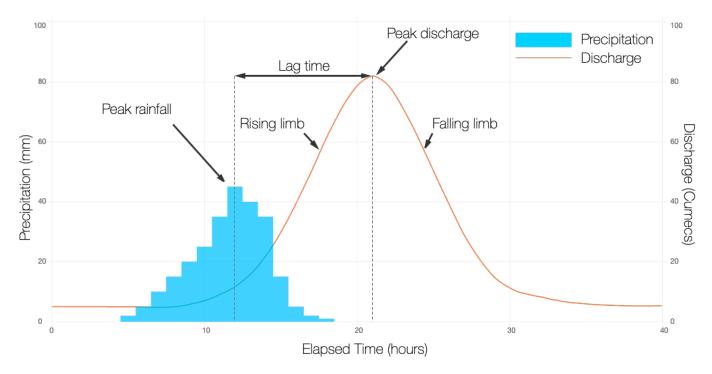
Human causes	Physical / natural causes

Watch the video of Henry Ward talking about the impacts the floods had on him and his farm.

Complete the table to show at least one impact for each category. Remember that:

- Economic to do with money and earning and living
- · Social to do with people and their wellbeing
- Environmental to do with the natural world and habitats

Social	Environmental
	Social



The key features of this hydrograph are the lag time (the time between peak rainfall and peak discharge), the steepness of the rising limb, and the peak discharge. Studying hydrographs such as this allows stakeholders to consider how the river would respond if conditions in the drainage basin were different. Using models to see how changes to the drainage basin could alter the response of the river to storms can help farmers and other stakeholders make decisions about how to manage the land.

How is a storm hydrograph likely to change if an area is afforested (trees are planted)? Think about the lag time, the steepness of the rising limb and the peak.