

Settlement: Kingstone

Location of Investigation

Figure 1: Large Scale Map showing the location of Kingstone



Figure 2: Environment Agency's Flood Map for Planning (Rivers and Sea), June 2021



Date of key flood event	February 16 th 2020
Authorities with risk management duties or functions relating to the event	Herefordshire Council (Land Drainage Authority) DCWW

Key Flood Event

Flood Type: Surface Water & Public Sewer

Watercourse Catchment: N/A

Four properties recorded internal flooding in Kingstone during February 2020. One of the respondents mentions they were also flooded in 2019. Internal flood depths were recorded ranging from less than 6 inches up to 1ft. Contamination from sewage was reported.

Sandbags were delivered to a property on 16th February 2020.

Previous flooding has been recorded by two of the respondents. HC records for this location identify some history of flooding at this location.

Number of Internally Flooded Properties related to key flood event	5
Number of Internally Flooded Properties during most acute flood	5
Impact on Strategic Highway Network	None reported
Impact on Critical Services	None reported
Health Risks	No injuries or loss of life were reported

Description of Flooding

The source of flooding in Kingstone is most likely to be from overland flows. The Flood Map for Planning indicates that all the properties which reported flooding in Kingstone are in Flood Zone 1. The EA Surface Water Flood Map indicates these properties are in areas at risk of surface water flooding. This is supported by the survey responses reviewed for this study. The survey responses indicated that previous flooding was caused by field run-off during the heavy rains in 2019. The two respondents which have provided information on the source of the flooding in 2020 attribute it to surface water runoff, as well as overflowing sewers and a blocked gully. Although one of the respondents also mentions groundwater. One respondent also raises concerns about surface water drainage with respect to recent development.

Our initial investigations suggests that the surface water flooding at the site within the village is likely due to inadequate or overwhelmed drainage infrastructure. The highway is served by one small highway drain which may be insufficient in a storm. There are anecdotal reports of a blockages in a downstream culvert.

It is noted that OS mapping shows a small watercourse which starts to the south of the village and runs under the B4348 and then the B4349. Flood risk from this watercourse does not appear to have been included in the Flood Map for Planning so properties in Kingstone which are in Flood Zone 1 may actually be at risk of flooding from this watercourse. However, none of the properties which reported flooding are close to it so the risk of fluvial flooding to these properties is likely to be low.

A separate site is at risk of surface water flooding partly due to being located at a low point in the terrain. This property is also at risk of flooding from the Cage Brook and is in Flood Zone 3

Damage to Cultural Heritage Sites: No listed buildings are within a Flood Zone.

Previous reports of floods

Prior to the flood event on the 16th February 2020 and 26th October 2019, previous flood events have been reported.

Previous Flood Risk Studies

There are no flood risk studies previously undertaken at this location.

Conclusions

Herefordshire Council Highway Authority proposes to exercise their flood risk management function in response to the recent flooding. Investigatory works are scheduled on the highway drainage, in the vicinity of the flood site in 2021/22.

The episode of foul flooding has been reported to Welsh Water.