Maps 6a to 6c show the spatial distribution of three receptors (people, critical services and non-residential properties) that may be affected by future surface water flooding in an event with a 1 in 200 chance of occurring in any given year.

This map shows the number of critical services affected, which can be considered an indicator of the consequences of flooding for human health. Critical services are defined by the Environment Agency guidance and include: schools, hospitals, nursing/care/retirement homes, police, fire and ambulance stations, prisons, sewerage treatment works, electricity installations.

Calculations for each 1km square were carried out using the Flood Map for Surface Water (1 in 200 >0.3m), Environment Agency’s detailed method of counting (based on property outlines) and the National Receptors Database v1.1.

The 1km squares are shaded from light to dark purple as the number of critical services affected in each square increases.

Also overlaid on the map are surface water flooding ‘hot spots’, or areas where the consequences of a surface water event are likely to be more severe. These have been defined as 1km grid squares where at least one of the three indicators is above the threshold given below (thresholds defined by Defra guidance):

- More than 200 people affected
- One or more critical services affected
- More than 20 non-residential properties affected

The maps show that:
- The main hotspots are in more urban locations due to the concentration of population, industrial and commercial buildings, and critical services.
- Several more rural communities have less people affected but will still experience an adverse impact, particularly those where local critical services are affected.

More detail is given in the main report.

Legend

- **Critical services**
- **Hotspots**
- **Number of critical services affected per 1km grid square**

Explanatory note:

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Oxfordshire County Council

Preliminary Flood Risk Assessment

Map 6b: Critical services affected by flooding in a rainfall event with a 1 in 200 chance of occurring in any given year

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