# **Catchment Management**



# **Natural Flood Management (NFM)**

NFM involves using techniques to restore or mimic natural functions to help store more water in the catchment and slow the flow of water downstream. Methods include leaky dams, peatland restoration, storage areas and tree planting.

## Sustainable Drainage Systems (SuDS)

SuDS can be used to slow, retain and infiltrate rainwater runoff through water butts, permeable paving, rain gardens and more. On a larger scale, SuDS such as swales, ponds and wetlands can be used.



Removing gravel from pinch points such as bridges can help watercourses flow more freely. Whilst this can increase channel conveyance, it may also speed up the flow of water downstream.

This resource has been

work in partnership with the

Environment Agency

# **Flood Risk Management Schemes**

Flood schemes combine hard engineering and other techniques to reduce flood risk to communities. Methods include flood walls, embankments, storage areas and coastal management.

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#### Monitoring

Gauge boards and telemetry systems on watercourses help to monitor flood conditions and act as early warning systems.

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#### **Highway Maintenance**

Gullies on highways and other assets such as soakaways can play a big part in managing surface water runoff. Maintenance of assets is important to ensure they work in heavy rainfall events.

**Community Resilience** 

Working together and forming flood action groups helps communities become more resilient. They can work with key agencies to better understand and manage their flood risk.

> Last reviewed: May 2021 For more information visit: www.thefloodhub.co.uk @TheFloodHub

### **Storage Areas**

Storing water on the floodplain or in upstream storage areas during heavy rainfall reduces the volume in the river's channel and reduces peak flows downstream. Outlet structures can return the water to the river at a controlled rate.

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## **Agricultural Land Management**

Techniques to reduce runoff on farmland include buffer strips, cross drains and contour cultivation across fields instead of up and down. Certain machinery practices help to reduce soil compaction which increases water capacity and soil health.

# **Property Flood Resilience (PFR)**

Individuals can use PFR in their homes and businesses to increase their resilience to flooding. Options include flood barriers on doors, automatic airbricks, non-return valves and pumps.