

Every year, the UK faces more and more challenges over too much or too little water. Only if every part of the value chain works together can we build lasting solutions.

WATER, WATER EVERYWHERE?

ENCOURAGING COLLABORATION AND BUILDING PARTNERSHIPS



DROUGHT

Between 2010 and 2012, the UK experienced historically dry weather. 2011 was the driest year in England and Wales for 90 years.



FLOOD

In 2012, the UK suffered from one of its wettest ever summers. 1 in 5 days in 2012 saw flooding.

UNUSUALLY DRY SPRING

In Spring 2011 most areas of England had less than 50% of average spring rainfall



WATER COMPANIES

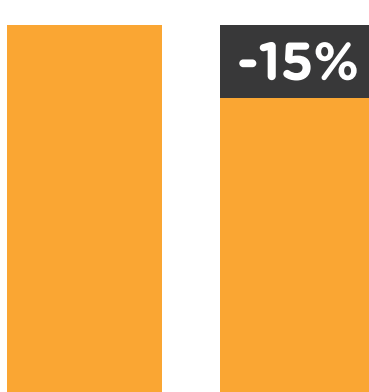
In 2012, 7 companies in the South and East of England imposed temporary use bans on

20 MILLION CUSTOMERS



AGRICULTURE

Estimated reduction in potato yield for 2011:



Total UK farming losses in 2011:

£400 MILLION

INDUSTRY AND BUSINESS



Many businesses were affected by water-use restrictions with no compensation for business loss



INFRASTRUCTURE AND ENERGY

OVER £20 MILLION

needed to repair roads damaged by shrinkage

HOUSEHOLDS

100 DOMESTIC SUPPLIES



from boreholes and springs were either intermittent or completely dried up

THE WETTEST APRIL SINCE RECORDS BEGAN

118mm of rain fell in East Anglia in 2012, which is

225% of the long-term average for April



WATER COMPANIES

450,000 TONNES



of raw waste overflowed into an individual river due to heavy rainfall

180 That's equivalent to the water in 180 Olympic swimming pools



INDUSTRY AND BUSINESS

£13 BILLION in disruption losses — the same as the entire UK workforce on strike for 2.5 days

80% of businesses that suffer a flood or other major incident close down within 18 months

AGRICULTURE

£600 MILLION

worth of crops were lost

Wheat yields were 13% lower in 2013 due to the 2012 floods

INFRASTRUCTURE AND ENERGY

65% of local authorities had roads that were badly affected



HOUSEHOLDS

4500 properties flooded through England and Wales in 2012



9 people died

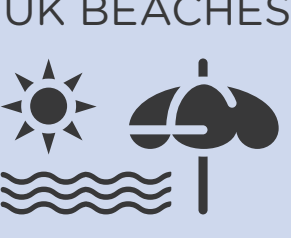
ENVIRONMENT

Of the trees planted by the Woodland Trust in Essex in 2010/11,



80% were lost to the drought

At least **250** UK BEACHES



were contaminated after emergency discharge from sewers and agricultural run-off

THE FREQUENCY OF DROUGHTS AND FLOODS IS LIKELY TO INCREASE IN THE COMING YEARS

SOLUTIONS

Engagement of a group of diverse stakeholders such as the water industry, business, regulators, land owners, conservation bodies, local authorities, and communities is necessary to implement beneficial actions for all.



AGRICULTURE

- Drought resistant crops
- Better irrigation and water systems
- Better water storage
 - Undertaken collaboratively to provide benefits for the wider community
- Effective abstraction among farmers' cooperatives
- Sustainable drainage systems and new wetlands to manage flood risk



HOUSEHOLDS

- Buy products with lower embedded water
 - It takes around 50 times more water to make a 330g steak than 450g of tomatoes
- Dispose of waste sensibly to avoid overflowing sewers



INDUSTRY AND BUSINESS

- Join water management programmes like CERES
- Work with supply chains to ensure they are more water secure
- Prepare in advance for flooding



WATER COMPANIES

- Encourage water meter usage/efficiency
- Improved communication strategies around extreme weather events
- Effective water farming in cooperation with land managers
- Invest in sewage systems



INFRASTRUCTURE AND ENERGY

- Move water between supply zones
- Invest in sharing infrastructure
- Innovative leakage reduction and reduce supply interruptions
- Implement planning guidance for new and existing developments
- Store water for future dry conditions — "water farming"
- Invest in flood defences
 - They protected 200,000 homes in 2012
- Sustainable urban planning

SOURCES

DROUGHT

<http://www.guardian.co.uk/environment/2012/feb/12/summer-drought-looms-for-england>
<http://www.telegraph.co.uk/finance/newsbysector/retailandconsumer/8556817/UK-farming-in-crisis-as-drought-hits-crop-yields.html/>
<http://www.environment-agency.gov.uk/news/146242.aspx>
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<http://www.potato.org.uk/sites/default/files/%5Bcurrent-page%3Aarg%3A%3F%5D/Content%20of%20Production%202012%20-%2086450%20PINSTONE.pdf>

FLOOD

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<http://www.telegraph.co.uk/topics/weather/9771541/Wettest-year-on-record-cost-economy-13bn.html>
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<http://www.guardian.co.uk/environment/2013/jan/04/2012-year-british-weather-dangerous>

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