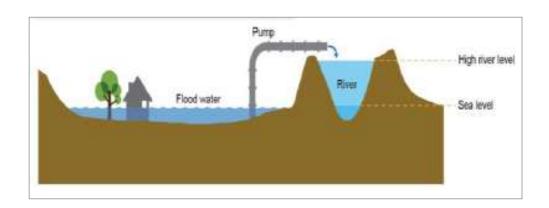
Somerset Floods 2014

Graham Quarrier
Projects Team Manager

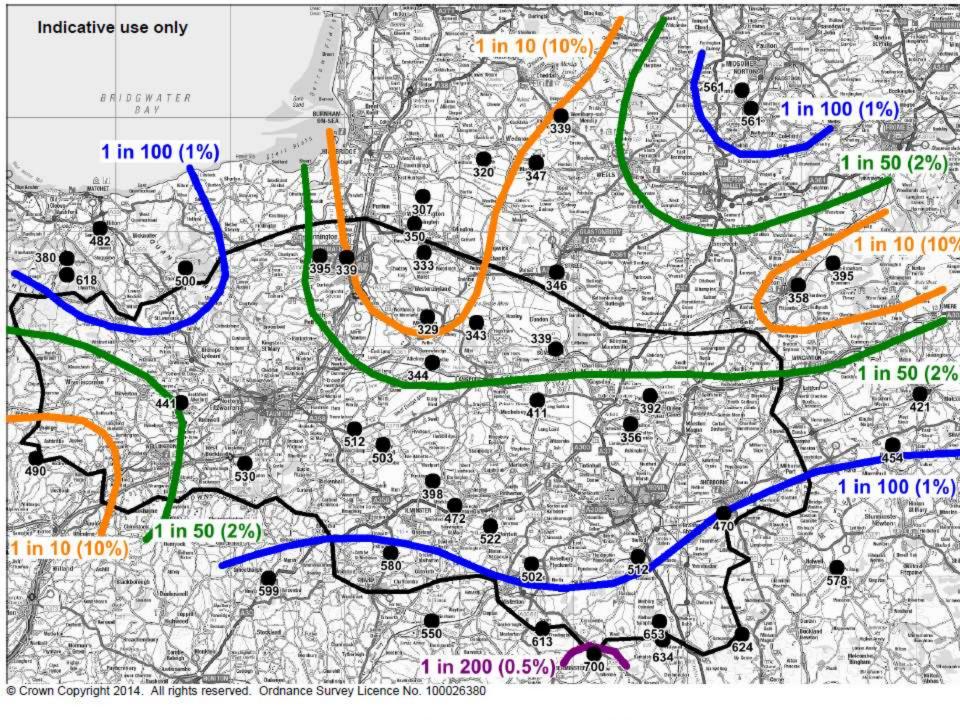


How the Somerset Levels work













Repairing the river embankment at Athelney, 1929. During the first two weeks of December much of the Taunton area was hit by severe weather. Vivary Park and parts of the town were flooded. At Curload efforts to contain the River Tone finally failed and the river burst its banks during the early hours of the morning. Much of the area had to be evacuated. Sixty families were made homeless at Burrowbridge and in the worst affected area, the parish of Stoke St Gregory, there were 120 homeless families. A county relief fund was set up to aid the homeless.









2014 Pumping Operation

- ◆ Approximately 100 million cu m floodwater pumped from the end of December to March
- ⇒ 2/3 by EA, 1/3 by Dutch contractors
- ⇒ Fuel bill almost £2M
- Demonstrated how pumping could greatly speed up recovery
- Public feel happier



Estimated direct costs of the 2014 flooding

| Local Government/Emergency Response | £17M |
|-------------------------------------|-------|
| Railway | £17M |
| Highways/Travel | £12M |
| Property Damage | £16M |
| Agricultural | £5.7M |
| Business premises | £3.2M |
| Social/Health | £3.3M |
| Utilities | £0.8M |
| TOTAL APPROX | £75M |

Indirect Costs

Western Daily Press: "Pictures of flooded fields, roads, villages in Somerset ...deterring visitors worth an estimated £200M", says Visit Somerset









Load testing for safety



Survey target





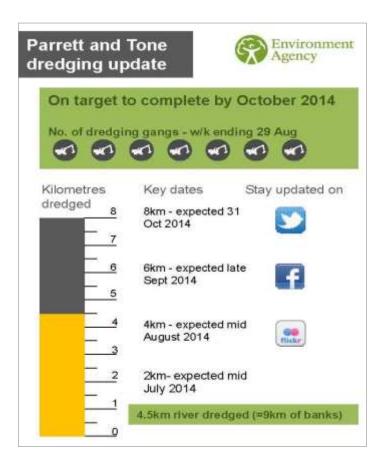


Rivers Parrett and Tone Dredging

- ⇒ 8km reach known to have greatest impact
- Needed different management approach akin to Incident Management
- Selected reach definitely worth doing
- Could have prevented more damage than we realised
- ◆ Evaluation system may not reflect the truth!



Use of Social media



"The Dredgeometer"





Platform for temporary pumps when Kings Sedgemoor Drain is tidelocked

EA will use a mix of owned and hired pumps for flood events





"Repairs" to damaged assets





What we do now differently

- More social media find an expert
- Consider on-site tests for H&S
- → Plan for temporary solutions (pumps)
- → Recognise that visibility of our response is

important





Wider lessons

- ⇒ Be wary of blindly believing established benefit evaluation systems
- ⇒ It's hard to convince the public with logic alone
 - consider their emotions







Heading

- Level one bullet
 - Level two bullet
 - Level three bullet
 - Level four bullet
 - » Level five bullet





