

Heatwave plan for England ^[1]

Image from Climate Adapt about this case study

[2]

Autor:

In 2003, a 10 day heatwave period caused over 2,000 excess deaths (compared to the same dates in the previous five years) in UK. As a response, the heatwave plan for England was first issued in 2014 and has since undergone annual updates (last update in May 2016 has not introduced changes to 2015 version that therefore it is the one still valid). The plan intends to protect the population from heat-related harm to health. It aims to prepare for, alert people to, and prevent, the major avoidable effects on health during periods of severe heat. It allows a structured reaction to five urgency levels (from long-term preparation to immediate relief action), monitored through a seasonal heat-health watch system. The plan is a template for appropriate local heatwave plans. While this plan already offers solutions for the present, it has been devised with future climate in mind. The expected increase in heatwaves and the resulting need for adaptation is illustrated in the accessory document "Making the case: the impact of heat on health – now and in the future", stating that "[...] *unless we take steps now to plan for the longer term changes we will not be prepared. Moreover, these need to be taken on a multi-agency basis [...]*". The plan suggests, e.g. the following adaptation focuses: i) urban heat islands, ii) green spaces for cool environments, iii) thermal insulation of homes, and iv) cooling health facilities.

Case Study Description

Challenges:

Heatwaves, among the various health hazards imposed by climate change, strike particularly hard in regions where the population is neither accustomed to high temperatures nor does expect them. Under these adverse circumstances, the UK faced an estimated 2.000 victims to the 2003 European heatwave. The UK Climate Change Risk Assessment 2012 (UK CCRA 2012) estimates an increase of annual heat-related deaths of up to 1,700 by the 2020s; moreover, the authors of the heatwave plan follow the IPCC's assumption of a very likely increase in frequency, duration and intensity of heatwaves. The authors also recognize the CCRA's further conclusions that heatwaves "*may particularly affect vulnerable groups such as the elderly. South-east England may be the region most affected*".

Likewise, the authors acknowledged the CCRA's indicated need for multi-agency *and* cross-sectoral adaptation planning, assuming a significant impact on health and wellbeing of other sectors like built environment or agriculture. Key challenges for improving future response to heatwaves were, thus:

- translating meteorological forecasts into regional, standardized alert codes;
- ensuring a rapid and clear cut alert chain from central forecast to local responders;
- ensuring co-ordinated cooperation among the various health service providers (including appropriate information of the public for autonomous protection).

Objectives:

The objectives of the heatwave plan are:

- Strategic planning: coordinated long-term and multi-agency planning (the latter referring to a joint effort together with experts outside the health sector to, e.g., increase cooling capacity of the built environment).
- A seasonal alert and information system to: (i) trigger the response of National Health Services, government and public health system, (ii) inform and advise health and social care professionals; information will be both preventive and tactic (upon forecast of a severe heatwave).
- Heatwave and summer preparedness. Key tasks are: agreements on lead bodies at subnational level,

reducing indoor heat exposure, preparedness of the health and social care system.

Solutions:

Main measures implemented through the heatwave plan for England are:

- **A heat-health watch system:** this alert system operates from June 1 to September 15. It receives temperature forecasts from the national meteorological office. Alert levels range from 0 (year-round long term planning) to 4 (national emergency: heat impacts extend beyond the health sector, according to national cross-sectoral judgement). Intermediate alerts (levels 2 and 3) are issued above 30 and 15 °C (day and night, respectively), threshold varying regionally. While heat-health watch is operative, Public Health England (PHE) monitors key outputs from real-time syndromic surveillance and shares these data with the health department (DH).
- **Standardised meteorological heatwave warnings:** these alert levels inform the health-health watch system (cf. above). Warnings are color-coded to indicate the affected region.
- **Coordinated, multi-agency response** through the inclusion of the UK local resilience forums (LRF; these are institutionalised response partnerships of local public services – including emergency services, local authorities, the National Health Service (NHS), the Environment Agency and others).
 - Information and training of the public and of health care professionals: the heatwave plan and its accompanying documents include concise and easily understandable advice for individual prevention measures – including peer-to-peer community help. A main tool are “**action tables**”, which are clearly laid out and comprehensible one-page for four different targeted audiences (national institutions to local citizens) allowing the rapid briefing about risks and countermeasures for each alert level. Public coverage is increased through dissemination via social media (Facebook, Twitter).
- **Equality assessment:** special emphasis was laid on safeguarding equality during prevention and aid, i.e. screening for groups which might be at particular risk for e.g. socio-economic reasons.

The heatwave plan for England offers solutions to cope with present climate variability and extreme events, which are highly relevant also to better adapt to future climate changes. In this perspective, the plan suggests a number of additional health-related adaptation options including: green spaces for cool environments, thermal insulation of homes, and cooling health facilities.

Importance and relevance of the adaptation:

PARTFUND_AS_CCA;

Additional Details

Stakeholder engagement:

Stakeholder participation shapes the annual revisions of the heatwave plan through the input of expertise from relevant stakeholder groups and levels: these range from national government institutions to regional or local health care units. Likewise, the heatwave plan is supplemented by different special reports for particular stakeholder groups: (i) health and social care professionals, (ii) home managers and staff, (iii) teachers and supervisory staff, and (iv) citizens. The results of a dedicated equality analysis are publicly available, too.

Success and limiting factors:

In relation to the plan implementation the following success factors can be mentioned:

- The heatwave plan considers and informs other relevant frameworks and strategies, like the Public Health Outcomes Framework (PHOF), Joint Strategic Needs Assignments (JSNAs) and Joint Health and Wellbeing Strategies (JHWSs). This helps to align adaptation measures with technically related strategies and improve performance through synergies (exchange subject matter know-how and evidence, ensure convergence of measures, etc.)
- The plan both supports and relies on local to regional agents, notably the LRF but also Local Health Resilience Partnerships, public health directors as local agenda-setters, or Local Health and Wellbeing Boards. This ensures swift and locally adequate response and cooperation among responders of

administratively distinct forces.

- The plan is updated on a yearly base (and endowed with supplementary dissemination material) as required by new developments (see e.g. [2016 update](#) [3]; this has not introduced changes to 2015 version that therefore it is the one still valid). This protects against outdated or insufficient response schemes as evidence and know-how continuously evolves during implementation.

Budget, funding and additional benefits:

Adaptation to future warming, including prolonged peak temperature, highly benefits from the provision of subject-matter forecasting and alert chains. These deliver specific information to local multi-agency responders who can then prevent or at least minimise the costs (last not least concerning healthcare staff and facilities) otherwise incurred through lack of information or preparation. Note that local resilience forums – though implemented independently from the heatwave plan – promise a very useful concept for the implementation of cross-sectoral adaptation and disaster risk reduction, too.

Legal aspects:

Key health care responsibilities (and authority) – as during heatwaves – are stipulated in the UK parliament's Health and Social Care Act 2012. The LRF, an integral operative part of the heatwave plan, are so-called Category 1 (or “core”) responders of the UK emergency planning & response system, provided by the parliament's Civil Contingencies Act 2004.

Implementation time:

The plan was first published on 13 May 2014. Updates of plan and/or supplements: 21 August 2014, 22 May 2015, 25 May 2016 (this last version does not introduce changes; thus 2015 one is the still valid version). The plan has been operative since May 2014.

Reference Information

Contact:

Public Health England
Wellington House
133-155 Waterloo Road
London SE1 8UG
United Kingdom

Websites:

<https://www.gov.uk/government/publications/healthy-lives-healthy-people-...> [4]

<https://www.gov.uk/government/publications/heatwave-plan-for-england> [5]

<https://www.gov.uk/guidance/local-resilience-forums-contact-details> [6]

Sources:

Public Health England, National Health Services England, Local Government Association, MetOffice (2015): “Heatwave plan for England. Protecting health and reducing harm from severe heat and heatwaves”, and supplemental materials to the heatwave plan for England.

[Start here](#)

[What is AdapteCCa?](#)

[What is climate change?](#)

[What is the adaptation to CC?](#)

What I can do?

Participate in AdapteCCa

Subjects and territories

Divulgation

Videos

Image bank

Infographics

Divulgative resources search engine

Interactive climate change adaptation dossier

Experiences of adaptation (multimedia resources)

Virtual classroom

Tools

Viewer of Climate Change Scenarios

Case Studies

Documentary search engine

Other

Participate in AdapteCCa

Source URL: <https://adaptecca.es/en/heatwave-plan-england>

Links

[1] <https://adaptecca.es/en/heatwave-plan-england>

[2] https://adaptecca.es/sites/default/files/figure-1_plan-cover.png

[3] <http://www.birminghamprepared.gov.uk/news/national-heatwave-plan-for-england-2016/>

[4] <https://www.gov.uk/government/publications/healthy-lives-healthy-people-improving-outcomes-and-supporting-transparency>

[5] <https://www.gov.uk/government/publications/heatwave-plan-for-england>

[6] <https://www.gov.uk/guidance/local-resilience-forums-contact-details>