User guide
Weather-health alerting system
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# Version control

<table>
<thead>
<tr>
<th>Version number</th>
<th>Date</th>
<th>Type of change</th>
<th>Description</th>
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<td>2.0</td>
<td>31 October 2023</td>
<td>Major review</td>
<td>Information added on:</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>- decision-making process to issue Weather-Health Alert (WHA)</td>
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<td>- Cold-Health Alerts impacts and thresholds</td>
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<td>- impact-based alerting added as appendix</td>
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<td>- Local Resilience Forum (LRF) regions added as appendix</td>
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<td></td>
<td></td>
<td></td>
<td>Other minor structural changes.</td>
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<td>1.1</td>
<td>1 June 2023</td>
<td>Minor review</td>
<td>Corrected core alerting season dates for the Heat-Health Alerts (HHAs) and the Cold-Health Alerts (CHAs).</td>
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<td>1.0</td>
<td>1 June 2023</td>
<td>Publication</td>
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1.0 1 June 2023 Publication Not applicable.
### Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>AWHP</td>
<td>Adverse Weather Health Plan</td>
</tr>
<tr>
<td>CCA</td>
<td>Civil Contingencies Act</td>
</tr>
<tr>
<td>CHA</td>
<td>Cold-Health Alert</td>
</tr>
<tr>
<td>COBR</td>
<td>Cabinet Office Briefing Room</td>
</tr>
<tr>
<td>DHSC</td>
<td>Department of Health and Social Care</td>
</tr>
<tr>
<td>EH</td>
<td>Extreme heat</td>
</tr>
<tr>
<td>EMARC</td>
<td>Environment Monitoring and Response Centre</td>
</tr>
<tr>
<td>GP</td>
<td>General practitioner</td>
</tr>
<tr>
<td>HHA</td>
<td>Heat-Health Alert</td>
</tr>
<tr>
<td>HWB</td>
<td>Health and Wellbeing Boards</td>
</tr>
<tr>
<td>ICB</td>
<td>Integrated Care Boards</td>
</tr>
<tr>
<td>ICP</td>
<td>Integrated Care Partnerships</td>
</tr>
<tr>
<td>ICS</td>
<td>Integrated Care Systems</td>
</tr>
<tr>
<td>LGA</td>
<td>Local Government Association</td>
</tr>
<tr>
<td>LHRP</td>
<td>Local Health Resilience Partnership</td>
</tr>
<tr>
<td>LRF</td>
<td>Local Resilience Forum</td>
</tr>
<tr>
<td>NHS</td>
<td>National Health Service</td>
</tr>
<tr>
<td>NSWWS</td>
<td>National Severe Weather Warning System</td>
</tr>
<tr>
<td>SLA</td>
<td>Service Level Agreement</td>
</tr>
<tr>
<td>UKHSA</td>
<td>UK Health Security Agency</td>
</tr>
<tr>
<td>VCS</td>
<td>Voluntary and Community Sector</td>
</tr>
<tr>
<td>WHA</td>
<td>Weather-Health Alert</td>
</tr>
</tbody>
</table>
Overview of the Weather-Health Alert system

The Weather-Health Alert (WHA) system was developed as part of a joint collaboration between the UK Health Security Agency (UKHSA) and the Met Office and was launched on the 1 June 2023.

The Heat-Health Alert (HHA) operates from 1 June to 30 September and the Cold-Health Alert (CHA) operates from 1 November to 30 March. An out-of-season alert may still be issued if impacts from adverse weather on health (heat and cold) are expected.

Within these core alerting periods heat-health and cold-health planners will also be issued every Monday and Friday to provide weather-health horizon scanning for the following 5 days, 6 to 15 days, and 16 to 30 days.

During both the summer and winter seasons, UKHSA and the Met Office will monitor the weather forecasts and where episodes of hot or cold weather are identified using predefined evidence-based considerations, a joint dynamic risk assessment will be carried out and the appropriate alert issued.

HHA, CHA and weather-health planners are issued by UKHSA in collaboration with the Met Office. Individuals and organisations that wish to receive the impact-based Weather-Health Alerts must re-register to receive the alerts where users will be able to specify which regions they wish to receive alerts for.

Both systems are based on:

- weather forecasts provided by the Met Office Environment Monitoring and Response Centre (EMARC) forecasts and data to UKHSA, as part of Service Level Agreement (SLA)
- a joint dynamic risk assessment conducted by the UKHSA Extreme Events and Health Protection team, the Met Office EMARC or Met Office senior advisors, and, if of relevance, other governmental departments, as part of the common responsibilities under the Civil Contingencies Act (CCA) 2004

Depending on the level of alert, a response will be triggered to communicate the risk to the NHS England, government, and public health system. Advice and information will be sent for the public and health and social care professionals, particularly those working with at-risk groups, after an alert is issued or updated. This includes both general preparation for hot or cold weather and more specific advice when a severe heat or cold event has been forecast.
The platform aims to cover the spectrum of action from different groups. In general terms these are:

- **green (preparedness)** – no alert will be issued as the conditions are likely to have minimal impact and health; business as usual and summer or winter planning and preparedness activities
- **yellow (response)** – these alerts cover a range of situations; yellow alerts may be issued during periods of heat or cold that would be unlikely to impact most people but could impact those who are particularly vulnerable
- **amber (enhanced response)** – an amber alert indicates that weather impacts are likely to be felt across the whole health service, with potential for the whole population to be at risk; non-health sectors may also start to observe impacts and amore significant coordinated response may be required
- **red (emergency response)** – a red alert indicates significant risk to life for even the healthy population

Since June 2023, the WHAs moved from the previous systems based on probabilities of reaching threshold temperatures to impact-based alerts. Impact based alerting provides users with information beyond just the hazard and gives an indication of the impacts likely to be observed as a result of the weather. Impact based alerting allows users to understand the likely impacts and make informed decisions about actions they should take. The new impact-based WHAs contain:

- headline weather conditions expected in the coming days
- an outline of what impacts might be expected
- a brief overview of regional impact assessment
- links to additional information, advice and guidance

More information on Impact based alerting can be found on Appendix 1.

The WHAs will still be issued at the NSWWS regional resolution. More information on the alignment with the Local Resilience Forums (LRFs) and NHS England boundaries can be found on Appendix 2.
Weather-Health Alert decision-making process

Unlike the previous alert systems, the new impact-based system does not employ hard temperature thresholds for issuing alerts but rather uses temperature thresholds as decision-making aids. These thresholds were agreed upon based on the epidemiological evidence of the relationship between temperatures and mortality, observed impacts across the health and social care system during adverse weather episodes in the last decade, and the long-term weather trends of each region of England. The temperatures themselves are only a component of the joint dynamic risk assessment conducted, in its initial stages, by UKHSA and the Met Office.

This approach allows a level of flexibility that allows each event to be assessed using more information than before to make alerting decisions. In addition, this additional detail can be used by local organisations to make informed decisions about the resources required for an appropriate response.

The other criteria to be considered during the joint dynamic risk assessment, alongside temperatures, are:

- concurrent, cascading and compounding risks, such as drought, air pollution, wildfires, flooding
- other weather indicators of relevance (for example warm nights, high humidity, wind speed)
- duration of the event
- likelihood of escalation
- previous alerts and action undertaken (for example existing news story)
- local, regional and national action required (for example strategic coordinating groups, lead government department teleconference or Cabinet Office Briefing Room (COBR))
- spatial extent of the risk (for example more than one region affected)
- significant political or media interest
- resource availability
- timing of the alerts (for example early or late in the season)
- time of year (for example mass gatherings, public holidays)

The combination of all of these factors leads to a joint decision on the likelihood of possible impacts being observed during an relevant adverse weather event.
Heat-Health Alert overview

Heat-Health Alert temperature thresholds decision-making aid

Another distinction between the previous alerting system and the new impact-based system is that all regions apart from London will have the same decision-making thresholds. Table 1 illustrates the new decision-making aid temperature thresholds for the HHAs based on max-daytime temperatures and overnight temperatures.

Table 1. Heat-Health Alert temperature thresholds

<table>
<thead>
<tr>
<th>Region</th>
<th>Impact level</th>
<th>Percentage increase in mortality above expected levels</th>
<th>Max temp</th>
<th>Night-time temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>London</td>
<td>Very low</td>
<td>Not applicable</td>
<td>&lt;28°C</td>
<td>95th percentile*</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>10%</td>
<td>28°C to 31.9°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medium</td>
<td>20%</td>
<td>32°C to 39.9°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>50%</td>
<td>40°C&lt;</td>
<td></td>
</tr>
<tr>
<td>All other regions</td>
<td>Very low</td>
<td>Not applicable</td>
<td>&lt;27°C</td>
<td>95th percentile*</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>10%</td>
<td>2°C to 29.9°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medium</td>
<td>20%</td>
<td>30°C to 37°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>50%</td>
<td>38°C&lt;</td>
<td></td>
</tr>
</tbody>
</table>

* Top 5% of night-time temperature. Ninety-fifth percentile indicates evenings on which the night-time temperature is higher than 95% of all other summer nights. Only the top 5% of evenings in any summer are likely to fall within this upper range of night-time temperatures.
Heat impacts overview

The text within the table indicates the level of impact which, when combined with likelihood of those impacts occurring, would lead to the selection of a warning level (yellow, amber or red). The impacts outlined within the table are not exhaustive and do not include specific impacts that may occur within other sectors apart from health.

**Table 2. Heat impact criteria**

<table>
<thead>
<tr>
<th>Population at risk</th>
<th>Very low</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Little impact observed on health, healthcare services and social care provision.</td>
<td>Increased mortality amongst vulnerable population groups (for example an increase in those aged 65 years and over daily mortality dependant on time of year).</td>
<td>Observed increase in mortality across the population, particularly in those aged 65 years and over or those with health conditions, but impacts may also be seen in younger age groups.</td>
<td>Increased mortality expected across the whole population with significant mortality observed in older age groups.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Demand for and impacts on health and social care services</th>
<th>Very low</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential for increased usage of healthcare services by vulnerable population. Internal temperatures in care settings (hospitals and care homes) may become very warm increasing risk of indoor overheating.</td>
<td>Increased demand for GP services, ambulance call out, remote healthcare services (NHS111) likely. Impact on ability of services delivered due to heat effects on workforce possible. Many indoor environments likely to be overheating, risk to vulnerable people living independently in community as well as in care settings. Staffing issues due to external factors.</td>
<td>Significant increased demand on all health and social care services. Impact on ability of services to be delivered due to heat effects on workforce. Indoor environments likely to be hot making provision of care challenging and leading to increased risk of heatstroke and dehydration.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### User guide – Weather-health alerting system

<table>
<thead>
<tr>
<th></th>
<th>Very low</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other sectors</td>
<td></td>
<td></td>
<td>Patient medication regime may lead to increased risk of dehydration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Non-health sectors starting to observe impacts (for example travel delays).</td>
<td>National critical infrastructure failures – power outages or major roads and rail lines closed due to melting roads or overheating rail lines.</td>
</tr>
</tbody>
</table>
Interaction with NSWWS extreme heat

In England there are 2 early warning systems related to high temperature, including HHA and the extreme heat (EH) warnings as part of the National Severe Weather Warning Service (NSWWS). Since summer 2021 UKHSA and the Met Office have collaborated to ensure that the HHA and EH warnings are aligned and work together to communicate the expected impacts so that users act to minimise the potential impact. Each system has a slightly different target audience yet work together to help focus the messages being transmitted.

The HHA primarily targets the health and social care sector and responder community, while the NSWWS has a wider audience that includes the responder community, but also the general public. Due to the fact that the health sector is likely to observe impacts before other sectors, the HHA will issue yellow to red alerts, whereas NSWWS will only issue amber and red alerts for EH.

To ensure both systems are aligned, UKHSA and the Met Office will work together to undertake a combined risk assessment to determine the expected impacts and the likelihood of those impact occurring. This partnership working will ensure consistency across the systems, and a single overall message to users.

It should be noted that the HHA and NSWWS EH system are both separate to the Met Office Heatwave Definition. The [Met Office provides an explanation for the difference between these systems](#).

Table 3. Interaction between the HHA and NSWWS extreme heat

<table>
<thead>
<tr>
<th>HHA impact level</th>
<th>NSWWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very low</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Low</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Medium</td>
<td>Potential for amber extreme heat warning within high impact column – that is potential for severe impacts</td>
</tr>
<tr>
<td>High</td>
<td>Potential for red extreme heat warning</td>
</tr>
</tbody>
</table>
Cold-Health Alerts overview

Cold-Health Alert temperature thresholds decision-making aid

The table below provides further detail on the thresholds and considerations used as decision-making aids that trigger a joint dynamic risk assessment between UKHSA and the Met Office.

Table 4. Cold-Health Alert temperature thresholds

<table>
<thead>
<tr>
<th>Impact level</th>
<th>Temperatures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very low</td>
<td>Average temperatures &gt;2°C</td>
</tr>
<tr>
<td>Low</td>
<td>Average temperature of 2°C or below for 48 hours or more</td>
</tr>
<tr>
<td>Medium</td>
<td>1. Average temperatures below 2°C for 5 days</td>
</tr>
<tr>
<td></td>
<td>2. Average temperatures below 0°C for 48hrs or more</td>
</tr>
<tr>
<td>High</td>
<td>1. Average temperatures below 0°C for 5 days</td>
</tr>
<tr>
<td></td>
<td>2. Average temperatures below -2°C for 48hrs or more</td>
</tr>
</tbody>
</table>
Cold impacts overview

As with heat, and based on the epidemiological evidence, experience and professional opinion, the possible levels of potential impacts from low temperatures are described in the table below. The text within the table indicates the level of impact which, when combined with likelihood of those impacts occurring, would lead to the selection of a warning level (yellow, amber or red). The impacts outlined within the table are not exhaustive and do not include specific impacts that may occur within other sectors apart from health.

**Table 5. Cold impact criteria**

<table>
<thead>
<tr>
<th></th>
<th>Very low</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population at risk</td>
<td>Little impact observed on health, healthcare services and social care provision.</td>
<td>Increasing mortality among vulnerable groups (for example those aged 65+ dependent on the time of year) in line with observed winter patterns.</td>
<td>Increasing mortality observed population-wide, focused on those aged 65+ and some other vulnerable groups (for example those sleeping rough) but with some observed effects among other groups (for example those with health conditions), and also may be seen in younger age groups.</td>
<td>Increased mortality expected across the whole population with significant mortality observed in older age groups and some other vulnerable groups (for example those sleeping rough).</td>
</tr>
<tr>
<td>Demand for and impacts on health and social care services</td>
<td>No discernible change in demand.</td>
<td>Increased health and social care service utilisation by those aged 65+ may be observed, in line with observed winter patterns.</td>
<td>Increased demand for GP services, ambulance call out, remote healthcare services (NHS111) may occur although this may be with a significant time lag. Staffing issues may arise due to external factors (for example transport disruption).</td>
<td>Significant increased demand on all health and social care services, though likely with a time lag. Impact on ability of services to be delivered due to cold effects on workforce – either through workforce attrition due to illness, or because staff are unable to visit those living at home.</td>
</tr>
<tr>
<td></td>
<td>Very low</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>----------------</td>
<td>----------</td>
<td>-----</td>
<td>--------</td>
<td>------</td>
</tr>
</tbody>
</table>
| **Other sectors** | No or minimal wider sectoral impacts. | Contained impacts, for example disruption to public transport. | Non-health sectors starting to observe impacts which may have knock-on effects for delivery of key public services leading to short-term closures (for example for schools). | A broad spectrum of impacts may be observed in other sectors, for example:  
  - widespread and severe disruption to public transport systems, with knock-on effects for public service delivery, for example school closures  
  - critical infrastructure failures, for example power outages, water supply, gas supply shortages and disruption to communications networks  
  - disruptions to critical supply chains influencing service provision in other sectors including health |
Interaction with other Met Office NSWWS warnings

Unlike heat, there is currently no extreme cold weather warning issued as part of the NSWWS by the Met Office. However, warnings will be issued by the Met Office for a range of high-impact weather events, including rain, fog, wind, thunderstorms, and potentially of most relevance to CHA, snow and ice. While NSWWS does not consider cold temperature explicitly, these warnings can provide information at a more specific geographical level about snow or ice forecasts and provide a holistic view of the weather picture over an alerting period that the public and emergency planners may find useful.

As with heat, situational awareness will be supported through regular updates between UKHSA and the Met Office throughout the winter season. This will ensure the earliest possible issuing of CHAs and the maximum possible warning time.

Specific NSWWS will also serve as contributing factors to the level of alert being issued. Table 6 provides more information on the interactions between NSWWS and the impact analysis of the CHAs.

Table 6. Interaction between the CHA and other Met Office NSWWS warnings

<table>
<thead>
<tr>
<th>Impact level</th>
<th>NSWWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Low</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Low</td>
<td>Potential for yellow weather warnings – in the low impact columns – for example snow, ice, wind</td>
</tr>
<tr>
<td>Medium</td>
<td>Potential for yellow or amber weather warnings in place (snow, ice, wind, and so on) within the medium or high impact columns – that is potential for significant and severe impacts or potential for significant flood warnings</td>
</tr>
<tr>
<td>High</td>
<td>Potential for amber weather warnings in place (snow, ice, wind, and so on) within the high impact column – that is potential for severe impacts or potential for red weather warning for snow, ice or wind or any flood warnings indicating significant or severe impacts occurring at the same time and same place</td>
</tr>
</tbody>
</table>
Weather-Health Alert cascade

As was the case with the previous HHA and CHA, it is anticipated that organisations will initiate cascade of alerts within their organisations and to partner organisations as appropriate and as agreed locally. Figure 1 below depicts the typical cascade of HHAs across the system.

Figure 1. Typical cascade of Weather-Health Alerts

Note 1: LHRPs, HWBs and ICPs are strategic and planning bodies, but may wish to be included in local alert cascades.

Note 2: NHS England Regional Teams and ICBs should work collaboratively to ensure that between them they have cascade mechanism for Heat-Health Alerts to all providers of NHS funded services both in business as usual hours and the out of hours period in their area.

Note 3: UKHSA would be expected to liaise with directors of public health to offer support, but formal alerting would be expected through usual local authorities channels.
Accessible text equivalent for Figure 1. Typical cascade of Weather-Health Alerts

UKHSA and the Met Office Weather-Health Alert is issued and cascaded to:

- the public via news and social media
- the Cabinet Office, the Department of Health and Social Care (DHSC) and other government departments and agencies
- NHS England
- UKHSA and regional teams
- local authorities, including the directors of public health, LFRs and local health resilience partnerships (LHRPs)

The Cabinet Office, DHSC and other government departments and agencies cascade the alert to:

- the government summer or winter resilience network
- prisons

The NHS England national team cascades the alert to NHS England regional teams. The NHS England regional teams then cascade the alert to the Integrated Care Boards (ICBs). The ICBs and local authorities work closely within the Integrated Care Partnerships (ICPs). ICBs cascade the alert to the NHS-funded organisations.

Further points to note on this cascade are that UKHSA would be expected to liaise with directors of public health to offer support, but formal alerting would be expected through usual local authority channels.

Local Health Resilience Partnerships, Health and Wellbeing Boards, Integrated Care Partnerships are strategic and planning bodies, but may wish to be included in local alert cascades.

NHS England regional teams and ICBs should work collaboratively to ensure that between them they have a cascade mechanism for weather and health alerts to all providers of NHS funded services both in business as usual hours and the out of hours period in their areas.

Local authorities, including the directors of public health, LRFs, LHRPs cascade the alert to:

- health and wellbeing boards (HWBs)
- social services
- day care centres
- residential homes and children’s homes
- winter warmth advice services
- community and voluntary organisations
Alerting colours and risk matrix

In line with other weather warning systems in operation within England (and the UK), warnings will be issued when the weather conditions have the potential to impact the health and wellbeing of the population.

The alerts will be given a colour (yellow, amber or red) based on the combination of the impact the weather conditions could have, and the likelihood of those impacts being realised. These assessments are made in conjunction with the Met Office when adverse weather conditions are indicated within the forecast.

Yellow and amber alert assessments cover a range of potential impacts (including impacts on specific vulnerable groups (for example people sleeping rough) through to wider impacts on the general population) as well as the likelihood (low to high) of those impacts occurring. This additional information should aid making decisions about the appropriate level of response during an alert period. Within the alert that is issued, the combination of impact and likelihood will be displayed within a risk matrix as illustrated in Figure 2.

Once the decision is made to issue an alert (yellow, amber, or red), these will be cascaded to those registered to receive the alerts and made available on the new dedicated web platform. Alerts will be issued with as much lead time to the event as is possible to allow users time to make their local assessments and to initiate all appropriate actions to reduce harm to health.

Users should review every alert when issued to ensure they fully understand the potential impacts and how likely they are to occur.

Figure 2. Impact and likelihood risk matrix

![Risk Matrix Diagram]
Green (summer or winter preparedness)

No alert will be issued as the conditions are likely to have minimal impact and health. However, during periods where the risk is minimal it is important that organisations ensure that they have plans in place and are prepared to respond should an alert (yellow, amber or red) be issued.

The AWHP HHA and CHA action cards provide information on the strategic year-round actions to address health risks from heat and suggested summer preparedness actions.

Yellow (response)

These alerts cover a range of situations. Yellow alerts may be issued during periods of heat in which it would be unlikely to impact most people, however those who are particularly vulnerable (for example the elderly with multiple health conditions and on multiple medications) are likely to struggle to cope, and where action is required within the health and social care sector specifically. A yellow alert may also be issued if the confidence in the weather forecast is low, but there could be more significant impacts if the worst-case scenario is realised. In this situation the alert may be upgraded as the confidence in both the weather forecast and the likelihood of observing those impacts improves.

Amber (enhanced response)

An amber alert would represent a situation in which the expected impacts are likely to be felt across the whole health service, with potential for the whole population to be at risk and where other sectors apart from health may also start to observe impacts, indicating that a coordinated response is required. In addition, in some circumstances a NSWWS warning may be issued in conjunction with and aligned to the WHA. This situation would indicate that significant impacts are expected across multiple sectors.

Red (emergency response)

A red alert would indicate significant risk to life for even the healthy population. A red health alert would likely be issued in conjunction with a similar appropriate red NSWWS warning, noting that the NSWWS warning also focusses on infrastructure impacts and may have slightly different coverage. Several impacts would be expected across all sectors with a coordinated response essential.
How to access Weather-Health Alerts

WHAs will be issued by UKHSA in partnership with the Met Office, and users will need to register for this new alerting system where they will be able to specify the government region they wish to receive alerts for. A new dedicated WHA service web platform has also been developed in which the current alert status is publicly available on Weather-Health Alerts.

UKHSA has also developed the AWHP action cards containing a list of potential actions that organisations and responders should consider that are aligned with the new alerting structure, such as yellow and red alerts.

Additional information and resources

Action cards

Table 7. Summary of the available action cards that support the WHA

<table>
<thead>
<tr>
<th></th>
<th>Heat-Health Alerts</th>
<th>Cold-Health Alerts</th>
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<tbody>
<tr>
<td>Commissioners</td>
<td>This HHA is intended for commissioners of health or social care (for example commissioners of health and social care services, local authorities, directors of public health, integrated care systems (ICS)).</td>
<td>This CHA is intended for commissioners of health or social care (for example commissioners of health and social care services, local authorities, directors of public health, ICS).</td>
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<tr>
<td>Health and social care providers</td>
<td>This HHA is intended for providers of health or social care (for example GPs, primary and community healthcare, hospitals, adult social care, children’s social care).</td>
<td>The CHA is intended for managers and staff working in the following settings: hospitals, adult or children’s social care providers in care homes and other residential settings, health and/or social care providers in the community operating from fixed sites such as GP surgeries, services delivering care to people in their homes.</td>
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<tr>
<td>Voluntary and community sector (VCS)</td>
<td>Heat-Health Alerts</td>
<td>Cold-Health Alerts</td>
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<tr>
<td></td>
<td>This HHA is intended for the VCS.</td>
<td>The CHA is intended for VCS organisations, covering a wide variety of organisations, including emergency response, campaigners, representative groups, community centres, parish councils, neighbourhood forums and other organisations (focusing on particular conditions, types of service provision, specific client groups or communities).</td>
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</tbody>
</table>

Other relevant links

- Adverse Weather and Health Plan
- Adverse Weather and Health Plan: Supporting Evidence
- Cold weather and health guidance
- Hot weather and health guidance and advice
- Met Office NSWWS
- Met Office Weather Forecasts
- WeatherReady
Appendix 1: Impact-based alerting

Users of the HHA and CWA systems have consistently requested that the alert systems move from an old approach based on probability of temperatures occurring to an impact-based alerting system. This will bring both the HHA system and CWA system in line with other weather hazard warning systems in operation in England, namely the NSWWS operated by the Met Office and the Flood Forecasting Centre’s Flood Guidance Statement.

Definition

Impact-based alerting provides users with information beyond just the hazard and gives an indication of the impacts likely to be observed as a result of the weather. Impact-based alerting allows users to understand the likely impacts and make informed decisions about actions they should take.

Advantages

The main advantage of the move from threshold-based approaches as previously used for the Heat-Health and Cold Weather alerts to impact-based alerts, is that it allows users to better understand the potential impacts to health, services, and infrastructure because of the weather. This knowledge can then be used to inform local risk assessment and ultimately guide appropriate allocation of resources during response.
## Appendix 2: Regions for regional and local planning LRF

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<tr>
<th>NHS England region</th>
<th>NSWWS region</th>
<th>Local Resilience Forum</th>
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About the UK Health Security Agency

UKHSA is responsible for protecting every member of every community from the impact of infectious diseases, weather, chemical, biological, radiological and nuclear incidents and other health threats. We provide intellectual, scientific and operational leadership at national and local level, as well as on the global stage, to make the nation health secure.

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