

# ENVIRONMENTAL HEALTH RESEARCH SCAN

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<p><b><u>AIR QUALITY</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Indoor air</a></li> <li>• <a href="#">Outdoor air</a></li> <li>• <a href="#">Radon, Other</a></li> </ul>	<p><b><u>CLIMATE CHANGE</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Extreme weather</a></li> <li>• <a href="#">Flooding</a></li> <li>• <a href="#">Sea level rise</a></li> <li>• <a href="#">Wildfires, Other</a></li> </ul>	<p><b><u>DISEASES, VECTORS, PESTS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">COVID-19</a></li> <li>• <a href="#">Animal vectors</a></li> <li>• <a href="#">Insect vectors</a></li> <li>• <a href="#">Pests, Other</a></li> </ul>
<p><b><u>FOOD</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Food safety</a></li> <li>• <a href="#">Food security</a></li> <li>• <a href="#">Growing food, Other</a></li> </ul>	<p><b><u>BUILT ENVIRONMENT</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Green &amp; blue spaces</a></li> <li>• <a href="#">Housing</a></li> <li>• <a href="#">Noise</a></li> <li>• <a href="#">Planning &amp; design</a></li> <li>• <a href="#">Transportation, Other</a></li> </ul>	<p><b><u>PUBLIC HEALTH FUNDAMENTALS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Communication</a></li> <li>• <a href="#">Health promotion</a></li> <li>• <a href="#">Health impact assessment</a></li> <li>• <a href="#">Health equity</a></li> <li>• <a href="#">One Health, Other</a></li> </ul>
<p><b><u>WATER</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Drinking water</a></li> <li>• <a href="#">Recreational water</a></li> <li>• <a href="#">Small water systems</a></li> <li>• <a href="#">Wastewater, Other</a></li> </ul>	<p><b><u>NON-CLIMATE RELATED DISASTERS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Earthquakes</a></li> <li>• <a href="#">Marine</a></li> <li>• <a href="#">Terrestrial, Other</a></li> </ul>	<p><b><u>OTHER TOPICS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Cannabis products</a></li> <li>• <a href="#">Tobacco, nicotine products</a></li> <li>• <a href="#">Ionizing, non-ionizing radiation</a></li> <li>• <a href="#">Personal services establishments, Other</a></li> </ul>
<p><b><u>SPECIFIC POPULATIONS</u></b> (<a href="#">children</a>, <a href="#">Indigenous Peoples</a>, <a href="#">older adults</a>, <a href="#">other</a>)</p>		

*Environmental Health (EH) Research Scan: Aims and Scope*

NCCEH's EH Research Scan aims to expand awareness of topics in environmental health, in line with [NCCEH's vision](#) to be the indispensable online resource for environmental health practitioners and policy-makers across Canada. This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases. Not all links are open access; some are abstract links where paid journal subscription is required.

## EDITOR PICKS

Exploring the relationship between medications and heat-related community deaths during the 2021 heat dome: a hybrid approach using machine learning [journal article].

Jeremie Boudreault, Kathleen E McLean, and Sarah B Henderson

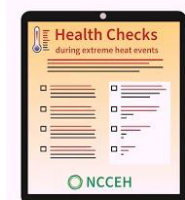
*“The results add to the existing evidence on pharmaceutical risks during Extreme Heat Events (EHEs) and provide new avenues for further research. They can be used to ...”*



Staying safe in extreme heat: a quick guide to health checks [video].

National Collaborating Centre for Environmental Health

*“We prepared this animated video on health checks during extreme heat to accompany our [heat health check tool](#), which is available in English, French, Chinese (Traditional and Simplified) and Punjabi.”*



Heat alert and response systems in Canada: a check-up on preparedness [webinar recording]. June 26, 2025 (12:00-1:00 PST)

Rebecca Goulding, Environmental Health and Knowledge Translation Scientist, NCCCH; Melissa Gorman, Senior Heat Action Lead, Climate Change and Health, Health Canada

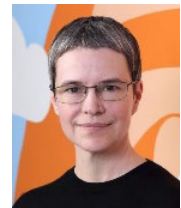
*This presentation highlighted the reported barriers to advancing Heat Alert and Response Systems (HARS), including limited resources, unclear roles and...*



My ongoing love affair with portable air cleaners [blog].

Sarah B Henderson, Scientific Director, Environmental Health Services, BCCDC & NCCCH

*“Last week the NCCCH and NCC for Methods and Tools (NCCMT) jointly published [a new systematic review](#) on the effectiveness of PACs for reducing indoor air pollution and improving indicators of health impacts. This work ...”*



The synergistic effects of PM<sub>2.5</sub> and high temperature on community mortality in British Columbia [journal article].

Eric Coker, Senior Scientist, Environmental Health Services, BCCDC, and co-authors

*“Our findings highlight the urgent need to understand and address the compounding effects of PM<sub>2.5</sub> and temperature to mitigate risks in a changing climate.”*



Extreme heat and wildfire smoke is a risky combination, new study finds.

Jessical Werb, University of British Columbia Magazine



## EDITOR PICKS

### Wildfire smoke: 5 health tips from UBC professor Sarah Henderson.

Jessica Werb, Beyond: University of British Columbia

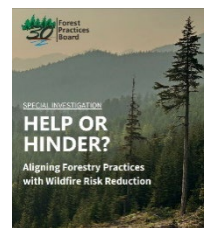
*There's a lot you can do to protect your health when it's smoky outside, Dr. Henderson explains in the video above. Paying attention to indoor air quality is key, as well as understanding who is most at risk.*



### Help or hinder. Aligning forestry practices with wildfire risk reduction.

British Columbia Forest Practices Board

*"This special investigation examines how regulated forestry activities help or hinder wildfire risk reduction (WRR) in the wildland-urban interface. While progress is evident, persistent challenges remain in fire hazard assessments, fire abatement practices and integration with broader WRR efforts."*



### Too hot to think small. The case for a right to cool in British Columbia [report].

Centre for Climate Justice, University of British Columbia

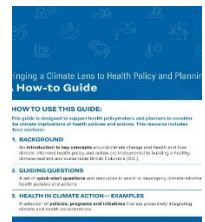
*"Drawing on the lived experiences of renters, seniors, migrant workers, disabled people, and low-income communities, this report calls for more than technical fixes or temporary programmes. It offers a holistic framework for heat governance rooted..."*



### Bringing a climate lens to health policy and planning: a how-to guide.

British Columbia Ministry of Health

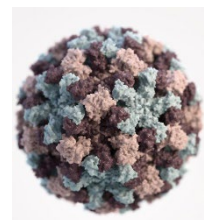
*"This guide is designed to support health policymakers and planners to consider the climate implications of health policies and actions. This resource includes three sections: background, guiding questions, and health in climate action - examples."*



### Norovirus [subject guide].

National Collaborating Centre for Environmental Health

*The resources listed here are intended to assist public health practitioners, food handlers, and health care providers to 1) quickly access resources on norovirus; 2) provide guidance on dealing with outbreaks in closed communities; and 3) highlight the wide range of norovirus resources.*



### Failing the future: extreme heat in schools and child-care settings.

Canadian Environmental Law Association

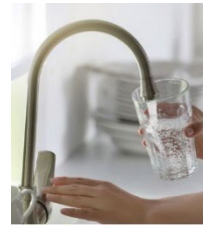


## EDITOR PICKS

Cyanobacterial toxins in drinking water.

Ontario Agency for Health Protection and Promotion (Public Health Ontario)

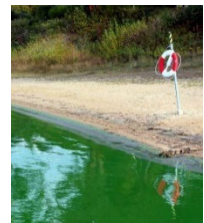
*Evidence related to human health risks following cyanobacteria exposure in drinking water are discussed.*



Cyanobacterial toxins in recreational water.

Ontario Agency for Health Protection and Promotion (Public Health Ontario)

*Evidence related to human health risks following cyanobacteria exposure in recreational water are discussed.*



Review of “The impacts of policies controlling the spatial availability of take-away alcohol on consumption and harms: a systematic narrative review”.

Ontario Agency for Health Protection and Promotion (Public Health Ontario)

*Overall, this systematic review showed evidence on the impacts of spatial availability of take-away alcohol on consumption and alcohol-related harms is largely mixed. The body of evidence suggested there are many context-specific factors, such as outlet type, geography, co-occurring alcohol policies and interventions in the study settings that can affect the success of spatial availability policies.*



NCCEH eNews (Jun 2025): Indoor air filtration during wildfires; more... NCCEH

*This monthly eNews highlights recent environmental health publications and more!*



June 2025 research scan.

National Collaborating Centre for Environmental Health



NCCEH 20<sup>th</sup> Anniversary celebration [video]

*In 2005 the NCCEH was created to bridge the gaps between research and real world...*



NCCEH webinar: AQmap in Action: tracking wildfire smoke in real time for cleaner air decisions. July 16, 2025

Brayden Nilson



## ENVIRONMENTAL HEALTH RESEARCH SCAN

### SELECTED RESOURCES

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10. Werb J. **Wildfire smoke: 5 health tips from UBC professor Sarah Henderson.** Beyond Magazine, University of British Columbia. 2025. Available from: <https://beyond.ubc.ca/>.

## Selected Citations of NCCEH resources

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2. DiGiulio M, Brown C. **Tick-Borne Infections in North America: An Overview.** Nursing Clinics. 2025. Available from: <https://doi.org/10.1016/j.cnur.2024.10.010>.
3. Greif A. **Cold as Ice. Easing into the world of cold plunge.** Costco Connection The magazine for Costco members. 2025:5. Available from: [https://www.costcoconnection.ca/may\\_2025/page5.html](https://www.costcoconnection.ca/may_2025/page5.html).
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## 1. AIR QUALITY

### INDOOR AIR

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#### RADON, OTHER

## 2. FOOD

#### FOOD SAFETY

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