

# 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> (children, <a href="#">Indigenous Peoples</a>, <a href="#">older adults</a>, other)</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

### Storyline of a silent killer: extreme heat and media communication [evidence brief].

Rebecca Goulding, Environmental Health and Knowledge Translation Scientist, NCCEH

*“Media professionals such as journalists, reporters, and editors can play pivotal roles in communicating about the risks of extreme heat events (EHEs). Key considerations for reporting on EHEs and their impacts include....” [more](#)*



### Indoor overheating: a review of vulnerabilities, causes, and strategies to prevent adverse human health outcomes during extreme heat events [journal article].

Sarah Henderson, Scientific Director, Environmental Health Services & NCCEH, and co-authors

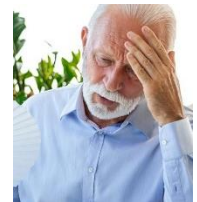
*“In this narrative review, we examine the physiological and behavioral determinants that influence a person’s susceptibility to indoor overheating. Further, we explore...”*



### Preventing indoor overheating [subject guide].

National Collaborating Centre for Environmental Health

*“The resources listed are intended to help environmental public health professionals improve their understanding of infrastructural and behavioural risk factors that contribute to indoor overheating in Canada and the strategies that can mitigate these risks.”*



### Extreme heat [topic page]

National Collaborating Centre for Environmental Health

*This topic page aims to provide a list of curated resources about preparing for and responding to extreme heat events. The first section lists resources directed at individuals, households and communities, while the second section lists resources directed at public health professionals and policy-makers. Lastly, resources on risk communication for extreme heat events are also shared.*



### Wildfires and wildfire smoke [subject guide].

National Collaborating Centre for Environmental Health

*“The resources assembled here are intended to assist public health practitioners, decision -makers, and the public by providing guidance regarding public health impacts, community preparedness, risk communication and response to wildfires and wildfire smoke.”*



## Evacuation during wildfires and public health – results from a pilot study and literature review [webinar].

National Collaborating Centre for Environmental Health

*“The presentation addresses a study and an in-depth literature review aimed at identifying the most critical moments to minimize health impacts during a wildfire evacuation.”*



## Designing sun safety: shade lookbook [webinar].

Breann Corcoran, Susan Herrington

*Climate change is changing the landscape of children’s outdoor play and this presentation will share guiding principles for well designed shade to protect their health and wellbeing. With a focus on important contributions made by natural shade, we will recommend some of the best plants to use in BC as identified by graduate students in UBC’s Landscape Architecture Program for BC Cancer’s Shade Lookbook.*



## Oil spills and health [subject guide].

National Collaborating Centre for Environmental Health

*“The resources presented on this page provide information to understand the potential for the physical and psychosocial impacts of oil spills. We also provide guidance from public health agencies on planning for and responding to oil spills, and resources providing important insight for risk communication during spill events.”*



## Food Safety Community of Practice [online forum].

National Collaborating Centre for Environmental Health

*NCCEH has developed an online [Food Safety Community of Practice](#) to facilitate knowledge sharing and discussions among environmental public health professionals, industry and academic experts, and policymakers.*



## NCCEH eNews (June 2024): Cyanobacteria in recreational freshwaters: Understanding exposures and health effects; more...

National Collaborating Centre for Environmental Health

*This monthly eNews highlights recent environmental health publications, research scans, webinars and other events and resources.*



## June research scan [research scan].

National Collaborating Centre for Environmental Health

*This monthly Research Scan highlights recent environmental health publications by topic and provides easy access to article abstracts and report summaries to support public health professionals, researchers, planners, students, and others working in public health.*



## ENVIRONMENTAL HEALTH RESEARCH SCAN

### SELECTED PUBLICATIONS

1. Goulding R. **Storyline of a silent killer: extreme heat and media communication (evidence brief)**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Jul 12. Available from: <https://ncceh.ca/resources/evidence-briefs/storyline-silent-killer-extreme-heat-and-media-communication>.
2. Kenny GP, Tetzlaff EJ, Journeay WS, Henderson SB, O'Connor FK. **Indoor overheating: a review of vulnerabilities, causes, and strategies to prevent adverse human health outcomes during extreme heat events**. Temperature. 2024. Available from: <https://doi.org/10.1080/23328940.2024.2361223>.
3. National Collaborating Centre for Environmental Health. **June research scan**. Vancouver, BC: NCCEH; 2024 Jun 20. Available from: <https://ncceh.ca/sites/default/files/2024-06/NCCEH%20Research%20Scan%20-202406.pdf>.
4. National Collaborating Centre for Environmental Health. **NCCEH eNews (Jun 2024): Cyanobacteria in recreational freshwaters: Understanding exposures and health effects; more...** Vancouver, BC: NCCEH; 2024 Jun 20. Available from: [https://app.cyberimpact.com/newsletter-view-online?ct=0hywH4eYbehcba1xsignLTWL-ZNHqFD\\_fsNdio1ur9MZTV9s2wxVVGU8og1BMBYfZ4QMj8OoesKp6lLn3icNw~~](https://app.cyberimpact.com/newsletter-view-online?ct=0hywH4eYbehcba1xsignLTWL-ZNHqFD_fsNdio1ur9MZTV9s2wxVVGU8og1BMBYfZ4QMj8OoesKp6lLn3icNw~~).

### 1. AIR QUALITY

#### INDOOR AIR

1. Kenny GP, Tetzlaff EJ, Journeay WS, Henderson SB, O'Connor FK. **Indoor overheating: a review of vulnerabilities, causes, and strategies to prevent adverse human health outcomes during extreme heat events**. Temperature. 2024. Available from: <https://doi.org/10.1080/23328940.2024.2361223>.
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#### OUTDOOR AIR

1. Bevan GH. **All the risk you cannot see: residual risk of airborne PM(2.5) After CABG.** JACC Adv. 2024;3(2):100782. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC11198703/>.
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5. van Seters D, Grebe S, Faber J. **Health impacts of aviation UFP [ultrafine particle] emissions in Europe.** Delft, Netherlands: C E Delft; 2024. Available from: [https://www.transportenvironment.org/uploads/files/CEdelft\\_Final\\_Study.pdf](https://www.transportenvironment.org/uploads/files/CEdelft_Final_Study.pdf).
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#### RADON, OTHER

1. Liu C, Chen J, Zhang W, Ungar K. **Outdoor radon dose rate in Canada's Arctic amid climate change.** Environ Sci Tech. 2024;58(26):11309-19. Available from: <https://doi.org/10.1021/acs.est.4c02723>.

## 2. FOOD

#### FOOD SAFETY

1. Balalian AA, Spill MK, Saha S, Thoenig R, Triverdi R, Davis J, et al. **The association between maternal pb exposure from seafood consumption and child neurodevelopment: a systematic review.** Current Developments in Nutrition. 2024;8. Available from: <https://doi.org/10.1016/j.cdnut.2024.102275>.
2. Canadian Food Inspection Agency. **Food Safety Action Plan report. 2009-2010 Targeted Surveys. Allergen** Ottawa, ON: CFIA; 2024. Available from: [https://publications.gc.ca/collections/collection\\_2024/acia-cfia/A104-504-2010-eng.pdf](https://publications.gc.ca/collections/collection_2024/acia-cfia/A104-504-2010-eng.pdf).

3. Jung J, Young I, Sekercioglu F. **Descriptive analysis of the most common types of food safety infractions at ready-to-eat meat processing plants in Ontario, Canada.** *Int J Environ Health Res.* 2024;34(3):1499-510. Available from: <https://doi.org/10.1080/09603123.2023.2223487>.
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4. National Collaborating Centre for Determinants of Health. **Determining Health: food systems issue brief.** Antigonish, NS: NCCDH, St. Francis Xavier University; 2024. Available from: [https://nccdh.ca/resources/entry/determining-health-food-systems-issue-brief?mc\\_cid=0c73c79799&mc\\_eid=04816d6ac3](https://nccdh.ca/resources/entry/determining-health-food-systems-issue-brief?mc_cid=0c73c79799&mc_eid=04816d6ac3).
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#### GROWING FOOD, OTHER

1. McClaughlin E, Elliott S, Jewitt S, Smallman-Raynor M, Dunham S, Parnell T, et al. **UK flockdown: A survey of smallscale poultry keepers and their understanding of governmental guidance on highly pathogenic avian influenza (HPAI).** Prev Vet Med. 2024;224:106117. Available from: <https://doi.org/10.1016/j.prevetmed.2024.106117>.

### 3. WATER

#### DRINKING WATER

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2. Tremblay-Cantin J-C, Martin L, Proulx M, Priest ND, Larivière D. **Levels of naturally occurring radioisotopes in local and imported bottled drinking water available in Québec City, Canada.** J Environ Radioact. 2024;274:107411. Available from: <https://www.sciencedirect.com/science/article/pii/S0265931X24000432>.

#### RECREATIONAL WATER

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1. Office of the Provincial Health Officer. **Clean, safe, and reliable drinking water. An Update on Drinking Water Protection in BC. 2017/18–2021/22.** Victoria, BC: Government of BC; 2024 Feb. Available from: <https://www2.gov.bc.ca/assets/gov/health/about-bc-s-health-care-system/office-of-the-provincial-health-officer/reports-publications/drinking-water-reports/drinkingwaterreportupdateweb.pdf>.

#### WASTEWATER, OTHER

1. British Columbia Water and Waste Association. **Protecting our communities from backflow contamination: a review of cross connection control programs in British Columbia.** Burnaby, BC: BCWWA; 2024. Available from: <https://bcwwa.org/site/ccp/programs/ccp-report?nav=sidebar>.



## 4. CLIMATE CHANGE

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### FLOODING

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#### WILDFIRES, OTHER

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