

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 10 (7) JULY 2026



<u>AIR QUALITY</u> • Indoor air • Outdoor air • Radon, Other	<u>CLIMATE CHANGE</u> • Extreme weather • Flooding • Sea level rise • Wildfires, Other	<u>DISEASES, VECTORS, PESTS</u> • COVID-19 • Animal vectors • Insect vectors • Pests, Other
<u>FOOD</u> • Food safety • Food security • Growing food, Other	<u>BUILT ENVIRONMENT</u> • Green & blue spaces • Housing • Noise • Planning & design • Transportation, Other	<u>PUBLIC HEALTH FUNDAMENTALS</u> • Communication • Health promotion • Health impact assessment • Health equity • One Health, Other
<u>WATER</u> • Drinking water • Recreational water • Small water systems • Wastewater, Other	<u>NON-CLIMATE RELATED DISASTERS</u> • Earthquakes • Marine • Terrestrial, Other	<u>OTHER TOPICS</u> • Cannabis products • Tobacco, nicotine products • Ionizing, non-ionizing radiation • Personal services establishments, Other
<u>SPECIFIC POPULATIONS</u> (children, Indigenous Peoples, older adults, other)		

Environmental Health (EH) Research Scan: Aims and Scope

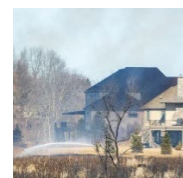
NCCEH's EH Research Scan aims to expand awareness of topics in environmental health, in line with [NCCEH's vision](#) to be the indispensable online resource for environmental health practitioners and policy-makers across Canada. This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

After the wildfire: Indoor smoke residues and cleaning considerations [evidence review].

Ryan D Huff, Environmental Health and Knowledge Translation Scientist, NCCEH

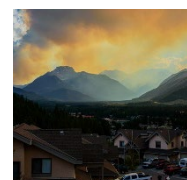
“The aim of this review is to synthesize evidence available from studies examining the deposition, accumulation, persistence, and resuspension of wildfire smoke pollutants in indoor environments, as well as the effectiveness of cleaning and ventilation strategies.”



Wildfire smoke: What is the relationship between outdoor and indoor air pollutants? [evidence review].

Ryan D Huff, Environmental Health and Knowledge Translation Scientist, NCCEH

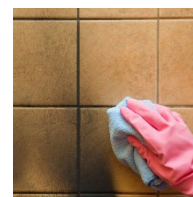
“The aim of this review is to synthesize available evidence on how outdoor smoke affects indoor air quality, with a focus on non-PM pollutants, factors that affect infiltration, and strategies for protecting indoor air quality during smoke events.”



Cleaning up safely after a wildfire: Environmental health considerations during re-entry and cleanup [blog].

Ryan D Huff, Environmental Health and Knowledge Translation Scientist, NCCEH, and Juliette O’Keeffe, Senior Scientist, NCCEH

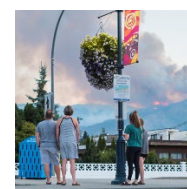
“Whether returning home, reopening a business, or accessing public buildings after a wildfire evacuation, understanding the potential hazards that remain is an important part of a safe return. This blog outlines key environmental health considerations and highlights practical guidance and resources on how to clean up safely.”



Promising practices, lessons, and policy gaps: Advancing responses to air quality from wildfires at the community level [July 28, 2026 webinar].

Adele Cassola, Nicholas Perry

“To understand the range of different approaches, the WORLD Policy Analysis Center (WORLD) at UCLA has carried out a comparative examination of policies across levels -- from municipal to regional to provincial -- including more 150 stakeholders across the Western United States, British Columbia, Canada, and Victoria, Australia...”



How well do buildings protect occupants during wildfire smoke episodes [webinar recording – July 9, 2026].

Ryan D Huff, Environmental Health and Knowledge Translation Scientist, NCCEH

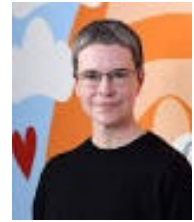
“Since closing windows and doors is a common recommendation, this presentation focuses on the practical effectiveness of this and other strategies such as mechanical ventilation and portable air cleaners, while summarizing how building characteristics, ventilation, and occupant behaviour influence indoor exposure to pollutants.”



The multi-year-counterfactual design: a proposed approach to identifying specific risk factors for extreme heat event mortality using administrative health data [journal article].

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

"...These results highlight how epidemiologic design can affect understanding of population mortality during extreme heat events (EHEs). The proposed multi-year-counterfactual (MYC) approach provides a framework for separating EHE-specific..."



Changes in patient characteristics and patterns of visits to emergency departments during an extreme heat event [journal article]

Naman Paul, Sr Data Scientist, Faculty of Health Sciences, SFU, and co-authors

"This study aims to examine changes in volumes and patterns of emergency department (ED) visits during the extreme heat event."



Extreme heat risk, preparedness, and response [subject guide].

National Collaborating Centre for Environmental Health

"This subject guide aims to provide a list of curated resources about preparing for and responding to extreme heat events...."



Preventing indoor overheating and building community heat resilience [subject guide].

National Collaborating Centre for Environmental Health

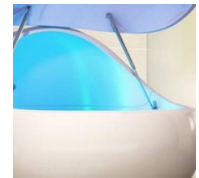
"The resources included are intended to help environmental public health professionals improve their understanding of infrastructural and behavioural risk factors that contribute to indoor overheating in Canada and the strategies that can mitigate these risks..."



Floataction tanks [subject guide].

National Collaborating Centre for Environmental Health

"The resources included are intended to help environmental public health professionals understand key health hazards and safety concerns in float tanks; learn about common disinfection methods to reduce microbiological hazards in float tanks, and identify existing guidance documents and guidelines related to float tanks construction, operation..."



Climate adaptation and Indigenous food safety in Canada: Current approaches and the role of environmental public health [evidence review].

Kelsie Dale, Environmental Health Consultant

"The purpose of this review is to translate analysis of climate strategies and plans into practical context for environmental public health practitioners by highlighting how these documents intersect with environmental public health responsibilities and identifying..."



June research scan [research scan].
National Collaborating Centre for Environmental Health



June e-news. Climate adaptation and Indigenous food safety in Canada:
Current approaches and the role of environmental public health; more.
National Collaborating Centre for Environmental Health



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED PUBLICATIONS

1. Cassola A, Perry N. **Promising practices, lessons, and policy gaps: Advancing responses to air quality from wildfires at the community level [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2026 Jul 28, 12-1 PST. Available from: <https://ncceh.ca/events/upcoming-webinars/promising-practices-lessons-and-policy-gaps-advancing-responses-air>.
2. Dale K. **Climate adaptation and Indigenous food safety in Canada: Current approaches and the role of environmental public health [evidence review]**. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2026 Jun. Available from: <https://ncceh.ca/resources/evidence-reviews/climate-adaptation-and-indigenous-food-safety-canada-current-approaches>.
3. Huff RD. **After the wildfire: Indoor smoke residues and cleaning considerations [evidence review]**. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2026 Jun. Available from: <https://ncceh.ca/resources/evidence-reviews/after-wildfire-indoor-smoke-residues-and-cleaning-considerations>.
4. Huff RD. **How well do buildings protect occupants during wildfire smoke episodes [webinar recording]**. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2026 Jul 9. Available from: <https://ncceh.ca/events/upcoming-webinars/how-well-do-buildings-protect-occupants-during-wildfire-smoke-episodes>.
5. Huff RD, O'Keefe J. **Cleaning up safely after a wildfire: Environmental health considerations during re-entry and cleanup [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2026 Jul 9. Available from: <https://ncceh.ca/resources/blog/cleaning-safely-after-wildfire-environmental-health-considerations-during-re-entry>.
6. Lee MJ, McLean KE, Xie M, Henderson SB. **The multi-year-counterfactual design: a proposed approach to identifying specific risk factors for extreme heat event mortality using administrative health data**. Environmental Research: Health. 2026;4(2):025022. Available from: <https://doi.org/10.1088/2752-5309/ae6f40>.

7. National Collaborating Centre for Environmental Health. **June research scan**. Vancouver, BC: NCCEH; 2026 May. Available from: <https://ncceh.ca/sites/default/files/2026-06/NCCEH%20Research%20Scan%20-202606.pdf>.
8. National Collaborating Centre for Environmental Health. **NCCEH eNews (June 2026): Climate adaptation and Indigenous food safety in Canada: Current approaches and the role of environmental public health; more**. Vancouver, BC: NCCEH; 2026 Jun. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=U_WeSetms8ZYjI9mHiAHmYA4SLB0WZK9Sdbf-EB-MqU60aTQncRoc85Dnv59Gyp_YIB50L66jblZjnPCbmVdDbtpQ34ccStEiSZPdQ9daDa3wl06grO40s0oumlrzZEw.
9. National Collaborating Centre for Environmental Health. **Floatation tanks [subject guide]**. Vancouver, BC: NCCEH; 2026 Jul. Available from: <https://ncceh.ca/resources/subject-guides/floatation-tanks>.
10. National Collaborating Centre for Environmental Health. **Extreme heat preparedness and response [subject guide]**. Vancouver, BC: NCCEH; 2026 Jul. Available from: <https://ncceh.ca/resources/subject-guides/extreme-heat>.
11. National Collaborating Centre for Environmental Health. **Preventing indoor overheating and building community heat resilience [subject guide]**. Vancouver, BC: NCCEH; 2026 Jul. Available from: <https://ncceh.ca/resources/subject-guides/preventing-indoor-overheating>.
12. Paul N, Henderson SB, Stranberg R, Hohl CM, Coker ES, Yao J. **Changes in patient characteristics and patterns of visits to emergency departments during an extreme heat event**. Environmental Research: Health. 2026;4(2):025009. Available from: <https://doi.org/10.1088/2752-5309/ae5fc4>.

1. AIR QUALITY

INDOOR AIR

1. Baguley DA, Evans GS, Bard D, Monks PS, Cordell RL. **Review of volatile organic compound (VOC) emissions from desktop 3D printers and associated health implications**. J Expo Sci Environ Epidemiol. 2026;36(1):149-66. Available from: <https://doi.org/10.1038/s41370-025-00778-y>.
2. Berardi V, Collins BN, Glynn LM, Silfanus EK, Lyons DG, Lepore SJ. **Using In-Home Air Quality Monitoring to Reduce Cannabis Secondhand Smoke Exposure in Children: Quantitative Pilot Feasibility Study**. JMIR Form Res. 2026;10:e89820. Available from: <https://doi.org/10.2196/89820>.
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<https://www.canada.ca/content/dam/hc-sc/documents/services/publications/healthy-living/guidance-upper-indoor-temperature-limits-protecting-older-adults/guidance-upper-indoor-temperature-limits-protecting-older-adults.pdf>.

5. National Collaborating Centre for Environmental Health. **Preventing indoor overheating and building community heat resilience [subject guide]**. Vancouver, BC: NCCEH; 2026 Jul. Available from: <https://ncceh.ca/resources/subject-guides/preventing-indoor-overheating>.
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3. IQ Air. **How European heat waves impact air pollution**. Steinach, Switzerland: IQ Air; 2026 Jul 8. Available from: <https://www.iqair.com/newsroom/how-european-heat-waves-impact-air-pollution?shem=dsdf,sharefoc,agadiscoverdli,,sh/x/discover/m1/4>.
4. Khreis H, Williams M, Lad C, Fevry D, Laverty AA, Jinks D, et al. **The modelled impact of low traffic neighbourhoods (LTNs) on air pollution: findings from 5 schemes in London**. Environ Res. 2026;306:125093. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935126014246>.
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RADON, OTHER

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2. FOOD

FOOD SAFETY

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FOOD SECURITY

1. Baharuddin AS, Mohd Ghazali MI. **Chapter Ten - 3D printed foods for the future: Integrating halal standards, environmental sustainability, social benefit, and economic efficiency.** In: Hussain CM, Ekren BY, editors. 3D Printing of Food Products for Sustainability: Academic Press; 2026. p. 283-99. Available from: <https://www.sciencedirect.com/science/article/pii/B9780443339165000096>.
2. Di Martino M, Shadomy S, Topazio D, LeJeune JT. **Building resilient food safety systems through a One Health approach to prepare for the next pandemic.** Science of Food. 2026;10(1):209. Available from: <https://doi.org/10.1038/s41538-026-00798-4>.
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GROWING FOOD, OTHER

1. Ajermoun N, El Haddioui L, Berd A, Laghrib F, Farahi A, Lahrich S, et al. **Environmental and human health impacts of neonicotinoid insecticides: A review.** Pedosphere. 2026;36(1):165-85. Available from: <https://www.sciencedirect.com/science/article/pii/S1002016025000694>.
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3. WATER

DRINKING WATER

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