

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 8 (2) FEBRUARY 2024



<p><u>AIR QUALITY</u></p> <ul style="list-style-type: none"> • Indoor air • Outdoor air • Radon, Other 	<p><u>CLIMATE CHANGE</u></p> <ul style="list-style-type: none"> • Extreme weather • Flooding • Sea level rise • Wildfires, Other 	<p><u>DISEASES, VECTORS, PESTS</u></p> <ul style="list-style-type: none"> • COVID-19 • Animal vectors • Insect vectors • Pests, Other
<p><u>FOOD</u></p> <ul style="list-style-type: none"> • Food safety • Food security • Growing food, Other 	<p><u>BUILT ENVIRONMENT</u></p> <ul style="list-style-type: none"> • Green & blue spaces • Housing • Noise • Planning & design • Transportation, Other 	<p><u>PUBLIC HEALTH FUNDAMENTALS</u></p> <ul style="list-style-type: none"> • Communication • Health promotion • Health impact assessment • Health equity • One Health, Other
<p><u>WATER</u></p> <ul style="list-style-type: none"> • Drinking water • Recreational water • Small water systems • Wastewater, Other 	<p><u>NON-CLIMATE RELATED DISASTERS</u></p> <ul style="list-style-type: none"> • Marine • Terrestrial, Other • Emergencies-general 	<p><u>OTHER TOPICS</u></p> <ul style="list-style-type: none"> • Cannabis products • Tobacco, nicotine products • Ionizing, non-ionizing radiation • Personal services establishments, Other
<p><u>SPECIFIC POPULATIONS</u> (children, Indigenous Peoples, older adults, 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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

Monitoring temperature variability inside a healthcare facility during an extreme heat event using low-cost sensors [journal article].

Sarah B Henderson, Scientific Director, Environmental Health Services, BCCDC and the National Collaborating Centre for Environmental Health (NCCEH), and co-authors

“Our findings illustrate the benefits of actively monitoring temperatures throughout healthcare facilities to understand heat exposure in different areas. We explore how this information can help healthcare providers make real-time decisions to protect.”



Using low-cost air quality sensors to estimate wildfire smoke infiltration into childcare facilities in British Columbia, Canada [journal article].

Michael Lee, Epidemiologist, Environmental Health Services, BCCDC, and co-authors

“We found that indoor PM_{2.5} in childcare facilities increased with outdoor PM_{2.5}. This effect varied between facilities and between wildfire-smoke and non-wildfire smoke days. These findings highlight the importance of air quality monitoring at childcare facilities for informed decision-making.”



Extreme cold [subject guide].

National Collaborating Centre for Environmental Health

“The resources listed are intended to assist environmental public health professionals with the management of extreme cold events, including health and safety precautions to take during cold weather, and considerations for issuing extreme cold alerts.”



The importance of collaborative foodborne illness outbreak investigations [blog].

Ken Diplock

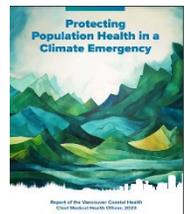
“This blog delves into the importance of collaborative approaches adopted in Canada for FBI outbreak investigations, the potential of Whole Genome Sequencing (WGS) to permit earlier detection and enhanced clarity of linkages and source attribution in FBI outbreak investigations, and the pivotal role of Environmental Public Health Professionals (EPHP) as well as the current challenges related to FBI outbreak investigations.”



Protecting population health in a climate emergency. VCH Chief Medical Health Officer Report 2023.

Vancouver Coastal Health

“This report brings together multiple sources of data and analyses to describe the impacts of climate change on population health in the Vancouver Coastal Health (VCH) region.”



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED RESOURCES

1. Dickson JM, Lee MJ, Jones K, Ebrahimi G, Henderson SB. **Monitoring temperature variability inside a healthcare facility during an extreme heat event using low-cost sensors.** Journal of Hospital Management and Health Policy. 2023;7. Available from: <https://jhmhp.amegroups.org/article/view/8312>.
2. Lee MJ, Dickson JM, Greif O, Ho W, Henderson SB, Mallach G, Coker ES. **Using low-cost air quality sensors to estimate wildfire smoke infiltration into childcare facilities in British Columbia, Canada.** Environmental Research: Health. 2024;2(2):025002. Available from: <https://dx.doi.org/10.1088/2752-5309/ad1fd6>.
3. National Collaborating Center for Environmental Health. **Extreme cold [subject guide].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Jan 11. Available from: <https://ncceh.ca/resources/subject-guides/extreme-cold>.
4. Diplock K. **The importance of collaborative foodborne illness outbreak investigations [blog].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Feb 16. Available from: <https://ncceh.ca/resources/blog/importance-collaborative-foodborne-illness-outbreak-investigations>.
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8. Winters M, Barr V, Chow L. **Practices and inspiration for sustainable transportation equity: Case studies from Canadian cities [healthy built environment webinar].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Feb 15. Available from: <https://ncceh.ca/events/upcoming-webinars/practices-and-inspiration-sustainable-transportation-equity-case-studies>.

1. AIR QUALITY

INDOOR AIR

1. Dickson JM, Lee MJ, Jones K, Ebrahimi G, Henderson SB. **Monitoring temperature variability inside a healthcare facility during an extreme heat event using low-cost sensors.** Journal of Hospital Management and Health Policy. 2023 12 30;7. Available from: <https://jhmhp.amegroups.org/article/view/8312>.
2. Lee MJ, Dickson JM, Greif O, Ho W, Henderson SB, Mallach G, Coker ES. **Using low-cost air quality sensors to estimate wildfire smoke infiltration into childcare facilities in British Columbia, Canada.** Environmental Research: Health. 2024;2(2):025002. Available from: <https://dx.doi.org/10.1088/2752-5309/ad1fd6>.
3. National Academies of Sciences Engineering aM. **Health Risks of Indoor Exposure to Fine Particulate Matter and Practical Mitigation Solutions.** Washington, DC: National Academies Press; 2024 Jan. Available from: <https://nap.nationalacademies.org/catalog/27341/health-risks-of-indoor-exposure-to-fine-particulate-matter-and-practical-mitigation-solutions>.

OUTDOOR AIR

1. Mazumder H, Rimu FH, Shimul MH, Das J, Gain EP, Liaw W, Hossain MM. **Maternal health outcomes associated with ambient air pollution: An umbrella review of systematic reviews and meta-analyses.** Sci Total Environ. 2024;914:169792. Available from: <https://www.sciencedirect.com/science/article/pii/S004896972308422X>.
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RADON, OTHER

2. FOOD

FOOD SAFETY

1. Chapman B. **Integrating emergent data in decision-making tools characterizing foodborne antimicrobial resistance in Canada**: University of Guelph; 2024. Available from: <https://atrium.lib.uoguelph.ca/items/8c60922d-daa7-4dc4-b079-19c211b09d73>.
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FOOD SECURITY

1. Chai L. **Food insecurity and its association with multiple health outcomes among Indigenous peoples in Canada: the buffering role of culture-based resources**. Ethn Health. 2024:1-24. Available from: <https://doi.org/10.1080/13557858.2024.2311419>.
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GROWING FOOD, OTHER

1. Vaillancourt C, Ahmed M, Kirk S, Labonté M-È, Laar A, Mah CL, et al. **Food environment research in Canada: a rapid review of methodologies and measures deployed between 2010 and 2021.** Int J Behav Nutr Phys Act. 2024;21(1):18. Available from: <https://doi.org/10.1186/s12966-024-01558-x>.

3. WATER

DRINKING WATER

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RECREATIONAL WATER

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SMALL WATER SYSTEMS

1. Dao PU, Heuzard AG, Le TXH, Zhao J, Yin R, Shang C, Fan C. **The impacts of climate change on groundwater quality: A review.** *Sci Total Environ.* 2024;912:169241. Available from: <https://doi.org/10.1016/j.scitotenv.2023.169241>.
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WASTEWATER, OTHER

4. CLIMATE CHANGE

EXTREME WEATHER

1. Aon. **Climate and Catastrophe Insight.** Aon; 2024 Feb. Available from: <https://policycommons.net/artifacts/11320800/climate-and-catastrophe-insights-report/>.
2. Armstrong H, Ortner CNM. **Climate Change and Emotion Regulation: How Distraction, Worrying, and Positive Reappraisal Influence Climate-Mitigating Actions.** *PsyArXiv.* 2024. Available from: <https://osf.io/preprints/psyarxiv/e2jft>.
3. Atkin K, Christopoulos G, Turk R, Bernhardt JM, Simmonds K. **Educating Pregnant Women About the Dangers of Extreme Heat and Air Pollution.** *Journal of Obstetric, Gynecologic & Neonatal Nursing.* 2024. Available from: <https://www.sciencedirect.com/science/article/pii/S0884217524000078>.
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FLOODING

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SEA LEVEL RISE

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WILDFIRES, OTHER

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