

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 8 (8) AUGUST 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"> • Earthquakes • Marine • Terrestrial, Other 	<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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

The health impacts of drought in Canada [subject guide].

National Collaborating Centre for Environmental Health

“The resources presented provide information for monitoring and forecasting drought across Canada, as well as the connection between drought and human health. Finally, adaptation strategies for drought are also highlighted.”



Scoping the public health response to drought [webinar].

Angela Eykelbosh, Nancy Clements

“This webinar will share some of the work underway at Island Health to both understand the broad scope of drought impacts on public health and the ways in which public health practice could expand or adapt to meet the needs of future populations.”



Food security and climate change impacts in Indigenous communities in British Columbia [blog].

Janelle Hatch, Raihan Hassen

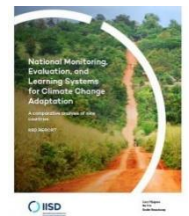
“A notable outcome of this project is that the stories and “what we heard” are being shared through both a [report](#), and a [website](#) with longer stories from six of the communities engaged in the project. The stories emphasize culture and connection...”



National monitoring, evaluation, and learning systems for climate change adaptation. A comparative analysis of nine countries [report].

International Institute for Sustainable Development

“...This report explores how nine countries are advancing climate adaptation through innovative monitoring, evaluation, and learning (MEL) systems. This report compares the unique approaches of Canada, France, Kenya, Namibia, Peru, Somalia, Tonga, the United Kingdom, and Vietnam, shedding light on their progress, challenges, and the integration of gender equality and social inclusion (GESI) considerations.”

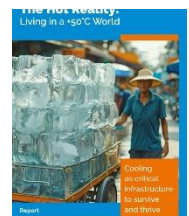


Hot reality: Living in a +50°C world. Cooling as critical infrastructure to survive and thrive [full report].

Fox T, Peters T, Sayin L.

“This report makes several key recommendations for policy makers including:

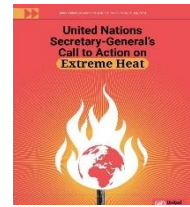
- *Treating cooling systems as essential to national resilience and planning;*
- *Creating policies that promote fair and equitable cooling solutions...” more*



United Nations Secretary-General's calls to action on extreme heat [report].

United Nations Secretary-General's Climate Action Team

"[...] there are opportunities to reduce extreme heat risk, and actions and tools at our disposal to save lives and significantly limit the impacts of extreme heat...." more



Moving towards surveillance of climate change health impacts

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

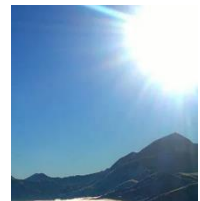
"This report aimed to identify resources that could contribute to the development of practical and standardized surveillance approaches and activities for the human health effects of climate change, which might be readily applied or adapted to the Ontario context."



Statement from the Chief Public Health Officer of Canada: Wildfires and extreme heat risks to Canadians

Public Health Agency of Canada

"Emergencies caused by severe weather are becoming more frequent and complex, both here in Canada and around the world.[...] These extreme weather events can..."



Climate change and wildfires [fact sheet]

Canadian Climate Institute

"Accelerating climate change, largely from the burning of fossil fuels, makes wildfires bigger, hotter, and more frequent..."



Research on DIY air cleaners to reduce wildfire smoke indoors

US Environmental Protection Agency

"Do-It-Yourself (DIY) air cleaners, made with a box fan and MERV 13 air filter, are a cost-effective method for reducing smoke concentrations. Only use..."



Compendium of WHO and other UN guidance in health and environment, 2024 update

World Health Organization

"The Compendium is a comprehensive collection of available WHO and other UN guidance for improving health by creating healthier environments. It provides an overview and easy access of more than 500 actions..."



NCCEH eNews (July 2024): Storyline of a silent killer: extreme heat and media communication; more...

National Collaborating Centre for Environmental Health



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

July 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 RESOURCES

1. Hatch J, Hassen R. **Food security and climate change impacts in remote and Indigenous communities in British Columbia.** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Aug 14. Available from: <https://ncceh.ca/resources/blog/food-security-and-climate-change-impacts-remote-and-indigenous-communities-british>.
2. Henderson SB, Wagstaff M, Hong K, Paul N, Brauer M. **It takes a village: Big data and community science to support local action on residential woodsmoke.** ISEE Conference Abstracts. 2024;2024(1). Available from: <https://ehp.niehs.nih.gov/doi/abs/10.1289/isee.2024.1895>.
3. Hertelendy AJ, Howard C, Sorensen C, Ranse J, Eboreime E, Henderson S, et al. **Seasons of smoke and fire: preparing health systems for improved performance before, during, and after wildfires.** Lancet Planetary Health. 2024;8(8):e588-e602. Available from: [https://doi.org/10.1016/S2542-5196\(24\)00144-X](https://doi.org/10.1016/S2542-5196(24)00144-X).
4. McLean KE, Lee MJ, Coker ES, Henderson SB. **A population-based case-control analysis of risk factors associated with mortality during the 2021 western North American heat dome: focus on chronic conditions and social vulnerability.** Environ Res: Health. 2024;2(3):035010. Available from: <https://dx.doi.org/10.1088/2752-5309/ad5eac>.
5. National Collaborating Center for Environmental Health. **Oil spills and health [subject guide].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Jul 17. Available from: <https://ncceh.ca/resources/subject-guides/oil-spills-and-health>.
6. National Collaborating Centre for Environmental Health. **July research scan.** Vancouver, BC: NCCEH; 2024 Jul 25. Available from: <https://ncceh.ca/sites/default/files/2024-07/NCCEH%20Research%20Scan%20-202407.pdf>.
7. National Collaborating Centre for Environmental Health. **NCCEH eNews (Jun 2024): Storyline of a silent killer: extreme heat and media communication; more...** Vancouver, BC: NCCEH; 2024 Jul

25. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=EYDnSdFAs5WG99V4mzC8_hh4dVmeI0FppEJX1vigoVwZ1NgvnnQch2npK3LrUB6aKvgVMWMOqj61xLNRbZKFwLzAwgNx3vzC6bx4jQ0iiqA31Kcdc3gpnta47ZEEdbbe.
8. National Collaborating Centre for Environmental Health. **The health impacts of drought in Canada - updated [subject guide]**. Vancouver, BC: NCCEH; 2024 Aug. Available from: <https://ncceh.ca/resources/subject-guides/health-impacts-drought-canada>.
9. Trieu J, Young C, Nguyen PDM, Nicol A-M, Henderson SB, McVea D. **The BC Radon Data Repository (BCRDR) and BC Radon Map: Integrating disparate data sources for improved public health communication**. Can J Public Health. 2024;115(4):680-7. Available from: <https://doi.org/10.17269/s41997-024-00895-5>.

1. AIR QUALITY

INDOOR AIR

1. Bakirhan EK, Kayılı MT, Babaei P. **Investigation of indoor air quality in painting studios and health risk assessment**. International Journal of Environmental Studies. 2024;1-15. Available from: <https://doi.org/10.1080/00207233.2024.2379115>.
2. Canadian Partnership for Children’s Health & Environment. **A collective call for action to ensure healthy indoor air quality in schools and child care settings**. CPCHE; 2024. Available from: https://healthyenvironmentforkids.ca/wp-content/uploads/2024/04/CTA-24-Healthy-Indoor-Air-Quality-EN-V4-r4_FINAL.pdf.
3. Keating A. **How ASHRAE Standard 241 Controls Infectious Aerosols. School IAQ Standard 241 helps schools go “above and beyond” the ventilation mechanical code**. ACH News. 2024 Aug 2. Available from: <https://www.achrnews.com/articles/154968-how-ashrae-standard-241-controls-infectious-aerosols>
4. Le Provost B, Parent M-É, Villeneuve PJ, Waddingham CM, Brook JR, Lavigne E, et al. **Residential exposure to ambient fine particulate matter (PM_{2.5}) and nitrogen dioxide (NO₂) and incident breast cancer among young women in Ontario, Canada**. Cancer Epidemiol. 2024;92:102606. Available from: <https://www.sciencedirect.com/science/article/pii/S1877782124000857>.
5. Sustainable Buildings Research Centre. **The impact of indoor air quality on the transmission of airborne viral diseases in public buildings**. University of Wollongong Australia: A report prepared for the National Science and Technology Council; 2024. Available from: <https://www.chiefscientist.gov.au/sites/default/files/2024-08/Indoor%20Air%20Quality%20Report%202024.pdf>.
6. Villanueva F, Felgueiras F, Notario A, Cabañas B, Gabriel MF. **Indoor environmental quality and effectiveness of portable air cleaners in reducing levels of airborne particles during schools’ reopening in the COVID-19 pandemic**. Sustainability. 2024;16(15):6549. Available from: <https://www.mdpi.com/2071-1050/16/15/6549>.

OUTDOOR AIR

1. Boogaard H, Crouse DL, Tanner E, Mantus E, van Erp AM, Vedal S, et al. **Assessing adverse health effects of long-term exposure to low levels of ambient air pollution: the HEI experience and what's next?** *Environ Sci Tech.* 2024;58(29):12767-83. Available from: <https://doi.org/10.1021/acs.est.3c09745>.
2. Caron-Beaudoin É, Aker A, McGregor MJ. **What Should the Public Health Policy Response Be to Harmful Exposure to Oil and Gas Development?** *Am J Public Health.* 2024;0(0):e1-e3. Available from: <https://ajph.aphapublications.org/doi/abs/10.2105/AJPH.2024.307797>.
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4. Lloyd M, Olaniyan T, Ganji A, Xu J, Venuta A, Simon L, et al. **Airborne nanoparticle concentrations are associated with increased mortality risk in Canada's two largest cities.** *Am J Respir Crit Care Med.* 2024. Available from: <https://www.atsjournals.org/doi/abs/10.1164/rccm.202311-2013OC>.
5. McBain S, Gunton T, Mathieson C, Kilian M, Dreis M, Dyer S. **All Together Now. A provincial scorecard on shared responsibility to reduce greenhouse gas emissions in Canada.** Calgary, AB: Pembina Institute; 2024 Jul. Available from: <https://www.pembina.org/sites/default/files/2024-07/All%20Together%20Now.pdf>.
6. Vitaliano S, Cascone S, D'Urso PR. **Mitigating built environment air pollution by green systems: an in-depth review.** *Applied Sciences.* 2024;14(15):6487. Available from: <https://www.mdpi.com/2076-3417/14/15/6487>.
7. Yu S, Hu M, Li J, Yan X. **Green workspace and urban health: exploring the impacts of industrial robotics in pollution emissions and public health.** *Front Public Health.* 2024;12. Available from: <https://www.frontiersin.org/journals/public-health/articles/10.3389/fpubh.2024.1445746>.

RADON, OTHER

1. Martínez JE, Juste B, Verdú G. **Study of the filtration efficiency of radon progeny in facial masks.** *Radiation Physics and Chemistry.* 2024;223:111952. Available from: <https://www.sciencedirect.com/science/article/pii/S0969806X24004444>.
2. Ruvira B, García-Fayos B, García-Gimeno B, Arnal JM, Verdú G. **Study of the use of wallpaper to mitigate radon exhalation from building materials in indoor spaces.** *Radiation Physics and Chemistry.* 2024;223:111916. Available from: <https://www.sciencedirect.com/science/article/pii/S0969806X24004080>.
3. Trieu J, Young C, Nguyen PDM, Nicol A-M, Henderson SB, McVea D. **The BC Radon Data Repository (BCRDR) and BC Radon Map: Integrating disparate data sources for improved public health communication.** *Can J Public Health.* 2024;115(4):680-7. Available from: <https://doi.org/10.17269/s41997-024-00895-5>.

2. FOOD

FOOD SAFETY

1. Arora SK. **The unregulated plant-based ‘milk’ industry: A threat to nutrition, health and safety?** International Journal of Dairy Technology. 2024. Available from: <https://onlinelibrary.wiley.com/doi/abs/10.1111/1471-0307.13117>.
2. Bonanno L, Bergis H, Gnanou-Besse N, Asséré A, Danan C. **Which domestic refrigerator temperatures in Europe? - Focus on shelf-life studies regarding Listeria monocytogenes (Lm) in ready-to-eat (RTE) foods.** Food Microbiology. 2024;123:104595. Available from: <https://www.sciencedirect.com/science/article/pii/S0740002024001333>.
3. British Columbia Centre for Disease Control. **British Columbia Foodborne Illness Outbreak Response Protocol. Guide to Multi-Partner Enteric Outbreak Response in British Columbia.** Vancouver, BC: BCCDC; 2024. Available from: http://www.bccdc.ca/resource-gallery/Documents/BC_FIORP_2024.pdf.
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9. Kyrlyenko A, Eijlander RT, Alliney G, de Bos EL-v, Wells-Bennik MHJ. **Levels and types of microbial contaminants in different plant-based ingredients used in dairy alternatives.** Int J Food Microbiol. 2023;407:110392. Available from: <https://www.sciencedirect.com/science/article/pii/S0168160523003082>.

10. McClements DJ, Grossmann L. **Next-Generation Plant-Based Foods: Challenges and Opportunities.** Annual Review of Food Science and Technology. 2024;15(Volume 15, 2024):79-101. Available from: <https://www.annualreviews.org/content/journals/10.1146/annurev-food-072023-034414>.
11. Pavlenko R, Berzina Z, Reinholds I, Bartkiene E, Bartkevics V. **An Occurrence Study of Mycotoxins in Plant-Based Beverages Using Liquid Chromatography–Mass Spectrometry.** Toxins. 2024;16(1):53. Available from: <https://www.mdpi.com/2072-6651/16/1/53>.
12. Suarez DL, Goraichuk IV, Killmaster L, Spackman E, Clausen NJ, Colonius TJ, et al. **Testing of retail cheese, butter, ice cream and other dairy products for highly pathogenic avian influenza in the US.** medRxiv. 2024:2024.08.11.24311811. Available from: <https://www.medrxiv.org/content/medrxiv/early/2024/08/11/2024.08.11.24311811.full.pdf>.
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FOOD SECURITY

1. Hatch J, Hassen R. **Food security and climate change impacts in remote and Indigenous communities in British Columbia.** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Aug 14. Available from: <https://ncceh.ca/resources/blog/food-security-and-climate-change-impacts-remote-and-indigenous-communities-british>.
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GROWING FOOD, OTHER

1. Donley N, Cox C, Bennett K, Temkin AM, Andrews DQ, Naidenko OV. **Forever Pesticides: A Growing Source of PFAS Contamination in the Environment.** Environ Health Perspect. 2024;132(7):075003. Available from: <https://ehp.niehs.nih.gov/doi/abs/10.1289/EHP13954>.

3. WATER

DRINKING WATER

1. Crook B, Young C, Rideout C, Smith D. **The Contribution of Legionella anisa to Legionella Contamination of Water in the Built Environment.** Int J Environ Res Public Health. 2024;21(8):1101. Available from: <https://www.mdpi.com/1660-4601/21/8/1101>.
2. Dolcini J, Chiavarini M, Firmani G, Ponzio E, D'Errico MM, Barbadoro P. **Consumption of Bottled Water and Chronic Diseases: A Nationwide Cross-Sectional Study.** Int J Environ Res Public Health. 2024;21(8):1074. Available from: <https://www.mdpi.com/1660-4601/21/8/1074>.

RECREATIONAL WATER

1. Desta BN, Tustin J, Sanchez JJ, Jardine R, Elton S, Thaivalappil A, et al. **Risk perceptions and behaviours of beachgoers toward recreational water quality in canada: a qualitative study.** ISEE Conference Abstracts. 2024;2024(1). Available from: <https://ehp.niehs.nih.gov/doi/abs/10.1289/isee.2024.1479>.
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SMALL WATER SYSTEMS

1. Hauptert LM, Garcia-Bakarich LM, Sojda N, Schupp DA, Magnuson ML. **Benzene diffusion and partitioning in contaminated drinking water pipes under stagnant conditions.** ACS ES&T water. 2023;3(8):2247-54. Available from: <http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=pnm&NEWS=N&AN=37841341>.
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WASTEWATER, OTHER

1. Samuel DJ, Sermet Y, Cwiertny D, Demir I. **Integrating vision-based AI and large language models for real-time water pollution surveillance.** Water Environment Research. 2024;96(8):e11092. Available from: <https://onlinelibrary.wiley.com/doi/abs/10.1002/wer.11092>.
2. Yatoo AM, Gupta PK, Singh RP, editors. **Integrated waste management. trends, policies, and perspectives.** Boca Raton, FL: CRC Press; 2024. Available from: <https://doi.org/10.1201/9781003359326>.

4. CLIMATE CHANGE

EXTREME WEATHER

1. British Columbia Emergency Health Services. **Extreme weather and harm reduction**. Victoria, BC: BCEHS; 2024 07 01 [updated Jun]; Available from: <https://handbook.bcehs.ca/clinical-resources/toxic-drug-crisis/harm-reduction/extreme-weather-and-harm-reduction/>.
2. Canadian Medical Association Journal. **Insight: How extreme heat in Canada affects health and the health system**. CMAJ. 2024. Available from: <https://www.cma.ca/latest-stories/insight-how-extreme-heat-canada-affects-health-and-health-system>.
3. CBC News. **Climate dashboard**. Toronto, ON: CBC; 2024. Available from: <https://newsinteractives.cbc.ca/features/2023/climate-dashboard/>.
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5. Fox T, Peters T, Sayin L. **The Hot Reality: Living in a +50°C World. Cooling as critical infrastructure to survive and thrive [full report]**. Buckingham, UK: Clean Cooling Network; Centre for Sustainable Cooling; University of Birmingham; 2024 Jul. Available from: <https://assets.cleancooling.org/downloads/CCN-The-Hot-Reality-Full-Report.pdf>.
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10. International Institute for Sustainable Development. **National monitoring, evaluation, and learning systems for climate change adaptation. A comparative analysis of nine countries**. Winnipeg, MB: IISD; 2024. Available from: <https://www.iisd.org/publications/report/monitoring-evaluation-learning-systems-adaptation>.

11. Liu Z, Ma Y, Zhao Y, Wang W, Qin P, Yang J, et al. **Health Effects of Extreme Low Temperatures and Cold Waves on Respiratory Diseases.** *Biomed Environ Sci.* 2024;37(6):682-5. Available from: <https://www.sciencedirect.com/science/article/pii/S0895398824001089>.
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13. McLean KE, Lee MJ, Coker ES, Henderson SB. **A population-based case-control analysis of risk factors associated with mortality during the 2021 western North American heat dome: focus on chronic conditions and social vulnerability.** *Environmental Research: Health.* 2024;2(3):035010. Available from: <https://dx.doi.org/10.1088/2752-5309/ad5eac>.
14. Mohammad P, Weng Q. **Comparing existing heat wave indices in identifying dangerous heat wave outdoor conditions.** *Nexus.* 2024:100027. Available from: <https://www.sciencedirect.com/science/article/pii/S2950160124000251>.
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16. Ontario Agency for Health Protection and Promotion (Public Health Ontario). **Moving towards surveillance of climate change health impacts [evidence synthesis].** Toronto, ON: PHO; 2024 Aug. Available from: <https://www.publichealthontario.ca/en/Health-Topics/Environmental-Occupational-Health/Air-Quality/Wildfires>.
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