

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 8 (11) NOVEMBER 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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

Novel control measures for *Listeria monocytogenes* in food processing facilities [blog].

Tina Chen, Knowledge Translation Scientist, NCCEH

*“...This blog provides information on how people may be exposed to *L. monocytogenes*, and the current and novel approaches used to control this bacterium in food processing settings.”*



Reducing the risks of high indoor temperatures during heatwaves in British Columbia [journal article].

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

“As the climate changes there is a growing need to ensure indoor thermal safety during heatwaves through new programs and policies...”



Wildfire seasons, prenatal PM_{2.5} exposure, and respiratory infections by age 1 year: a population-based case-control analysis of critical developmental windows [journal article].

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

“We used a population-based nested case-control design to assess the association between daily PM_{2.5} exposures during specific developmental windows and the....”



Wildfire risks to safe drinking water [journal article].

Juliette O’Keeffe, Knowledge Translation Scientist, NCCEH

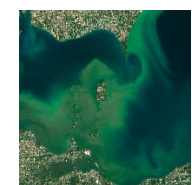
“This article provides a brief overview of the effects of wildfires on water safety and supply, and where to find additional guidance.”



Managing cyanobacterial blooms in recreational waters: decision support tools for public health responses [evidence brief].

Juliette O’Keeffe, Knowledge Translation Scientist, NCCEH

“The aim of this paper was to present an overview of approaches and decision support tools used to inform public health responses to cyanobacterial blooms...”



Environmental predictors of recreational water quality in Canada [blog].

B Desta, J Sanchez, R Jardine, J Tustin, I Young

This blog highlights key findings at each site and the complex interplay between environmental factors and E. coli levels in water bodies.



Multidrug-resistance pathogens in foods [webinar]. Dec 12, 2024, 12-1 PT

Siyun Wang

This webinar talk reviews the roles of animal- and plant-derived foods as vehicles for MDR pathogens, with insights into how food processes, environments and storage conditions impact the dissemination of antimicrobial resistance.



Assessment of climate and health knowledge translation resources developed for health practitioners in B.C. Summary report.

Provincial Health Services Authority and the BC Centre for Disease Control

This report presents an assessment of existing climate change KT resources produced by the BC health system, developed for a health practitioner audience.

Assessment of Climate and Health
Knowledge Translation Resources
Developed for Health Practitioners in
B.C.

Summary Report

2024 Climate and health policy priorities for Canada.

Canadian Public Health Association

This document summarises key priority areas of focus for Canada, supported by evidence from indicators in the 2024 Report of the Lancet Countdown



Indoor air quality: mould and other biological contaminants

HealthLinkBC and BC Centre for Disease Control

This document provides guidance for indoor air quality: moulds and other contaminants



NCCEH eNews (Oct 2024): Uses and limitations of low-cost sensors in a changing climate; more.

National Collaborating Centre for Environmental Health

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



October research scan [research scan].

National Collaborating Centre for Environmental Health



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED RESOURCES

1. Bhandari S, de Ferreyro Monticelli D, Xie K, Ramkairsingh A, Maher R, Eykelbosh A, et al. **Odor, air quality, and well-being: understanding the urban smellscape using crowd-sourced science.** *Environmental Research: Health*. 2024;2(3):035012. Available from: <https://dx.doi.org/10.1088/2752-5309/ad5ded>.
2. Desta B, Sanchez J, Jardine R, Tustin J, Young I. **Environmental predictors of recreational water quality in Canada [blog].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Oct. Available from: <https://ncceh.ca/resources/blog/environmental-predictors-recreational-water-quality-canada>.
3. Henderson SB. **Reducing the risks of high indoor temperatures during heatwaves in British Columbia.** Vancouver, BC: BC CIPHI; 2024 Spring. Available from: <https://ciphi.ca/wp-content/uploads/2024/08/BC-Page-Spring-2024.pdf>.
4. Lan Q, Weinberger K, Luke S, Lavigne E, Weichenthal S, Henderson SB. **Wildfire seasons, prenatal PM2.5 exposure, and respiratory infections by age 1 year: a population-based case-control analysis of critical developmental windows.** *ACS ES&T Air*. 2024. Available from: <https://doi.org/10.1021/acsestair.4c00213>.
5. National Collaborating Centre for Environmental Health. **Oct research scan.** Vancouver, BC: NCCEH; 2024 Oct. Available from: https://ncceh.ca/sites/default/files/2024-10/NCCEH%20Research%20Scan%20-202410_0.pdf.
6. National Collaborating Centre for Environmental Health. **NCCEH eNews (Oct 2024): Uses and limitations of low-cost sensors in a changing climate; more...** Vancouver, BC: NCCEH; 2024 Oct. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=MsKLtnYfa5jSluWZuQTs0_HernCGZHH6NhS80Q_vHrFeAzER8S5U67NwISTpJnUnPg1mIHfMcqkoQK3Z-0XA9vKQ2i21X50TP6SinfHeKlp2Fx-IB0kTZbBct0kLt4E.
7. O’Keeffe J. **Wildfire risks to safe drinking water.** Vancouver, BC: BC CIPHI; 2024 Summer. Available from: <https://ciphi.ca/wp-content/uploads/2024/09/BC-Page-Summer-2024.pdf>.
8. O’Keeffe J. **Managing cyanobacterial blooms in recreational waters: decision support tools for public health responses (evidence brief).** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Sep. Available from: <https://ncceh.ca/resources/journal-articles/managing-cyanobacterial-blooms-recreational-waters-decision-support>.
9. O’Keeffe J. **Managing cyanobacterial blooms in recreational waters: decision support tools for public health responses.** *Environmental Health Review (CIPHI)*. 2024;67(3):59-68. Available from: <https://pubs.ciphi.ca/doi/abs/10.5864/d2024-016?journalCode=ehr>.

1. AIR QUALITY

INDOOR AIR

1. Branco PTBS, Sousa SIV, Dudzińska MR, Ruzgar DG, Mutlu M, Panaras G, et al. **A review of relevant parameters for assessing indoor air quality in educational facilities.** Environ Res. 2024;261:119713. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935124016189>.
2. Hanmer G. **It would cost billions, but pay for itself over time. The economic case for air conditioning every Australian school.** The Conversation. 2024. Available from: <https://theconversation.com/it-would-cost-billions-but-pay-for-itself-over-time-the-economic-case-for-air-conditioning-every-australian-school-241465>.
3. HealthLink BC. **Indoor air quality: Mould and other biological contaminants.** Vancouver, BC: BC Centre for Disease Control; 2024 Oct. Available from: <https://www.healthlinkbc.ca/healthlinkbc-files/indoor-air-quality-mould-and-other-biological-contaminants>.
4. Sun BZ, Dahlberg SE, Wallace M, Vallarino J, Lee JX, Rice MB, et al. **Ambient smoke exposure and indoor air quality in eastern Massachusetts during the 2023 wildfire season.** J Air Waste Manag Assoc. 2024;74(11):820-7. Available from: <https://doi.org/10.1080/10962247.2024.2409790>.
5. Williams A, Schulte K, Varaden D. **'Incense is the one that keeps the air fresh': indoor air quality perceptions and attitudes towards health risk.** BMC Public Health. 2024;24(1):3178. Available from: <https://doi.org/10.1186/s12889-024-20635-1>.

OUTDOOR AIR

1. Bhandari S, de Ferreyro Monticelli D, Xie K, Ramkairsingh A, Maher R, Eykelbosh A, et al. **Odor, air quality, and well-being: understanding the urban smellscape using crowd-sourced science.** Environmental Research: Health. 2024 07 24;2(3):035012. Available from: <https://dx.doi.org/10.1088/2752-5309/ad5ded>.
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4. Sellaro F, Perneti R, Oddone E. **Early biological effects in outdoor workers exposed to urban air pollution: A systematic review.** Environ Pollut. 2024;362:124985. Available from: <https://www.sciencedirect.com/science/article/pii/S0269749124017007>.
5. Shin HH, Owen J, Delic AO, Kabasakal M, Buteau S. **Modifying factors and temporal trends of adverse health effects of short-term exposure to PM2.5 in Canada (2001–2018).** Sci Total

Environ. 2024;955:177046. Available from:

<https://www.sciencedirect.com/science/article/pii/S0048969724072036>.

6. Song X, Wu D, Su Y, Li Y, Li Q. **Review of health effects driven by aerosol acidity: Occurrence and implications for air pollution control.** Sci Total Environ. 2024;955:176839. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969724069961>.
7. United Nations Environment Programme. **Emissions gap report 2024.** New York, NY: UNEP; 2024 Oct. Available from: <https://www.unep.org/resources/emissions-gap-report-2024>.

RADON, OTHER

1. Evict Radon National Study team. **Cross-Canada survey of radon exposure in residential buildings of urban and rural communities.** Vancouver, BC; Calgary, AB; Regina, SK, Halifax, NS: Evict Radon National Study team (including researchers at the British Columbia Cancer Agency, the Arnie Charbonneau Cancer Institute at the University of Calgary, University of Saskatchewan, and Dalhousie University) in collaboration with the staff and researchers at Health Canada, CAREX Canada, and the British Columbia Centre for Disease Control; 2024 Oct. Available from: <https://crosscanadaradon.ca/survey/>.

2. FOOD

FOOD SAFETY

1. Alawadhi N, Abass K, Khaled R, Osaili TM, Semerjian L. **Heavy metals in spices and herbs from worldwide markets: A systematic review and health risk assessment.** Environ Pollut. 2024;362:124999. Available from: <https://www.sciencedirect.com/science/article/pii/S0269749124017147>.
2. Radio S, Di Marsico M, Bersani C, Malinverni R, Casacuberta J, Corpetti C, et al. **Development of a roadmap for action on the application of Omics and associated Bioinformatics Approaches in Risk Assessment.** Parma, Italy: EFSA; 2024. Available from: <https://efsa.onlinelibrary.wiley.com/doi/pdf/10.2903/sp.efsa.2024.EN-9086>.

FOOD SECURITY

1. Ganguli N, Subic AM, Maheswaran J, Talukder B. **Planetary health risks in urban agriculture.** Global Health Journal. 2024;8(1):4-10. Available from: <https://www.sciencedirect.com/science/article/pii/S2414644724000071>.
2. Levkoe C, Strutt C. **Creating a municipal-level emergency food plan: Lessons from Thunder Bay, Ontario.** Journal of Agriculture, Food Systems, and Community Development. 2024;13(4):19–34. Available from: <https://www.foodsystemsjournal.org/index.php/fsj/article/view/1293>.

GROWING FOOD, OTHER

1. Alberta Health. **Alberta Backyard/Small-Flock Poultry Keepers - Re: Continued Risk of Highly Pathogenic Avian Influenza (HPAI)**. Edmonton, AB: Government of Alberta; 2024 Nov 13. Available from: <https://www.alberta.ca/system/files/agi-small-flock-avian-influenza-update-2024-11-13.pdf>.
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3. Portinga RLW, Levkoe CZ, Galway LP. **The contributions of community seed saving to health and wellbeing: A qualitative study in Thunder Bay, Canada**. Wellbeing, Space & Society. 2024;7:100227. Available from: <https://www.sciencedirect.com/science/article/pii/S2666558124000459>.

3. WATER

DRINKING WATER

1. Desta B, Sanchez J, Jardine R, Tustin J, Young I. **Environmental predictors of recreational water quality in Canada [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 10 17 Oct 17. Available from: <https://ncceh.ca/resources/blog/environmental-predictors-recreational-water-quality-canada>.
2. National Academies of Sciences E, Medicine. **Learning Resilience: Lessons for Managing Global Transboundary Water Vulnerabilities: Proceedings of a Workshop—in Brief**. Placht D, Saunders J, editors. Washington, DC: The National Academies Press; 2024. Available from: <https://nap.nationalacademies.org/catalog/28769/learning-resilience-lessons-for-managing-global-transboundary-water-vulnerabilities-proceedings>.
3. Tokranov AK, Ransom KM, Bexfield LM, Lindsey BD, Watson E, Dupuy DI, et al. **Predictions of groundwater PFAS occurrence at drinking water supply depths in the United States**. Science.0(0):eado6638. Available from: <https://www.science.org/doi/abs/10.1126/science.ado6638>.

RECREATIONAL WATER

1. Galloway JM, Parsons MB, Ardakani OH, Falck H, Fewster RE, Swindles GT, et al. **Organic matter is a predominant control on total mercury concentration of near-surface lake sediments across a boreal to low Arctic tundra transect in northern Canada**. Sci Total Environ. 2024;954:176466. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969724066221>.
2. O'Keeffe J. **Managing cyanobacterial blooms in recreational waters: decision support tools for public health responses (evidence brief)**. Vancouver, BC: National Collaborating Centre for

Environmental Health; 2024 09 19 Sep 19. Available from: <https://ncceh.ca/resources/journal-articles/managing-cyanobacterial-blooms-recreational-waters-decision-support>.

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SMALL WATER SYSTEMS

1. Sarmiento Barrios MS. **Resilience of small to medium drinking water systems : an assessment through the water-energy-carbon lens** [Text thesis]2025. Available from: <https://open.library.ubc.ca/collections/24/items/1.0447135>.

WASTEWATER, OTHER

1. Overton AK, Knapp JJ, Lawal OU, Gibson R, Fedynak AA, Adebisi AI, et al. **Genomic surveillance of Canadian airport wastewater samples allows early detection of emerging SARS-CoV-2 lineages**. Sci Rep. 2024;14(1):26534. Available from: <https://doi.org/10.1038/s41598-024-76925-6>.

4. CLIMATE CHANGE

EXTREME WEATHER

1. Assaf G, Assaad RH. **Development and Validation of a Heat Resilience Index: Measuring Communities Resilience to Extreme Heat Events**. Journal of Urban Planning and Development. 2024;150(4):04024034. Available from: <https://ascelibrary.org/doi/abs/10.1061/JUPDDM.UPENG-4646>.
2. Canadian Public Health Association. **2024 Climate and health policy priorities for Canada. This document summarises key priority areas of focus for Canada, supported by evidence from indicators in the 2024 Report of the Lancet Countdown**. Ottawa, ON: CPHA; 2024. Available from: https://www.cpha.ca/sites/default/files/uploads/advocacy/2024_lancet/2024Lancet-PolicyPrioritiesCanada_e.pdf.
3. Cluna C, Shehwar S. **Building Health Capacity to Safeguard Communities from Extreme Heat**. 2024 [Oct]; Available from: <https://climatedata.ca/building-health-capacity-to-safeguard-communities-from-extreme-heat/>.
4. Henderson SB. **Reducing the risks of high indoor temperatures during heatwaves in British Columbia**. Vancouver, BC: BC CIPHI; 2024 Spring. Available from: <https://ciphi.ca/wp-content/uploads/2024/08/BC-Page-Spring-2024.pdf>.
5. Hospers L, Dillon GA, McLachlan AJ, Alexander LM, Kenney WL, Capon A, et al. **The effect of prescription and over-the-counter medications on core temperature in adults during heat**

- stress: a systematic review and meta-analysis.** eClinicalMedicine. 2024;77. Available from: <https://doi.org/10.1016/j.eclinm.2024.102886>.
6. Manitoba Emergency Management Organization. **Extreme heat.** Winnipeg, MB: Government of Manitoba; 2024 Nov. Available from: <https://www.gov.mb.ca/emobeta/hazards/extreme-heat.html>.
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 8. Nawa N, Nishimura H, Fushimi K, Fujiwara T. **Association Between Heat Exposure and Kawasaki Disease: A Time-Stratified Case-Crossover Study.** Environ Res. 2024;120231. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935124021388>.
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 11. Yan L, Cheng D. **Opportunities and challenges for urban climate governance.** Nature Climate Change. 2024. Available from: <https://doi.org/10.1038/s41558-024-02173-1>.
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FLOODING

1. Jia J, Zhang K, Liu H, Zlatanova S. **A framework supporting green stormwater management for urban designers.** J Environ Manage. 2024;370:122650. Available from: <https://www.sciencedirect.com/science/article/pii/S0301479724026367>.
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SEA LEVEL RISE

1. Cantelon JA, Kurylyk BL. **Storm surge, seawater flooding, and sea-level rise paradoxically drive fresh surface water expansion.** *Environmental Research Letters*. 2024;19(12):124038. Available from: <https://dx.doi.org/10.1088/1748-9326/ad8bdf>.

WILDFIRES, OTHER

1. California Department of Education. **Memo: Get Smart about Wildfire Smoke - Guidelines for Schools and Wildfire Smoke.** CA: California Department of Education; 2024 Oct. Available from: <https://www.cde.ca.gov/ls/ep/documents/schclairqualityguide.pdf>.
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3. Holder AL, Sullivan AP. **Emissions, Chemistry, and the Environmental Impacts of Wildland Fire.** *ACS ES&T Air*. 2024;1(9):946-50. Available from: <https://doi.org/10.1021/acsestair.4c00174>.
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<https://www.proquest.com/openview/4de9697c34d7f327571866d3140d532f/1?cbl=18750&diss=y&pq-origsite=gscholar>.
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5. BUILT ENVIRONMENT

GREEN & BLUE SPACES

1. Buxton R, Hudgins EJ, Ware SP. **Want to build healthier cities? Make room for bird and tree diversity.** *The Conversation.* 2024. Available from: <https://theconversation.com/want-to-build-healthier-cities-make-room-for-bird-and-tree-diversity-235379>.
2. Chen J, Bach PM, Nice KA, Leitão JP. **Investigating the efficacy of a fast urban climate model for spatial planning of green and blue spaces for heat mitigation.** *Sci Total Environ.* 2024;955:176925. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969724070827>.
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