

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 9 (10) OCTOBER 2025



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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

Antipsychotics and other risk factors for mortality among people with schizophrenia during an extreme heat event: a population-based case-control study [journal article].

Sarah B Henderson, Scientific Director of Environmental Health Services at BCCDC and of the National Collaborating Centre for Environmental Health

“...Being dispensed an antipsychotic prior to the extreme heat event was associated with increased odds of mortality among people with schizophrenia....” more



CAREX Canada: perspectives on the use of population-based exposure surveillance programs for use in risk or burden estimates

Anne-Marie Nicol, Associate Professor of Professional Practice, Health Sciences, Simon Fraser University, and co-authors

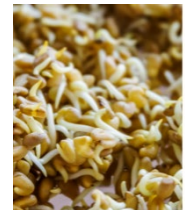
“CAREX Canada estimates have been used for policy influence and change, to raise awareness of occupational cancer for workers, their employers, and society more...”



Understanding the role of environmental health in One Health using foodborne outbreak case studies [evidence brief]

Negar Elmieh, Environmental Health and Knowledge Translation Scientist, NCCEH

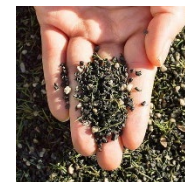
“The objectives of this brief are to use case study examples to examine factors in food systems that contributed to foodborne outbreaks, and highlight the interconnected risks and opportunities for environmental public health professionals to engage with One Health.”



Artificial turf playing fields: health risks and environmental concerns [subject guide].

National Collaborating Centre for Environmental Health

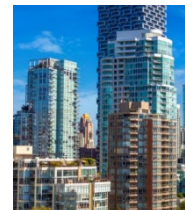
“The resources below have been assembled to help explain the types of evidence available, strengths and limitations, and remaining data gaps. Links to several thorough past reviews on artificial turf and its health and environmental impacts are...”



Healthy high-density living: opportunities, challenges and knowledge gaps [evidence review]

Ka Yan Xu

“This evidence brief provides an overview of the concept of HDL and presents the findings of a rapid review of academic and grey literature for evidence related to HDL and its relationship with health. The findings are intended to inform public health...”

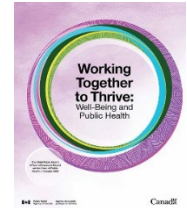


EDITOR PICKS

Working together to thrive: well-being and public health. The Chief Public Health Officer of Canada's report on the state of public health 2025

Public Health Agency of Canada

"This year's report explores the momentum surrounding well-being as an intersectoral policy goal and approach, and how public health systems can both learn from and..."



Portable handwashing sinks guidelines for personal service establishments and care facilities.

Yukon Health and Social Services

"These guidelines provide a resource for Environmental Health Officers and the public on the proper use of portable handwashing sinks in public premises."



Good practices for increasing the application of ecosystem-based adaptation and nature-based solutions for disaster risk reduction.

United Nations Office for Disaster Risk Reduction (UNDRR),

"This compendium of good practices demonstrates the diversity of applications of nature-based solutions, and provides insights into legal and policy dimensions...."



Climate change priority paper

Métis Nation British Columbia

British Columbia Ministry of Environment Climate Change and Food Security

"This report details what we have done so far in increasing Resilience, Capacity, and Partnerships in the areas of: 1. Nature Stewardship 2. Renewable Energy 3. Emergency Management 4. Health & Food 5. Sustainable Jobs & Prosperity...." more



The new face of pandemic preparedness. 2025 report

Global Preparedness Monitoring Board

"This report emphasizes the urgent need to transform global health security in a world that is experiencing new volatility, uncertainty, complexity, and ambiguity while still recovering from the COVID-19 pandemic...."



Connecting early childhood development to climate change: insights for communicators. Harvard University, Center on the Developing Child

"This report explores how the American public thinks about the connections between..."



EDITOR PICKS

Guidance on improving indoor air quality in office buildings.

Health Canada

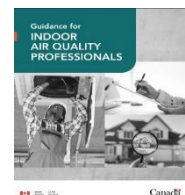
“The purpose of this guidance is to summarize ways to evaluate, improve and maintain indoor air quality in office buildings. This guidance provides practical recommendations to address and respond to potential indoor air quality problems, including...”



Guidance for indoor air quality professionals.

Health Canada

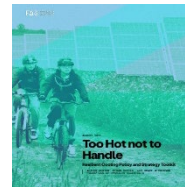
“This guidance is a resource for air quality professionals but may also be used by others such as building operators or employers. It is intended to provide information on the health effects of specific air contaminants, and on air sampling and monitoring.”



Too hot not to handle. Resilient cooling policy and strategy toolkit

Federation of American Scientists

“This toolkit introduces a set of Policy Principles for Resilient Cooling and outlines a set of actionable policy options and levers for state and local governments to foster broader access to resilient cooling technologies and strategies....”



Climate data in action: an interactive workshop for public health

[webinar] Oct 29, 2025, 12-1 PT

Elaine Barrow and Ryan Smith



Canadian multi-jurisdictional enteric illness outbreak investigations: highlights from 2023/2024 [webinar] Nov 25, 2025, 12-1 PT

Megan Striha



NCCEH eNews (Sep 2025): Examining climate-driven influences on norovirus transmission and disease patterns; more...

National Collaborating Centre for Environmental Health

This monthly eNews highlights recent environmental health publications and more!



September research scan [research scan].

National Collaborating Centre for Environmental Health



Guidelines for farmers' markets.

Manitoba Government

“This document will assist entrepreneurs meet regulatory requirements for selling food...”



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED PUBLICATIONS

1. Barrow E, Smith R. **Climate data in action: an interactive workshop for public health [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2025 10 29 Oct 29. Available from: <https://ncceh.ca/events/upcoming-webinars/climate-data-action-interactive-workshop-public-health>.
2. Chen SX, Lee MJ, McVea DA, Henderson SB. **Antipsychotics and other risk factors for mortality among people with schizophrenia during an extreme heat event: a population-based case-control study**. Sci Rep. 2025;15(1):34505. Available from: <https://doi.org/10.1038/s41598-025-17591-0>.
3. National Collaborating Centre for Environmental Health. **NCCEH eNews (Sep 2025): Examining climate-driven influences on norovirus transmission and disease patterns; more...** Vancouver, BC: NCCEH; 2025 08 18 Sep. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=Kz5BWQe8TSnOSkAgJ7RjXVQy_W1t8e3uSFuPu-KQECVbTRUUFi3fDymAKpXvz2VDCFWs4voLoxOzwAZN_mPvXULPqCi-0m3IABJMGSnJCwKSDjZyDvYsIOyDpKY74dQy.
4. National Collaborating Centre for Environmental Health. **Sep research scan**. Vancouver, BC: NCCEH; 2025 08 20 Sep. Available from: <https://ncceh.ca/sites/default/files/2025-09/NCCEH%20Research%20Scan%20-202509.pdf>.
5. Peters C, Nicol A-M, Davies H, Ge C, Palmer A, Hall A, et al. 8287710 CAREX Canada: perspectives on the use of population-based exposure surveillance programs for use in risk or burden estimates. Occup Environ Med. 2025;82(Suppl 2):A27-A. Available from: https://oem.bmj.com/content/oemed/82/Suppl_2/A27.1.full.pdf.
6. Striha M. **Canadian multi-jurisdictional enteric illness outbreak investigations: Highlights from 2023/2024 [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2025 11 25 Nov 25. Available from: <https://ncceh.ca/events/upcoming-webinars/canadian-multi-jurisdictional-enteric-illness-outbreak-investigations>.
7. Xu KY. **Healthy high-density living: opportunities, challenges, and knowledge gaps**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2025 Oct. Available from: <https://ncceh.ca/resources/evidence-reviews/healthy-high-density-living-opportunities-challenges-and-knowledge-gaps>.

1. AIR QUALITY

INDOOR AIR

1. Chakraborty TK, Debnath PC, Kharel G, Netema BN, Nice MS, Islam KR, et al. **Unveiling the hidden pollutants in the indoor environment: Focus on microplastic pollution and its related risks in the educational institutions of megacity, Bangladesh**. Environmental pollution (Barking, Essex : 1987). 2025:126831. Available from: <https://doi.org/10.1016/j.envpol.2025.126831>.

2. Health Canada. **Guidance on improving indoor air quality in office buildings.** Ottawa, ON: Health Canada; 2025 Sep 19. Available from: <https://www.canada.ca/en/health-canada/services/publications/healthy-living/guidance-improving-indoor-air-quality-office-buildings.html>.
3. Health Canada. **Guidance for indoor air quality professionals.** Ottawa, ON: Health Canada; 2025 Sep 19. Available from: <https://www.canada.ca/en/health-canada/services/publications/healthy-living/guidance-indoor-air-quality-professionals.html>.

OUTDOOR AIR

1. British Columbia Government. **Wildfire smoke, air quality and your health.** Victoria, BC: Government of BC; 2025. Available from: https://www2.gov.bc.ca/assets/gov/careers/managers-supervisors/managing-occupational-health-safety/wildfire_smoke_health_concerns.pdf.
2. Chaston T, Utembe S, Choi J, Gopi K, Yuen C, Knibbs L, et al. **Health benefits of traffic emissions controls in Melbourne, Australia.** Environ Res. 2025;123122. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935125023758>.
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4. Jahanshahi B, McVicar D, Rowland N. **Exposure to ambient air pollution and onset of Parkinson's disease in a large cohort study.** npj Parkinson's Disease. 2025;11(1):291. Available from: <https://doi.org/10.1038/s41531-025-01156-z>.
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6. Royal College of Physicians. **A Breath of Fresh Air: Responding to the Health Challenges of Modern Air Pollution.** London, UK: RCP; 2025 Jun. Available from: <https://www.rcp.ac.uk/policy-and-campaigns/policy-documents/a-breath-of-fresh-air-responding-to-the-health-challenges-of-modern-air-pollution/>.

RADON, OTHER

1. Government of New Brunswick. **Free radon tests available at provincial libraries.** 2025 Oct 14. Available from: https://www2.gnb.ca/content/gnb/en/news/news_release.2025.10.0439.html?fbclid=IwY2xjawNbd09leHRuA2FlbQlxMABicmlkETFJSXlzdFNFRnZVTlhPVjRfAR7jc0lrPwdcyoTBoWOH_uBMpWmg-2GGRUtgN9T4SRIGEUYdseY_wFXfhmNKg_aem_ztou1AYXLT3-EcFr6qKCuA.

2. FOOD

FOOD SAFETY

1. BBC Morning Live. **Is Organic Food Better for You?** BBC News. 2025 Oct 6. Available from: <https://www.bbc.com/articles/c24rm0d3993o>.
2. Burnett J, Buckley D, Grinstead DA, Oliver HF. **Microbial Community Associations With *Listeria monocytogenes* in Food Processing Environments: A Systematic Review and Meta-Analysis.** *Compr Rev Food Sci Food Saf.* 2025;24(5):e70277. Available from: <https://pmc.ncbi.nlm.nih.gov/articles/PMC12433589/>.
3. Chain EPoCitF, Knutsen HK, Åkesson A, Bampidis V, Bignami M, Bodin L, et al. **Update of the Scientific Opinion on the risks for human health related to the presence of perchlorate in food.** *EFSA Journal.* 2025;23(5):e9393. Available from: <https://efsa.onlinelibrary.wiley.com/doi/abs/10.2903/j.efsa.2025.9393>.
4. Dinh AH, Hoang AQ. **An updated review on chemical compositions of cocoa products and by-products with a focus on toxic elements and organic pollutants.** *Food Chem.* 2025;489:145001. Available from: <https://www.sciencedirect.com/science/article/pii/S0308814625022526>.
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6. Intecamerica. **Well Water Contamination: Causes, Symptoms and Treatment.** Franklinton, LA: Intecamerica; Available from: https://www.intec-america.com/blog/well-water-contamination-causes-symptoms-and-treatment/?srsltid=AfmBOor2aSFK6BMqZmXmw_tBZVUZUpY1z8fyi2A_9MtPUaFRypir9_y.
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FOOD SECURITY

1. Gilbert SZ, Ford JD, Clark DG, Turner L, Fawehinmi TO, Caughey A, et al. **Retail food sales in Nunavut, Canada not impacted by short-term weather-related inaccessibility of trails used for Inuit subsistence harvesting**. *Environmental Research: Food Systems*. 2025;2(4):045001. Available from: <https://doi.org/10.1088/2976-601X/adf5c9>.
2. Huda T, Wang A, Zhang H, Gao L, He Y, Zhu T. **Identifying Food Deserts in Mississauga: A Comparative Analysis of Socioeconomic Indicators**. *Urban Science*. 2025;9(7):265. Available from: <https://www.mdpi.com/2413-8851/9/7/265>.
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GROWING FOOD, OTHER

1. Cao S. **Assessing the impact of rising temperature on blueberry production: evaluating the adaptability of mitigation and adaptation strategies in British Columbia, Canada.** Vancouver, BC: University of British Columbia; 2025. Available from: <https://mlws.landfood.ubc.ca/all-projects/assessing-the-impact-of-rising-temperature-on-blueberry-production-evaluating-the-adaptability-of-mitigation-and-adaptation-strategies-in-british-columbia-canada/>.
2. Ikrema H, Mugudamani I, Oke SA. **Assessment of Environmental and Human Health Risks from Heavy Metal Contamination in Community Garden Soils Affected by an Industrial Fire Hazard in New Brunswick, Canada.** *Environments.* 2025;12(10):362. Available from: <https://www.mdpi.com/2076-3298/12/10/362>.

3. WATER

DRINKING WATER

RECREATIONAL WATER

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SMALL WATER SYSTEMS

WASTEWATER, OTHER

4. CLIMATE CHANGE

EXTREME WEATHER

1. Abunyewah M, Gajendran T, Erdiaw-Kwasie MO, Baah C, Okyere SA, Kankanamge AKSU. **The multidimensional impacts of heatwaves on human ecosystems: A systematic literature review and future research direction.** *Environ Sci Pol.* 2025;165:104024. Available from: <https://www.sciencedirect.com/science/article/pii/S1462901125000401>.
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12. Fraser Institute. **Adaptation and Resilience in the Face of Climate Change.** Vancouver, BC: Fraser Institute; 2025 Jul. Available from: <https://www.fraserinstitute.org/studies/adaptation-and-resilience-face-climate-change>.
13. McKinley S, Geoerg P, Haghani M, Feliciani C. **Mapping the impact of extreme weather on global events and mass gatherings: Trends and adaptive strategies.** International Journal of Disaster Risk Reduction. 2025;127:105628. Available from: <https://www.sciencedirect.com/science/article/pii/S2212420925004522>.
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FLOODING

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