2023 EH Scan



ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 7 (6) JUNE 2023



Indoor airOutdoor airRadon, Other	Extreme weatherFloodingSea level riseWildfires, Other	 COVID-19 Other infectious diseases Vectors & zoonoses Pests, Other
FOODFood safetyFood securityGrowing food, Other	BUILT ENVIRONMENT Green& blue spaces Housing Noise Planning & design Transportation, Other	PUBLIC HEALTH FUNDAMENTALS Communication Health promotion Health impact assessment Health equity One Health, Other
 WATER Drinking water Recreational water Small water systems Wastewater, Other 	NON-CLIMATE RELATED DISASTERS Earthquakes Marine Terrestrial, Other	 OTHER TOPICS Cannabis products Tobacco, nicotine products Ionizing, non-ionizing radiation Personal services establishments, 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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

Wildfire, smoke, and health [topic page]. National Collaborating Centre for Environmental Health

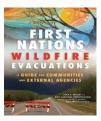
"The resources assembled here are intended to assist public health practitioners, decision -makers, and the public by providing guidance regarding public health impacts, community preparedness, risk communication and response to wildfires and wildfire smoke."



First Nations wildfire evacuations. A guide for communities and external agencies.

Tara McGee, Amy Cardinal Christianson, First Nations Wildfire Evacuation Partnership

"This evacuation guide is based on interviews with over two hundred wildfire evacuees from seven First Nations."



First Nations Fire Protection Strategy, 2023 to 2028.

Indigenous Services Canada

"The strategic objectives of this strategy set out a path to improve fire outcomes for First Nations."



Fire protection in First Nations communities.

Indigenous Services Canada

"Wildfires are a natural hazard that can put First Nations communities at risk. Wildfire response services are led by provincial and territorial emergency management organizations."



Wildfire response.

First Nations Health Authority

"This web link provides information on emergency management and evacuation, air quality and wildfire smoke, health benefits and virtual health, mental health and cultural support, returning home after wildfires."



Flooding in First Nations communities.

Indigenous Services Canada

"Indigenous Services Canada regional officials work closely with First Nations at risk of flooding and partners to help ensure emergency preparedness and response plans..."





Climate change and food access report.

Métis Nation British Columbia

"One of the many goals of the Climate Change & Food Access survey was to gain insight into how access to nutritious and traditional foods relates to the current"



Indigenous food tour of British Columbia [map].

"The food businesses mapped here have been identified from various online sources of Indigenous-owned businesses. This map was assembled as part of the BCCDC Anti-Racism Working Group in recognition of National Indigenous History Month."



Public health responses for long-term evacuation and recovery. National Collaborating Centres for Public Health

"The National Collaborating Centres for Public Health (NCCPH) led a joint project to clarify the role of public health to address the long-term health and social impacts of evacuations due to natural disasters"



Earthquake resources for environmental public health professionals [topic page].

National Collaborating Centre for Environmental Health

"This subject guide addresses the specific tools that EPH professionals may require to prepare for and respond to a catastrophic earthquake. Each of the sections offers resources to support EPH practice areas, including assessing public health needs..."



May research scan [blog].

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 healt



NCCEH eNews (May 2023): Foodborne illness outbreaks: recommendations for collaborative investigations; more...

National Collaborating Centre for Environmental Health

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





Staying current with Canadian Drinking Water Guidelines [blog]. Juliette O'Keeffe, Knowledge Translation Scientist, NCCEH

"Staying up to date with changes to Canadian Drinking Water Guidelines (CDWG) can be challenging for those involved in the assessment of drinking water quality and management of drinking water supplies." more



Black garlic: food safety considerations during production and storage [evidence review].

Tina Chen, Knowledge Translation Scientist, NCCEH

"This evidence brief will discuss the potential food safety risks associated with the production of black garlic and how to mitigate these risks." more



Fermented food safety guidance: a new resource for public health practitioners [blog].

Kelsey James, Knowledge Translation Scientist, NCCEH

"To support PHIs and food safety specialists in assessing the food safety risks related to fermented foods, the newly released Fermented Foods Safety Guidance website has been launched by the Canadian Fermented Foods Working Group (FFWG). [...]. This blog post outlines the three chapters that are completed"



Managing tick-related risks in outdoor environments [webinar]. Negar Elmieh, PhD, University of British Columbia

"The objective of this project was to improve understanding of the public health impacts of ticks in Canada as a result of these changes, and outline how landscape design and management strategies can be used to reduce the risk of tick encounters in parks, residential properties and other outdoor spaces." more



Ticks in a changing climate [guidance document]. National Collaborating Centre for Environmental Health

"This easy-to-reference resource summarizes how best to design and manage outdoor environments to reduce tick habitat, and outlines steps one should take to reduce the risk of getting bitten by a tick when recreating or working outdoors. It is intended for parks professionals and users, landscape designers, and residential property owners."



Also new:

Reducing tick-related risks through improved design and maintenance in outdoor environments [blog]



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED PUBLICATIONS

AIR QUALITY

INDOOR AIR

- Australian National Construction Code. Indoor air quality verification methods handbook. Australia:
 National Construction Code; 2023. Available from:
 https://www.abcb.gov.au/sites/default/files/resources/2023/Handbook-Indoor-Air-Quality-Verification-Methods-NCC-2022.pdf.
- 2. Bédard M-A, Reyna ME, Moraes TJ, Simons E, Turvey SE, Mandhane P, et al. **Association between gas stove use and childhood asthma in the Canadian CHILD Cohort Study**. Can J Public Health. 2023. Available from: https://doi.org/10.17269/s41997-023-00779-0.
- 3. Buonomano A, Forzano C, Giuzio GF, Palombo A. **New ventilation design criteria for energy sustainability and indoor air quality in a post Covid-19 scenario**. Renew Sust Energ Rev. 2023;182:113378. Available from: https://doi.org/10.1016/j.rser.2023.113378.
- 4. CHILD Cohort Study. **CHILD provides first Canadian data on gas stove use and asthma risk**. CHILD Study; 2023. Available from: https://childstudy.ca/gas-stoves-asthma.

 asthma/?utm_source=rss&utm_medium=rss&utm_campaign=gas-stoves-asthma.
- Moghadam TT, Ochoa Morales CE, Lopez Zambrano MJ, Bruton K, O'Sullivan DTJ. Energy efficient ventilation and indoor air quality in the context of COVID-19 - A systematic review. Renew Sust Energ Rev. 2023;182:113356. Available from: https://doi.org/10.1016/j.rser.2023.113356.
- 6. Public Health Seattle King County. **Guidance on improving indoor air quality for individuals, building operators and business owners**. Seattle, WA: Public Health Seattle King County; 2023
 May. Available from: https://kingcounty.gov/~/media/depts/health/communicable-diseases/documents/C19/improving-indoor-ventilation-guide-EN.ashx.

OUTDOOR AIR

 Bhaskar A, Chandra J, Hashemi H, Butler K, Bennett L, Cellini J, et al. A Literature Review of the Effects of Air Pollution on COVID-19 Health Outcomes Worldwide: Statistical Challenges and Data Visualization. Annu Rev Public Health. 2023;44(1):1-20. Available from: https://www.annualreviews.org/doi/abs/10.1146/annurev-publhealth-071521-120424.



- Boogaard H, Samoli E, Patton AP, Atkinson RW, Brook JR, Chang HH, et al. Long-term exposure to traffic-related air pollution and non-accidental mortality: A systematic review and metaanalysis. Environ Int. 2023;176:107916. Available from: https://doi.org/10.1016/j.envint.2023.107916.
- 3. Buonocore JJ, Reka S, Yang D, Chang C, Roy A, Thompson T, et al. **Air pollution and health impacts of oil & gas production in the United States**. Environmental Research: Health. 2023;1(2):021006. Available from: https://dx.doi.org/10.1088/2752-5309/acc886.
- 4. Gallant I. How does wildfire smoke affect long-term health? Researchers are trying to find out. CBC Radio, White Coat, Black Art The Dose. 2023 06 01 Jun 1. Available from: https://www.cbc.ca/radio/whitecoat/the-dose-wildfire-smoke-1.6860689.
- Porter TM, Smenderovac E, Morris D, Venier L. All boreal forest successional stages needed to maintain the full suite of soil biodiversity, community composition, and function following wildfire. Sci Rep. 2023;13(1):7978. Available from: https://www.ncbi.nlm.nih.gov/pubmed/37198223.

RADON, OTHER

- Mareş IC, Catalina T. The applicability of decentralized ventilation equipment in radon mitigation from existing homes. IOP Conference Series: Earth and Environmental Science. 2023;1185(1):012011. Available from: https://dx.doi.org/10.1088/1755-1315/1185/1/012011.
- 2. Mema SC, Baytalan G. **Radon and lung cancer risk**. Can Med Assoc J. 2023;195(24):E850-E. Available from: https://www.cmaj.ca/content/cmaj/195/24/E850.full.pdf.

2. FOOD

FOOD SAFETY

- Chen T. Black garlic: Food safety considerations during production and storage [evidence review].
 Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 06 07 Jun 7.
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- 5. Liu X, Yao H, Zhao X, Ge C. **Biofilm Formation and Control of Foodborne Pathogenic Bacteria**. Molecules. 2023;28(6):2432. Available from: https://www.mdpi.com/1420-3049/28/6/2432.
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- Warmate D, Onarinde BA. Food safety incidents in the red meat industry: A review of foodborne disease outbreaks linked to the consumption of red meat and its products, 1991 to 2021. Int J Food Microbiol. 2023;398:110240. Available from: https://doi.org/10.1016/j.ijfoodmicro.2023.110240.

FOOD SECURITY

- BC Centre for Disease Control. Food Costing in BC 2022- Assessing the affordability of healthy eating. Vancouver, BC: BCCDC, Population and Public Health; 2023. Available from: http://www.bccdc.ca/our-services/programs/food-security#Reports--&--resources.
- Naylor AW, Kenny TA, Beale D, Carignan MH, Warltier D, Little M. Proceedings from ArcticNet workshop: Moving from understanding to action on food security in Inuit Nunangat. Victoria, BC: University of Victoria; 2023. Available from: https://dspace.library.uvic.ca/handle/1828/15043.

GROWING FOOD, OTHER

Public Health Ontario. Food Insecurity among Children using the Canadian Health Survey of Children and Youth. Toronto, ON: Public Health Ontario; 2023 Jun. Available from:
 <a href="https://www.publichealthontario.ca/-/media/Documents/C/2023/food-insecurity-children-youth-canada-survey.pdf?rev=2847c19ebba644f5b55467d1bfa5ac82&sc_lang=en&cldee=hSQC-LTtHPcn7SIDbzXWft_egqhgNetpF3ehsE3HH7y6ghWcCMCm-Pcu92Wh89N5&recipientid=contact-c7ccc0a5b4a2e611837d0050569e0009-85c5c3c077424738836b0b4bfdb37dcf&esid=1370af55-ad0e-ee11-8185-005056ad61b6.

3. WATER



DRINKING WATER

- Kirpich A, Shishkin A, Lhewa P, Yang C, von Fricken ME, Norris MH, et al. An Investigation of the Seasonal Relationships Between Meteorological Factors, Water Quality, and Sporadic Cases of Legionnaires' Disease in Washington, DC. Epidemiol Infect. 2023:1-45. Available from: https://www.ncbi.nlm.nih.gov/pubmed/37183701.
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 Legionnaires Disease in a U.S. Traveler After Staying in a Private Vacation Rental House in the
 U.S. Virgin Islands United States, February 2022. MMWR. 2023;72(20):564–5. Available
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RECREATIONAL WATER

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- Health Canada. Recreational water quality and health: managing risk. Ottawa, ON: Health Canada;
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SMALL WATER SYSTEMS

Hastings Prince Edward Public Health. Small Drinking Water System Owner/Operator Course.
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 https://www.hpepublichealth.ca/clinic/small-drinking-water-system-owner-operator-course/.

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4. CLIMATE CHANGE

EXTREME WEATHER

- ARUP. Addressing overheating risk in existing UK homes. London, UK: An ARUP report
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- Canada Culture History and Sport. Glossary on Climate Change and Public Health. Ottawa, ON:
 Government of Canada; 2023 Jun 5. Available from:

 <u>https://www.btb.termiumplus.gc.ca/publications/changements-climatiques-sante-publique-eng.html.</u>
- Climate Data. Humidex projections. 2023; Available from: https://climatedata.ca/new-and-noteworthy-humidex-projections/?utm source=Social+Media&utm medium=LinkedIn&utm campaign=Humidex.
- Diaconescu E, Sankare H, Chow K, Murdock TQ, Cannon AJ. A short note on the use of daily climate data to calculate Humidex heat-stress indices. International Journal of Climatology. 2023;43(2):837-49. Available from: https://rmets.onlinelibrary.wiley.com/doi/abs/10.1002/joc.7833.
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- 8. Kaveh S, Habibi A, Nikkar M, Aflaki A. **The influence of greenery on reduction of air temperature** and air pollution in an urban canyon; A case study. Research Square. 2023. Available from:



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FLOODING

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SEA LEVEL RISE

WILDFIRES, OTHER

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5. BUILT ENVIRONMENT

GREEN & BLUE SPACES

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HOUSING

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NOISE

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PLANNING & DESIGN

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