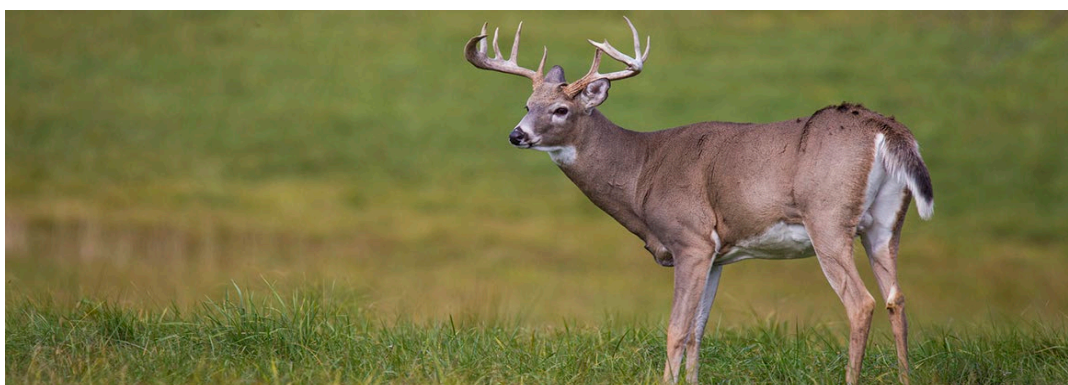


ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 9 (4) APRIL 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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

Chronic wasting disease: a jurisdictional scan of advice for hunters and cervid meat-processors in CWD affected areas [journal article].

Juliette O’Keeffe, Senior Scientist, NCCEH; Michael Lee, Senior Scientist, BCCDC; Esther Tong, Food Safety and Environmental Health Specialist, BCCDC



“This paper presents findings of a jurisdictional scan of North America for advice on handling and processing wild cervid meat in jurisdictions affected by CWD....” more

Heat alert and response systems in Canada: a check-up on preparedness [evidence review].

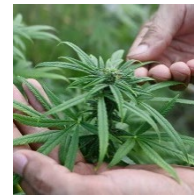
Rebecca Goulding, Environmental Health and Knowledge Translation Scientist, NCCEH; Elizabeth Loftus, Project Coordinator, NCCEH



“This evidence review provides findings from a pan-Canadian stocktake to gauge the extent of implementation of heat alert and response systems (HARS) across provincial/territorial jurisdictions and health authorities....” more

Impact of legalization on cannabis exposure calls to the British Columbia Poison Control Centre.

Jeffrey Trieu, Nina Dobbin, Sarah B Henderson, David McVea - BCCDC



“Regardless of the contributing factors to cannabis case trends at DPIC [Drug and Poison Information Centre], these data highlight the importance of poisoning prevention policies, promotion of low-risk use, and routine surveillance.”

Vision 2030: Moving Data to Public Health Action [presentation].

David Buckeridge



“This event took place Feb 25, 2025, and was hosted by The Public Health Agency of Canada (PHAC)’s Data, Surveillance and Foresight Branch (DSFB) and National Collaborating Centre for Infectious Diseases (NCCID).”

NCCEH eNews (Mar 2025): Rabies through a One Health lens; more...

National Collaborating Centre for Environmental Health



This monthly eNews highlights recent environmental health publications and more!

March 2025 research scan.

National Collaborating Centre for Environmental Health



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED RESOURCES

1. Conger T, Horlacher H. **From rain gardens to resilience: Green stormwater infrastructure for healthier cities [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2025 Apr 30. Available from: <https://ncceh.ca/events/upcoming-webinars/rain-gardens-resilience-green-stormwater-infrastructure-healthier-cities>.
2. Goulding R, Loftus E. **Heat alert and response systems in Canada: A check-up on preparedness**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2025 Mar 31. Available from: <https://ncceh.ca/resources/evidence-reviews/heat-alert-and-response-systems-canada-check-preparedness>.
3. O’Keeffe J, Lee MJ, Tong E. **Chronic wasting disease: A jurisdictional scan of advice for hunters and cervid meat-processors in CWD affected areas**. Environ Health Rev. 2025;68(1):9-15. Available from: <https://pubs.ciphi.ca/doi/abs/10.5864/d2025-003>.
4. Trieu J, Dobbin N, Henderson SB, McVea D. **Impact of legalization on cannabis exposure calls to the British Columbia Poison Control Centre**. Can J Public Health. 2025. Available from: <https://doi.org/10.17269/s41997-025-01022-8>.

1. AIR QUALITY

INDOOR AIR

1. Bennitt FB, Wozniak S, Causey K, Spearman S, Okereke C, Garcia V, et al. **Global, regional, and national burden of household air pollution, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021**. The Lancet. 2025;405(10485):1167-81. Available from: [https://doi.org/10.1016/S0140-6736\(24\)02840-X](https://doi.org/10.1016/S0140-6736(24)02840-X).
2. Séguin O, Ghorbal D, Denault G, Trudeau K, Poulin P, Dea C, et al. **CO2 levels and SARS-CoV-2 transmission in public schools: A retrospective cohort study in Montreal (Canada)**. Indoor Environments. 2025;2(1):100077. Available from: <https://www.sciencedirect.com/science/article/pii/S2950362025000062>.

OUTDOOR AIR

1. Hao Y, Xu L, Peng M, Yang Z, Wang W, Meng F. **Synergistic air pollution exposure elevates depression risk: A cohort study**. Environmental Science and Ecotechnology. 2025;23:100515. Available from: <https://www.sciencedirect.com/science/article/pii/S2666498424001297>.
2. Huang X, Steinmetz J, Marsh EK, Aravkin AY, Ashbaugh C, Murray CJL, et al. **A systematic review with a Burden of Proof meta-analysis of health effects of long-term ambient fine particulate**

matter (PM2.5) exposure on dementia. *Nature Aging*. 2025. Available from:
<https://doi.org/10.1038/s43587-025-00844-y>.

RADON, OTHER

1. Gaskin J, Zhou LG, Li YE, Tardif P. **Ventilation approaches and radon control in Canadian houses**. *Front Public Health*. 2025 04 09;Volume 13 - 2025. Available from:
<https://www.frontiersin.org/journals/public-health/articles/10.3389/fpubh.2025.1569494>.

2. FOOD

FOOD SAFETY

1. Gan H-J, Chen S, Yao K, Lin X-Y, Juhasz AL, Zhou D, et al. **Simulated Microplastic Release from Cutting Boards and Evaluation of Intestinal Inflammation and Gut Microbiota in Mice**. *Environ Health Perspect*. 2025;0(0). Available from:
<https://ehp.niehs.nih.gov/doi/abs/10.1289/EHP15472>.
2. Holst MM, Wittry BC, Crisp C, Torres J, Irving DJ, Nicholas D. **Contributing Factors of Foodborne Illness Outbreaks - National Outbreak Reporting System, United States, 2014-2022**. *MMWR Surveill Summ*. 2025;74(1):1-12. Available from: <https://doi.org/10.15585/mmwr.ss7401a1>.
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<https://onlinelibrary.wiley.com/doi/abs/10.1111/risa.70008>.

FOOD SECURITY

GROWING FOOD, OTHER

3. WATER

DRINKING WATER

1. Haston JC, Ali IK, Roy S, Roundtree A, Hofstetter J, Pierson S, et al. **Fatal Acanthamoeba Encephalitis in a Patient Who Regularly Used Tap Water in an Electronic Nasal Irrigation Device and a Continuous Positive Airway Pressure Machine at Home — New Mexico, 2023**. *MMWR*.

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RECREATIONAL WATER

1. Dulski TM, Montgomery F, Ramos JM, Rosenbaum ER, Jr. BLB, Cox CM, et al. **Fatal Case of Splash Pad–Associated Naegleria fowleri Meningoencephalitis — Pulaski County, Arkansas, September 2023.** MMWR. 2025;74(10):167–72. Available from: https://www.cdc.gov/mmwr/volumes/74/wr/mm7410a2.htm?s_cid=mm7410a2_e&ACSTrackingID=USCDC_921-DM146104&ACSTrackingLabel=This%20Week%20in%20MMWR%3A%20Vol.%2074%2C%20March%2027%2C%202025&deliveryName=USCDC_921-DM146104.
2. Valero A. **Characterizing benthic bacterial and cyanobacterial communities and predicting bacterial nutrient cycling in aquatic systems impacted by wildfires in Fort McMurray, Alberta, Canada.** Waterloo, ON: University of Waterloo; 2025. Available from: <https://uwspace.uwaterloo.ca/items/3dbe3a6e-816b-4ceb-ac77-80127b2d6594>.

SMALL WATER SYSTEMS

WASTEWATER, OTHER

4. CLIMATE CHANGE

EXTREME WEATHER

1. Batra M, Erbas B. **Extreme Weather, Vulnerable Populations, and Mental Health: The Timely Role of AI Interventions.** Int J Environ Res Public Health. 2025;22(4):602. Available from: <https://www.mdpi.com/1660-4601/22/4/602>.
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1. Liu N, Zhang F. **Urban green spaces and flood disaster management: toward sustainable urban design.** Front Public Health. 2025;Volume 13 - 2025. Available from: <https://www.frontiersin.org/journals/public-health/articles/10.3389/fpubh.2025.1583978>.

SEA LEVEL RISE

WILDFIRES, OTHER

1. Brownstein M. **Exposure to wildfire smoke linked with worsening mental health conditions.** Harvard School of Public Health. 2025 Apr 4. Available from: <https://hsph.harvard.edu/news/exposure-to-wildfire-smoke-linked-with-worsening-mental-health-conditions/>.

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5. BUILT ENVIRONMENT

GREEN & BLUE SPACES

1. Brown T. **Forest bathing in Metro Vancouver, Canada : a randomized crossover study examining health outcomes and environmental and vegetation influences.** Vancouver, BC: University of British Columbia; 2025 05 01. Available from:
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HOUSING

1. Wykes TG, Simpson A. **Green sweeps: Ecological rationalities and homeless encampment pollution.** PLOS Sustainability and Transformation. 2025;4(3):e0000166. Available from:
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NOISE

PLANNING & DESIGN

1. Braun LM, Fox EH, Frank LD. **Is walkability healthy for all? Using the National Environmental Database to examine equity in the environmental health characteristics of pedestrian-supportive neighborhoods in the U.S.** Soc Sci Med. 2025:118024. Available from:
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TRANSPORTATION, OTHER

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6. NON-CLIMATE RELATED DISASTERS

EARTHQUAKES

MARINE

TERRESTRIAL, OTHER

1. Wang Z, Huang G, Chen Z, An C. **Accidents involving lithium-ion batteries in non-application stages: incident characteristics, environmental impacts, and response strategies.** BMC Chem. 2025;19(1):94. Available from: <https://doi.org/10.1186/s13065-025-01445-x>.

7. DISEASES, VECTORS, PESTS

COVID-19

ANIMAL, BIRD VECTORS

1. Irving K, Duhn L, Tustin J. **Evaluating rabies content on Ontario public health unit websites.** Environ Health Rev. 2025;68(1):2-8. Available from: <https://pubs.ciphi.ca/doi/abs/10.5864/d2025-001>.
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INSECT VECTORS

PESTS, OTHER

8. PUBLIC HEALTH FUNDAMENTALS

COMMUNICATION

1. Goulding R, Loftus E. **Heat alert and response systems in Canada: A check-up on preparedness.** Vancouver, BC: National Collaborating Centre for Environmental Health; 20250331 Mar 31. Available from: <https://ncceh.ca/resources/evidence-reviews/heat-alert-and-response-systems-canada-check-preparedness>.

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HEALTH PROMOTION

1. Jimenez C, Abdi S, Heller J, Dutt M. **Public Health Speaks: Public health's role in community organizing.** Antigonish, NS: National Collaborating Centre for Determinants of Health, St. Francis Xavier University; 2024 20. Available from: https://nccdh.ca/resources/entry/public-health-speaks-public-healths-role-in-community-organizing?mc_cid=2923637554&mc_eid=04816d6ac3.
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HEALTH IMPACT ASSESSMENT

HEALTH EQUITY

ONE HEALTH, OTHER

1. Baskakov IV. **Cases of Creutzfeldt-Jakob disease in young individuals: open questions regarding aetiology.** *Frontiers in Cellular Neuroscience*. 2025;Volume 19 - 2025. Available from: <https://www.frontiersin.org/journals/cellular-neuroscience/articles/10.3389/fncel.2025.1571662>.
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9. OTHER TOPICS

CANNABIS PRODUCTS

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TOBACCO, NICOTINE PRODUCTS

IONIZING, NON-IONIZING RADIATION

PERSONAL SERVICES ESTABLISHMENTS, OTHER

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OLDER ADULTS

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