

ENVIRONMENTAL HEALTH RESEARCH SCAN

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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

Private wells in a changing climate: keeping drinking water safe [evidence review].

Juliette O’Keeffe, Senior Scientist, NCCEH

“This document provides an overview of existing and emerging challenges in maintaining safe water quality in private wells, and reviews current guidance....”



Flooding and health impacts: preparedness, response, recovery, and prevention [subject guide].

National Collaborating Centre for Environmental Health

“This subject guide provides a collection of key resources on the health impacts of flooding and populations who are disproportionately affected, such as Indigenous communities....”



Heatwaves and PM2.5 from wildfire smoke, non-wildfire sources, and all sources in relation to preterm birth: a nationwide cohort study in Canada [journal article].

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

“...These findings highlight the need for early warning systems and public health messaging targeting moderate wildfire smoke events.”



Multiyear wildfire smoke exposure (MultiWiSE) metrics: a data-driven approach to characterizing episodic PM2.5 exposures for epidemiologic research [journal article].

Cleland SE, Qiong O, Brauer M, Henderson SB. (authors)

“The MultiWiSE metrics characterize the frequencies, intensities, and durations of episodic WFS exposure and can be calculated using any multiyear time series of PM_{2.5}”



March research scan [research scan].

National Collaborating Centre for Environmental Health



March e-news. Environmental pathways of antimicrobial resistance: a One Health case study; more.

National Collaborating Centre for Environmental Health



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED PUBLICATIONS

1. Andrade-Rivas F, Spiegel J, Delgado-Ron JA, van den Bosch M, Parrott L, Henderson SB. **Agricultural pesticide exposures in Ecuador and their spatial association with low birth weight: a combined cluster detection and Bayesian modelling approach.** *Environ Pollut.* 2026 2026/06/01/;398:128090 Available from: <https://www.sciencedirect.com/science/article/pii/S0269749126004604>.
2. Cleland SE, Qiong O, Brauer M, Henderson SB. **Multiyear wildfire smoke exposure (MultiWiSE) metrics: a data-driven approach to characterizing episodic PM2.5 exposures for epidemiologic research.** *J Expo Sci Environ Epidemiol.* 2026 2026/04/13 Available from: <https://doi.org/10.1038/s41370-026-00876-5>.
3. Lan Q, Henderson S, Coker E, Paul N, Cleland SE, Evans J, et al. **Heatwaves and PM2.5 from wildfire smoke, non-wildfire sources, and all sources in relation to preterm birth: a nationwide cohort study in Canada.** *Environ Int.* 2026 2026/03/01/;209:110185 Available from: <https://www.sciencedirect.com/science/article/pii/S0160412026001431>.
4. National Collaborating Centre for Environmental Health. **Flooding and health impacts: preparedness, response, recovery, and prevention [subject guide].** Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2026 03 31 Mar 31. Available from: <https://ncceh.ca/resources/subject-guides/flooding-and-health-impacts-preparedness-response-recovery-and-prevention>.
5. O’Keeffe J. **Private wells in a changing climate: keeping drinking water safe [evidence review].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2026 03 31 Mar 31. Available from: <https://ncceh.ca/resources/evidence-reviews/private-wells-changing-climate-keeping-drinking-water-safe>.
6. Paul N, Henderson SB, Stranberg RC, Hohl CM, Coker ES, Yao J. **Changes in patient characteristics and patterns of visits to emergency departments during an extreme heat event.** *Environmental Research: Health.* 2026. Available from: <http://iopscience.iop.org/article/10.1088/2752-5309/ae5fc4>.

1. AIR QUALITY

INDOOR AIR

1. Barry N, Landreville KD, Blackwood D, Yard JK, Noble R, Kuzma J. **Experiences with household mold and perceptions of microbiome engineering to mitigate mold.** *Front Public Health.* 2026;14:1725172. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/41674531>.
2. Han D, Guo Y, Ji JS, Wang J, Zhao B. **Global health benefits and cost-effectiveness of indoor air purification to mitigate PM2.5 from wildfire smoke.** *Nature Health.* 2026. Available from: <https://doi.org/10.1038/s44360-026-00105-1>.

3. Han D, Guo Y, Wang J, Zhao B. **Global disparities in indoor wildfire-PM_{2.5} exposure and mitigation costs.** *Sci Adv.* 2025;11(20):eads4360. Available from: <https://www.science.org/doi/abs/10.1126/sciadv.ads4360>.
4. Health Canada. **Guidance for indoor air quality professionals.** Ottawa, ON: Health Canada; 2025. Available from: <https://recherche-collection-search.bac-lac.gc.ca/eng/home/preservica?pid=1d8479b3-88f0-4f58-8674-256934fe6c00&app=lacat&resource=folderlist>.
5. Lee J, Jo Y, Jeong J, Kim DJ, Lee H, Kim TH, et al. **Volatile organic compounds exposure and all health outcomes: An umbrella review and evidence map.** *Environ Res.* 2026;298:124196. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935126005268>.
6. McGarr GW, O'Connor FK, Kenny GP. **Effects of Ceiling Fans on Self-Reported Symptoms and Mood-State in Bed-Resting Older Adults Exposed to Indoor Overheating.** *J Am Geriatr Soc.* 2026. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/41833559>.
7. Mendell AY, Lee S, Siegel JA. **Contextual Factors That Impact the Performance of Portable Air Cleaners: A Critical Review.** *Environ Sci Tech.* 2026. Available from: <https://doi.org/10.1021/acs.est.5c12929>.
8. Mendell AY, Lee S, Siegel JA. **The impact of portable air cleaners on indoor particulate matter concentrations and perceptions of indoor air quality: a randomized crossover trial in three multifamily buildings.** *J Expo Sci Environ Epidemiol.* 2026. Available from: <https://doi.org/10.1038/s41370-026-00894-3>.
9. O'Connor FK, Meade RD, Janetos KT, Li-Maloney C, Sigal RJ, Boulay P, et al. **Effect of Ceiling Fans on Core Temperature in Bed-Resting Older Adults Exposed to Indoor Overheating.** *J Am Geriatr Soc.* 2026;74(1):200-4. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/41014079>.
10. Omari A, Foreman AM, Haas EJ, Moore SM, Damon SA, Marks KJ, et al. **Perceptions About Messaging and Constructs Relevant to Personal Protective Equipment (PPE) Use During Mold Cleanup Among Persons Affected by Hurricane Ida-Louisiana, USA, 2021.** *J Occup Environ Med.* 2026;68(2):138-45. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/40953020>.
11. Roslan NS, Mat MNH, Rani MFH. **A review of indoor air quality (IAQ) in classrooms: The effect of particulate matter (PM), gaseous pollutants, and airborne pathogens.** *Environmental pollution (Barking, Essex : 1987).* 2026;397:127966. Available from: <https://doi.org/10.1016/j.envpol.2026.127966>.
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14. Zhu A, Bahnfleth WP, Bruns R, Buonanno G, Fisman D, Gregory CO, et al. **Breaking Down Silos: A Multidisciplinary Approach to Mitigate Indoor Airborne Pathogen Transmission.** *Health Secur.* 2026;24(1):7-14. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/41674314>.

OUTDOOR AIR

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2. European Environment Agency. **Exposure to pollution linked to depression, anxiety and other mental health issues [press release]**. Copenhagen, Denmark: European Environment Agency; 2026 Mar. Available from: <https://www.eea.europa.eu/en/newsroom/news/exposure-to-pollution-linked-to-depression-anxiety-and-other-mental-health-issues>.
3. Franklin M, Wu JY, Ruiz B, Johnston J, Quist AJL. **Modeling community hydrogen sulfide exposure in an urban industrial area during routine and extreme events**. Environmental pollution (Barking, Essex : 1987). 2026;397:127916. Available from: <https://doi.org/10.1016/j.envpol.2026.127916>.
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5. IQ Air. **Live most polluted global major city ranking**. Steinach, Switzerland: IQ Air; 2026. Available from: <https://www.iqair.com/ca/world-air-quality-ranking>.
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RADON, OTHER

1. Saha U, Singh K, Cooper D, Turner P, Cantrell R. **Indoor Air Radon Testing Rate and Its Relationships with Various Socioeconomic and Public Health Factors in Georgia, USA**. Int J Environ Res Public Health. 2026;23(4):450. Available from: <https://www.mdpi.com/1660-4601/23/4/450>.

2. FOOD

FOOD SAFETY

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FOOD SECURITY

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transformations. Nature Food. 2026;7(3):234-46. Available from:

<https://doi.org/10.1038/s43016-026-01317-0>.

2. Verma KK, Song X-P, Liang Q, Xu L, Mishra KK, Chen G-L, et al. **Engineered nano-pesticides: a multifaceted strategy for sustainable crop protection and enhanced food security in the era of climate change.** Plant signaling & behavior. 2026;21(1):2633785. Available from: <https://doi.org/10.1080/15592324.2026.2633785>.

GROWING FOOD, OTHER

1. Duan Y, Sun Z, Zhang X, Wang P, Liang Y, Zhou Q, et al. **Human exposure to neonicotinoid insecticides: Safe or not?** Journal of Environmental Sciences. 2026;163:348-75. Available from: <https://www.sciencedirect.com/science/article/pii/S1001074225005571>.
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3. WATER

DRINKING WATER

1. Duncan C, Ibraheem M, Tam A, Egotak C, Maniyogina K, Klengenber F, et al. **Identifying drinking water safety hazards throughout an Arctic community's water supply system.** Water Res. 2026;288(Pt B):124689. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/41072346>.
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RECREATIONAL WATER

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SMALL WATER SYSTEMS

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WASTEWATER, OTHER

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4. CLIMATE CHANGE

EXTREME WEATHER

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