2023
EH Scan

National Collaborating Centre for Environmental Health
Centre de collaboration nationale en santé environnementale

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 7 (13) MASTER LIST 2023

AIR QUALITY • Indoor air • Outdoor air • Radon, Other	**CLIMATE CHANGE** • Extreme weather • Flooding • Sea level rise • Wildfires, Other	**DISEASES, VECTORS, PESTS** • COVID-19 • Animal vectors • Insect vectors • Pests, Other
FOOD • Food safety • Food security • Growing 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
SPECIFIC POPULATIONS (children, Indigenous Peoples, older adults, other)		

Environmental Health (EH) Research Scan: Aims and dcope
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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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.

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ENVIRONMENTAL HEALTH RESEARCH SCAN

THIS IS A SPECIAL DECEMBER ISSUE WHICH PROVIDES A CUMULATIVE LIST OF ENVIRONMENTAL HEALTH RESOURCES COLLECTED FROM APRIL 2023 TO DECEMBER 2023.

SELECTED RESOURCES

BLOGS

1. Myre M, Glenn N. **Reflections on supporting community psychosocial well-being after a flood [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 05 10 May 10. Available from: https://ncceh.ca/content/blog/reflections-supporting-community-psychosocial-well-being-after-flood.
2. O'Keeffe J. **Staying current with Canadian drinking water guidelines [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 05 31 May 31. Available from: https://ncceh.ca/content/blog/staying-current-canadian-drinking-water-guidelines.
3. Elmieh N. **Reducing tick-related risks through improved design and maintenance in outdoor environments [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 06 20 Jun 20. Available from: https://ncceh.ca/content/blog/reducing-tick-related-risks-through-improved-design-and-maintenance-outdoor.
4. James K. **Fermented foods safety guidance: a new resource for public health practitioners [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 06 20 Jun 20. Available from: https://ncceh.ca/resources/blog/fermented-foods-safety-guidance-new-resource-public-health-practitioners.
5. James K. **Fermented foods safety guidance: a new resource for public health practitioners – uupdated [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 10 06 Oct 6. Available from: https://ncceh.ca/resources/blog/fermented-foods-safety-guidance-new-resource-public-health-practitioners.
6. National Collaborating Centre for Environmental Health. **2024 Core competencies for public health in Canada [blog]**. Vancouver, BC: NCCEH; 2023 10 20 Oct 20. Available from: https://ncceh.ca/resources/blog/2024-core-competencies-public-health-canada.
7. O'Keeffe J. **Bed bugs back in view [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 11 29 Nov 29. Available from: https://ncceh.ca/resources/blog/bed-bugs-back-view.
8. James K. **Fermented foods safety guidance: a new resource for public health practitioners - updated [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 12 11 Dec 11. Available from: https://ncceh.ca/resources/blog/fermented-foods-safety-guidance-new-resource-public-health-practitioners.

E-NEWS

1. National Collaborating Centre for Environmental Health. **NCCEH eNews (Apr 2023): Review of environmental management strategies to reduce tick populations; more...** Vancouver, BC: NCCEH; 2023 04 18 Apr 18. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=cvHzJBuKdo2N6M5-3wFbi_MDPQALZbXdShr-BrVeubBdrvOX0RuABOe1utao9qG1dpwECc7U7VYijqKzKkYqpA~~.
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3. National Collaborating Centre for Environmental Health. **NCCEH eNews (June 2023): Foodborne illness outbreaks: recommendations for collaborative investigations; more...** Vancouver, BC: NCCEH; 2023 06 22 Jun 22. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=SDWvhiTx-8Rf3wmEtbMTgo60LJv7i_3zMIyZjiCks-7Q8V26ss4Z43VUvUWNLsszruCa4RFzWxDZjGM69e405Q~~.
4. National Collaborating Centre for Environmental Health. **NCCEH eNews (July 2023): Reducing tick-related risks through improved design and maintenance in outdoor environments; more...** Vancouver, BC: NCCEH; 2023 07 20 Jul 20. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=TabAqziyJQHKjTWqnZAxfxGh8rapeZa6eyidMAUaBlYxzm2NAZwWQMVq7s0B95QEqQBuhQN3_qR_Yx3giCwzKQ~~.
5. National Collaborating Centre for Environmental Health. **NCCEH eNews (August 2023): Pulsed electric fields: a potential alternative technology for parasite control in fish; more...** Vancouver, BC: NCCEH; 2023 08 23 Aug 23. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=HCp7dBNSYCeQvoDQuivYEZiifmjATpgGZ7SDVYcYPOOi_aaqH8fQAH3RgOCkyHmBB7FENUQIeUqssjJqdQOxnQ~~.
6. National Collaborating Centre for Environmental Health. **NCCEH eNews (September 2021): Urban rewilding and public health considerations; more...** Vancouver, BC: NCCEH; 2023 09 21 Sep 21. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=NCYF5lI09gSdZ5nNrfWCY72WUutD2QjRhWy0PFRRIrWWLK9295JhgeovdWqVnyNFPIb-gsLo5ZJCUPlo0K4zSg~~.
7. National Collaborating Centre for Environmental Health. **NCCEH eNews (October 2021): Can we reduce inevitable exposures to chemicals of concern?; more...** Vancouver, BC: NCCEH; 2023 10 19 Oct 21. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=Y73JpsQVzP3gtv2eFQMrAtdJZBETU3tUWMMfEuTIFOuSZoKjKygFDY2HzSJUZfeivRlaUKO5PxUSnM52vfsx7w~~.
8. National Collaborating Centre for Environmental Health. **NCCEH eNews (November 2021): Radon, energy retrofits, and impacts on indoor air quality; more...** Vancouver, BC: NCCEH; 2023 11 16 Nov 16. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=M4y29sqQ2dIiFCTYBmLiG_J-TetrWBjOKNZgi8tEhpBhPff_XsALHqCI2ehNE88WT6Uwfh3eoDFWrEuStMomnA~~.

9. National Collaborating Centre for Environmental Health. **NCCEH eNews (December 2023): Bed bugs back in view; more...** Vancouver, BC: NCCEH; 2023 12 14 Dec 14. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=bNKJgXmxTjLQfiT9rP0WeZg8ZDJjNLTL6BSA00Mf79TVezXXz7AnhDG2ypVRlsQxJCjEGTaiWvq_gjV0BEo_Ag~~.

EVIDENCE BRIEFS, RESOURCE SCANS

1. Wade T. **A synthesis of project findings: sea level rise and public health implications [evidence brief]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 04 12 Apr 12. Available from: https://ncceh.ca/resources/evidence-briefs/synthesis-project-findings-sea-level-rise-and-public-health-implications.
2. National Collaborating Centre for Environmental Health. **April research scan**. Vancouver, BC: NCCEH; 2023 04 18 Apr 18. Available from: https://ncceh.ca/content/blog/april-2023-research-scan-covid-19-sections.
3. National Collaborating Centre for Environmental Health. **May research scan**. Vancouver, BC: NCCEH; 2023 05 18 May 18. Available from: https://ncceh.ca/content/blog/may-2023-research-scan-covid-19-sections.
4. National Collaborating Centre for Environmental Health. **June research scan**. Vancouver, BC: NCCEH; 2023 06 21 Jun 21. Available from: https://ncceh.ca/sites/default/files/2023-06/NCCEH%20Research%20Scan%20-202306%20with%20COVID-19%20-FOR%20POSTING.pdf.
5. O'Keeffe J. **Avian influenza A(H5N1) and the continuing outbreak [evidence brief]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 07 11 Jul 11. Available from: https://ncceh.ca/resources/evidence-briefs/avian-influenza-ah5n1-and-continuing-outbreak.
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7. Chen T. **Pulsed electric fields: potential emerging technology to reduce parasites in fish [evidence brief]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 08 23 Aug 23. Available from: https://ncceh.ca/resources/evidence-briefs/pulsed-electric-fields-potential-alternative-technology-parasite-control.
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9. Rosenkrantz L. **Urban rewilding and public health considerations [evidence brief]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 08 31 Aug 31. Available from: https://ncceh.ca/resources/evidence-briefs/urban-rewilding-and-public-health-considerations.
10. National Collaborating Centre for Environmental Health. **September research scan**. Vancouver, BC: NCCEH; 2023 09 21 Sep 21. Available from: https://ncceh.ca/sites/default/files/2023-09/NCCEH%20Research%20Scan%20-202309.pdf.

11. National Collaborating Centre for Environmental Health. **October research scan**. Vancouver, BC: NCCEH; 2023 10 19 Oct 19. Available from: https://ncceh.ca/sites/default/files/2023-10/NCCEH%20Research%20Scan%20-202310.pdf.
12. National Collaborating Centre for Environmental Health. **November research scan**. Vancouver, BC: NCCEH; 2023 11 16 Nov 16. Available from: https://ncceh.ca/sites/default/files/2023-11/NCCEH%20Research%20Scan%20-202311.pdf.
13. National Collaborating Centre for Environmental Health. **December research scan**. Vancouver, BC: NCCEH; 2023 12 14 Dec 14. Available from: https://ncceh.ca/sites/default/files/2023-12/NCCEH%20Research%20Scan%20-202312.pdf.

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3. Diplock K. **Foodborne illness outbreaks: recommendations for collaborative investigations [evidence review]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 05 05 May 5. Available from: https://ncceh.ca/documents/evidence-review/foodborne-illness-outbreaks-recommendations-collaborative-investigations.
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6. National Collaborating Centre for Methods and Tools, National Collaborating Centre for Environmental Health. Rapid Review: **What is the evidence for the effectiveness of public health interventions, and their potential unintended consequences, to reduce the direct and indirect health impacts of exposure to wildfires, including wildfire smoke and combined heat-wildfire smoke events?** Winnipeg, MB and Vancouver, BC: NCCMT and NCCEH; 2023 10 31 Oct. Available from: https://www.nccmt.ca/rapid-evidence-service/59.

JOURNAL ARTICLES

1. Wyatt LH, Cleland SE, Wei L, Paul N, Patil A, Ward-Caviness C, et al. **Long-term exposure to ambient O3 and PM2.5 is associated with reduced cognitive performance in young adults: A retrospective longitudinal repeated measures study in adults aged 18–90 years**. Environ Pollut. 2023 03 01;320:121085. Available from: https://www.sciencedirect.com/science/article/pii/S0269749123000878.
2. Lee MJ, McLean KE, Kuo M, Richardson GRA, Henderson SB. **Chronic diseases associated with mortality in British Columbia, Canada during the 2021 Western North America extreme heat event**. GeoHealth. 2023 03 15;7(3):e2022GH000729. Available from: https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2022GH000729.
3. Coker ES, Saha Turna N, Schouwenburg M, Jalil A, Bradshaw C, Kuo M, et al. **Characterization of the short-term temporal variability of road dust chemical mixtures and meteorological profiles in a near-road urban site in British Columbia**. J Air Waste Manag Assoc. 2023 05 24;73(6):502-16. Available from: https://doi.org/10.1080/10962247.2023.2186964.
4. Andrade-Rivas F, Paul N, Spiegel J, Henderson SB, Parrott L, Delgado-Ron JA, et al. **Mapping potential population-level pesticide exposures in Ecuador using a modular and scalable geospatial strategy**. GeoHealth. 2023 07 07;7(7):e2022GH000775. Available from: https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2022GH000775.
5. Dickson J, Lee M, Jones K, Ebrahim iG, Henderson S. **Monitoring temperature variability inside a healthcare facility during an extreme heat event using low-cost sensors**. J Hosp Manag Health Policy. 2023 11 02. Available from: https://jhmhp.amegroups.org/article/view/8312/pdf.

ONLINE COURSES

1. National Collaborating Center for Environmental Health. **Ready-to-eat meats online course: Assessing the food safety risks. Training and education**. Online course. Vancouver, BC: National Collaborating Center for Environmental Health; 2018. Available from: http://www.ncceh.ca/content/ready-eat-meats-online-course-assessing-food-safety-risks.
2. National Collaborating Centre for Environmental Health. **Mould Investigation: an online course for public health professionals [online course]**. Vancouver, BC: National Collaborating Center for Environmental Health; 2020 03 Mar 17. Available from: http://www.ncceh.ca/content/mould-investigation-online-course-public-health-professionals.

ONLINE FORUM

1. National Collaborating Center for Environmental Health. **Healthy built environment [online forum]**. Vancouver, BC: National Collaborating Center for Environmental Health; 2018; Available from: https://ncceh.ca/hbe-forum?_ga=2.186487081.1630539428.1682258180-1834553364.1670680643
2. National Collaborating Center for Environmental Health. **Cyanobacteria - LinkedIn [online forum]**. Vancouver, BC: National Collaborating Center for Environmental Health; 2019 05; Available from: https://www.linkedin.com/groups/8779394/.

3. National Collaborating Center for Environmental Health. **National mosquito working group**. Vancouver, BC: National Collaborating Center for Environmental Health; 2022.

SUBJECT GUIDES

1. National Collaborating Center for Environmental Health. **Psychosocial impacts of disasters: resources for mitigation, response and recovery [subject guide]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 04 26 Apr 26. Available from: https://ncceh.ca/environmental-health-in-canada/health-agency-projects/psychosocial-impacts-disasters-resources.
2. National Collaborating Center for Environmental Health. **Mould: assessment, remediation and building for resilience [subject guide]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 04 26 Apr 26. Available from: https://ncceh.ca/environmental-health-in-canada/health-agency-projects/mould-assessment-remediation-and-building.
3. National Collaborating Center for Environmental Health. **Floods: prevention, preparedness, response and recovery [subject guide]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 04 26 Apr 26. Available from: https://ncceh.ca/environmental-health-in-canada/health-agency-projects/floods-prevention-preparedness-response-and.
4. National Collaborating Centre for Environmental Health. **The health impacts of drought in Canada [subject guide]**. Vancouver, BC: NCCEH; 2023 04 28 Apr 28. Available from: https://ncceh.ca/environmental-health-in-canada/health-agency-projects/health-impacts-drought-canada.
5. National Collaborating Center for Environmental Health. **Extreme heat [subject guide]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 05 10 May 10. Available from: https://ncceh.ca/environmental-health-in-canada/health-agency-projects/extreme-heat.
6. National Collaborating Center for Environmental Health. **Earthquake resources for environmental public health professionals [subject guide]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 05 31 May 31. Available from: https://ncceh.ca/environmental-health-in-canada/health-agency-projects/earthquake-resources-environmental-public.
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8. National Collaborating Centre for Environmental Health. **The health impacts of drought in Canada - updated [subject guide]**. Vancouver, BC: NCCEH; 2023 09 08 Sep 8. Available from: https://ncceh.ca/resources/subject-guides/health-impacts-drought-canada.
9. National Collaborating Centre for Environmental Health. **Bed bugs [subject guide]**. Vancouver, BC: NCCEH; 2023 11 10 Nov 10. Available from: https://ncceh.ca/resources/subject-guides/bed-bugs.

WEBINARS

1. Wade T. **Adaptation planning for sea level rise - understanding the public health implications [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 04 12 Apr 12. Available from: https://ncceh.ca/content/webinar-recording-adaptation-planning-sea-level-rise-understanding-public-health.
2. Brauer M. **An old issue on the front burner: health and environmental impacts of gas stoves [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 04 19 Apr 19. Available from: https://ncceh.ca/events/upcoming-webinars/old-issue-front-burner-health-and-environmental-impacts-gas-stoves.
3. Craig M, Patterson B. **Rapid implementation of bikeways for healthy, safe, equitable and more sustainable communities** [healthy built environment webinar]. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 05 24 May 24. Available from: https://ncceh.ca/events/upcoming-webinars/rapid-implementation-bikeways-healthy-safe-equitable-and-more-sustainable#:~:text=Rapid%20implementation%20facilitates%20an%20urgent,and%20increasingly%20constrained%20municipal%20budgets.
4. Elmieh N. **Managing tick-related risks in outdoor environments [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 05 31 May 31. Available from: https://ncceh.ca/content/webinar-recording-managing-tick-related-risks-outdoor-environments.
5. Diplock K. **The role of environmental public health professionals in collaborative foodborne illness outbreak investigations [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 06 28 Jun 28. Available from: https://ncceh.ca/events/upcoming-webinars/role-environmental-public-health-professionals-collaborative-foodborne.
6. Phillips T. **Keeping our cool: preventing overheated buildings in the climate crisis [healthy built environment webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 07 20 Jul 20. Available from: https://ncceh.ca/events/upcoming-webinars/keeping-our-cool-preventing-overheated-buildings-climate-crisis.
7. Richardson G, Fard E, Barrow E, Brown C. **Project, prepare, and protect: using climate data and tools to understand future extreme heat [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 08 16 Aug 16. Available from: https://ncceh.ca/events/upcoming-webinars/project-prepare-and-protect-using-climate-data-and-tools-understand-future.
8. Kovacevic J. **Antimicrobial resistance and food safety: a public health challenge [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 08 30 Aug 30. Available from: https://ncceh.ca/events/upcoming-webinars/antimicrobial-resistance-and-food-safety-public-health-challenge.
9. Gibbs C, Eicker U. **City player – neighborhood-scale citizen engagement [healthy built environment webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 09 21 Sep 21. Available from: https://ncceh.ca/events/upcoming-webinars/city-player-neighborhood-scale-citizen-engagement#:~:text=It's%20called%20City%20Player%20and,future%20developments%20in%20that%20area.

10. Anastasopolos AT, Rouleau M. **Health impacts of air pollution from transportation, industry and residential sources in Canada [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 09 23 [updated Sep 23]; Available from: https://ncceh.ca/events/upcoming-webinars/health-impacts-air-pollution-transportation-industry-and-residential.
11. Fuller D. **INTerventions, Equity, Research and Action in Cities Team (INTERACT): Research and knowledge translation for scaling our understanding of health and the built environment** [healthy built environment webinar]. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2023 11 22 Nov 22. Available from: https://ncceh.ca/events/upcoming-webinars/interventions-equity-research-and-action-cities-team-interact-research-and.
12. Calvin S. **One Health Approach to Risk Assessment (OHARA) [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2023 12 06 Dec 6. Available from: https://ncceh.ca/events/upcoming-webinars/one-health-approach-risk-assessment-ohara.
13. Khoury C, Werry K. **Human biomonitoring of environmental chemicals: current use and future directions [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2024 01 25 Jan 25. Available from: https://ncceh.ca/events/upcoming-webinars/human-biomonitoring-environmental-chemicals-current-use-and-future.

1. AIR QUALITY

INDOOR AIR

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2. American Public Health Association. Gas Stove Emissions Are a Public Health Concern: Exposure to Indoor Nitrogen Dioxide Increases Risk of Illness in Children, Older Adults, and People with Underlying Health Conditions. APHA; 2022 Nov 8. Available from: https://www.apha.org/Policies-and-Advocacy/Public-Health-Policy-Statements/Policy-Database/2023/01/18/Gas-Stove-Emissions.
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11. 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.
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13. CHILD Cohort Study. **CHILD provides first Canadian data on gas stove use and asthma risk**. CHILD Study; 2023 06 01. Available from: https://childstudy.ca/gas-stoves-asthma/?utm_source=rss&utm_medium=rss&utm_campaign=gas-stoves-asthma.
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4. CLIMATE CHANGE

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PLANNING & DESIGN

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8. PUBLIC HEALTH FUNDAMENTALS

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10. SPECIFIC POPULATIONS

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