

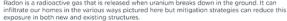
BC Radon Data Repository (BCRDR)

An initiative to support public health research and planning

Jeffrey Trieu
Environmental Health Services
BC Centre for Disease Control

Where can we <u>currently</u> find BC indoor radon data?











Where can we find BC indoor radon data in the future?

Industry, research groups, government agencies, etc.

BC Radon Data Repository (BCRDR)





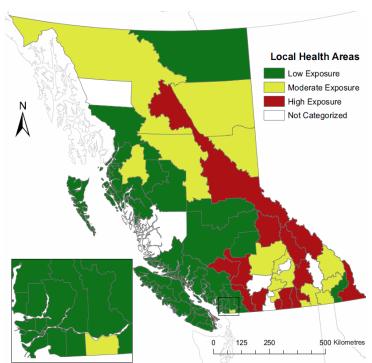


Secure
Living
Accessible
Flexible use





Has BC indoor radon data been compiled before?

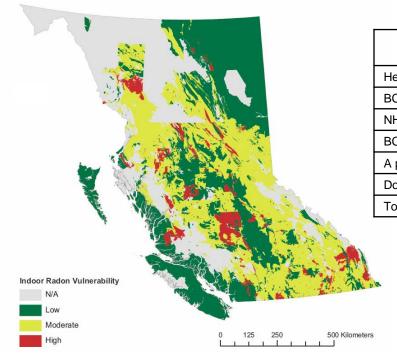


	Rauch & Henderson, 2013	
Health Canada	1,817	
BCCDC	1,449	
NHA	339	
BC Lung	263	
Total sample size*	3,867	





Has BC indoor radon data been compiled before?

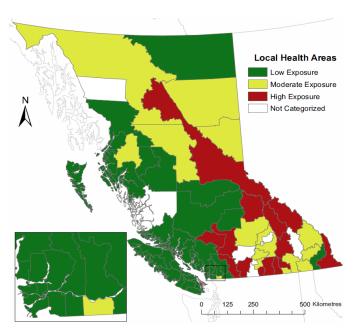


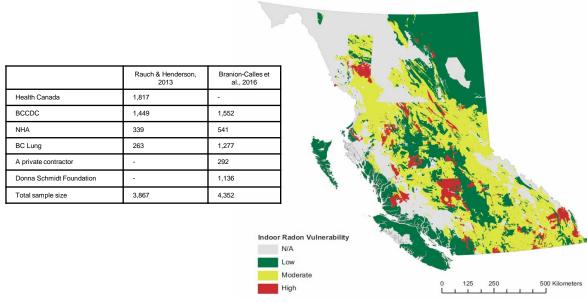
	Rauch & Henderson, 2013	Branion-Calles et al., 2016
Health Canada	1,817	-
BCCDC	1,449	1,552
NHA	339	541
BC Lung	263	1,277
A private contractor	-	292
Donna Schmidt Foundation	-	1,136
Total sample size*	3,867	4,352





Has BC indoor radon data been compiled before?









How are we compiling data into the BCRDR?

Confirmed and potential contributors at this point in time:



Health Canada

EVICT RADON







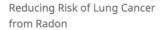




Donna Schmidt Lung Cancer Prevention Society











How are we compiling data into the BCRDR?

- Data sharing talks are underway with a variety of parties
- Starts with an data sharing agreement
 - Contributor gives custody of data to BCCDC, but continues to own their data
 - No attempts to re-identify individuals/households
 - No attempts to link with other datasets on person-level

No person level data!





What kind of data will the BCRDR hold?



Radon is a radioactive gas that is released when uranium breaks down in the ground. It can infiltrate our homes in the various ways pictured here but mitigation strategies can reduce this exposure in both new and existing structures.



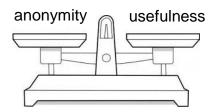




Example: BCCDC, 655 W 12th Ave, V5Z 4R4, Vancouver, BC

No person level data







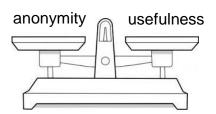


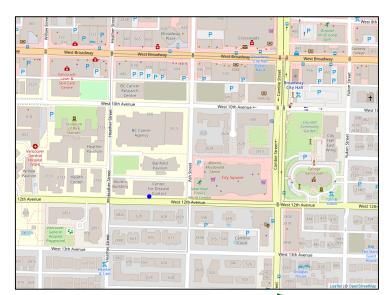


Example: V5Z 4R4 (1209859, 475850.6)

No person level data











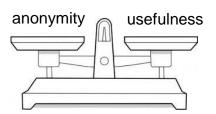
Example: (1209859, 475850.6) (1209904, 475813.6)

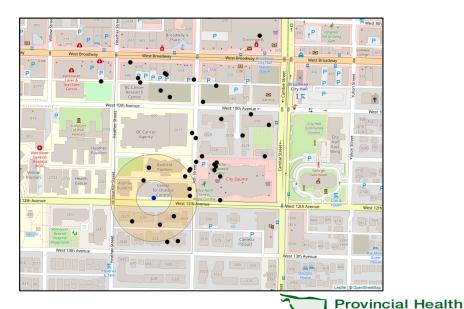


Services Authority

No person level data





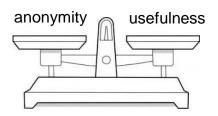


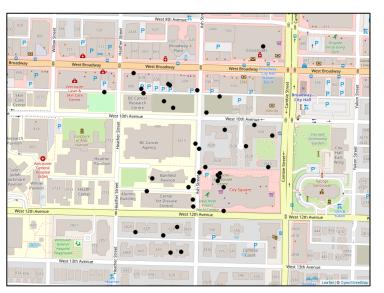


Example: (1209904, 475813.6) + FSA + LHA + etc.

No person level data







Point-based maps

Flexible use





How can external users access BCRDR data?

- Through application stating:
 - Project objectives
 - Expected outcomes
 - Team members
 - Data handling
- Acceptable uses:
 - Radon-related research
 - Mapping to support health protection and policy initiatives
- Data released for specific request
- BCCDC to contribute/review data requesters' outputs

http://www.bccdc.ca/about/accountability/data-access-requests







Where are we at now?



What's next?



Health Canada



BRITISH COLUMBIA LUNG ASSOCIATION









Donna Schmidt Lung Cancer Prevention Society

Reducing Risk of Lung Cancer from Radon









References

Branion-Calles, M. C., Nelson, T. A., & Henderson, S. B. (2016). A geospatial approach to the prediction of indoor radon vulnerability in British Columbia, Canada. *J Expo Sci Environ Epidemiol*, 26(6), 554-565. doi:10.1038/jes.2015.20

Henderson, S. B., Rauch, S. A., Hystad, P., & Kosatsky, T. (2014). Differences in lung cancer mortality trends from 1986-2012 by radon risk areas in British Columbia, Canada. *Health Phys*, *106*(5), 608-613. doi:10.1097/HP.000000000000000

Rauch, S. A., & Henderson, S. B. (2013). A comparison of two methods for ecologic classification of radon exposure in British Columbia: residential observations and the radon potential map of Canada. *Canadian Journal of Public Health*, 104(3), e240-e245.





BC Centre for Disease Control

Provincial Health Services Authority

Acknowledgements:

Sarah Henderson Ciaran Aiken Anne-Marie Nicol CAREX Canada



Thank you for your time!

Questions, comments, conversations?

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