

Radon Updates

DANIELLE RAY, MA

BREATHE RADON POLICY DIVISION

KCC WEBINAR, APRIL 30, 2019

FREE Radon Continuing Education

5.5% increase in CE completions
last quarter (108 to 114)

- 155 people have signed up for the CE
 - 16 in progress
 - 7 not started
 - 4 post-assessment pending

Renewed Radon CE course for an
additional three years, 2019-2022

Is RADON the Missing Piece?
It Takes 2

reduce
Radon

eliminate
**Tobacco
Smoke**

Save More Lives from Lung Cancer

Did you know?
The lifetime risk of
radon-induced lung
cancer is 62 per
1,000 ever smokers
compared to 7 per
1,000 never smokers.

Learn how to talk with patients about radon. Earn 3 FREE CE hours.
Get started at: tinyurl.com/RadonCE-HealthProfessionals for CHES, CME, RRT, RS & other CEs
tinyurl.com/RadonCE-Nurses for KBN CEs

UK College of
Nursing

BREATHE
Bridging Research Efforts and Advocacy
Toward Healthy Environments

UK College of
Medicine

This activity is jointly provided by the University of Kentucky College of Nursing, College of Medicine and the Kentucky State Radon Program

Mapping Radon Risk

Partnership with Kentucky Geological Survey

- Radon maps that show variation in radon risk potential
 - 60,000 observed home radon values
 - Underlying rock type data
 - KGS interactive map
 - <https://www.uky.edu/KGS/radon/index.php>
- Our county-by-county radon data
<http://www.uky.edu/breathe/radon/radon-data-county>

Geologic Radon Map Infographics

Are you in danger from **RADON** in Warren County?

Radon is a naturally occurring, radioactive gas.

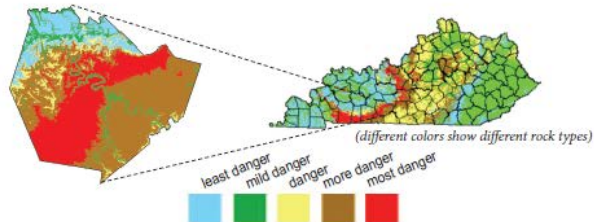
- It cannot be seen, smelled or tasted.
- It may seep into your home from the rocks below.
- It is the second leading cause of lung cancer.

TEST YOUR HOME • KNOW YOUR LEVEL

For a radon test kit, contact the Kentucky Radon Program at (502) 564-4856.

Certain types of rock have higher levels of radon:

Radon is a problem in many areas in Kentucky, including Warren county.

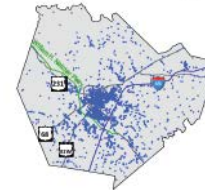


Smoking and radon:

Breathing radon is dangerous, but it is even *more* harmful when you also breathe tobacco smoke.



In Warren County:



Blue dots show homes already tested for radon.



More homes in Warren County need to be tested.

To Do List:

- ✓ **TEST** your home for radon.
- ✓ **TALK** with a health care provider about your results.
- ✓ **FIX** your home if the level is high. Call a certified radon professional.
- ✓ **ASK** people to smoke outside.
- ✓ **TELL** your loved ones about the dangers of radon and tobacco smoke.

TEST YOUR HOME • KNOW YOUR LEVEL

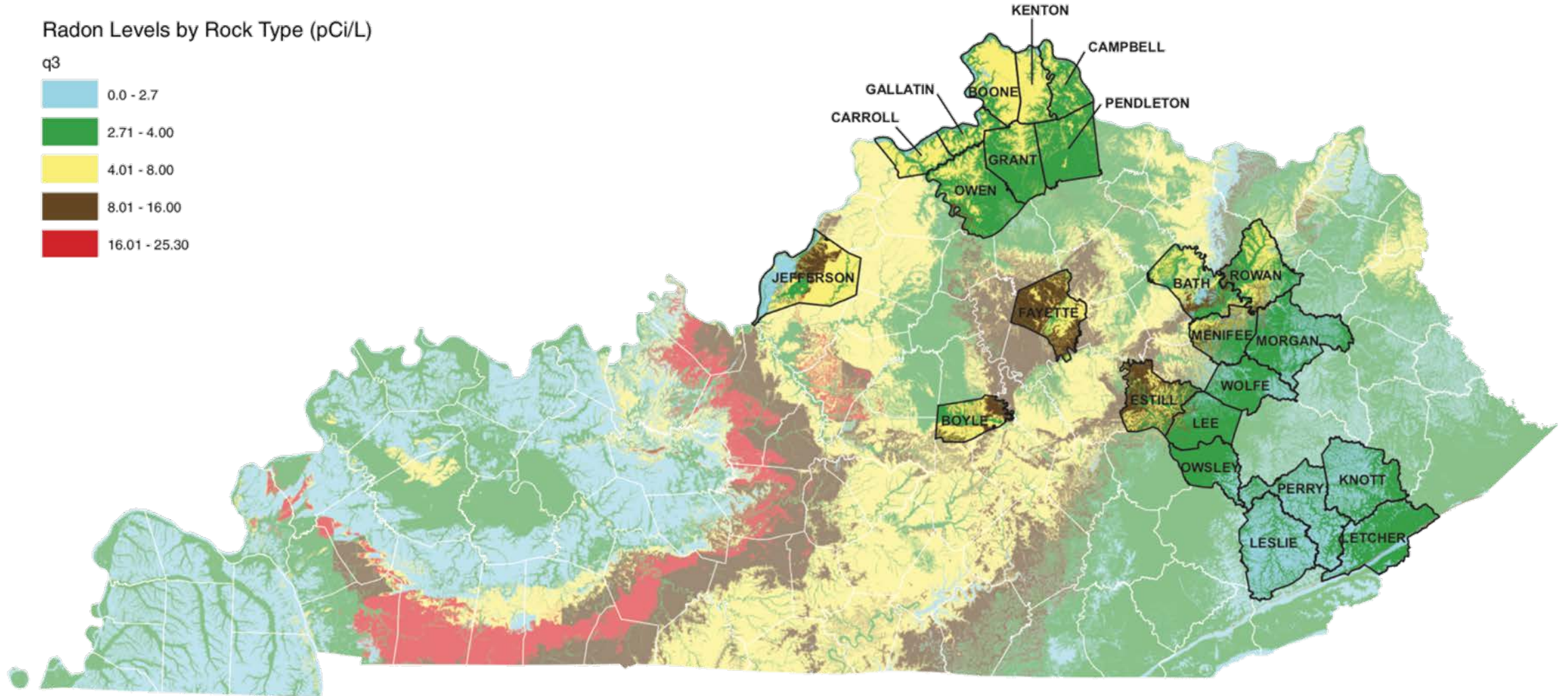
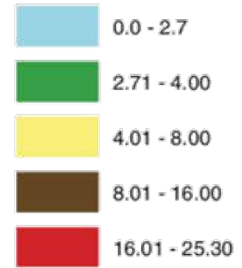
For a radon test kit, contact the Kentucky Radon Program at (502) 564-4856.

For more information about the maps, contact BREATHE at (859) 257-7028.

Kentucky Counties With Radon Programs

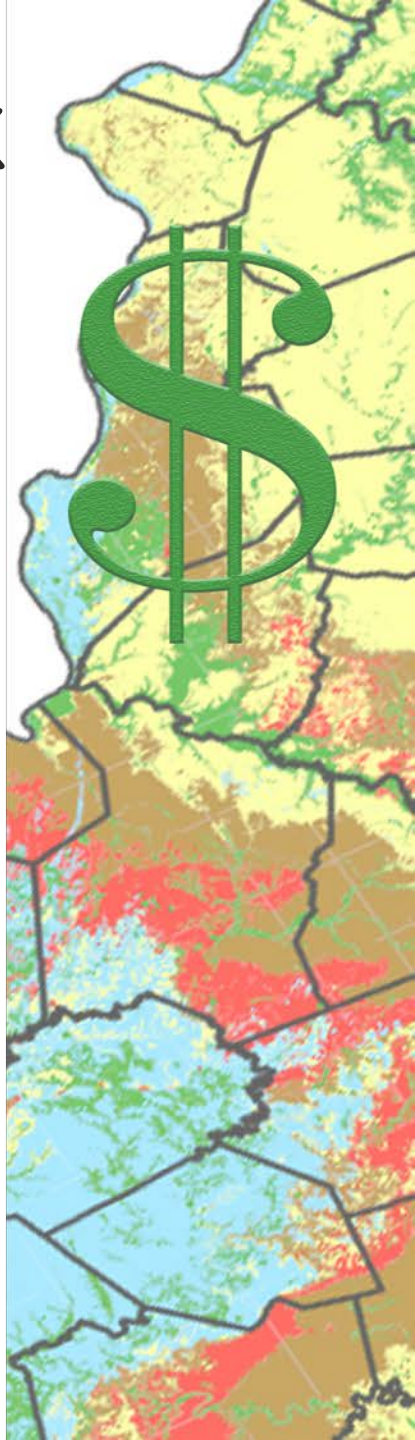
Radon Levels by Rock Type (pCi/L)

q3



Monetizing Valuation of Our Radon Risk Potential Maps in Kentucky

- Value of information (VOI) techniques to estimate the economic impacts associated with lung cancer for scenarios with and without access to the radon potential maps.
- 9-step process to estimate the monetary value in lives saved through the use of geologic maps to convey radon potential risk in Kentucky



The Bottom Line

Our geologic radon potential maps

- increase radon testing & radon mitigation
- lower new cases of lung cancer and years of potential lives lost
- save \$2.4M - \$3.8M per year



FRESH Findings

Homeowners who received FRESH were more ready to test for radon and air nicotine and to mitigate for radon compared to controls. The effect diminished after 9 months.

- Including a booster at 9 months after FRESH may improve the remediation rate, thereby decreasing exposure.

Those who perceived higher synergistic risk (tobacco smoke + radon) were more likely to take action to remediate for radon over time.

- Urgent need to maximize provider-patient conversations about these combined environmental hazards

Providing free in-person test kits in primary care settings with telephonic report back improved readiness to take action to remediate for radon and SHS.



House Bill 420

Updates language in **KRS 211.9101** to require radon professionals to be certified before performing mitigation or home alterations

- Sponsored by Rep. Adam Bowling (R—Bell, Harlan [partial])
- Attempt to ensure radon mitigation quality and safety of residents with radon concerns or risk
- **Requirements:**
 - Complete a registration process prescribed by CHFS through promulgation of an administrative regulation
 - Provide proof of a general liability insurance policy
- Assigned to the House Veterans, Military Affairs & Public Protection Committee and Senate Health & Welfare Committee
- **Passed March 14, 2019**
- **Signed by Gov. Bevin on March 26, 2019**

Radon Litigation Dismissal

Civil Action regarding **KRS 211.9101** dismissed in Franklin Circuit Court

- International Association of Certified Home Inspector, et al. v. Cabinet for Health and Family Services, et al.
 - Dismissed April 2, 2019



For more information, contact
Ellen Hahn, PhD, RN, FAAN
Professor & Director, UK BREATHE
ejhahn00@email.uky.edu
breathe.uky.edu/radon