



A Full Service Radon Testing, Mitigation & Remediation Company providing peace of mind from Radon in homes and businesses throughout Southeastern PA and the Tri-State Area.

**RADON**  
IS YOUR FAMILY AT RISK?

[www.RadonRid.com](http://www.RadonRid.com)

| [info@RadonRid.com](mailto:info@RadonRid.com)

| 610-222-2273

# **RADON...**

- Is found all over the US.
- Is a naturally occurring radioactive gas without color, odor or taste that comes from the radioactive decay of uranium in soil, rock and groundwater.
- Emits ionizing radiation during its radioactive decay to several radioactive isotopes known as radon decay products.



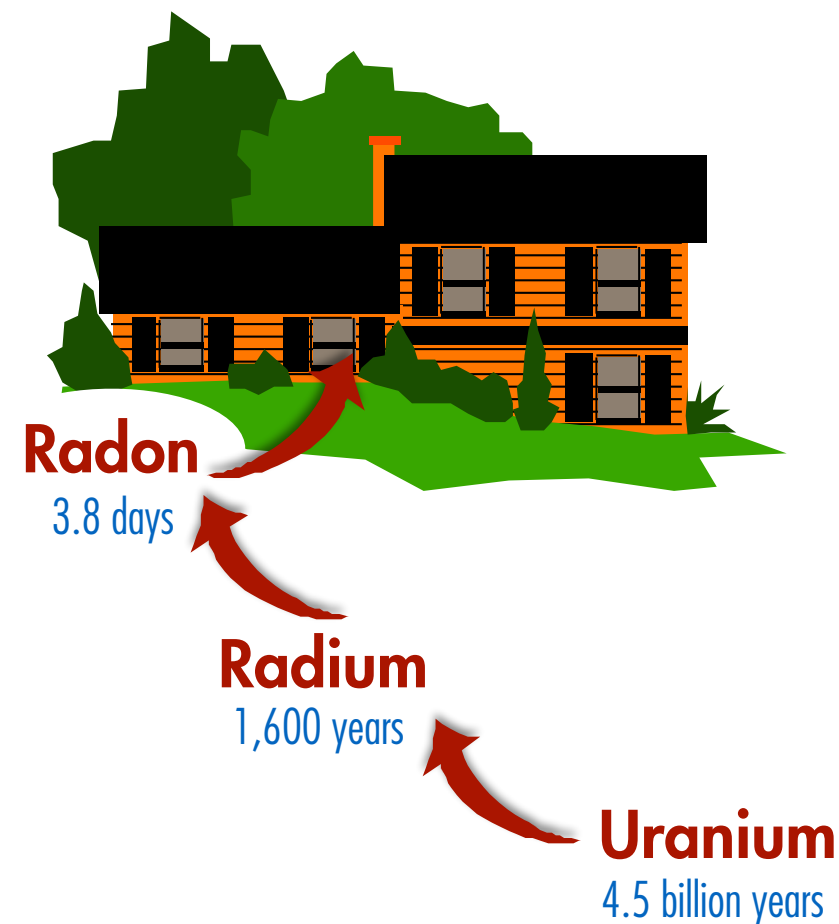
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# Uranium is the source for RADON – 222 in the chart of elements

- Radon is a gas
- It is naturally occurring
- You cannot see or smell it
- It enters building from the soil



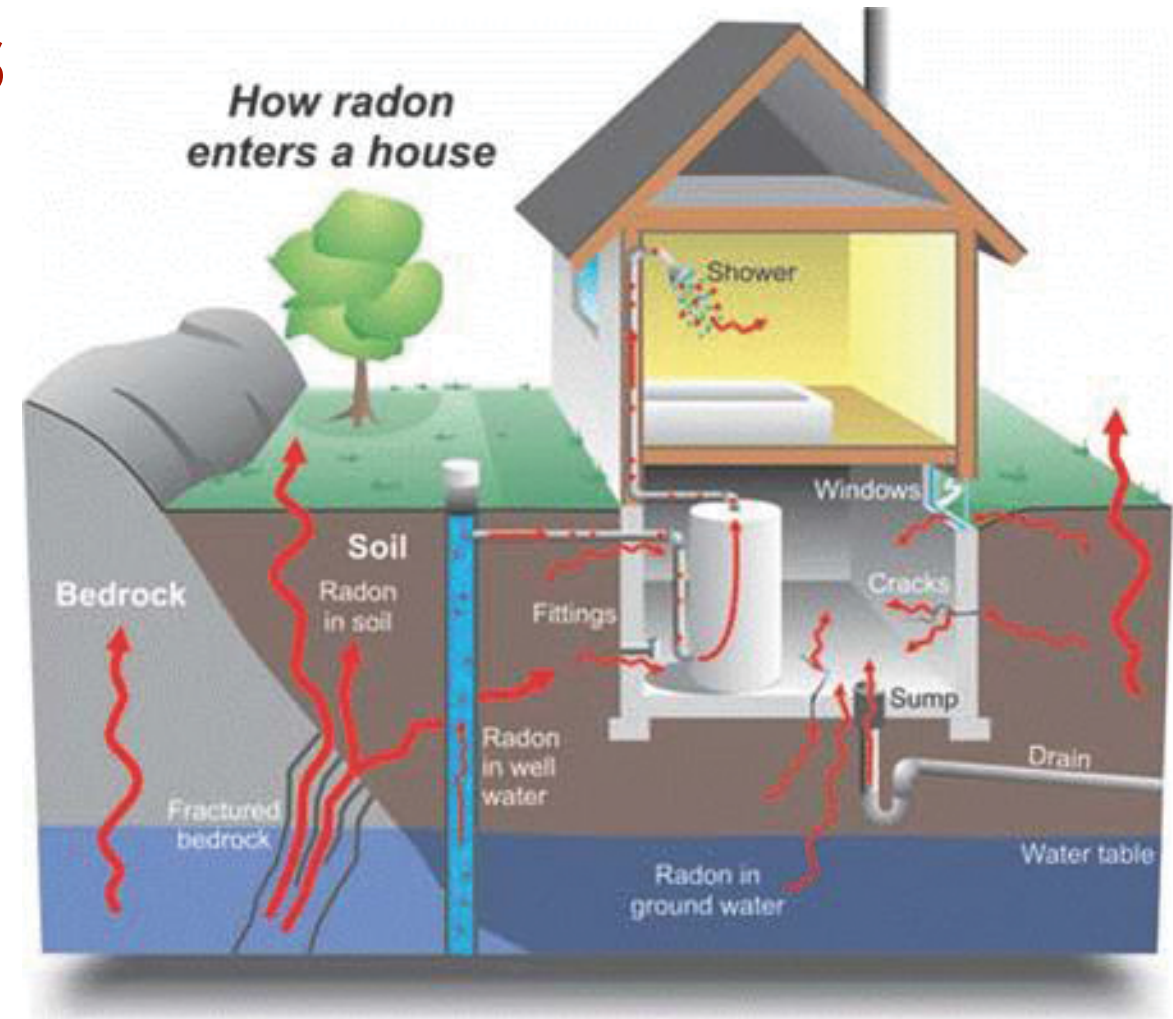
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# Common RADON entry points

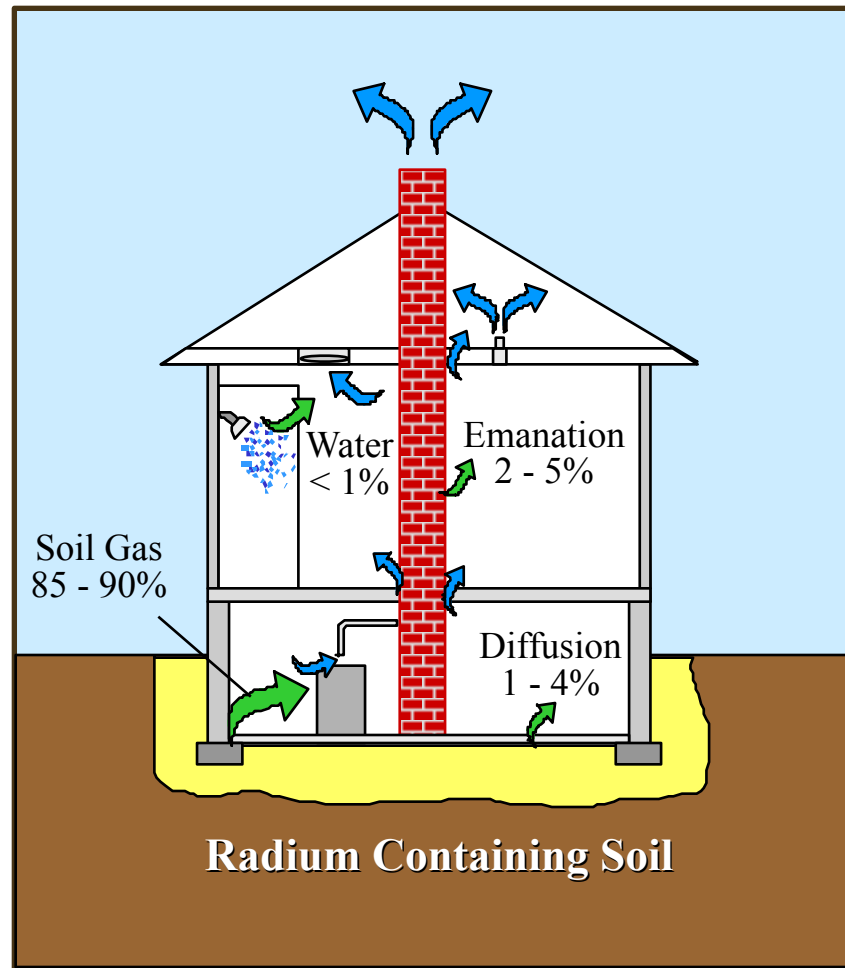
Radon gets into the indoor air primarily from soil under homes and buildings.



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## Average Contributions From RADON Sources In US Homes

The movement of soil gas into a home is the predominant entry route. These are averages, each home is different!



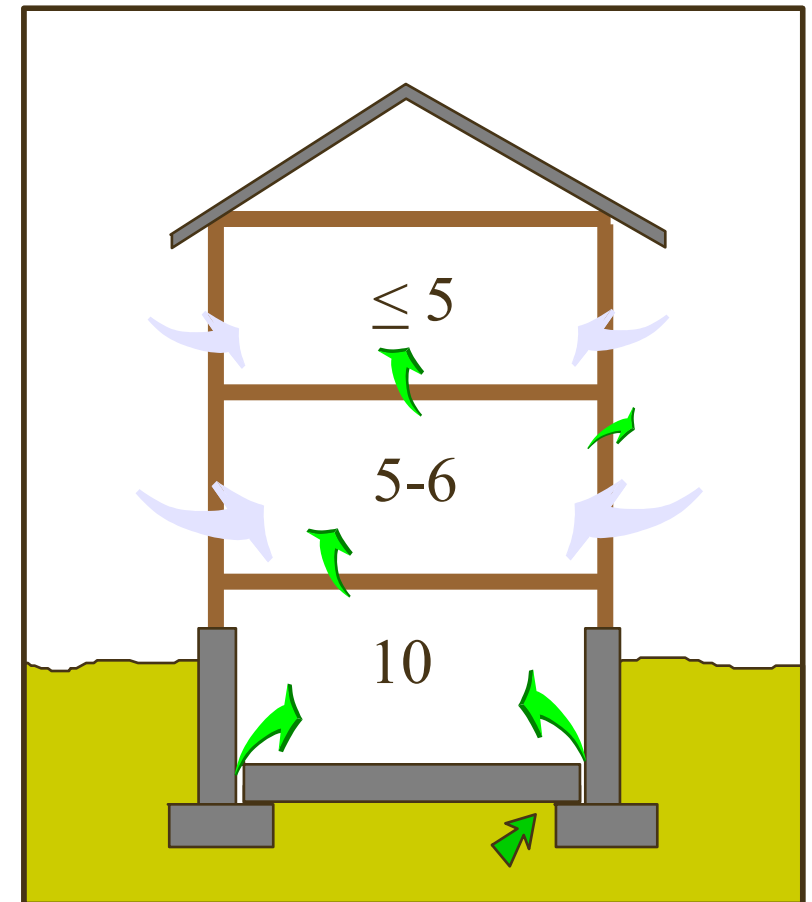
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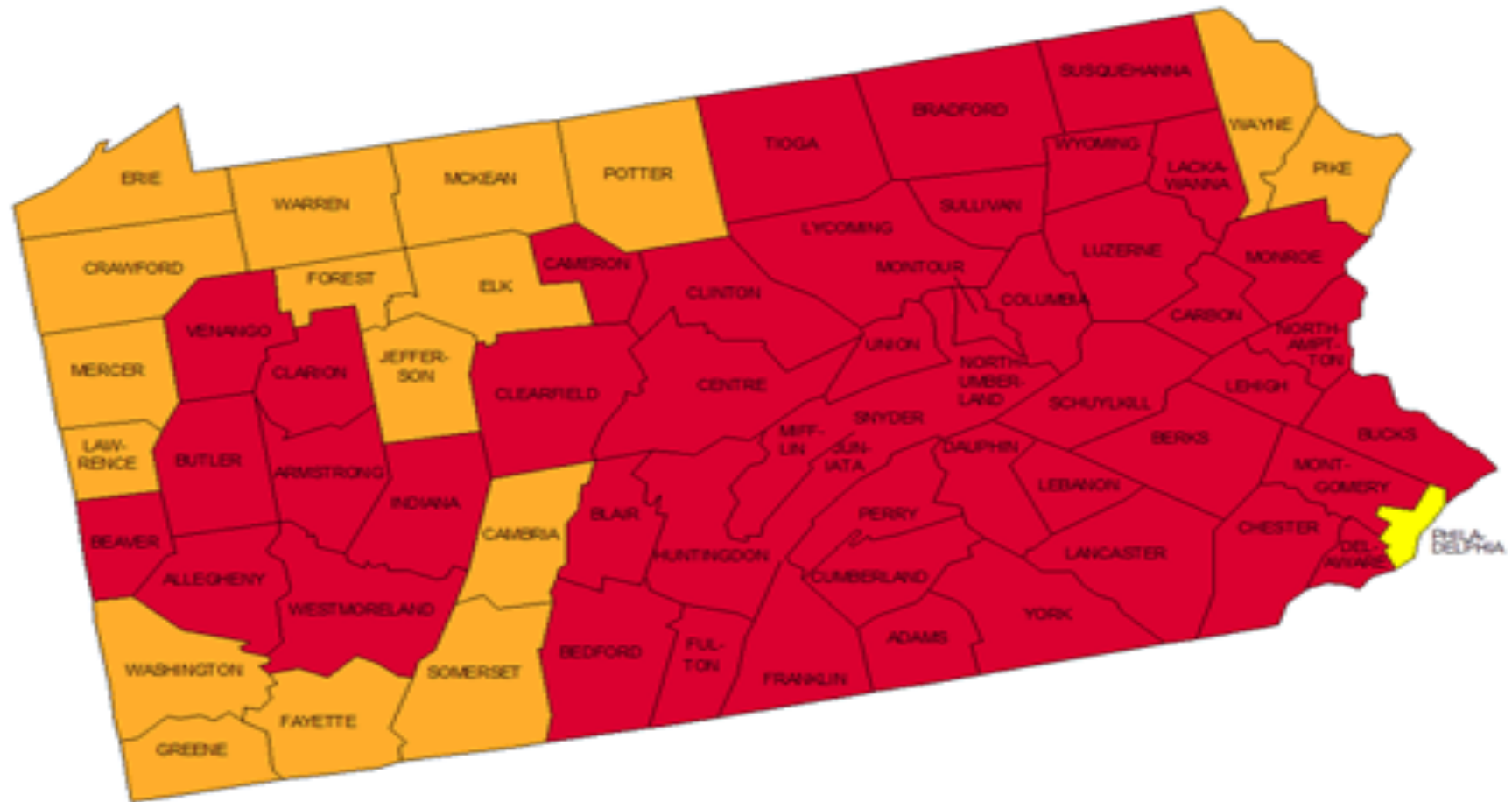
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# RADON Gas Spatial Distribution

- Radon enters from beneath foundation and travels upward – diluted with outdoor air, infiltrating the building.
- If radon is less than 4 pCi/L in lower level, one can say with reasonable confidence that upper floors are also less than 4 pCi/L.



# Pennsylvania's RADON Zones



-  Zone 3 (yellow zones) counties have a predicted average indoor radon screening level less than 2 pCi/L - **Low Potential**
-  Zone 2 (orange zones) counties have a predicted average indoor radon screening level between 2 and 4 pCi/L - **Moderate Potential**
-  Zone 1 (red zones) counties have a predicted average indoor radon screening level greater than 4 pCi/L - **Highest Potential**



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# **RADON Health Effects**

- Radon is a known human lung carcinogen and is the largest source of radiation exposure and risk to the general public.
- Radon is the number one cause of lung cancer among non-smokers, according to EPA estimates.
- Radon is the second leading cause of lung cancer.
- Radon is responsible for about 21,000 lung cancer deaths every year. About 2,900 of these deaths occur among people who have never smoked.



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# **Residential RADON Exposure Is A Leading Environmental Health Risk:**

National and International Public Health Agencies support the contention that radon is a leading environmental health risk!



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**Lung Cancer Deaths Per Year Are  
Estimated To Be 163,510\***

**Nearly 21,000 of those deaths are  
attributed to exposure to RADON\*\***

\*CA: A journal of Clinicians, 2005

\*\*EPA, 2003



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# **Should we be concerned about RADON-induced lung cancer given that the risk pales in comparison to the risk posed by smoking?**

- RADON is the number one cause of lung cancer among non-smokers, according the EPA estimates.
- Overall, radon is the second leading cause of lung cancer.
- Radon is responsible for about 21,000 lung cancer deaths every year.
- About 2,900 of these deaths occur among people who have never smoked.



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# **EPA & Surgeon General Recommend Taking Action If A Home Is At Or Above 4.0 pCi/L** (year long average)

- 4.0 pCi/L is the EPA action level
- Average indoor: 1.3 – 1.4 pCi/L
- Average outdoor: 0.4 pCi/L



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# Remediation (Mitigation) Is An Option

- Techniques have been developed to reliably reduce radon to less than 4.0 pCi/L.
- Almost all systems can be installed in one day by a qualified contractor.
- The repairs take 24 hours to take effect before retesting can occur.
- EPA, DEP and state offices maintain lists of qualified contractors.



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# **RADON Mitigation**

- Active Soil Depressurization (ASD) is the most common approach.
- It employs a method for creating a vacuum beneath the foundation greater in strength than the vacuum applied to the soil by the building.
- Caulking and sealing is not a stand-alone technique.
- Ventilation approaches have proven more costly and less effective.



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# Sub-Slab Depressurization (SSD)

- 4" hole is cut through the concrete slab.
- A pit is dug.
- PVC piping is inserted.
- Piping is routed to exterior of house or to the attic.
- Inline suction fan is installed.
- Radon gases are vented above the roof line.



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# Sub-Membrane Depressurization

- Most common in homes with dirt crawl spaces.
- Plastic sheeting covers dirt floors.
- All seams and openings are sealed with adhesive.
- PVC pipe is inserted to create suction under plastic.
- Radon gases are exhausted to exterior of the home.



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# Sump/Drain Tile Depressurization

- Sump pump is sealed.
- PVC pipe is inserted into sump basin.
- Suction is applied to sump basin.



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# Passive System Conversion

- Existing PVC pipe is cut.
- Suction fan is installed.
- Electric is ran.



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# Why Choose RADON-RID?

- We are a Experienced, Licensed and Certified Radon Mitigation Contractor.
- We offer FREE on-site walkthrough with a Certified and Licensed Radon specialist.
- We provide testing, review testing guidelines and measurement results and determine if additional measurements are needed.
- We evaluate the radon problem and provide a written proposal on how radon levels will be lowered.
- We design a specifically tailored radon-reduction system, considering aesthetics as well as function.
- We install the system according to the Radon Mitigation Standards state and local codes.
- We confirm the finished system effectively reduces radon concentrations to acceptable levels by providing a FREE follow-up radon test.
- We complete the system installation with care for personal property and minimal disruption.



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**Let us provide you and your family  
with peace-of-mind and solve your  
RADON problem today!**



Mitigation Cert #2586 | Testing Cert #2585 | PA HIC Cert. #: PA047660



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