

Indicator: Short-Term Indoor Air Radon Test Results

Indicator	Short-term indoor air radon test
Measures	<ol style="list-style-type: none"> 1. Number of homes tested 2. Average radon test results in pCi/L 3. Percent of test results greater than 4.0 pCi/L
Derivation of Measures	<p>Percent of test results:</p> <p><i>Numerator</i> - Number of tests above 4.0 pCi/L by zip code <i>Denominator</i> - Total number of tests by zip code</p>
Geographic Scale	Tennessee — County, Zip Code
Time Period	Radon tested from January 1, 2009, to October 31, 2014
Measures	<p>Select records from three data sources listed below from 2009-2014 October.</p> <ul style="list-style-type: none"> • PO Box addresses were not considered • Addresses outside Tennessee were not considered • Addresses without street name or street number were not considered • Only one record per address was considered • When multiple tests were linked to the same address, only the test with the highest result was used • Average radon test results based on county and zip code were considered • Percent of test results greater than 4.0 pCi/L were calculated • Undetected radon levels were marked as “zero”
Data Sources	<ul style="list-style-type: none"> • AirCheck • AccuStar • Radon Testing Corporation of America
Limitations of the Measure	<ul style="list-style-type: none"> • Data do not represent a random sample • Data do not show variability from seasonality, if present • Data are not inclusive of all zip codes
Rationale	<p>Radon is a naturally occurring radioactive gas produced by the breakdown of uranium in rocks and soils. Radon gas is tasteless, colorless and odorless. Radon gas has been identified as the second leading cause of lung cancer, second only to cigarette smoking. Radon is responsible for about 20,000 lung cancer deaths every year. Many of the test results were performed by residents using free radon air test kits offered by Tennessee Department of Environment and Conservation through their cooperative agreement with the U.S. Environmental Protection Agency. Some of the data represent tests performed privately by individuals or radon professionals. These data are shown as radon test results aggregated by county and zip code. All testing was done voluntarily, and are not random.</p>