

**American Housing Survey - Selected Elements Related to Healthy Homes  
2011 Portland, OR-WA and 2011 National**

**National statistic only reported if Metropolitan Statistical Area (MSA) is  $\geq 20\%$ (relative) and 0.25% (absolute) different from national (otherwise "-" is listed).**

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National
Total Occupied Units(,000)	859	114,907	515	76,091	344	38,816	11	2,103	22	4,126	90	16,060	121	33,161
<b>GENERAL</b>														
Owner occupied(,000)		76,091		76,091		.		907		1,568		6,166		16,552
Renter occupied(,000)		38,816		.		38,816		1,196		2,558		9,894		16,609
Owner occupied		66.2%		100%		<0.1%		43.1%		38.0%		38.4%		49.9%
Renter occupied		33.8%		<0.1%		100%		56.9%		62.0%		61.6%		50.1%
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<b>Units in Structure</b>														
1, detached	63.1%	-	86.6%	-	27.9%	-	30.0%	44.3%	30.3%	39.6%	41.8%	-	64.3%	49.3%
1, attached	5.2%	-	3.4%	5.4%	7.9%	-	<0.1%	5.1%	1.3%	3.4%	9.3%	6.1%	3.7%	7.9%
2 to 4	8.4%	-	2.1%	-	17.9%	-	31.4%	14.8%	16.3%	-	12.7%	-	8.3%	12.9%
5 to 9	6.0%	4.7%	0.7%	-	14.0%	-	4.0%	6.9%	13.0%	10.3%	7.8%	-	3.9%	7.4%
10 to 19	6.3%	4.4%	0.5%	-	15.1%	11.6%	7.8%	-	19.7%	7.3%	8.1%	-	5.4%	6.5%
20 to 49	3.7%	-	0.6%	-	8.3%	-	16.1%	6.5%	8.4%	-	7.7%	5.8%	4.9%	6.1%
50 or more	3.5%	-	0.7%	1.0%	7.8%	-	2.5%	7.0%	10.0%	7.0%	5.2%	-	8.7%	-
Manufactured /mobile home or trailer	3.8%	6.3%	5.5%	7.5%	1.1%	3.9%	8.1%	-	1.0%	7.8%	7.5%	10.3%	0.8%	1.3%
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<b>Year Structure Built</b>														
Post-2000	12.1%	-	13.0%	15.6%	10.8%	-	<0.1%	5.0%	4.8%	-	6.4%	9.3%	11.6%	-
Post-1980	38.9%	-	38.8%	-	39.2%	-	17.0%	21.1%	28.8%	22.4%	31.4%	-	23.5%	-
Pre-1980	61.1%	-	61.2%	-	60.8%	-	83.0%	-	71.2%	-	68.6%	-	76.5%	-
Pre-1960	31.1%	-	31.6%	-	30.4%	-	49.7%	-	45.2%	-	29.7%	-	58.0%	42.7%
Pre-1940	13.4%	-	15.0%	-	11.2%	18.5%	21.6%	27.4%	16.7%	24.4%	8.7%	17.2%	31.4%	22.6%

<i>Characteristic</i>	<i>Occupied</i>		<i>Owner Occupied</i>		<i>Rental</i>		<i>Severe Problems</i>		<i>Moderate Problems</i>		<i>Below Poverty</i>		<i>Central City</i>	
	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>
Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	587	80,505	463	66,752	123	13,753	3	1,040	7	1,772	46	7,844	82	18,949
With a basement under all of house	20.8%	32.7%	21.9%	34.4%	16.7%	24.0%	22.0%	32.2%	37.6%	22.1%	8.5%	27.3%	39.4%	-
With a basement under part of house	11.0%	-	11.9%	-	7.3%	-	9.1%	-	6.6%	8.7%	8.2%	-	20.3%	8.1%
With a crawl space	53.8%	22.1%	55.8%	21.4%	46.4%	25.3%	55.6%	24.1%	46.7%	-	46.4%	25.9%	31.0%	20.2%
On a concrete slab	13.0%	33.1%	9.1%	31.5%	27.4%	41.1%	8.8%	29.7%	9.1%	23.7%	35.8%	-	8.2%	38.2%
In some other way	1.4%	-	1.2%	-	2.3%	-	4.5%	6.1%	<0.1%	5.3%	1.2%	3.2%	1.1%	1.6%
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<b>EXTERIOR</b>														
External Building Conditions(non multiunit)														
Sagging roof	3.0%	2.0%	2.6%	1.8%	4.8%	2.9%	35.3%	9.0%	16.8%	11.4%	2.2%	3.8%	3.2%	2.4%
Missing roofing material	3.3%	-	3.2%	-	3.9%	-	6.7%	9.9%	2.2%	14.3%	4.3%	5.8%	2.6%	3.8%
Hole in roof	0.6%	1.5%	0.3%	1.3%	2.1%	-	3.3%	7.6%	2.4%	11.9%	0.9%	3.4%	0.5%	1.9%
Missing bricks, siding, other outside wall material	2.3%	-	1.5%	2.2%	5.3%	3.9%	6.7%	10.7%	35.9%	14.2%	5.5%	-	2.8%	-
Sloping outside walls	1.6%	1.2%	1.0%	-	3.9%	2.2%	13.2%	5.9%	8.7%	-	2.4%	-	0.6%	1.5%
Boarded up windows	0.6%	1.0%	0.5%	0.9%	0.9%	1.6%	17.8%	4.5%	2.9%	6.1%	1.8%	2.6%	1.4%	-
Broken windows	6.4%	4.2%	5.3%	3.7%	10.9%	6.6%	23.6%	14.1%	37.3%	18.1%	12.8%	8.6%	5.9%	-
Bars on windows	3.7%	2.9%	4.4%	2.7%	1.2%	3.8%	<0.1%	4.2%	<0.1%	7.5%	1.2%	4.8%	8.9%	-
Foundation crumbling or has open crack or hole	5.7%	-	5.4%	-	7.0%	-	6.7%	15.0%	13.3%	18.5%	3.6%	8.4%	7.8%	-
None of the above	78.6%	-	79.9%	-	73.5%	-	57.5%	-	17.4%	50.3%	75.9%	-	72.5%	-
None of the above(excluding bars)	81.6%	-	83.5%	-	74.3%	-	57.5%	-	17.4%	53.3%	76.4%	-	79.5%	-
Water Leakage During Last 12 Months														

<i>Characteristic</i>	<i>Occupied</i>		<i>Owner Occupied</i>		<i>Rental</i>		<i>Severe Problems</i>		<i>Moderate Problems</i>		<i>Below Poverty</i>		<i>Central City</i>	
	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>
With leakage from outside structure	8.4%	11.0%	9.2%	11.5%	7.1%	9.8%	13.6%	17.4%	28.9%	-	7.7%	11.6%	12.7%	-
Roof	3.3%	5.7%	4.0%	6.1%	2.2%	4.9%	8.1%	10.0%	6.7%	16.8%	2.9%	6.5%	5.8%	-
Basement leak	2.6%	-	3.3%	-	1.5%	-	1.5%	2.5%	10.4%	5.1%	0.5%	1.9%	4.7%	2.6%
Walls, closed windows, or doors leak	1.9%	-	1.5%	1.8%	2.6%	-	3.8%	4.7%	14.7%	8.9%	4.6%	2.8%	3.0%	-
Other or Unknown exterior Leak	1.3%	-	1.2%	-	1.5%	-	1.4%	2.9%	2.2%	3.3%	0.7%	1.3%	1.1%	-
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<b>INTERIOR</b>														
<b>Damage</b>														
Holes in floors	0.6%	1.0%	0.4%	0.7%	0.8%	1.6%	4.0%	7.2%	12.0%	-	0.7%	2.1%	1.0%	1.3%
Open cracks or holes	3.9%	5.2%	3.1%	4.2%	5.2%	7.1%	22.5%	-	22.5%	29.9%	4.6%	8.6%	6.6%	-
Broken plaster or peeling paint	2.0%	-	1.6%	-	2.8%	-	17.4%	8.3%	18.2%	-	4.3%	3.4%	3.1%	-
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<b>Water Leakage During Last 12 Months</b>														
With leakage from inside structure	8.9%	-	7.2%	-	11.3%	-	14.9%	-	36.4%	25.1%	13.2%	-	9.1%	-
Fixtures backed up or overflowed	2.6%	1.9%	1.9%	-	3.6%	2.3%	4.0%	4.9%	23.8%	6.6%	4.6%	2.2%	2.7%	-
Pipes leaked	3.7%	-	2.6%	-	5.3%	-	4.5%	8.4%	15.8%	12.5%	5.3%	-	3.8%	4.5%
Broken water heater	0.7%	-	0.6%	0.9%	0.8%	-	2.5%	1.4%	0.9%	2.0%	0.3%	1.0%	0.4%	0.7%
Other or Unknown	2.1%	-	2.1%	-	2.1%	3.6%	6.4%	3.2%	2.3%	6.0%	2.4%	3.0%	2.6%	-
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<b>Rodents</b>														
Signs of rats in last 3 mon.	1.0%	-	1.0%	-	1.1%	-	1.2%	3.3%	<0.1%	3.6%	1.2%	1.8%	2.7%	1.4%
Signs of mice in last 3 mon.	8.4%	11.1%	9.3%	11.7%	7.0%	10.0%	11.1%	17.7%	14.9%	20.0%	11.1%	-	8.1%	9.9%

<i>Characteristic</i>	<i>Occupied</i>		<i>Owner Occupied</i>		<i>Rental</i>		<i>Severe Problems</i>		<i>Moderate Problems</i>		<i>Below Poverty</i>		<i>Central City</i>	
	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>
Signs of rodents, not sure which kind in last 3 mon.	0.7%	-	0.6%	-	0.9%	-	<0.1%	1.5%	1.4%	-	0.9%	-	0.9%	-
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<b>Electrical</b>														
No electrical wiring	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	3.2%	<0.1%	0.1%	<0.1%	0.3%	<0.1%	0.1%
Exposed wiring	0.9%	1.6%	0.9%	1.3%	1.1%	2.1%	3.6%	6.2%	0.8%	3.9%	1.7%	2.5%	2.0%	-
Rooms without electric outlets	0.9%	-	0.5%	-	1.5%	1.2%	<0.1%	6.5%	0.6%	2.2%	0.6%	1.4%	0.7%	-
Fuses/breakers blown in last 3 mon.	12.9%	9.4%	10.0%	-	17.2%	9.4%	26.2%	14.7%	15.8%	-	18.1%	9.1%	14.5%	9.6%
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<b>Sanitation</b>														
Lacking complete kitchen facilities	2.0%	-	0.1%	0.6%	4.8%	-	29.9%	8.4%	64.2%	44.4%	4.9%	3.3%	1.3%	2.8%
Lacking some or all plumbing facilities	1.0%	1.3%	0.3%	0.8%	2.0%	-	76.7%	-	<0.1%	0.0%	2.2%	-	1.3%	1.8%
Water not safe to drink	5.0%	8.3%	3.5%	6.2%	7.1%	12.3%	7.2%	14.7%	8.4%	14.9%	10.1%	13.1%	3.3%	10.1%
Water stoppage in last 3 mon.	3.6%	-	1.7%	3.5%	6.4%	5.1%	14.9%	8.3%	2.2%	9.4%	6.7%	4.8%	3.4%	-
No flush toilets working some time in last 3 mon.	2.0%	-	1.1%	-	3.5%	-	1.2%	5.7%	11.0%	-	5.7%	3.4%	2.3%	-
With sewage disposal breakdowns in last 3 mon.	0.8%	1.4%	0.4%	1.2%	1.4%	1.7%	<0.1%	3.7%	7.8%	5.0%	2.7%	2.0%	0.9%	1.6%
Septic tank, cesspool, chemical toilet	8.7%	19.6%	12.8%	25.7%	2.6%	7.5%	4.4%	15.6%	4.5%	16.1%	3.8%	14.7%	0.7%	1.3%
With septic tank or cesspool breakdowns in last 3 mon.	0.1%	-	0.1%	-	0.1%	-	<0.1%	0.8%	<0.1%	0.8%	0.2%	-	<0.1%	-
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<b>HEATING/FUEL</b>														
<b>Main Heating Equipment</b>														
Warm-air furnace	60.1%	-	76.1%	-	36.1%	56.7%	29.7%	47.8%	37.7%	-	48.0%	-	67.3%	-
Steam or hot water system	2.1%	11.0%	1.0%	9.7%	3.7%	13.5%	17.4%	-	8.9%	14.0%	1.2%	10.9%	4.5%	15.6%

<i>Characteristic</i>	<i>Occupied</i>		<i>Owner Occupied</i>		<i>Rental</i>		<i>Severe Problems</i>		<i>Moderate Problems</i>		<i>Below Poverty</i>		<i>Central City</i>	
	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>
Electric heat pump	5.3%	11.8%	7.8%	12.9%	1.6%	9.6%	<0.1%	7.1%	2.9%	4.8%	2.4%	9.7%	2.7%	8.5%
Built-in electric units	20.8%	4.2%	8.8%	2.6%	38.6%	7.4%	43.1%	5.2%	36.2%	5.6%	37.4%	5.9%	17.5%	3.9%
Floor, wall, or other built-in hot air without ducts	7.4%	3.9%	2.2%	-	15.2%	6.9%	1.3%	7.0%	10.6%	5.6%	8.4%	-	5.2%	-
Room heaters with flue	0.5%	0.8%	0.6%	-	0.2%	1.0%	<0.1%	1.1%	<0.1%	1.1%	0.4%	1.4%	0.8%	-
Room heaters without flue	0.1%	1.0%	<0.1%	0.8%	0.1%	1.2%	<0.1%	2.5%	2.0%	25.2%	0.2%	2.2%	0.1%	0.7%
Portable electric heaters	1.2%	-	0.5%	0.9%	2.2%	-	4.0%	-	0.7%	2.0%	0.8%	3.0%	0.7%	1.4%
Stoves	1.6%	0.9%	1.7%	1.2%	1.3%	0.5%	1.4%	4.0%	1.0%	-	0.7%	1.2%	0.2%	-
Fireplace with inserts	0.4%	-	0.2%	-	0.6%	<0.1%	1.8%	0.1%	<0.1%	0.1%	0.6%	0.1%	0.1%	-
Fireplace without inserts	<0.1%	-	<0.1%	0.1%	<0.1%	-	<0.1%	0.2%	<0.1%	0.1%	<0.1%	0.1%	<0.1%	<0.1%
Other	0.6%	0.3%	0.8%	0.3%	0.4%	-	1.4%	-	<0.1%	0.3%	<0.1%	0.7%	0.6%	0.3%
No heating equipment	<0.1%	0.4%	<0.1%	0.3%	<0.1%	0.7%	<0.1%	-	<0.1%	0.7%	<0.1%	0.6%	<0.1%	0.7%
Cooking stove	<0.1%	-	<0.1%	-	<0.1%	0.1%	<0.1%	0.2%	<0.1%	0.3%	<0.1%	0.2%	0.1%	-
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<b>Water Heating Fuel</b>														
Electricity	59.5%	41.3%	49.0%	39.0%	75.3%	45.7%	78.5%	38.7%	68.4%	39.0%	83.7%	46.9%	54.6%	31.9%
Gas, LP/bottled gas	40.3%	54.3%	50.9%	-	24.2%	49.7%	19.9%	53.8%	31.6%	55.2%	15.9%	49.2%	44.1%	62.8%
Fuel oil	0.1%	4.1%	<0.1%	4.0%	0.3%	4.3%	1.6%	6.5%	<0.1%	5.1%	0.2%	3.6%	0.9%	5.0%
Kerosene or other liquid fuel	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	<0.1%	<0.1%	0.1%	<0.1%	-	<0.1%	-
Other	0.1%	-	0.1%	0.4%	0.2%	-	<0.1%	1.0%	<0.1%	0.5%	0.2%	-	0.4%	-
Clothes Dryer,(000)	722	93,052	505	72,397	217	20,655	5	1,139	14	2,344	57	9,825	93	21,908
Have Clothes Dryer	84.0%	-	98.0%	-	63.1%	-	42.2%	54.2%	65.7%	-	63.7%	-	76.6%	-
Electricity	92.6%	-	90.9%	-	96.6%	-	100%	78.9%	100%	-	92.9%	-	91.2%	-
Gas, LP gas (liquid propane)	7.4%	21.8%	9.1%	23.5%	3.4%	15.8%	<0.1%	21.0%	<0.1%	17.5%	7.1%	17.8%	8.8%	25.6%
Other	<0.1%	-	<0.1%	-	<0.1%	0.1%	<0.1%	0.1%	<0.1%	<0.1%	<0.1%	0.1%	<0.1%	0.1%

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**Heating Problems**

<i>Characteristic</i>	<i>Occupied</i>		<i>Owner Occupied</i>		<i>Rental</i>		<i>Severe Problems</i>		<i>Moderate Problems</i>		<i>Below Poverty</i>		<i>Central City</i>	
	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>
Uncomfortably cold for 24 hours or more last winter	11.1%	-	10.0%	7.7%	13.3%	-	48.2%	-	33.1%	22.2%	21.6%	13.7%	12.0%	-
Heating equipment breakdowns	2.9%	-	3.0%	1.9%	2.6%	3.2%	26.9%	-	9.8%	4.1%	3.9%	-	3.0%	-
Other causes	7.1%	-	6.6%	-	7.9%	-	22.1%	11.0%	19.0%	-	14.2%	8.0%	8.0%	6.0%
Utility interruption	1.9%	-	2.5%	-	0.9%	-	1.4%	-	9.8%	1.9%	6.9%	1.6%	0.4%	1.1%
Inadequate heating capacity	1.6%	1.1%	0.7%	-	3.0%	2.0%	2.6%	3.9%	12.8%	5.4%	4.0%	2.2%	1.4%	1.7%
Inadequate insulation	1.2%	-	0.6%	-	2.1%	-	1.4%	3.1%	14.1%	5.0%	3.7%	2.0%	2.2%	1.4%
Cost of heating	2.1%	1.0%	1.6%	1.0%	2.7%	1.1%	2.8%	1.7%	14.2%	2.8%	6.5%	1.3%	3.2%	0.8%
Other	1.8%	1.3%	1.6%	1.2%	2.0%	1.6%	18.1%	3.5%	1.5%	3.2%	1.0%	1.8%	1.6%	-

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**SELECTED PHYSICAL PROBLEMS**

Severe Physical Problems(,000)	11	2,103	3	907	8	1,196	11	2,103	.	.	3	522	2	909
Severe physical problems	1.3%	1.8%	0.6%	1.2%	2.3%	3.1%	100%	-	.	.	2.9%	-	1.8%	2.7%
Plumbing	1.0%	1.2%	0.3%	0.8%	2.0%	-	76.7%	-	.	.	2.2%	-	1.3%	1.8%
Heating	0.3%	-	0.3%	-	0.3%	0.9%	22.0%	28.6%	.	.	0.7%	1.1%	0.5%	0.8%
Electric	<0.1%	0.1%	<0.1%	0.1%	<0.1%	-	<0.1%	3.1%	.	.	<0.1%	0.1%	<0.1%	-
Hallways	<0.1%	0.0%	<0.1%	0.0%	<0.1%	0.0%	<0.1%	0.0%	.	.	<0.1%	0.0%	<0.1%	0.0%
Upkeep	<0.1%	-	<0.1%	-	0.1%	-	2.5%	-	.	.	0.2%	-	<0.1%	0.1%
Moderate Physical Problems(,000)	22	4,126	2	1,568	19	2,558	.	.	22	4,126	7	1,170	3	1,628
Moderate physical problems	2.5%	3.6%	0.4%	2.1%	5.6%	-	.	.	100%	-	7.9%	-	2.4%	4.9%
Plumbing	0.2%	-	<0.1%	0.1%	0.6%	0.4%	.	.	9.7%	5.2%	2.2%	0.4%	0.1%	-
Heating	0.1%	0.9%	<0.1%	0.8%	0.1%	1.1%	.	.	2.0%	25.2%	0.2%	2.1%	0.1%	0.7%
Upkeep	1.6%	-	0.1%	0.5%	3.9%	-	.	.	64.2%	44.4%	4.9%	2.9%	1.2%	2.6%
Hallways	<0.1%	0.0%	<0.1%	0.0%	<0.1%	0.0%	.	.	<0.1%	0.0%	<0.1%	0.0%	<0.1%	0.0%
Kitchen	0.8%	-	0.3%	0.7%	1.6%	-	.	.	32.4%	-	2.7%	-	1.1%	1.6%

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<i>Characteristic</i>	<i>Occupied</i>		<i>Owner Occupied</i>		<i>Rental</i>		<i>Severe Problems</i>		<i>Moderate Problems</i>		<i>Below Poverty</i>		<i>Central City</i>	
	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>
OVERALL OPINION OF STRUCTURE														
1(worst)	0.5%	-	<0.1%	0.3%	1.3%	-	16.1%	3.4%	0.6%	3.0%	0.5%	1.5%	0.2%	0.7%
2	0.4%	-	0.1%	-	0.8%	-	2.4%	1.9%	1.3%	1.6%	1.0%	-	0.1%	0.5%
3	0.5%	-	0.2%	-	1.0%	1.2%	<0.1%	3.5%	<0.1%	2.9%	0.7%	1.6%	0.9%	-
4	1.1%	-	0.4%	-	2.2%	1.8%	2.9%	-	8.3%	3.3%	1.2%	1.9%	0.9%	1.2%
5	4.7%	-	3.2%	-	7.0%	-	5.5%	9.6%	19.8%	11.8%	11.9%	8.6%	3.9%	5.8%
6	5.8%	-	4.8%	3.7%	7.2%	-	3.6%	7.1%	6.3%	10.5%	8.6%	6.4%	7.0%	-
7	15.8%	-	12.6%	-	20.5%	-	25.2%	16.5%	10.8%	15.5%	16.5%	-	19.0%	-
8	28.4%	-	28.7%	-	27.9%	-	24.3%	-	30.9%	21.9%	20.6%	-	29.6%	-
9	17.4%	-	19.4%	-	14.4%	-	9.4%	-	9.0%	-	14.4%	11.3%	17.5%	-
10(best)	25.3%	30.6%	30.6%	-	17.6%	21.9%	10.7%	23.0%	12.9%	19.0%	24.6%	-	20.9%	25.2%

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See <http://nchh.org/Training/HealthyHomesTrainingCenter/AHSDData.aspx> for more info.