

**American Housing Survey - Selected Elements Related to Health Homes
2002 Portland, OR-WA and 2003 National ***

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)	748	105,842	498	72,238	250	33,604	10	1,970	20	4,316	69	13,741	204	31,213
GENERAL														
Owner occupied(,000)	498	72,238	498	72,238	.	.	5	932	9	1,795	25	5,868	120	16,093
Renter occupied(,000)	250	33,604	.	.	250	33,604	5	1,039	12	2,521	45	7,873	84	15,119
Owner occupied	66.5%	-	100%	-	<0.1%	<0.1%	47.6%	-	43.2%	-	35.5%	42.7%	58.8%	-
Renter occupied	33.5%	-	<0.1%	<0.1%	100%	-	52.4%	-	56.8%	-	64.5%	-	41.2%	-
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Units in Structure														
1, detached	67.1%	-	87.4%	-	26.7%	-	50.5%	-	40.2%	-	42.5%	-	63.9%	49.7%
1, attached	5.9%	-	2.2%	5.1%	13.2%	7.7%	5.1%	6.4%	5.6%	3.1%	10.2%	6.2%	7.0%	-
2 to 4	6.5%	7.9%	1.8%	-	16.0%	20.8%	7.6%	12.1%	18.6%	-	8.3%	13.1%	8.3%	13.2%
5 to 9	4.4%	-	0.6%	-	11.9%	-	5.6%	8.8%	11.4%	-	9.3%	-	3.0%	7.8%
10 to 19	5.3%	-	0.5%	-	14.8%	-	7.2%	-	6.7%	-	9.9%	6.3%	5.2%	6.5%
20 to 49	3.2%	-	0.4%	-	8.7%	-	12.4%	6.9%	4.8%	-	5.2%	-	6.3%	-
50 or more	2.7%	3.5%	0.3%	0.8%	7.3%	9.2%	3.5%	8.0%	7.3%	5.2%	7.4%	-	5.5%	7.8%
Manufactured /mobile home or trailer	5.1%	6.5%	6.9%	-	1.4%	4.0%	8.0%	5.2%	5.4%	-	7.3%	9.3%	1.0%	-
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Year Structure Built														
Post-2000	4.8%	-	5.6%	-	3.0%	-	1.8%	1.3%	2.8%	1.7%	2.7%	-	2.8%	-
Post-1980	36.7%	-	37.5%	-	35.2%	26.0%	14.1%	-	23.8%	16.2%	28.4%	-	15.7%	21.1%
Pre-1980	63.3%	-	62.5%	-	64.8%	-	85.9%	-	76.2%	-	71.6%	-	84.3%	-
Pre-1960	30.8%	-	31.2%	-	30.0%	39.2%	58.9%	-	34.8%	52.9%	34.5%	-	62.7%	48.8%
Pre-1940	14.1%	17.5%	14.9%	-	12.5%	22.2%	30.9%	-	18.3%	29.6%	16.2%	20.9%	34.7%	26.1%

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Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	545	74,026	446	63,322	100	10,704	6	1,047	9	2,138	36	7,035	144	18,035
With a basement under all of house	20.2%	33.0%	21.2%	34.6%	16.1%	23.7%	19.7%	31.4%	24.0%	16.5%	18.2%	26.5%	42.7%	33.0%
With a basement under part of house	10.5%	-	11.2%	-	7.4%	-	24.0%	11.1%	12.1%	8.6%	10.3%	-	18.2%	8.5%
With a crawl space	57.6%	25.5%	59.3%	24.5%	50.0%	31.4%	42.7%	31.8%	53.9%	-	48.6%	35.0%	26.7%	-
On a concrete slab	10.1%	29.3%	6.9%	28.3%	24.5%	35.2%	13.7%	23.3%	2.3%	19.8%	20.8%	29.1%	11.0%	33.6%
In some other way	1.6%	0.6%	1.5%	0.5%	2.1%	1.1%	<0.1%	2.4%	7.8%	0.9%	2.0%	1.0%	1.4%	0.5%
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EXTERIOR														
External Building Conditions														
Sagging roof	2.5%	-	2.5%	1.9%	2.7%	-	6.3%	8.5%	11.1%	-	3.2%	4.3%	2.3%	-
Missing roofing material	3.1%	-	2.9%	-	3.4%	5.2%	16.7%	10.0%	6.9%	9.6%	5.2%	-	3.9%	-
Hole in roof	1.5%	1.8%	1.1%	1.4%	2.3%	-	14.8%	8.1%	7.6%	-	3.8%	-	2.5%	-
Missing bricks, siding, other outside wall material	2.8%	-	2.5%	-	3.3%	4.1%	14.6%	9.5%	11.1%	-	4.6%	-	3.4%	-
Sloping outside walls	1.8%	-	1.4%	1.0%	2.4%	-	8.8%	5.5%	8.2%	-	2.8%	-	1.7%	-
Boarded up windows	1.2%	0.9%	1.0%	0.6%	1.7%	-	12.5%	3.5%	3.9%	-	1.9%	2.5%	2.4%	1.5%
Broken windows	4.5%	-	4.5%	3.0%	4.6%	-	10.2%	-	7.5%	12.4%	4.0%	6.9%	6.0%	4.6%
Bars on windows	3.7%	-	4.1%	2.9%	2.9%	6.6%	5.7%	7.8%	3.9%	8.4%	2.0%	6.2%	9.8%	-
Foundation crumbling or has open crack or hole	2.9%	-	2.8%	2.2%	3.1%	-	9.9%	-	9.5%	-	3.9%	-	4.9%	3.1%
None of the above	81.5%	-	82.7%	-	79.2%	-	57.0%	-	66.5%	-	77.6%	-	71.0%	-

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Water Leakage During Last 12 Months														
With leakage from outside structure	9.2%	-	10.2%	-	7.2%	9.3%	17.5%	-	32.8%	-	9.6%	-	12.6%	10.0%
Roof	4.6%	-	5.2%	-	3.5%	5.1%	13.7%	10.9%	22.0%	-	5.5%	-	4.9%	-
Basement	2.5%	3.6%	3.2%	4.5%	1.2%	1.8%	2.2%	3.3%	7.6%	6.0%	1.9%	-	5.8%	2.9%
Walls, closed windows, or doors	2.8%	2.1%	2.7%	1.9%	2.9%	-	2.0%	4.9%	16.9%	9.1%	3.5%	2.7%	3.8%	2.5%
Other or Unknown	1.2%	-	1.3%	-	1.1%	1.5%	3.3%	-	6.6%	-	1.3%	-	1.1%	1.4%
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INTERIOR														
Damage														
Holes in floors	0.6%	0.9%	0.4%	-	1.0%	1.7%	8.7%	6.3%	7.3%	9.5%	1.2%	2.1%	0.7%	1.4%
Open cracks or holes	5.1%	-	4.4%	-	6.4%	-	27.4%	16.3%	37.3%	-	5.5%	8.1%	6.2%	-
Broken plaster or peeling paint	2.2%	-	2.0%	1.5%	2.6%	3.7%	15.1%	10.6%	20.4%	-	3.3%	4.3%	3.9%	-
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Water Leakage During Last 12 Months														
With leakage from inside structure	9.4%	-	8.5%	6.8%	11.3%	-	21.3%	17.0%	39.5%	25.7%	11.6%	-	10.6%	-
Fixtures backed up or overflowed	3.6%	2.7%	3.0%	2.2%	4.8%	-	10.4%	7.0%	21.7%	9.9%	5.0%	3.1%	3.7%	-
Pipes leaked	4.5%	-	4.1%	2.9%	5.3%	-	15.3%	8.9%	22.8%	15.4%	6.3%	-	5.0%	-
Broken water heater	0.9%	-	0.8%	-	1.0%	-	<0.1%	2.7%	1.5%	2.2%	0.6%	1.1%	1.4%	0.9%
Other or Unknown	2.0%	-	1.8%	-	2.4%	-	4.4%	-	7.2%	-	2.3%	1.8%	2.6%	-

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Rodents														
Signs of rats in last 3 mon.	0.8%	-	0.8%	-	0.8%	1.3%	4.7%	-	4.0%	-	1.5%	-	1.3%	-
Signs of mice in last 3 mon.	5.6%	-	6.0%	-	4.7%	7.3%	22.8%	11.4%	10.0%	16.1%	5.7%	9.2%	5.5%	-
Signs of rodents, not sure which kind in last 3 mon.	0.4%	-	0.3%	-	0.5%	-	<0.1%	1.1%	3.1%	1.8%	1.1%	0.7%	0.9%	0.4%
Electrical														
No electrical wiring	<0.1%	0.1%	<0.1%	0.1%	<0.1%	0.1%	<0.1%	2.5%	<0.1%	-	<0.1%	0.2%	<0.1%	-
Exposed wiring	0.5%	-	0.5%	-	0.7%	-	3.7%	2.7%	1.8%	1.3%	0.3%	1.0%	0.9%	0.6%
Rooms without electric outlets	1.4%	-	1.1%	-	2.0%	-	8.9%	-	2.8%	3.7%	1.6%	2.4%	2.5%	1.6%
Fuses/breakers blown in last 3 mon.	11.5%	9.2%	12.0%	9.4%	10.5%	-	28.0%	12.5%	17.5%	-	7.5%	-	11.1%	-
Sanitation														
Lacking complete kitchen facilities	1.5%	-	0.6%	-	3.2%	-	12.2%	7.3%	48.8%	32.7%	3.8%	2.7%	1.8%	2.5%
Lacking some or all plumbing facilities	0.8%	1.3%	0.5%	1.0%	1.2%	2.0%	55.5%	68.8%	<0.1%	0.0%	2.3%	-	1.4%	1.9%
Water not safe to drink	9.5%	-	7.1%	-	14.2%	-	22.4%	16.7%	21.6%	17.2%	13.9%	-	13.5%	-
Water stoppage in last 3 mon.	3.4%	-	2.6%	-	4.9%	-	8.9%	6.2%	7.6%	-	6.7%	4.1%	3.2%	-
No flush toilets working some time in last 3 mon.	2.6%	-	1.5%	-	5.0%	-	7.8%	-	18.2%	11.1%	5.7%	4.1%	3.5%	-
With sewage disposal breakdowns in last 3 mon.	0.9%	1.5%	0.5%	1.3%	1.6%	2.0%	<0.1%	3.7%	3.8%	-	1.9%	2.3%	0.8%	1.8%
Septic tank, cesspool, chemical toilet	13.9%	20.7%	18.3%	26.7%	5.1%	7.9%	16.7%	13.3%	10.7%	18.2%	7.5%	17.7%	0.8%	1.2%
With septic tank or cesspool breakdowns in last 3 mon.	0.2%	-	0.2%	-	0.3%	-	<0.1%	-	0.9%	-	0.2%	-	0.1%	-

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HEATING/FUEL														
Main Heating Equipment														
Warm-air furnace	59.5%	-	72.3%	-	34.0%	51.4%	49.3%	-	39.7%	-	44.9%	54.2%	66.4%	-
Steam or hot water system	1.6%	12.5%	1.2%	10.8%	2.3%	16.2%	12.5%	22.5%	0.9%	12.9%	2.9%	12.6%	3.9%	17.7%
Electric heat pump	6.7%	10.7%	9.3%	11.5%	1.5%	9.1%	5.3%	4.2%	0.9%	4.8%	4.7%	8.4%	2.2%	8.5%
Built-in electric units	21.9%	4.5%	9.2%	3.0%	47.1%	7.6%	18.0%	4.3%	43.4%	4.5%	34.4%	5.9%	20.1%	3.7%
Floor, wall, or other built-in hot air without ducts	5.2%	-	2.9%	-	9.8%	-	3.8%	8.8%	4.5%	5.5%	8.6%	-	4.2%	7.0%
Room heaters with flue	0.6%	1.4%	0.5%	1.1%	0.9%	1.8%	<0.1%	2.5%	0.8%	1.6%	1.1%	2.8%	1.3%	1.0%
Room heaters without flue	0.2%	1.4%	0.1%	1.4%	0.2%	1.5%	<0.1%	3.1%	5.6%	33.5%	0.3%	3.4%	0.2%	1.3%
Portable electric heaters	0.4%	0.7%	0.3%	-	0.4%	1.1%	1.8%	-	<0.1%	1.6%	1.0%	1.5%	0.2%	0.8%
Stoves	2.2%	1.0%	2.8%	1.2%	0.9%	0.5%	5.8%	3.3%	2.6%	1.0%	0.6%	1.4%	0.3%	-
Fireplace with inserts	0.3%	-	0.4%	-	0.1%	-	<0.1%	<0.1%	<0.1%	0.1%	<0.1%	0.1%	0.1%	-
Fireplace without inserts	0.1%	-	0.1%	-	0.3%	<0.1%	<0.1%	0.2%	1.7%	<0.1%	<0.1%	0.1%	0.2%	<0.1%
Other	1.3%	0.3%	0.8%	0.2%	2.3%	0.5%	3.7%	0.7%	<0.1%	0.2%	1.4%	0.6%	0.9%	0.4%
No heating equipment	<0.1%	0.4%	<0.1%	0.3%	<0.1%	0.7%	<0.1%	1.5%	<0.1%	0.6%	<0.1%	0.7%	<0.1%	0.7%
Cooking stove	<0.1%	-	0.1%	-	<0.1%	0.3%	<0.1%	0.2%	<0.1%	0.2%	0.3%	-	0.1%	-
Water Heating Fuel														
Electricity	64.8%	39.2%	55.9%	37.5%	82.5%	43.0%	73.9%	31.5%	76.2%	36.9%	80.2%	44.7%	60.9%	29.0%
Gas, LP/bottled gas	34.7%	55.4%	43.7%	57.6%	16.8%	50.7%	24.1%	57.7%	22.1%	57.8%	19.5%	50.1%	37.8%	64.3%
Fuel oil	0.2%	5.1%	0.2%	4.6%	0.2%	6.1%	2.0%	10.4%	<0.1%	5.0%	<0.1%	4.9%	0.6%	6.4%
Kerosene or other liquid fuel	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	-	<0.1%	-
Other	0.3%	-	0.2%	-	0.5%	0.2%	<0.1%	0.4%	1.7%	0.3%	0.3%	-	0.7%	0.3%

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Clothes Dryer Fuel(,000)	627	82,538	481	67,262	147	15,276	7	1,014	13	2,387	39	7,720	147	19,624
Electricity	94.3%	-	93.4%	-	97.1%	-	97.4%	75.5%	92.7%	-	98.0%	-	92.5%	71.7%
Gas, LP gas (liquid propane)	5.7%	23.5%	6.6%	25.1%	2.9%	16.3%	2.6%	24.5%	7.3%	17.0%	2.0%	18.5%	7.5%	28.3%
Other	<0.1%	-	<0.1%	-	<0.1%	0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	-	<0.1%	-
Heating Problems														
Uncomfortably cold for 24 hours or more last winter	9.8%	7.6%	7.9%	6.3%	14.3%	11.0%	62.3%	34.6%	23.1%	16.9%	15.7%	11.2%	12.6%	9.1%
Heating equipment breakdowns	2.3%	-	2.3%	1.6%	2.5%	-	44.7%	26.7%	1.9%	3.5%	1.0%	2.8%	4.0%	2.8%
Other causes	6.8%	4.9%	5.4%	-	9.7%	5.9%	22.7%	8.6%	17.8%	10.6%	12.9%	6.8%	7.9%	5.3%
Utility interruption	1.3%	2.1%	1.5%	2.3%	0.9%	1.5%	6.9%	1.3%	3.8%	2.0%	2.6%	2.0%	1.2%	1.6%
Inadequate heating capacity	1.2%	0.9%	0.8%	0.5%	2.1%	-	8.7%	3.0%	2.8%	3.5%	1.9%	-	1.4%	-
Inadequate insulation	1.9%	0.8%	0.9%	0.5%	3.9%	1.6%	14.8%	3.2%	8.7%	3.6%	4.5%	1.7%	2.7%	1.1%
Cost of heating	2.7%	0.6%	1.9%	0.5%	4.5%	0.8%	6.7%	0.8%	7.0%	2.2%	7.1%	1.1%	3.6%	0.7%
Other	1.5%	-	1.4%	1.0%	1.8%	-	4.2%	3.2%	2.3%	-	2.1%	1.6%	0.9%	1.4%
SELECTED PHYSICAL PROBLEMS														
Severe Physical Problems(,000)	10	1,970	5	932	5	1,039	10	1,970	.	.	2	498	5	881
Severe physical problems	1.4%	1.9%	1.0%	1.3%	2.1%	3.1%	100%	-	.	.	3.3%	-	2.4%	-
Plumbing	0.8%	1.3%	0.5%	1.0%	1.2%	2.0%	55.5%	68.8%	.	.	2.3%	-	1.4%	1.9%
Heating	0.6%	-	0.4%	-	0.9%	-	42.6%	25.1%	.	.	1.0%	-	1.2%	0.8%
Electric	<0.1%	-	<0.1%	-	<0.1%	0.1%	1.8%	4.7%	.	.	<0.1%	0.3%	<0.1%	0.1%
Hallways	<0.1%	-	<0.1%	0.0%	<0.1%	-	<0.1%	0.4%	.	.	<0.1%	-	<0.1%	-
Upkeep	<0.1%	-	<0.1%	-	0.1%	-	3.5%	4.4%	.	.	0.3%	-	<0.1%	0.2%

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Moderate Physical Problems(,000)	20	4,316	9	1,795	12	2,521	.	.	20	4,316	3	1,107	6	1,746
Moderate physical problems	2.7%	4.1%	1.8%	2.5%	4.6%	7.5%	.	.	100%	-	4.9%	8.1%	3.0%	5.6%
Plumbing	0.3%	-	0.2%	-	0.6%	-	.	.	11.2%	4.5%	0.5%	-	0.4%	-
Heating	0.2%	1.4%	0.1%	1.3%	0.2%	1.5%	.	.	5.6%	33.5%	0.3%	3.2%	0.2%	1.2%
Upkeep	1.3%	-	0.6%	-	2.8%	3.4%	.	.	48.8%	32.7%	2.8%	2.2%	1.3%	2.3%
Hallways	0.1%	-	<0.1%	-	0.2%	-	.	.	2.9%	-	0.3%	-	0.1%	-
Kitchen	0.9%	1.2%	1.0%	-	0.9%	2.2%	.	.	34.7%	-	0.9%	2.6%	1.2%	1.9%
<hr/>														
OVERALL OPINION OF STRUCTURE														
1(worst)	0.3%	-	0.2%	-	0.4%	1.0%	<0.1%	2.6%	3.3%	-	1.1%	1.7%	0.3%	0.6%
2	0.3%	-	0.2%	-	0.5%	0.9%	5.6%	1.8%	<0.1%	1.6%	0.6%	0.9%	0.2%	0.5%
3	0.7%	-	0.2%	-	1.7%	-	3.7%	4.4%	5.2%	3.3%	1.7%	-	0.8%	1.2%
4	1.8%	1.1%	1.0%	0.6%	3.5%	2.2%	5.9%	2.6%	4.6%	-	2.5%	-	1.7%	-
5	6.8%	-	5.0%	3.5%	10.3%	-	28.8%	10.7%	15.2%	-	11.5%	8.9%	7.4%	-
6	7.0%	-	5.2%	4.1%	10.5%	-	8.4%	-	10.6%	-	6.8%	-	7.2%	-
7	16.9%	-	14.6%	-	21.4%	-	13.4%	16.4%	17.8%	14.2%	17.1%	12.8%	18.7%	-
8	29.5%	-	30.0%	-	28.7%	-	15.7%	23.1%	24.5%	-	22.7%	-	29.4%	-
9	14.2%	-	16.6%	-	9.5%	11.4%	11.4%	-	8.6%	-	9.7%	-	15.5%	-
10(best)	22.5%	27.8%	27.1%	-	13.4%	18.7%	7.3%	20.9%	10.2%	17.6%	26.2%	-	18.8%	22.6%

* = National Statistic only reported if Metropolitan Statistical Area (MSA) is $\geq 20\%$ (relative) and 0.25% (absolute) different from National.
See www.healthyhometraining.org/ahs/ for more info.