

**American Housing Survey - Selected Elements Related to Health Homes
2002 Milwaukee, WI 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)	585	105,842	372	72,238	213	33,604	10	1,970	29	4,316	59	13,741	224	31,213
GENERAL														
Owner occupied(,000)	372	72,238	372	72,238	.	.	4	932	6	1,795	16	5,868	104	16,093
Renter occupied(,000)	213	33,604	.	.	213	33,604	6	1,039	23	2,521	43	7,873	120	15,119
Owner occupied	63.6%	-	100%	-	<0.1%	<0.1%	39.9%	-	21.2%	41.6%	27.2%	42.7%	46.4%	-
Renter occupied	36.4%	-	<0.1%	<0.1%	100%	-	60.1%	-	78.8%	58.4%	72.8%	57.3%	53.6%	-
Units in Structure														
1, detached	58.7%	-	85.7%	-	11.6%	24.1%	39.1%	-	12.2%	46.4%	30.8%	45.0%	44.4%	-
1, attached	6.4%	-	5.2%	-	8.5%	-	6.4%	-	1.8%	3.1%	5.4%	-	5.8%	8.1%
2 to 4	16.9%	7.9%	6.2%	2.0%	35.7%	20.8%	26.1%	12.1%	54.1%	16.4%	32.3%	13.1%	28.1%	13.2%
5 to 9	6.1%	4.8%	1.0%	0.7%	14.9%	-	14.2%	8.8%	11.9%	9.3%	10.1%	-	7.3%	-
10 to 19	2.6%	4.2%	0.2%	0.7%	6.7%	11.9%	5.1%	-	4.6%	7.7%	4.4%	6.3%	2.9%	6.5%
20 to 49	4.5%	3.1%	0.5%	-	11.4%	8.6%	7.8%	-	8.1%	5.7%	5.9%	-	4.4%	6.0%
50 or more	4.2%	-	0.4%	0.8%	10.9%	-	1.3%	8.0%	7.2%	5.2%	11.1%	6.1%	6.8%	-
Manufactured /mobile home or trailer	0.6%	6.5%	0.8%	7.6%	0.2%	4.0%	<0.1%	5.2%	<0.1%	6.1%	<0.1%	9.3%	0.4%	0.9%
Year Structure Built														
Post-2000	2.2%	4.9%	2.9%	5.9%	0.9%	2.9%	<0.1%	1.3%	0.5%	1.7%	0.6%	2.6%	0.5%	3.0%
Post-1980	20.0%	32.2%	21.3%	35.1%	17.8%	26.0%	3.2%	16.9%	10.4%	16.2%	9.2%	24.5%	4.9%	21.1%
Pre-1980	80.0%	-	78.7%	-	82.2%	-	96.8%	-	89.6%	-	90.8%	-	95.1%	-
Pre-1960	50.2%	35.4%	50.2%	33.7%	50.3%	39.2%	65.9%	52.1%	64.7%	-	58.8%	41.0%	72.2%	48.8%
Pre-1940	28.0%	17.5%	23.7%	15.2%	35.6%	22.2%	48.9%	29.8%	47.6%	29.6%	43.8%	20.9%	45.7%	26.1%

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Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	380	74,026	338	63,322	43	10,704	5	1,047	4	2,138	21	7,035	112	18,035
With a basement under all of house	85.3%	33.0%	85.6%	34.6%	82.9%	23.7%	78.5%	31.4%	87.5%	16.5%	90.9%	26.5%	92.1%	33.0%
With a basement under part of house	10.3%	-	10.9%	-	4.9%	8.6%	13.3%	-	8.1%	-	5.5%	8.4%	5.1%	8.5%
With a crawl space	0.9%	25.5%	0.7%	24.5%	2.6%	31.4%	3.9%	31.8%	<0.1%	54.1%	<0.1%	35.0%	0.5%	24.4%
On a concrete slab	2.9%	29.3%	2.2%	28.3%	8.2%	35.2%	4.2%	23.3%	4.4%	19.8%	3.5%	29.1%	2.1%	33.6%
In some other way	0.6%	-	0.5%	-	1.4%	1.1%	<0.1%	2.4%	<0.1%	0.9%	<0.1%	1.0%	0.3%	-
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EXTERIOR														
External Building Conditions														
Sagging roof	2.4%	-	2.5%	1.9%	2.3%	3.1%	6.9%	8.5%	6.4%	9.8%	1.4%	4.3%	3.3%	2.5%
Missing roofing material	4.6%	3.6%	4.3%	2.9%	5.1%	-	9.3%	-	11.9%	-	6.0%	-	5.0%	-
Hole in roof	1.9%	-	1.1%	1.4%	3.1%	-	6.1%	8.1%	8.9%	-	4.2%	-	3.1%	2.3%
Missing bricks, siding, other outside wall material	3.1%	-	2.3%	-	4.6%	-	12.7%	9.5%	7.6%	11.3%	5.8%	-	5.5%	3.3%
Sloping outside walls	1.2%	-	0.8%	-	1.8%	2.3%	4.2%	5.5%	3.2%	7.5%	1.6%	3.2%	1.7%	-
Boarded up windows	0.9%	-	0.6%	-	1.5%	-	2.6%	3.5%	4.1%	-	2.4%	-	2.1%	1.5%
Broken windows	4.4%	-	3.2%	-	6.3%	-	17.2%	10.3%	13.6%	-	9.5%	6.9%	8.0%	4.6%
Bars on windows	3.2%	4.1%	2.5%	-	4.4%	6.6%	10.5%	7.8%	5.6%	8.4%	5.1%	6.2%	7.0%	10.1%
Foundation crumbling or has open crack or hole	3.7%	2.6%	3.4%	2.2%	4.2%	-	4.9%	8.6%	8.1%	10.8%	5.9%	4.3%	5.4%	3.1%
None of the above	79.5%	-	83.0%	-	73.5%	-	57.1%	-	60.2%	-	68.6%	-	70.5%	-

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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>
Water Leakage During Last 12 Months														
With leakage from outside structure	12.3%	-	13.7%	-	9.8%	-	21.4%	16.1%	21.8%	29.5%	12.7%	-	13.3%	10.0%
Roof	5.3%	-	5.5%	-	4.9%	-	10.5%	-	15.2%	20.1%	6.8%	-	6.2%	-
Basement	6.6%	3.6%	8.4%	4.5%	3.4%	1.8%	11.5%	3.3%	8.1%	6.0%	5.4%	2.1%	6.7%	2.9%
Walls, closed windows, or doors	2.1%	-	1.9%	-	2.4%	-	6.1%	-	2.5%	9.1%	3.3%	-	2.1%	-
Other or Unknown	1.2%	-	1.4%	-	0.9%	1.5%	<0.1%	2.8%	2.4%	6.1%	1.2%	-	1.6%	-
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INTERIOR														
Damage														
Holes in floors	0.5%	0.9%	0.3%	0.6%	0.9%	1.7%	6.4%	-	4.6%	9.5%	2.4%	-	1.0%	1.4%
Open cracks or holes	4.9%	-	3.8%	-	6.8%	-	10.7%	16.3%	23.5%	31.4%	7.4%	-	6.8%	-
Broken plaster or peeling paint	2.7%	-	2.3%	1.5%	3.6%	-	8.6%	10.6%	15.1%	20.4%	4.5%	-	4.0%	-
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Water Leakage During Last 12 Months														
With leakage from inside structure	7.5%	-	5.8%	-	10.3%	-	16.5%	-	23.3%	-	8.4%	-	9.9%	-
Fixtures backed up or overflowed	2.1%	2.7%	1.5%	2.2%	3.3%	-	6.8%	-	11.0%	-	2.5%	3.1%	3.2%	-
Pipes leaked	3.1%	3.7%	1.8%	2.9%	5.3%	-	8.1%	-	14.2%	-	5.3%	-	4.1%	-
Broken water heater	0.9%	-	1.0%	-	0.8%	-	2.1%	2.7%	2.6%	-	1.3%	-	1.0%	-
Other or Unknown	2.3%	-	2.1%	1.5%	2.5%	-	3.0%	4.6%	5.0%	-	2.1%	-	3.0%	2.4%

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Rodents														
Signs of rats in last 3 mon.	0.2%	0.8%	0.1%	0.6%	0.5%	1.3%	<0.1%	5.1%	2.6%	4.6%	1.3%	1.8%	0.5%	1.4%
Signs of mice in last 3 mon.	6.7%	-	6.7%	-	6.7%	-	4.3%	11.4%	12.0%	16.1%	9.8%	-	7.6%	-
Signs of rodents, not sure which kind in last 3 mon.	0.2%	-	0.1%	-	0.4%	-	2.4%	1.1%	2.6%	1.8%	1.5%	0.7%	0.5%	-
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	0.4%	-	0.3%	0.5%	0.8%	-	3.6%	2.7%	0.8%	1.3%	1.4%	1.0%	0.9%	0.6%
Rooms without electric outlets	1.8%	1.5%	1.3%	-	2.9%	2.0%	4.0%	8.4%	4.6%	-	3.1%	2.4%	2.7%	1.6%
Fuses/breakers blown in last 3 mon.	13.1%	9.2%	13.1%	9.4%	13.2%	8.8%	26.7%	12.5%	18.8%	-	15.6%	7.9%	15.9%	9.4%
Sanitation														
Lacking complete kitchen facilities	4.1%	1.5%	1.0%	0.4%	9.4%	3.7%	15.3%	7.3%	76.0%	32.7%	9.3%	2.7%	5.8%	2.5%
Lacking some or all plumbing facilities	1.2%	-	0.8%	-	1.9%	-	70.4%	-	<0.1%	0.0%	1.7%	2.5%	1.9%	-
Water not safe to drink	9.4%	-	7.7%	-	12.2%	-	13.2%	16.7%	12.8%	17.2%	14.4%	-	14.8%	-
Water stoppage in last 3 mon.	2.2%	3.5%	1.8%	2.8%	2.9%	4.8%	3.2%	6.2%	3.4%	6.9%	1.3%	4.1%	2.3%	3.4%
No flush toilets working some time in last 3 mon.	1.7%	2.2%	1.1%	-	2.8%	4.3%	<0.1%	6.8%	6.1%	11.1%	3.5%	-	2.5%	3.0%
With sewage disposal breakdowns in last 3 mon.	1.0%	1.5%	1.2%	-	0.8%	2.0%	3.4%	-	2.5%	4.2%	2.2%	-	1.5%	1.8%
Septic tank, cesspool, chemical toilet	9.8%	20.7%	14.2%	26.7%	2.1%	7.9%	5.5%	13.3%	0.9%	18.2%	3.8%	17.7%	0.3%	1.2%
With septic tank or cesspool breakdowns in last 3 mon.	0.1%	0.3%	0.1%	0.4%	<0.1%	0.2%	<0.1%	-	<0.1%	0.9%	<0.1%	0.5%	<0.1%	-

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HEATING/FUEL														
Main Heating Equipment														
Warm-air furnace	79.3%	61.8%	87.4%	66.6%	65.2%	51.4%	63.8%	47.0%	63.2%	33.6%	68.6%	54.2%	75.0%	58.6%
Steam or hot water system	14.2%	-	9.2%	-	22.9%	16.2%	30.5%	22.5%	29.7%	12.9%	20.5%	12.6%	20.0%	-
Electric heat pump	0.5%	10.7%	0.2%	11.5%	0.9%	9.1%	<0.1%	4.2%	0.5%	4.8%	0.2%	8.4%	0.4%	8.5%
Built-in electric units	4.4%	-	2.0%	3.0%	8.7%	-	2.6%	4.3%	4.9%	-	6.8%	-	2.5%	3.7%
Floor, wall, or other built-in hot air without ducts	1.0%	5.0%	0.8%	3.2%	1.4%	9.0%	1.3%	8.8%	<0.1%	5.5%	2.4%	8.1%	1.4%	7.0%
Room heaters with flue	0.4%	1.4%	0.1%	1.1%	0.8%	1.8%	<0.1%	2.5%	1.7%	-	1.2%	2.8%	0.7%	1.0%
Room heaters without flue	<0.1%	1.4%	<0.1%	1.4%	<0.1%	1.5%	<0.1%	3.1%	<0.1%	33.5%	<0.1%	3.4%	<0.1%	1.3%
Portable electric heaters	<0.1%	0.7%	<0.1%	0.5%	<0.1%	1.1%	1.8%	-	<0.1%	1.6%	0.3%	1.5%	0.1%	0.8%
Stoves	0.1%	1.0%	0.1%	1.2%	<0.1%	0.5%	<0.1%	3.3%	<0.1%	1.0%	<0.1%	1.4%	<0.1%	<0.1%
Fireplace with inserts	<0.1%	0.1%	<0.1%	0.2%	<0.1%	-	<0.1%	<0.1%	<0.1%	0.1%	<0.1%	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	0.1%	-	0.1%	-	<0.1%	0.5%	<0.1%	0.7%	<0.1%	0.2%	<0.1%	0.6%	<0.1%	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%	0.1%	<0.1%	0.3%	<0.1%	0.2%	<0.1%	0.2%	<0.1%	0.3%	<0.1%	0.3%
Water Heating Fuel														
Electricity	20.5%	39.2%	18.6%	37.5%	23.8%	43.0%	8.4%	31.5%	15.6%	36.9%	19.5%	44.7%	12.4%	29.0%
Gas, LP/bottled gas	78.5%	55.4%	81.0%	57.6%	74.0%	50.7%	91.6%	57.7%	81.0%	57.8%	79.1%	50.1%	87.0%	64.3%
Fuel oil	0.3%	5.1%	0.3%	4.6%	0.3%	6.1%	<0.1%	10.4%	<0.1%	5.0%	0.6%	4.9%	0.1%	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	0.7%	0.3%	0.1%	-	1.9%	0.2%	<0.1%	0.4%	3.5%	0.3%	0.8%	0.4%	0.4%	-

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	<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>
Clothes Dryer Fuel(,000)	469	82,538	360	67,262	110	15,276	6	1,014	15	2,387	32	7,720	153	19,624
Electricity	55.2%	76.5%	53.1%	74.8%	62.5%	83.6%	53.3%	75.5%	45.6%	83.0%	50.0%	81.5%	41.2%	71.7%
Gas, LP gas (liquid propane)	44.6%	23.5%	46.8%	25.1%	37.4%	16.3%	46.7%	24.5%	54.4%	17.0%	50.0%	18.5%	58.5%	28.3%
Other	0.1%	-	0.1%	-	0.1%	-	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	0.3%	<0.1%
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Heating Problems														
Uncomfortably cold for 24 hours or more last winter	7.7%	-	5.1%	6.3%	13.0%	-	32.9%	-	19.4%	-	14.1%	11.2%	11.4%	9.1%
Heating equipment breakdowns	2.8%	2.1%	2.1%	-	4.2%	2.9%	29.4%	-	6.7%	3.5%	5.8%	2.8%	4.2%	2.8%
Other causes	4.5%	-	3.0%	4.4%	7.2%	-	7.3%	-	10.1%	-	6.8%	-	6.6%	5.3%
Utility interruption	0.5%	2.1%	0.6%	2.3%	0.3%	1.5%	<0.1%	1.3%	0.5%	2.0%	<0.1%	2.0%	0.7%	1.6%
Inadequate heating capacity	1.0%	-	0.4%	-	2.1%	-	5.7%	3.0%	4.4%	3.5%	2.7%	2.0%	2.0%	1.3%
Inadequate insulation	1.2%	0.8%	0.5%	-	2.7%	1.6%	3.2%	-	2.5%	3.6%	3.1%	1.7%	2.2%	1.1%
Cost of heating	0.7%	-	0.6%	-	0.7%	-	<0.1%	0.8%	<0.1%	2.2%	0.3%	1.1%	0.5%	-
Other	1.8%	1.2%	1.1%	-	3.1%	1.6%	<0.1%	3.2%	4.9%	2.7%	3.1%	1.6%	2.4%	1.4%
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SELECTED PHYSICAL PROBLEMS														
Severe Physical Problems(,000)	10	1,970	4	932	6	1,039	10	1,970	.	.	1	498	6	881
Severe physical problems	1.7%	-	1.1%	-	2.9%	-	100%	-	.	.	2.4%	3.6%	2.7%	-
Plumbing	1.2%	-	0.8%	-	1.9%	-	70.4%	-	.	.	1.7%	2.5%	1.9%	-
Heating	0.4%	-	0.2%	-	0.8%	-	24.3%	-	.	.	0.7%	-	0.6%	-
Electric	<0.1%	-	<0.1%	0.1%	0.1%	-	1.3%	4.7%	.	.	<0.1%	0.3%	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%	-	3.9%	-	.	.	<0.1%	0.3%	0.1%	-

*** = 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.**

**American Housing Survey - Selected Elements Related to Health Homes
2002 Milwaukee, WI 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
Moderate Physical Problems(,000)	29	4,316	6	1,795	23	2,521	.	.	29	4,316	7	1,107	16	1,746
Moderate physical problems	5.0%	-	1.7%	2.5%	10.9%	7.5%	.	.	100%	-	12.1%	8.1%	7.1%	5.6%
Plumbing	0.1%	-	0.1%	-	0.1%	0.4%	.	.	1.7%	4.5%	<0.1%	0.4%	0.1%	-
Heating	<0.1%	1.4%	<0.1%	1.3%	<0.1%	1.5%	.	.	<0.1%	33.5%	<0.1%	3.2%	<0.1%	1.2%
Upkeep	3.8%	1.3%	1.0%	0.4%	8.8%	3.4%	.	.	76.0%	32.7%	8.8%	2.2%	5.3%	2.3%
Hallways	0.1%	-	<0.1%	-	0.2%	-	.	.	1.8%	3.3%	0.2%	-	0.1%	-
Kitchen	1.1%	-	0.6%	-	1.9%	-	.	.	21.4%	30.2%	3.1%	-	1.7%	-
OVERALL OPINION OF STRUCTURE														
1(worst)	0.4%	-	<0.1%	-	0.9%	-	5.7%	2.6%	2.5%	3.0%	1.8%	-	0.9%	0.6%
2	0.4%	-	0.1%	-	0.9%	-	1.3%	1.8%	0.4%	1.6%	1.1%	-	0.8%	0.5%
3	0.9%	-	0.4%	-	1.6%	-	<0.1%	4.4%	2.4%	3.3%	2.3%	1.7%	1.6%	1.2%
4	1.1%	-	0.5%	-	2.1%	-	3.1%	-	2.9%	3.9%	2.2%	-	1.8%	-
5	5.7%	-	4.1%	-	8.4%	-	15.3%	10.7%	11.2%	14.0%	8.8%	-	8.6%	-
6	5.3%	-	3.4%	-	8.5%	-	8.5%	-	10.0%	-	6.8%	-	7.5%	-
7	14.8%	-	12.8%	-	18.3%	-	14.1%	-	20.2%	14.2%	15.0%	-	17.0%	-
8	28.3%	-	29.4%	-	26.3%	-	26.6%	-	23.1%	-	21.6%	-	28.4%	-
9	14.8%	-	16.7%	-	11.6%	-	13.8%	10.1%	11.2%	-	8.8%	11.1%	11.5%	14.1%
10(best)	28.4%	-	32.5%	-	21.3%	-	11.6%	20.9%	16.1%	-	31.5%	-	21.9%	-

* = National Statistic only reported if Metropolitan Statistical Area (MSA) is $\geq 20\%$ (relative) and 0.25% (absolute) different from National.
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