

**American Housing Survey - Selected Elements Related to Health Homes
1998 Boston, MA and 1999 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)	1,264	102,803	761	68,796	503	34,007	26	2,053	53	4,826		13,955	228	31,131
GENERAL														
Owner occupied(,000)	761	68,796	761	68,796	.	.	9	869	21	2,056		6,083	77	15,512
Renter occupied(,000)	503	34,007	.	.	503	34,007	17	1,184	32	2,769		7,872	151	15,619
Owner occupied	60.2%	-	100%	-	<0.1%	<0.1%	35.1%	42.3%	39.8%	-		43.6%	33.7%	49.8%
Renter occupied	39.8%	-	<0.1%	<0.1%	100%	-	64.9%	-	60.2%	-		56.4%	66.3%	50.2%
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Units in Structure														
1, detached	55.7%	-	78.8%	-	20.7%	-	36.9%	45.0%	30.8%	48.4%		44.7%	35.3%	48.2%
1, attached	4.5%	6.8%	3.0%	5.1%	6.7%	10.2%	1.2%	5.4%	5.9%	4.4%		7.7%	6.9%	9.5%
2 to 4	20.2%	8.3%	11.6%	2.1%	33.2%	20.9%	19.7%	13.1%	39.8%	15.1%		13.1%	25.2%	13.7%
5 to 9	5.1%	-	1.1%	0.7%	11.1%	-	11.0%	-	6.6%	-		7.4%	8.1%	-
10 to 19	3.9%	-	0.9%	0.5%	8.4%	11.9%	9.7%	6.5%	6.2%	-		6.2%	8.3%	-
20 to 49	4.4%	3.3%	1.3%	0.5%	9.1%	-	7.0%	-	6.6%	-		5.2%	7.6%	6.0%
50 or more	5.3%	3.2%	1.7%	0.8%	10.6%	8.2%	12.1%	7.8%	4.0%	-		6.0%	8.4%	-
Manufactured /mobile home or trailer	1.0%	6.6%	1.5%	8.2%	0.2%	3.3%	2.4%	4.6%	<0.1%	7.4%		9.7%	0.2%	1.1%
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Year Structure Built														
Post-2000	<0.1%	-	<0.1%	-	<0.1%	0.0%	<0.1%	0.0%	<0.1%	0.0%		0.0%	<0.1%	0.0%
Post-1980	13.9%	27.9%	16.1%	30.3%	10.6%	23.1%	10.4%	13.0%	8.2%	15.1%		21.1%	7.3%	17.9%
Pre-1980	86.1%	-	83.9%	-	89.4%	-	89.6%	-	91.8%	-		78.9%	92.7%	-
Pre-1960	63.6%	38.2%	62.7%	36.6%	64.9%	41.3%	66.5%	-	77.3%	55.9%		43.9%	76.6%	51.5%
Pre-1940	43.3%	19.0%	39.6%	16.8%	48.8%	23.5%	48.9%	32.9%	64.3%	31.9%		22.8%	60.5%	27.8%

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Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	761	71,499	623	59,969	138	11,530	10	1,036	19	2,545	7,306	96	17,963	
With a basement under all of house	78.4%	33.2%	80.0%	35.4%	71.0%	21.4%	78.5%	30.5%	63.1%	14.6%	26.2%	69.3%	33.3%	
With a basement under part of house	11.6%	-	11.7%	-	11.2%	7.9%	10.8%	-	15.8%	9.3%	8.4%	15.9%	8.2%	
With a crawl space	3.3%	25.8%	3.1%	24.8%	4.2%	30.9%	7.4%	33.1%	5.4%	53.0%	33.3%	3.1%	24.2%	
On a concrete slab	5.9%	28.7%	4.5%	26.9%	12.2%	38.3%	3.3%	24.1%	11.9%	21.2%	30.7%	11.2%	33.4%	
In some other way	0.8%	-	0.7%	-	1.4%	-	<0.1%	1.5%	3.8%	2.0%	1.4%	0.4%	0.8%	
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EXTERIOR														
External Building Conditions														
Sagging roof	2.7%	-	2.6%	-	2.9%	-	6.8%	-	8.4%	-	3.7%	2.9%	-	
Missing roofing material	5.2%	3.8%	5.2%	3.3%	5.2%	-	13.2%	9.0%	12.7%	-	5.5%	5.7%	4.4%	
Hole in roof	2.8%	1.9%	2.4%	1.5%	3.5%	2.8%	8.1%	6.4%	12.0%	-	3.5%	3.2%	2.3%	
Missing bricks, siding, other outside wall material	4.4%	2.5%	4.5%	1.9%	4.2%	-	15.1%	9.0%	9.4%	-	4.1%	5.0%	3.0%	
Sloping outside walls	2.1%	1.6%	2.2%	1.2%	2.0%	-	5.8%	7.7%	8.5%	6.4%	2.9%	1.8%	-	
Boarded up windows	1.3%	1.0%	1.1%	0.7%	1.6%	-	7.5%	4.2%	4.3%	-	2.2%	1.5%	-	
Broken windows	3.3%	4.2%	3.0%	-	3.8%	5.6%	10.5%	-	13.2%	-	7.2%	3.5%	5.1%	
Bars on windows	4.0%	-	3.3%	-	5.2%	7.3%	10.5%	-	6.1%	8.6%	7.5%	14.4%	11.4%	
Foundation crumbling or has open crack or hole	3.9%	2.9%	3.6%	2.4%	4.3%	-	6.3%	9.1%	11.1%	-	3.9%	4.3%	-	
None of the above	77.2%	-	81.2%	-	71.2%	-	49.0%	62.0%	51.7%	-	70.6%	65.8%	-	

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Water Leakage During Last 12 Months														
With leakage from outside structure	21.4%	12.3%	26.9%	13.3%	13.1%	10.4%	27.2%	19.8%	44.3%	30.5%		11.0%	13.6%	-
Roof	9.7%	6.4%	12.1%	6.8%	6.5%	-	14.4%	11.1%	24.7%	-		6.9%	7.0%	-
Basement	12.2%	4.2%	17.6%	5.3%	4.2%	1.9%	10.2%	4.4%	24.5%	6.5%		2.2%	5.1%	3.7%
Walls, closed windows, or doors	4.6%	2.7%	4.6%	2.5%	4.6%	3.3%	16.6%	8.1%	18.3%	10.0%		3.0%	4.5%	3.0%
Other or Unknown	1.3%	-	1.7%	-	0.7%	1.3%	<0.1%	3.7%	5.5%	-		1.1%	0.6%	1.6%
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INTERIOR														
Damage														
Holes in floors	1.4%	-	1.0%	0.7%	2.0%	-	5.0%	7.6%	17.9%	9.7%		2.9%	1.0%	1.7%
Open cracks or holes	6.7%	-	6.0%	4.0%	7.9%	-	20.6%	-	48.3%	32.1%		9.1%	6.0%	7.7%
Broken plaster or peeling paint	4.0%	2.8%	3.0%	1.8%	5.5%	-	10.7%	-	29.9%	21.3%		4.6%	3.4%	4.1%
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Water Leakage During Last 12 Months														
With leakage from inside structure	9.1%	-	7.8%	-	11.1%	-	28.9%	19.9%	31.2%	-		11.2%	9.2%	11.5%
Fixtures backed up or overflowed	3.0%	-	2.6%	-	3.6%	4.4%	11.6%	8.5%	14.2%	-		4.3%	2.3%	4.0%
Pipes leaked	3.9%	-	2.8%	-	5.7%	7.1%	17.4%	13.0%	17.4%	-		5.9%	4.7%	5.8%
Broken water heater	1.3%	0.9%	1.5%	0.9%	1.1%	-	3.6%	1.8%	5.5%	2.6%		0.9%	1.1%	-
Other or Unknown	2.2%	-	1.9%	-	2.8%	-	7.0%	4.6%	9.1%	6.4%		2.0%	3.1%	-

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Rodents														
Signs of rats in last 3 mon.	0.6%	0.9%	0.3%	0.6%	1.1%	1.5%	3.3%	5.5%	2.4%	5.1%		2.0%	2.2%	1.6%
Signs of mice in last 3 mon.	7.0%	-	6.5%	-	7.7%	-	15.3%	-	14.6%	-		10.3%	12.2%	7.8%
Signs of rodents, not sure which kind in last 3 mon.	0.4%	-	0.2%	-	0.6%	-	1.5%	-	1.8%	-		0.7%	0.8%	-
Electrical														
No electrical wiring	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	1.7%	<0.1%	0.1%		0.2%	<0.1%	-
Exposed wiring	0.6%	-	0.4%	-	0.8%	-	2.8%	-	2.5%	1.6%		0.9%	1.0%	0.7%
Rooms without electric outlets	1.6%	-	1.1%	-	2.3%	-	8.4%	5.7%	1.3%	4.3%		2.6%	2.4%	1.8%
Fuses/breakers blown in last 3 mon.	30.2%	11.3%	37.2%	11.3%	19.6%	11.3%	40.0%	18.6%	42.7%	15.8%		10.1%	17.9%	11.7%
Sanitation														
Lacking complete kitchen facilities	2.1%	1.7%	1.0%	0.6%	3.8%	-	11.2%	-	45.5%	31.3%		3.6%	4.0%	2.7%
Lacking some or all plumbing facilities	1.5%	-	1.4%	1.0%	1.6%	2.3%	44.8%	69.9%	<0.1%	0.0%		2.8%	1.2%	1.9%
Water not safe to drink	17.2%	9.9%	15.7%	7.7%	19.5%	14.4%	32.6%	18.7%	23.6%	14.5%		12.2%	21.0%	13.2%
Water stoppage in last 3 mon.	3.6%	4.5%	2.7%	3.9%	5.0%	-	11.2%	8.5%	7.9%	-		5.2%	4.3%	-
No flush toilets working some time in last 3 mon.	2.6%	-	2.0%	-	3.6%	5.0%	8.4%	-	9.2%	-		4.7%	3.8%	-
With sewage disposal breakdowns in last 3 mon.	1.5%	1.8%	1.7%	-	1.1%	2.3%	4.2%	-	3.8%	4.9%		2.2%	1.0%	2.3%
Septic tank, cesspool, chemical toilet	18.4%	22.4%	26.9%	-	5.4%	8.3%	13.2%	-	15.3%	21.2%		18.4%	0.2%	1.3%
With septic tank or cesspool breakdowns in last 3 mon.	0.3%	-	0.4%	-	0.1%	-	<0.1%	0.4%	<0.1%	0.8%		0.3%	<0.1%	-

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HEATING/FUEL														
Main Heating Equipment														
Warm-air furnace	35.3%	60.3%	35.4%	65.3%	35.3%	50.3%	23.3%	45.2%	28.3%	-	52.8%	32.9%	57.4%	
Steam or hot water system	55.4%	12.8%	58.4%	11.0%	50.9%	16.4%	70.1%	23.3%	57.9%	12.2%	12.3%	53.3%	17.8%	
Electric heat pump	1.6%	10.7%	1.1%	11.4%	2.2%	9.4%	2.4%	4.3%	1.5%	3.8%	8.5%	2.4%	8.8%	
Built-in electric units	5.5%	-	3.4%	-	8.8%	-	2.8%	4.1%	7.5%	3.9%	6.0%	8.0%	3.8%	
Floor, wall, or other built-in hot air without ducts	1.3%	5.2%	1.2%	3.5%	1.5%	8.5%	<0.1%	8.3%	2.2%	5.3%	8.4%	1.9%	6.7%	
Room heaters with flue	0.2%	1.6%	<0.1%	1.4%	0.4%	2.0%	<0.1%	3.0%	<0.1%	1.6%	3.3%	0.7%	1.2%	
Room heaters without flue	0.1%	1.7%	<0.1%	1.5%	0.1%	2.1%	<0.1%	3.0%	2.0%	35.8%	4.0%	0.2%	1.8%	
Portable electric heaters	0.1%	0.7%	<0.1%	0.5%	0.2%	1.0%	<0.1%	1.3%	<0.1%	1.0%	1.4%	<0.1%	0.8%	
Stoves	0.2%	1.1%	0.3%	1.3%	<0.1%	0.6%	<0.1%	4.0%	0.7%	1.2%	1.4%	<0.1%	0.1%	
Fireplace with inserts	0.1%	-	<0.1%	-	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%	0.1%	<0.1%	0.3%	<0.1%	0.1%	0.1%	<0.1%	-	
Other	0.1%	-	0.1%	-	0.1%	0.5%	<0.1%	0.8%	<0.1%	0.5%	0.4%	<0.1%	0.3%	
No heating equipment	<0.1%	0.5%	<0.1%	0.3%	<0.1%	-	<0.1%	1.7%	<0.1%	1.4%	-	<0.1%	-	
Cooking stove	0.2%	-	0.1%	-	0.4%	-	1.4%	0.7%	<0.1%	0.1%	0.2%	0.7%	0.2%	
Water Heating Fuel														
Electricity	22.8%	39.3%	19.4%	38.2%	27.9%	41.6%	22.8%	33.4%	16.6%	36.7%	41.9%	23.2%	29.6%	
Gas, LP/bottled gas	52.4%	-	51.2%	-	54.2%	-	46.2%	-	56.0%	-	52.9%	59.7%	-	
Fuel oil	24.5%	5.4%	29.2%	4.9%	17.6%	6.4%	29.8%	11.0%	26.8%	4.6%	4.7%	17.1%	6.4%	
Kerosene or other liquid fuel	0.1%	-	0.1%	-	<0.1%	<0.1%	1.2%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	
Other	0.2%	-	0.1%	-	0.4%	-	<0.1%	0.2%	0.7%	-	0.4%	<0.1%	0.3%	

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Clothes Dryer Fuel(,000)	832	76,454	664	62,738	168	13,716	11	903	25	2,436		7,217	90	18,170
Electricity	70.4%	-	69.9%	-	72.2%	-	77.2%	-	69.4%	-		80.2%	57.9%	70.9%
Gas, LP gas (liquid propane)	29.6%	-	30.0%	-	27.8%	16.9%	22.8%	28.4%	30.6%	17.5%		19.8%	42.1%	29.0%
Other	<0.1%	-	0.1%	-	<0.1%	0.1%	<0.1%	<0.1%	<0.1%	0.4%		0.1%	<0.1%	0.1%
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Heating Problems														
Uncomfortably cold for 24 hours or more last winter	9.8%	7.1%	8.2%	5.6%	12.5%	-	63.5%	35.9%	18.7%	-		11.2%	11.6%	8.8%
Heating equipment breakdowns	3.5%	2.1%	2.8%	1.5%	4.5%	3.1%	52.8%	25.3%	2.9%	-		3.3%	4.4%	3.2%
Other causes	5.5%	4.2%	5.0%	3.7%	6.3%	-	10.5%	-	12.7%	-		6.2%	6.3%	4.4%
Utility interruption	2.5%	1.5%	3.3%	1.8%	1.3%	0.8%	<0.1%	1.5%	4.5%	1.1%		1.1%	0.9%	-
Inadequate heating capacity	1.3%	-	0.5%	-	2.3%	-	4.5%	-	4.8%	-		2.4%	3.0%	1.7%
Inadequate insulation	0.9%	-	0.5%	-	1.4%	-	2.7%	-	5.4%	3.8%		1.7%	1.1%	1.4%
Cost of heating	0.6%	-	0.5%	-	0.8%	0.5%	3.0%	0.9%	<0.1%	1.2%		0.8%	1.3%	0.5%
Other	1.0%	-	0.4%	0.8%	1.9%	1.5%	4.2%	-	3.9%	3.1%		1.9%	2.0%	1.3%
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SELECTED PHYSICAL PROBLEMS														
Severe Physical Problems(,000)	26	2,053	9	869	17	1,184	26	2,053	.	.		598	6	963
Severe physical problems	2.1%	-	1.2%	-	3.4%	-	100%	-	.	.		4.3%	2.6%	3.1%
Plumbing	0.9%	1.4%	0.6%	1.0%	1.4%	2.3%	44.8%	69.9%	.	.		2.8%	1.2%	1.9%
Heating	1.0%	0.5%	0.5%	0.2%	1.8%	0.9%	50.1%	23.9%	.	.		1.1%	1.2%	0.9%
Electric	<0.1%	-	<0.1%	0.1%	0.1%	-	1.4%	5.1%	.	.		0.3%	0.2%	-
Hallways	<0.1%	-	<0.1%	0.0%	<0.1%	-	<0.1%	0.3%	.	.		0.0%	<0.1%	-
Upkeep	0.1%	-	<0.1%	-	0.1%	-	3.7%	-	.	.		0.4%	<0.1%	0.2%

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Moderate Physical Problems(,000)	53	4,826	21	2,056	32	2,769	.	.	53	4,826		1,306	16	1,967
Moderate physical problems	4.2%	-	2.8%	-	6.3%	8.1%	.	.	100%	-		9.4%	7.1%	-
Plumbing	0.2%	-	0.2%	-	0.2%	-	.	.	4.5%	-		0.5%	0.2%	-
Heating	0.1%	1.7%	<0.1%	1.5%	0.1%	2.0%	.	.	2.0%	35.8%		3.8%	0.2%	1.7%
Upkeep	1.9%	1.5%	1.0%	0.5%	3.3%	-	.	.	45.5%	31.3%		2.8%	3.7%	2.4%
Hallways	0.3%	-	<0.1%	-	0.7%	0.4%	.	.	7.2%	2.6%		0.2%	1.0%	0.3%
Kitchen	1.8%	1.4%	1.7%	0.9%	2.1%	-	.	.	44.3%	30.6%		2.8%	2.2%	-
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OVERALL OPINION OF STRUCTURE														
1(worst)	0.4%	-	<0.1%	-	0.8%	1.2%	1.4%	4.4%	1.3%	2.8%		1.7%	0.7%	0.9%
2	0.3%	-	0.1%	-	0.7%	-	<0.1%	1.2%	1.5%	-		0.8%	0.7%	0.5%
3	0.7%	-	0.2%	-	1.4%	-	5.8%	3.4%	3.5%	-		1.7%	1.2%	0.9%
4	0.9%	1.3%	0.3%	0.6%	1.8%	2.8%	5.5%	-	0.8%	4.3%		2.4%	1.7%	-
5	5.8%	-	3.2%	4.2%	9.6%	-	15.6%	-	9.4%	14.7%		10.6%	8.4%	-
6	5.4%	-	3.9%	-	7.7%	-	9.8%	5.8%	10.3%	-		6.6%	8.2%	-
7	16.1%	-	13.2%	-	20.5%	-	18.0%	-	21.9%	15.1%		13.1%	18.4%	-
8	26.8%	-	27.7%	-	25.4%	-	18.5%	23.5%	22.2%	-		22.6%	27.4%	-
9	15.1%	-	17.4%	-	11.6%	-	11.2%	7.8%	8.1%	-		11.6%	14.1%	-
10(best)	28.6%	-	34.0%	-	20.5%	-	14.2%	18.3%	20.9%	-		29.2%	19.2%	-

* = 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.