

**American Housing Survey - Selected Elements Related to Health Homes
1998 Providence, RI 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)	380	102,803	240	68,796	140	34,007	5	2,053	23	4,826		13,955	123	31,131
GENERAL														
Owner occupied(,000)	240	68,796	240	68,796	.	.	2	869	6	2,056		6,083	62	15,512
Renter occupied(,000)	140	34,007	.	.	140	34,007	4	1,184	17	2,769		7,872	61	15,619
Owner occupied	63.2%	-	100%	-	<0.1%	<0.1%	31.8%	42.3%	27.6%	42.6%		43.6%	50.1%	-
Renter occupied	36.8%	-	<0.1%	<0.1%	100%	-	68.2%	-	72.4%	57.4%		56.4%	49.9%	-
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Units in Structure														
1, detached	60.5%	-	85.4%	-	17.7%	23.7%	37.9%	-	14.4%	48.4%		44.7%	45.6%	-
1, attached	2.9%	6.8%	1.8%	5.1%	4.8%	10.2%	3.5%	5.4%	0.9%	4.4%		7.7%	2.6%	9.5%
2 to 4	23.1%	8.3%	9.5%	2.1%	46.4%	20.9%	38.5%	13.1%	62.4%	15.1%		13.1%	36.0%	13.7%
5 to 9	3.6%	4.7%	0.4%	0.7%	9.0%	12.9%	1.9%	9.3%	9.0%	7.1%		7.4%	4.4%	7.6%
10 to 19	3.0%	4.3%	0.4%	-	7.4%	11.9%	9.2%	6.5%	4.0%	6.9%		6.2%	3.0%	6.8%
20 to 49	1.7%	3.3%	0.2%	0.5%	4.4%	8.8%	1.8%	8.2%	2.1%	6.3%		5.2%	2.3%	6.0%
50 or more	3.9%	-	0.3%	0.8%	10.1%	-	7.3%	-	7.2%	4.6%		6.0%	5.4%	7.0%
Manufactured /mobile home or trailer	1.3%	6.6%	1.9%	8.2%	0.3%	3.3%	<0.1%	4.6%	<0.1%	7.4%		9.7%	0.7%	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	18.7%	27.9%	22.6%	30.3%	12.0%	23.1%	9.9%	13.0%	12.6%	15.1%		21.1%	9.0%	17.9%
Pre-1980	81.3%	-	77.4%	-	88.0%	-	90.1%	-	87.4%	-		78.9%	91.0%	-
Pre-1960	56.6%	38.2%	52.8%	36.6%	63.2%	41.3%	71.8%	-	68.7%	-		43.9%	71.7%	51.5%
Pre-1940	35.2%	19.0%	27.1%	16.8%	49.2%	23.5%	52.6%	32.9%	52.4%	31.9%		22.8%	47.9%	27.8%

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Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	241	71,499	209	59,969	31	11,530	2	1,036	4	2,545	7,306	59	17,963	
With a basement under all of house	80.8%	33.2%	82.4%	35.4%	70.1%	21.4%	77.5%	30.5%	62.8%	14.6%	26.2%	86.7%	33.3%	
With a basement under part of house	9.2%	11.5%	9.6%	12.2%	7.2%	-	9.0%	11.0%	19.7%	9.3%	8.4%	6.3%	8.2%	
With a crawl space	2.9%	25.8%	2.6%	24.8%	4.8%	30.9%	<0.1%	33.1%	<0.1%	53.0%	33.3%	1.5%	24.2%	
On a concrete slab	5.3%	28.7%	4.3%	26.9%	12.1%	38.3%	4.0%	24.1%	8.4%	21.2%	30.7%	5.0%	33.4%	
In some other way	1.8%	0.9%	1.2%	0.8%	5.8%	1.5%	9.5%	1.5%	9.1%	2.0%	1.4%	0.5%	0.8%	
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EXTERIOR														
External Building Conditions														
Sagging roof	2.1%	-	1.8%	-	2.7%	-	7.1%	-	6.4%	9.1%	3.7%	1.5%	2.6%	
Missing roofing material	3.9%	-	3.6%	-	4.5%	-	6.1%	9.0%	14.2%	10.7%	5.5%	4.7%	-	
Hole in roof	2.3%	-	1.7%	-	3.4%	-	9.1%	6.4%	9.8%	-	3.5%	2.3%	-	
Missing bricks, siding, other outside wall material	3.4%	2.5%	2.2%	-	5.5%	3.8%	8.8%	-	13.8%	10.2%	4.1%	4.0%	3.0%	
Sloping outside walls	1.8%	-	1.2%	-	2.8%	-	12.5%	7.7%	7.4%	-	2.9%	1.7%	-	
Boarded up windows	1.6%	1.0%	1.0%	0.7%	2.6%	1.8%	4.0%	-	3.5%	4.7%	2.2%	2.4%	1.6%	
Broken windows	4.9%	-	2.9%	-	8.3%	5.6%	18.1%	12.0%	11.3%	14.6%	7.2%	7.1%	5.1%	
Bars on windows	2.2%	4.8%	1.7%	3.6%	3.2%	7.3%	3.7%	8.6%	2.2%	8.6%	7.5%	4.5%	11.4%	
Foundation crumbling or has open crack or hole	3.1%	-	2.4%	-	4.1%	-	12.4%	9.1%	8.2%	10.2%	3.9%	2.1%	3.5%	
None of the above	81.4%	-	86.6%	-	72.6%	-	57.5%	-	57.0%	-	70.6%	77.1%	-	

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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	18.0%	12.3%	21.7%	13.3%	11.7%	-	22.6%	-	25.7%	-	11.0%	14.3%	-	
Roof	7.7%	-	9.0%	6.8%	5.5%	-	14.4%	11.1%	16.3%	21.0%	6.9%	7.6%	-	
Basement	10.0%	4.2%	13.8%	5.3%	3.6%	1.9%	10.6%	4.4%	6.4%	-	2.2%	6.0%	3.7%	
Walls, closed windows, or doors	4.0%	2.7%	3.5%	2.5%	4.7%	3.3%	8.7%	-	10.8%	-	3.0%	3.7%	3.0%	
Other or Unknown	1.6%	-	1.8%	1.3%	1.2%	-	2.3%	3.7%	4.3%	-	1.1%	0.9%	1.6%	
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INTERIOR														
Damage														
Holes in floors	1.1%	-	0.8%	-	1.5%	2.0%	5.9%	7.6%	7.8%	9.7%	2.9%	1.2%	1.7%	
Open cracks or holes	5.8%	-	4.5%	-	8.1%	-	15.4%	18.5%	29.3%	-	9.1%	6.1%	7.7%	
Broken plaster or peeling paint	3.9%	2.8%	2.3%	-	6.7%	4.6%	13.0%	-	23.3%	-	4.6%	5.3%	4.1%	
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Water Leakage During Last 12 Months														
With leakage from inside structure	9.2%	-	7.5%	-	12.3%	-	21.4%	-	24.2%	-	11.2%	10.8%	-	
Fixtures backed up or overflowed	2.8%	-	2.3%	2.9%	3.7%	-	4.9%	8.5%	5.1%	11.5%	4.3%	3.0%	4.0%	
Pipes leaked	4.2%	-	2.4%	3.3%	7.4%	-	18.0%	13.0%	17.8%	-	5.9%	5.5%	-	
Broken water heater	1.7%	0.9%	2.2%	0.9%	0.9%	-	2.3%	1.8%	1.1%	2.6%	0.9%	2.3%	1.0%	
Other or Unknown	1.7%	2.1%	1.3%	1.8%	2.3%	-	2.5%	4.6%	5.9%	-	2.0%	2.1%	2.7%	

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	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National
Rodents														
Signs of rats in last 3 mon.	0.2%	0.9%	<0.1%	0.6%	0.4%	1.5%	<0.1%	5.5%	1.5%	5.1%		2.0%	0.3%	1.6%
Signs of mice in last 3 mon.	3.4%	7.0%	3.8%	6.3%	2.8%	8.3%	7.8%	15.0%	4.8%	16.7%		10.3%	3.4%	7.8%
Signs of rodents, not sure which kind in last 3 mon.	0.1%	0.4%	0.1%	-	<0.1%	0.7%	<0.1%	1.3%	<0.1%	1.6%		0.7%	<0.1%	0.6%
Electrical														
No electrical wiring	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	1.7%	<0.1%	0.1%		0.2%	<0.1%	-
Exposed wiring	0.4%	-	0.3%	-	0.6%	-	5.8%	2.4%	1.3%	1.6%		0.9%	0.4%	-
Rooms without electric outlets	2.1%	1.7%	1.5%	-	3.3%	2.4%	5.9%	-	4.9%	-		2.6%	2.7%	1.8%
Fuses/breakers blown in last 3 mon.	32.8%	11.3%	37.5%	11.3%	24.8%	11.3%	33.0%	18.6%	32.4%	15.8%		10.1%	28.8%	11.7%
Sanitation														
Lacking complete kitchen facilities	4.4%	1.7%	1.6%	0.6%	9.0%	4.0%	7.2%	11.3%	70.0%	31.3%		3.6%	7.5%	2.7%
Lacking some or all plumbing facilities	1.2%	-	1.0%	-	1.7%	2.3%	67.4%	-	0.4%	0.0%		2.8%	2.0%	-
Water not safe to drink	15.4%	9.9%	12.8%	7.7%	19.9%	14.4%	20.7%	-	27.6%	14.5%		12.2%	21.1%	13.2%
Water stoppage in last 3 mon.	3.6%	4.5%	3.0%	3.9%	4.8%	-	5.7%	8.5%	4.4%	7.1%		5.2%	4.1%	-
No flush toilets working some time in last 3 mon.	2.6%	-	1.9%	-	3.8%	5.0%	3.4%	8.9%	7.2%	10.4%		4.7%	2.3%	3.9%
With sewage disposal breakdowns in last 3 mon.	1.1%	1.8%	1.1%	1.6%	1.3%	2.3%	1.8%	4.1%	2.6%	4.9%		2.2%	1.1%	2.3%
Septic tank, cesspool, chemical toilet	29.1%	22.4%	39.5%	29.3%	11.2%	8.3%	17.5%	-	6.4%	21.2%		18.4%	15.5%	1.3%
With septic tank or cesspool breakdowns in last 3 mon.	0.5%	-	0.5%	-	0.5%	0.2%	1.8%	0.4%	<0.1%	0.8%		0.3%	0.3%	<0.1%

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	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National	MSA	National
HEATING/FUEL														
Main Heating Equipment														
Warm-air furnace	30.6%	60.3%	29.7%	65.3%	32.0%	50.3%	36.3%	45.2%	34.7%	-	52.8%	30.2%	57.4%	
Steam or hot water system	63.7%	12.8%	66.7%	11.0%	58.4%	16.4%	60.0%	23.3%	55.3%	12.2%	12.3%	65.1%	17.8%	
Electric heat pump	0.3%	10.7%	0.1%	11.4%	0.7%	9.4%	<0.1%	4.3%	<0.1%	3.8%	8.5%	0.4%	8.8%	
Built-in electric units	2.8%	4.8%	2.0%	3.3%	4.1%	7.8%	<0.1%	4.1%	4.5%	-	6.0%	2.1%	3.8%	
Floor, wall, or other built-in hot air without ducts	0.4%	5.2%	0.3%	3.5%	0.4%	8.5%	1.7%	8.3%	<0.1%	5.3%	8.4%	0.4%	6.7%	
Room heaters with flue	0.8%	1.6%	0.3%	1.4%	1.7%	2.0%	2.1%	3.0%	1.7%	-	3.3%	0.8%	1.2%	
Room heaters without flue	0.1%	1.7%	<0.1%	1.5%	0.2%	2.1%	<0.1%	3.0%	1.2%	35.8%	4.0%	0.1%	1.8%	
Portable electric heaters	<0.1%	0.7%	<0.1%	0.5%	<0.1%	1.0%	<0.1%	1.3%	<0.1%	1.0%	1.4%	0.1%	0.8%	
Stoves	0.6%	1.1%	0.7%	1.3%	0.4%	-	<0.1%	4.0%	0.9%	1.2%	1.4%	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%	-	
Fireplace without inserts	<0.1%	-	<0.1%	-	<0.1%	0.1%	<0.1%	0.3%	<0.1%	0.1%	0.1%	<0.1%	<0.1%	
Other	0.2%	-	0.1%	-	0.3%	-	<0.1%	0.8%	<0.1%	0.5%	0.4%	0.2%	-	
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	0.6%	0.1%	<0.1%	-	1.7%	0.2%	<0.1%	0.7%	1.8%	0.1%	0.2%	0.6%	0.2%	
Water Heating Fuel														
Electricity	14.6%	39.3%	13.5%	38.2%	16.7%	41.6%	7.5%	33.4%	12.1%	36.7%	41.9%	10.3%	29.6%	
Gas, LP/bottled gas	55.1%	-	48.9%	-	65.7%	51.6%	71.1%	55.4%	71.1%	-	52.9%	74.5%	-	
Fuel oil	29.9%	5.4%	37.2%	4.9%	17.5%	6.4%	19.4%	11.0%	16.8%	4.6%	4.7%	15.1%	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%	0.1%	-	
Other	0.3%	-	0.3%	-	0.1%	0.4%	2.0%	0.2%	<0.1%	0.5%	0.4%	<0.1%	0.3%	

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Clothes Dryer Fuel(,000)	258	76,454	210	62,738	48	13,716	3	903	8	2,436		7,217	68	18,170
Electricity	75.5%	-	74.9%	-	78.0%	-	87.5%	-	68.8%	-		80.2%	66.9%	-
Gas, LP gas (liquid propane)	24.5%	-	25.0%	-	22.0%	16.9%	12.5%	28.4%	31.2%	17.5%		19.8%	33.1%	-
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	6.2%	-	4.1%	5.6%	10.6%	-	41.1%	-	15.7%	-		11.2%	7.0%	8.8%
Heating equipment breakdowns	2.1%	-	1.5%	-	3.1%	-	28.6%	-	5.1%	3.2%		3.3%	2.7%	-
Other causes	3.5%	-	2.4%	3.7%	5.5%	-	9.6%	-	7.1%	10.6%		6.2%	3.4%	4.4%
Utility interruption	0.7%	1.5%	0.9%	1.8%	0.4%	0.8%	3.9%	1.5%	1.0%	-		1.1%	0.2%	0.7%
Inadequate heating capacity	0.9%	-	0.3%	0.6%	2.0%	-	4.3%	-	2.3%	4.8%		2.4%	1.3%	1.7%
Inadequate insulation	0.9%	-	0.4%	-	1.7%	-	2.2%	-	2.4%	3.8%		1.7%	0.9%	1.4%
Cost of heating	0.4%	-	0.2%	-	0.7%	-	6.2%	0.9%	0.5%	1.2%		0.8%	0.4%	-
Other	1.2%	-	0.7%	-	2.0%	1.5%	2.1%	3.4%	2.9%	-		1.9%	1.3%	-
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SELECTED PHYSICAL PROBLEMS														
Severe Physical Problems(,000)	5	2,053	2	869	4	1,184	5	2,053	.	.		598	3	963
Severe physical problems	1.4%	2.0%	0.7%	1.3%	2.7%	3.5%	100%	-	.	.		4.3%	2.3%	3.1%
Plumbing	1.0%	1.4%	0.5%	1.0%	1.7%	2.3%	67.4%	-	.	.		2.8%	1.5%	1.9%
Heating	0.4%	-	0.2%	-	0.8%	-	28.6%	-	.	.		1.1%	0.7%	-
Electric	0.1%	-	<0.1%	0.1%	0.3%	-	7.7%	5.1%	.	.		0.3%	0.3%	-
Hallways	<0.1%	-	<0.1%	0.0%	<0.1%	-	<0.1%	0.3%	.	.		0.0%	<0.1%	-
Upkeep	<0.1%	-	<0.1%	-	0.1%	-	1.8%	4.4%	.	.		0.4%	0.1%	-

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Moderate Physical Problems(,000)	23	4,826	6	2,056	17	2,769	.	.	23	4,826		1,306	12	1,967
Moderate physical problems	6.1%	4.7%	2.7%	-	12.0%	8.1%	.	.	100%	-		9.4%	9.5%	6.3%
Plumbing	0.1%	-	0.1%	-	0.2%	-	.	.	2.3%	4.5%		0.5%	0.1%	-
Heating	0.1%	1.7%	<0.1%	1.5%	0.2%	2.0%	.	.	1.2%	35.8%		3.8%	0.1%	1.7%
Upkeep	4.3%	1.5%	1.6%	0.5%	8.8%	3.5%	.	.	70.0%	31.3%		2.8%	7.3%	2.4%
Hallways	0.2%	-	<0.1%	-	0.5%	-	.	.	3.1%	-		0.2%	0.2%	-
Kitchen	1.7%	-	1.0%	-	3.0%	-	.	.	28.2%	-		2.8%	2.2%	-
<hr/>														
OVERALL OPINION OF STRUCTURE														
1(worst)	0.4%	-	0.1%	-	1.0%	-	2.0%	4.4%	1.7%	2.8%		1.7%	0.8%	-
2	0.3%	-	0.1%	-	0.7%	-	3.9%	1.2%	0.9%	1.6%		0.8%	0.4%	-
3	0.7%	-	0.4%	-	1.4%	-	5.9%	3.4%	1.3%	3.3%		1.7%	1.2%	0.9%
4	1.1%	-	0.4%	-	2.3%	2.8%	1.9%	4.5%	2.6%	4.3%		2.4%	1.3%	1.9%
5	6.3%	-	3.8%	-	10.5%	-	19.4%	13.9%	17.1%	-		10.6%	9.2%	-
6	4.7%	-	3.3%	4.2%	7.1%	8.6%	4.9%	-	8.2%	-		6.6%	6.3%	-
7	13.3%	-	10.9%	-	17.5%	-	7.7%	17.2%	18.1%	-		13.1%	15.4%	-
8	25.7%	-	26.4%	-	24.3%	-	18.3%	23.5%	23.8%	-		22.6%	26.7%	-
9	14.9%	-	17.3%	-	10.8%	-	15.2%	7.8%	7.6%	-		11.6%	12.6%	-
10(best)	32.5%	-	37.2%	-	24.4%	18.2%	20.8%	-	18.7%	-		29.2%	26.1%	-

* = 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.