

**American Housing Survey - Selected Elements Related to Healthy Homes
Providence, RI in 2011 and 1998**

1998 is only reported if >=5% (relative) and 0.1% (absolute) different from

2011 (otherwise "-" is listed).

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998
Total Occupied Units(,000)	522	380	309	240	213	140	12	5	25	23	75	<1	92	123
GENERAL														
Owner occupied(,000)	309	240	309	240	.	.	3	2	7	6	24	.	38	62
Renter occupied(,000)	213	140	.	.	213	140	9	4	18	17	51	.	55	61
Owner occupied	59.2%	63.2%	100%	-	.	.	24.2%	31.8%	28.1%	-	32.1%	<0.1%	40.6%	50.1%
Renter occupied	40.8%	36.8%	.	.	100%	-	75.8%	68.2%	71.9%	-	67.9%	<0.1%	59.4%	49.9%
Units in Structure														
1, detached	54.6%	60.5%	83.0%	-	13.5%	17.7%	46.8%	37.9%	12.1%	14.4%	35.1%	0.1%	38.7%	45.6%
1, attached	3.5%	-	3.1%	-	4.1%	-	18.6%	3.5%	1.0%	-	3.6%	-	3.9%	-
2 to 4	24.9%	23.1%	9.8%	-	46.9%	-	23.6%	38.5%	55.6%	62.4%	27.0%	0.1%	34.2%	36.0%
5 to 9	6.0%	3.6%	1.4%	-	12.6%	9.0%	3.4%	-	4.8%	9.0%	8.7%	0.1%	7.0%	4.4%
10 to 19	3.0%	-	0.8%	-	6.2%	7.4%	4.0%	9.2%	10.9%	4.0%	2.8%	-	5.7%	3.0%
20 to 49	2.2%	-	0.2%	-	5.1%	4.4%	<0.1%	1.8%	3.6%	-	4.2%	-	3.9%	-
50 or more	4.7%	-	0.1%	-	11.4%	10.1%	3.6%	7.3%	11.0%	7.2%	17.8%	0.1%	6.0%	5.4%
Manufactured /mobile home or trailer	1.0%	-	1.5%	-	0.3%	-	<0.1%	-	0.9%	-	0.7%	-	0.6%	-
Year Structure Built														
Post-2000	3.5%	-	4.5%	-	2.1%	-	3.8%	-	0.6%	-	1.2%	-	2.6%	-
Post-1980	22.0%	18.7%	24.1%	22.6%	18.9%	12.0%	36.2%	9.9%	9.8%	12.6%	19.2%	0.1%	17.4%	9.0%
Pre-1980	78.0%	-	75.9%	-	81.1%	88.0%	63.8%	90.1%	90.2%	-	80.8%	0.1%	82.6%	91.0%
Pre-1960	51.2%	56.6%	48.7%	52.8%	55.0%	63.2%	35.6%	71.8%	64.4%	68.7%	51.3%	0.1%	62.3%	71.7%
Pre-1940	31.5%	35.2%	24.1%	27.1%	42.2%	49.2%	24.8%	52.6%	54.8%	-	37.3%	0.1%	44.2%	47.9%

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998
Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	304	241	266	209	38	31	8	2	3	4	29	<1	39	59
With a basement under all of house	79.4%	-	79.3%	-	80.2%	70.1%	79.6%	-	78.6%	62.8%	72.7%	0.1%	83.0%	-
With a basement under part of house	13.3%	9.2%	14.6%	9.6%	3.8%	7.2%	3.8%	9.0%	8.4%	19.7%	24.9%	0.1%	11.5%	6.3%
With a crawl space	2.1%	-	2.1%	-	2.4%	-	<0.1%	-	2.7%	-	1.2%	-	2.2%	-
On a concrete slab	4.1%	5.3%	3.1%	-	11.0%	12.1%	14.8%	4.0%	10.3%	8.4%	0.6%	-	2.4%	5.0%
In some other way	1.1%	-	0.9%	-	2.5%	5.8%	1.9%	9.5%	<0.1%	9.1%	0.7%	-	0.9%	-
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EXTERIOR														
External Building Conditions(non multiunit)														
Sagging roof	1.5%	-	1.5%	-	1.3%	-	<0.1%	11.2%	5.3%	12.6%	5.1%	0.1%	1.2%	-
Missing roofing material	2.3%	-	2.3%	-	2.1%	6.1%	1.9%	8.9%	7.1%	33.5%	2.0%	-	5.1%	4.8%
Hole in roof	0.5%	-	0.4%	-	1.2%	-	<0.1%	11.2%	6.7%	24.0%	0.7%	-	0.6%	-
Missing bricks, siding, other outside wall material	1.4%	-	1.2%	-	2.8%	-	1.8%	11.9%	7.0%	9.1%	1.2%	-	0.7%	-
Sloping outside walls	1.2%	-	0.8%	-	4.0%	-	16.6%	11.0%	5.1%	9.0%	0.3%	-	0.5%	-
Boarded up windows	0.5%	-	0.5%	-	1.0%	-	1.7%	-	2.2%	-	0.6%	-	<0.1%	2.4%
Broken windows	3.1%	-	3.2%	-	2.5%	9.0%	1.9%	-	6.3%	8.8%	2.5%	-	3.8%	5.3%
Bars on windows	0.5%	-	0.5%	-	0.4%	-	<0.1%	-	<0.1%	-	0.2%	-	1.1%	-
Foundation crumbling or has open crack or hole	4.8%	-	4.9%	-	4.0%	6.5%	3.3%	20.4%	16.3%	2.9%	4.1%	-	4.8%	-
None of the above	87.3%	-	87.2%	-	88.1%	76.3%	76.6%	66.5%	75.2%	51.1%	87.9%	0.1%	83.0%	-
None of the above(excluding bars)	87.7%	-	87.6%	-	88.1%	76.6%	76.6%	66.5%	75.2%	51.1%	88.1%	0.1%	84.1%	-

<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>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>
	Water Leakage During Last 12 Months													
With leakage from outside structure	12.6%	18.0%	15.5%	21.7%	8.4%	11.7%	7.2%	22.6%	15.4%	25.7%	9.0%	0.1%	10.4%	14.3%
Roof	5.7%	7.7%	7.4%	9.0%	3.3%	5.5%	4.0%	14.4%	6.0%	16.3%	3.6%	-	4.0%	7.6%
Basement leak	3.6%	10.0%	5.0%	13.8%	1.7%	-	0.6%	10.6%	3.5%	6.4%	1.1%	-	4.2%	6.0%
Walls, closed windows, or doors leak	3.0%	-	2.5%	-	3.6%	-	1.9%	8.7%	5.6%	10.8%	4.0%	-	3.4%	-
Other or Unknown exterior Leak	0.9%	-	1.2%	-	0.3%	-	0.7%	-	1.0%	-	0.4%	-	0.6%	-
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INTERIOR														
Damage														
Holes in floors	0.6%	-	0.3%	-	1.0%	-	2.3%	5.9%	1.5%	7.8%	1.9%	-	0.9%	-
Open cracks or holes	5.0%	5.8%	3.3%	-	7.4%	8.1%	14.3%	15.4%	8.2%	29.3%	6.8%	0.1%	6.2%	-
Broken plaster or peeling paint	1.8%	-	0.8%	-	3.3%	6.7%	1.7%	13.0%	7.3%	23.3%	1.7%	-	4.2%	5.3%
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Water Leakage During Last 12 Months														
With leakage from inside structure	5.8%	9.2%	4.8%	7.5%	7.3%	12.3%	6.0%	21.4%	13.8%	24.2%	6.3%	0.1%	4.7%	10.8%
Fixtures backed up or overflowed	1.1%	-	0.7%	-	1.7%	-	1.8%	-	2.5%	5.1%	3.6%	-	1.6%	-
Pipes leaked	3.0%	-	2.2%	-	4.1%	7.4%	4.2%	18.0%	8.0%	17.8%	1.9%	-	1.5%	5.5%
Broken water heater	0.5%	-	0.7%	-	0.3%	-	<0.1%	2.3%	0.7%	-	0.1%	-	0.6%	-
Other or Unknown	1.3%	-	1.2%	-	1.5%	-	<0.1%	2.5%	3.5%	5.9%	1.1%	-	1.1%	-
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Rodents														
Signs of rats in last 3 mon.	0.8%	-	0.1%	-	1.8%	-	0.6%	-	5.5%	1.5%	2.0%	-	4.1%	-

<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>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>	<i>2011</i>	<i>1998</i>
Signs of mice in last 3 mon.	12.1%	3.4%	15.9%	3.8%	6.5%	2.8%	7.3%	7.8%	20.2%	4.8%	10.0%	0.1%	11.0%	3.4%
Signs of rodents, not sure which kind in last 3 mon.	0.2%	-	0.2%	-	0.2%	-	<0.1%	-	<0.1%	-	0.2%	-	0.5%	-
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Electrical														
No electrical wiring	2.1%	-	<0.1%	-	5.0%	<0.1%	35.7%	<0.1%	5.0%	<0.1%	5.7%	0.1%	11.4%	<0.1%
Exposed wiring	1.1%	-	0.4%	-	2.0%	-	2.3%	5.8%	2.1%	-	1.3%	-	3.6%	-
Rooms without electric outlets	2.8%	-	0.2%	-	6.6%	3.3%	36.8%	5.9%	6.0%	4.9%	6.1%	0.1%	13.6%	2.7%
Fuses/breakers blown in last 3 mon.	10.9%	32.8%	11.1%	37.5%	10.6%	24.8%	4.4%	33.0%	14.0%	32.4%	7.0%	0.1%	9.2%	28.8%
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Sanitation														
Lacking complete kitchen facilities	4.2%	-	1.5%	-	8.1%	9.0%	12.2%	7.2%	83.6%	70.0%	3.8%	-	6.7%	7.5%
Lacking some or all plumbing facilities	1.3%	-	0.7%	-	2.2%	-	57.5%	67.4%	<0.1%	0.4%	3.4%	-	4.0%	-
Water not safe to drink	8.9%	15.4%	6.5%	12.8%	12.3%	19.9%	6.2%	20.7%	5.8%	27.6%	10.0%	0.1%	11.3%	21.1%
Water stoppage in last 3 mon.	6.7%	3.6%	7.7%	3.0%	5.4%	4.8%	4.4%	5.7%	9.3%	4.4%	8.1%	0.1%	4.8%	-
No flush toilets working some time in last 3 mon.	2.4%	-	1.6%	-	3.5%	-	13.9%	3.4%	9.6%	7.2%	1.1%	-	2.7%	-
With sewage disposal breakdowns in last 3 mon.	0.9%	-	0.3%	-	1.7%	-	11.4%	1.8%	1.4%	-	0.6%	-	1.5%	-
Septic tank, cesspool, chemical toilet	23.6%	29.1%	33.8%	39.5%	8.9%	11.2%	7.0%	17.5%	8.0%	6.4%	12.7%	0.1%	4.4%	15.5%
With septic tank or cesspool breakdowns in last 3 mon.	0.1%	-	0.1%	-	0.1%	-	<0.1%	1.8%	0.5%	-	<0.1%	-	<0.1%	0.3%
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HEATING/FUEL														
Main Heating Equipment														
Warm-air furnace	27.9%	30.6%	26.8%	29.7%	29.5%	32.0%	36.7%	-	22.4%	34.7%	30.9%	0.1%	28.6%	30.2%

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998
Steam or hot water system	61.3%	-	64.3%	-	57.1%	-	50.6%	60.0%	61.2%	55.3%	50.4%	0.1%	61.2%	65.1%
Electric heat pump	0.2%	-	0.2%	-	0.2%	-	<0.1%	-	0.4%	-	<0.1%	-	0.2%	-
Built-in electric units	4.4%	-	3.3%	-	6.1%	4.1%	0.5%	-	4.8%	-	5.7%	0.1%	2.1%	-
Floor, wall, or other built-in hot air without ducts	3.1%	-	4.1%	-	1.6%	-	0.5%	-	7.7%	0.1%	9.6%	0.1%	2.9%	-
Room heaters with flue	1.4%	-	0.4%	-	3.0%	-	8.5%	2.1%	1.3%	-	2.3%	-	1.6%	-
Room heaters without flue	0.1%	-	<0.1%	-	0.2%	-	<0.1%	-	1.9%	-	0.1%	-	0.1%	-
Portable electric heaters	0.5%	-	0.1%	-	1.2%	-	2.5%	-	<0.1%	-	<0.1%	-	2.5%	-
Stoves	0.3%	-	0.5%	-	<0.1%	-	0.7%	-	<0.1%	0.9%	<0.1%	-	0.3%	-
Fireplace without inserts	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Other	0.4%	-	0.3%	-	0.5%	-	<0.1%	-	0.3%	-	0.4%	-	0.3%	-
Cooking stove	0.2%	-	0.1%	-	0.4%	-	<0.1%	-	<0.1%	1.8%	0.4%	-	0.2%	-
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Water Heating Fuel														
Electricity	16.5%	14.6%	15.2%	13.5%	18.4%	16.7%	17.3%	7.5%	9.8%	12.1%	22.1%	0.1%	13.5%	10.3%
Gas, LP/bottled gas	56.3%	-	50.4%	-	64.8%	-	66.4%	71.1%	59.1%	71.1%	66.9%	0.1%	75.9%	-
Fuel oil	26.8%	29.9%	33.7%	37.2%	16.7%	-	16.3%	19.4%	26.9%	16.8%	10.8%	0.1%	9.3%	15.1%
Kerosene or other liquid fuel	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Other	0.4%	-	0.6%	-	0.1%	-	<0.1%	2.0%	4.2%	-	0.1%	-	1.3%	-
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Clothes Dryer(,000)	344	258	279	210	65	48	6	3	8	8	31	<1	46	68
Have Clothes Dryer	65.9%	-	90.4%	-	30.4%	34.7%	54.3%	45.4%	32.0%	35.3%	40.6%	0.1%	49.6%	55.4%
Electricity	79.1%	-	78.8%	-	80.4%	-	56.0%	87.5%	92.5%	68.8%	79.8%	0.1%	70.6%	66.9%
Gas, LP gas (liquid propane)	20.9%	24.5%	21.2%	25.0%	19.6%	22.0%	44.0%	12.5%	7.5%	31.2%	20.2%	0.1%	29.4%	33.1%
Other	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
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Heating Problems														

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998
	Uncomfortably cold for 24 hours or more last winter	7.6%	6.2%	5.8%	4.1%	10.5%	-	38.1%	41.1%	12.0%	15.7%	10.9%	0.1%	11.3%
Heating equipment breakdowns	2.1%	-	1.1%	-	3.6%	-	33.8%	28.6%	1.5%	5.1%	3.4%	-	1.6%	-
Other causes	5.0%	-	4.7%	-	5.4%	-	14.6%	9.6%	9.5%	7.1%	4.8%	-	8.5%	3.4%
Utility interruption	0.5%	-	0.4%	-	0.6%	-	1.1%	-	1.2%	-	0.4%	-	0.5%	-
Inadequate heating capacity	1.0%	-	0.8%	-	1.3%	-	1.2%	-	6.0%	2.3%	0.9%	-	2.6%	-
Inadequate insulation	0.7%	-	0.4%	-	1.2%	-	<0.1%	2.2%	1.0%	-	1.8%	-	2.5%	-
Cost of heating	2.2%	-	3.2%	-	0.8%	-	<0.1%	6.2%	6.5%	0.5%	1.2%	-	1.8%	-
Other	1.1%	-	0.5%	-	2.1%	-	13.5%	2.1%	0.3%	-	1.1%	-	2.1%	-
SELECTED PHYSICAL PROBLEMS														
Severe Physical Problems(,000)	12	5	3	2	9	4	12	5	.	.	3	.	5	3
Severe physical problems	2.3%	-	0.9%	-	4.2%	-	100%	-	.	.	4.0%	<0.1%	5.6%	2.3%
Plumbing	1.3%	-	0.7%	-	2.2%	-	57.5%	67.4%	.	.	3.4%	<0.1%	4.0%	-
Heating	0.8%	-	0.2%	-	1.5%	-	33.2%	28.6%	.	.	0.6%	<0.1%	0.4%	-
Electric	0.2%	-	<0.1%	-	0.5%	-	9.3%	7.7%	.	.	<0.1%	<0.1%	1.2%	-
Hallways	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	.	.	<0.1%	<0.1%	<0.1%	-
Upkeep	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	1.8%	.	.	<0.1%	<0.1%	<0.1%	-
Moderate Physical Problems(,000)	25	23	7	6	18	17	.	.	25	23	3	.	6	12
Moderate physical problems	4.7%	6.1%	2.2%	-	8.3%	12.0%	.	.	100%	-	3.5%	<0.1%	6.1%	9.5%
Plumbing	0.4%	-	0.4%	-	0.2%	-	.	.	7.6%	2.3%	0.2%	<0.1%	0.2%	-
Heating	0.1%	-	<0.1%	-	0.2%	-	.	.	1.9%	-	0.1%	<0.1%	0.1%	-
Upkeep	3.9%	-	1.5%	-	7.5%	8.8%	.	.	83.6%	70.0%	2.3%	<0.1%	5.4%	7.3%
Hallways	<0.1%	0.2%	<0.1%	-	<0.1%	0.5%	.	.	<0.1%	3.1%	<0.1%	<0.1%	<0.1%	0.2%
Kitchen	0.4%	-	0.3%	-	0.6%	-	.	.	8.5%	28.2%	1.0%	<0.1%	0.5%	-

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998	2011	1998
OVERALL OPINION OF STRUCTURE														
1(worst)	0.6%	-	0.4%	-	0.9%	-	<0.1%	2.0%	1.4%	-	2.1%	-	1.5%	-
2	0.4%	-	0.2%	-	0.7%	-	<0.1%	3.9%	0.6%	-	1.8%	-	0.4%	-
3	0.5%	-	0.2%	-	0.9%	-	0.6%	5.9%	0.7%	-	0.3%	-	0.6%	-
4	0.6%	-	0.3%	-	1.2%	-	<0.1%	1.9%	1.0%	-	1.9%	-	2.1%	-
5	4.4%	6.3%	3.1%	-	6.3%	10.5%	6.7%	19.4%	8.2%	17.1%	6.9%	0.1%	4.7%	9.2%
6	5.2%	4.7%	3.2%	-	8.2%	7.1%	19.1%	4.9%	1.5%	8.2%	7.5%	0.1%	8.6%	6.3%
7	13.0%	-	11.3%	-	15.3%	17.5%	17.8%	7.7%	17.7%	-	10.2%	0.1%	15.8%	-
8	27.7%	25.7%	27.3%	-	28.3%	24.3%	30.6%	18.3%	35.5%	23.8%	18.6%	0.1%	27.6%	-
9	16.9%	14.9%	19.0%	17.3%	13.9%	10.8%	6.8%	15.2%	10.9%	7.6%	25.1%	0.1%	15.3%	12.6%
10(best)	30.6%	32.5%	35.0%	37.2%	24.3%	-	18.4%	20.8%	22.4%	18.7%	25.7%	0.1%	23.4%	26.1%

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