

**American Housing Survey - Selected Elements Related to Health Homes  
1998 Norfolk/Newport News, VA 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)	564	102,803	354	68,796	210	34,007	9	2,053	22	4,826		13,955	83	31,131
<b>GENERAL</b>														
Owner occupied(,000)	354	68,796	354	68,796	.	.	3	869	8	2,056		6,083	40	15,512
Renter occupied(,000)	210	34,007	.	.	210	34,007	6	1,184	14	2,769		7,872	43	15,619
Owner occupied	62.7%	-	100%	-	<0.1%	<0.1%	36.3%	-	34.6%	42.6%		43.6%	48.0%	-
Renter occupied	37.3%	-	<0.1%	<0.1%	100%	-	63.7%	-	65.4%	-		56.4%	52.0%	-
<hr/>														
<b>Units in Structure</b>														
1, detached	63.0%	-	84.3%	-	27.2%	-	45.6%	-	39.6%	48.4%		44.7%	52.8%	-
1, attached	12.9%	6.8%	7.3%	5.1%	22.2%	10.2%	9.7%	5.4%	9.7%	4.4%		7.7%	6.6%	9.5%
2 to 4	6.9%	8.3%	2.0%	-	15.2%	20.9%	10.0%	13.1%	20.7%	15.1%		13.1%	13.5%	-
5 to 9	6.4%	4.7%	0.9%	0.7%	15.6%	-	9.4%	-	11.6%	7.1%		7.4%	11.9%	7.6%
10 to 19	4.4%	-	0.8%	0.5%	10.6%	-	10.1%	6.5%	6.4%	-		6.2%	8.8%	6.8%
20 to 49	2.8%	-	0.4%	-	6.9%	8.8%	3.2%	8.2%	10.3%	6.3%		5.2%	5.3%	-
50 or more	<0.1%	3.2%	<0.1%	-	<0.1%	8.2%	<0.1%	7.8%	<0.1%	4.6%		6.0%	<0.1%	7.0%
Manufactured /mobile home or trailer	3.5%	6.6%	4.2%	8.2%	2.3%	3.3%	11.8%	4.6%	1.6%	7.4%		9.7%	1.1%	-
<hr/>														
<b>Year Structure Built</b>														
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	38.8%	27.9%	42.0%	30.3%	33.6%	23.1%	22.9%	13.0%	22.0%	15.1%		21.1%	16.2%	-
Pre-1980	61.2%	-	58.0%	69.7%	66.4%	-	77.1%	-	78.0%	-		78.9%	83.8%	-
Pre-1960	26.5%	38.2%	24.8%	36.6%	29.4%	41.3%	41.0%	57.6%	46.9%	-		43.9%	60.6%	-
Pre-1940	6.3%	19.0%	5.8%	16.8%	7.1%	23.5%	9.8%	32.9%	16.6%	31.9%		22.8%	18.2%	27.8%

\* = 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/](http://www.healthyhometraining.org/ahs/) for more info.

**American Housing Survey - Selected Elements Related to Health Homes  
1998 Norfolk/Newport News, VA 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
Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	428	71,499	324	59,969	104	11,530	5	1,036	11	2,545	7,306	49	17,963	
With a basement under all of house	1.6%	33.2%	1.8%	35.4%	1.0%	21.4%	3.0%	30.5%	2.6%	14.6%	26.2%	2.7%	33.3%	
With a basement under part of house	1.5%	11.5%	1.5%	12.2%	1.5%	7.9%	<0.1%	11.0%	3.8%	9.3%	8.4%	2.3%	8.2%	
With a crawl space	57.3%	25.8%	64.4%	24.8%	34.9%	-	50.2%	33.1%	55.2%	-	33.3%	74.3%	24.2%	
On a concrete slab	39.2%	28.7%	31.8%	-	62.0%	38.3%	46.8%	24.1%	38.3%	21.2%	30.7%	20.7%	33.4%	
In some other way	0.5%	0.9%	0.5%	0.8%	0.6%	1.5%	<0.1%	1.5%	<0.1%	2.0%	1.4%	<0.1%	0.8%	
<hr/>														
<b>EXTERIOR</b>														
<b>External Building Conditions</b>														
Sagging roof	2.2%	-	2.2%	-	2.2%	3.2%	11.2%	6.9%	7.1%	9.1%	3.7%	2.3%	-	
Missing roofing material	4.7%	-	4.3%	3.3%	5.3%	-	10.4%	-	13.7%	10.7%	5.5%	7.0%	4.4%	
Hole in roof	1.9%	-	1.6%	-	2.5%	-	6.0%	-	8.8%	-	3.5%	3.1%	2.3%	
Missing bricks, siding, other outside wall material	3.5%	2.5%	2.7%	1.9%	4.8%	3.8%	10.8%	-	16.4%	10.2%	4.1%	5.7%	3.0%	
Sloping outside walls	1.7%	-	1.4%	-	2.1%	-	7.5%	-	6.7%	-	2.9%	2.5%	1.8%	
Boarded up windows	0.8%	-	0.5%	-	1.4%	1.8%	4.8%	-	3.4%	4.7%	2.2%	1.6%	-	
Broken windows	4.7%	-	3.8%	-	6.3%	-	25.4%	12.0%	13.1%	-	7.2%	5.9%	-	
Bars on windows	1.1%	4.8%	1.0%	3.6%	1.2%	7.3%	3.5%	8.6%	1.9%	8.6%	7.5%	2.5%	11.4%	
Foundation crumbling or has open crack or hole	2.3%	2.9%	1.7%	2.4%	3.2%	-	13.9%	9.1%	8.0%	10.2%	3.9%	3.3%	-	
None of the above	82.9%	-	85.5%	-	78.5%	-	52.5%	-	62.2%	-	70.6%	77.2%	-	

\* = 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/](http://www.healthyhometraining.org/ahs/) for more info.

**American Housing Survey - Selected Elements Related to Health Homes  
1998 Norfolk/Newport News, VA 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
<b>Water Leakage During Last 12 Months</b>														
With leakage from outside structure	15.1%	-	15.9%	-	13.7%	10.4%	27.8%	19.8%	44.1%	30.5%		11.0%	18.0%	12.5%
Roof	9.2%	6.4%	10.6%	6.8%	6.9%	-	21.3%	11.1%	28.7%	21.0%		6.9%	10.9%	6.8%
Basement	0.7%	4.2%	0.7%	5.3%	0.6%	1.9%	<0.1%	4.4%	6.4%	-		2.2%	2.1%	3.7%
Walls, closed windows, or doors	5.4%	2.7%	5.2%	2.5%	5.7%	3.3%	14.7%	8.1%	22.2%	10.0%		3.0%	7.1%	3.0%
Other or Unknown	1.9%	1.3%	2.1%	1.3%	1.7%	1.3%	<0.1%	3.7%	6.6%	4.6%		1.1%	1.5%	-
<hr/>														
<b>INTERIOR</b>														
<b>Damage</b>														
Holes in floors	0.8%	1.2%	0.5%	-	1.4%	2.0%	5.8%	7.6%	6.0%	9.7%		2.9%	1.7%	-
Open cracks or holes	6.7%	-	5.2%	4.0%	9.2%	-	24.1%	18.5%	39.5%	-		9.1%	10.3%	7.7%
Broken plaster or peeling paint	3.0%	-	1.9%	-	4.9%	-	14.6%	11.5%	23.9%	-		4.6%	6.2%	4.1%
<hr/>														
<b>Water Leakage During Last 12 Months</b>														
With leakage from inside structure	12.9%	9.5%	9.7%	-	18.4%	12.7%	19.2%	-	47.5%	27.2%		11.2%	20.3%	11.5%
Fixtures backed up or overflowed	5.0%	3.4%	3.9%	2.9%	7.1%	4.4%	11.7%	8.5%	27.0%	11.5%		4.3%	9.0%	4.0%
Pipes leaked	4.8%	-	3.0%	-	7.9%	-	13.4%	-	29.1%	16.4%		5.9%	9.2%	5.8%
Broken water heater	2.3%	0.9%	1.9%	0.9%	2.9%	0.9%	4.9%	1.8%	14.3%	2.6%		0.9%	3.7%	1.0%
Other or Unknown	2.8%	2.1%	2.1%	-	4.1%	2.6%	1.9%	4.6%	8.7%	6.4%		2.0%	3.6%	2.7%

\* = 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/](http://www.healthyhometraining.org/ahs/) for more info.

**American Housing Survey - Selected Elements Related to Health Homes  
1998 Norfolk/Newport News, VA 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
<b>Rodents</b>														
Signs of rats in last 3 mon.	0.3%	0.9%	0.3%	0.6%	0.1%	1.5%	1.7%	5.5%	1.4%	5.1%		2.0%	0.9%	1.6%
Signs of mice in last 3 mon.	5.8%	7.0%	5.7%	-	5.8%	8.3%	8.1%	15.0%	9.2%	16.7%		10.3%	5.4%	7.8%
Signs of rodents, not sure which kind in last 3 mon.	0.4%	-	<0.1%	0.3%	1.1%	0.7%	<0.1%	1.3%	1.5%	-		0.7%	0.2%	0.6%
<b>Electrical</b>														
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%	-	3.1%	2.4%	2.6%	1.6%		0.9%	1.2%	0.7%
Rooms without electric outlets	1.9%	-	1.3%	-	2.8%	-	4.7%	5.7%	3.8%	-		2.6%	2.5%	1.8%
Fuses/breakers blown in last 3 mon.	33.4%	11.3%	39.9%	11.3%	22.6%	11.3%	45.3%	18.6%	42.6%	15.8%		10.1%	35.2%	11.7%
<b>Sanitation</b>														
Lacking complete kitchen facilities	1.5%	-	0.7%	-	2.9%	4.0%	1.6%	11.3%	37.2%	-		3.6%	2.9%	-
Lacking some or all plumbing facilities	1.4%	-	1.1%	-	1.8%	2.3%	49.9%	69.9%	<0.1%	0.0%		2.8%	1.2%	1.9%
Water not safe to drink	12.5%	9.9%	12.3%	7.7%	12.7%	-	29.9%	18.7%	15.8%	-		12.2%	10.7%	13.2%
Water stoppage in last 3 mon.	4.5%	-	4.4%	-	4.7%	-	8.9%	-	7.0%	-		5.2%	3.8%	-
No flush toilets working some time in last 3 mon.	3.8%	2.8%	2.4%	1.7%	6.1%	-	8.8%	-	23.1%	10.4%		4.7%	6.5%	3.9%
With sewage disposal breakdowns in last 3 mon.	2.4%	1.8%	2.3%	1.6%	2.6%	-	3.3%	4.1%	11.2%	4.9%		2.2%	3.9%	2.3%
Septic tank, cesspool, chemical toilet	10.2%	22.4%	13.8%	29.3%	4.2%	8.3%	9.3%	14.8%	9.0%	21.2%		18.4%	0.3%	1.3%
With septic tank or cesspool breakdowns in last 3 mon.	0.3%	-	0.3%	-	0.2%	-	<0.1%	0.4%	1.9%	0.8%		0.3%	0.2%	-

\* = 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/](http://www.healthyhometraining.org/ahs/) for more info.

**American Housing Survey - Selected Elements Related to Health Homes  
1998 Norfolk/Newport News, VA 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
<b>HEATING/FUEL</b>														
<b>Main Heating Equipment</b>														
Warm-air furnace	57.3%	-	59.6%	-	53.6%	-	55.9%	-	42.2%	32.9%	52.8%	55.2%	-	
Steam or hot water system	6.3%	12.8%	6.1%	11.0%	6.6%	16.4%	10.2%	23.3%	11.6%	-	12.3%	17.3%	-	
Electric heat pump	28.1%	10.7%	26.9%	11.4%	30.1%	9.4%	18.0%	4.3%	21.2%	3.8%	8.5%	13.8%	8.8%	
Built-in electric units	4.8%	-	4.1%	-	5.9%	7.8%	3.2%	4.1%	6.2%	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%	3.1%	8.3%	3.3%	5.3%	8.4%	2.9%	6.7%	
Room heaters with flue	1.0%	1.6%	0.9%	1.4%	1.2%	2.0%	9.6%	3.0%	1.2%	1.6%	3.3%	0.8%	1.2%	
Room heaters without flue	0.5%	1.7%	0.5%	1.5%	0.4%	2.1%	<0.1%	3.0%	11.6%	35.8%	4.0%	0.8%	1.8%	
Portable electric heaters	0.2%	0.7%	0.1%	0.5%	0.3%	1.0%	<0.1%	1.3%	1.4%	1.0%	1.4%	0.5%	0.8%	
Stoves	0.3%	1.1%	0.4%	1.3%	0.2%	0.6%	<0.1%	4.0%	<0.1%	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%	0.2%	-	
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%	0.6%	-	0.4%	0.3%	-	
No heating equipment	0.1%	0.5%	0.1%	-	<0.1%	1.0%	<0.1%	1.7%	0.7%	1.4%	0.9%	<0.1%	0.9%	
Cooking stove	0.1%	-	<0.1%	-	0.1%	-	<0.1%	0.7%	<0.1%	0.1%	0.2%	<0.1%	0.2%	
<b>Water Heating Fuel</b>														
Electricity	63.4%	39.3%	61.3%	38.2%	66.9%	41.6%	65.1%	33.4%	63.8%	36.7%	41.9%	50.1%	29.6%	
Gas, LP/bottled gas	33.5%	54.9%	35.3%	56.6%	30.4%	51.6%	31.4%	55.4%	29.8%	58.2%	52.9%	43.1%	63.7%	
Fuel oil	2.5%	5.4%	2.9%	4.9%	2.0%	6.4%	3.4%	11.0%	5.8%	4.6%	4.7%	5.6%	-	
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%	<0.1%	
Other	0.5%	-	0.5%	-	0.7%	0.4%	<0.1%	0.2%	0.6%	-	0.4%	1.2%	0.3%	

\* = 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/](http://www.healthyhometraining.org/ahs/) for more info.

**American Housing Survey - Selected Elements Related to Health Homes  
1998 Norfolk/Newport News, VA 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
Clothes Dryer Fuel(,000)	423	76,454	319	62,738	104	13,716	4	903	11	2,436		7,217	47	18,170
Electricity	96.2%	76.1%	95.6%	74.6%	97.8%	-	96.6%	71.6%	100%	-		80.2%	96.3%	70.9%
Gas, LP gas (liquid propane)	3.8%	23.8%	4.3%	25.4%	2.2%	16.9%	3.4%	28.4%	<0.1%	17.5%		19.8%	3.7%	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%
<hr/>														
<b>Heating Problems</b>														
Uncomfortably cold for 24 hours or more last winter	8.9%	7.1%	8.2%	5.6%	10.4%	-	59.4%	35.9%	18.4%	-		11.2%	11.0%	8.8%
Heating equipment breakdowns	2.9%	2.1%	2.5%	1.5%	3.6%	-	48.9%	25.3%	2.5%	3.2%		3.3%	4.3%	3.2%
Other causes	4.8%	-	4.9%	3.7%	4.7%	-	9.3%	-	12.9%	-		6.2%	5.1%	-
Utility interruption	1.7%	-	2.3%	1.8%	0.8%	-	<0.1%	1.5%	3.0%	1.1%		1.1%	2.0%	0.7%
Inadequate heating capacity	1.2%	-	0.8%	-	1.9%	-	3.5%	4.3%	4.9%	-		2.4%	1.6%	-
Inadequate insulation	1.0%	-	0.7%	-	1.6%	-	5.2%	2.7%	3.5%	-		1.7%	1.2%	-
Cost of heating	0.5%	-	0.4%	-	0.7%	-	1.8%	0.9%	1.5%	-		0.8%	0.5%	-
Other	1.0%	-	1.1%	0.8%	0.8%	1.5%	3.1%	-	2.9%	-		1.9%	0.5%	1.3%
<hr/>														
<b>SELECTED PHYSICAL PROBLEMS</b>														
Severe Physical Problems(,000)	9	2,053	3	869	6	1,184	9	2,053	.	.		598	2	963
Severe physical problems	1.5%	2.0%	0.9%	1.3%	2.6%	3.5%	100%	-	.	.		4.3%	1.8%	3.1%
Plumbing	0.8%	1.4%	0.4%	1.0%	1.4%	2.3%	49.9%	69.9%	.	.		2.8%	0.7%	1.9%
Heating	0.7%	-	0.5%	0.2%	1.0%	-	45.6%	23.9%	.	.		1.1%	1.2%	-
Electric	0.1%	-	<0.1%	-	0.1%	-	4.6%	-	.	.		0.3%	<0.1%	0.1%
Hallways	<0.1%	-	<0.1%	0.0%	<0.1%	-	<0.1%	0.3%	.	.		0.0%	<0.1%	-
Upkeep	0.1%	-	<0.1%	-	0.1%	-	3.3%	4.4%	.	.		0.4%	0.2%	-

\* = 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/](http://www.healthyhometraining.org/ahs/) for more info.

**American Housing Survey - Selected Elements Related to Health Homes  
1998 Norfolk/Newport News, VA 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
Moderate Physical Problems(,000)	22	4,826	8	2,056	14	2,769	.	.	22	4,826		1,306	7	1,967
Moderate physical problems	3.9%	-	2.2%	3.0%	6.9%	-	.	.	100%	-		9.4%	8.7%	6.3%
Plumbing	0.4%	-	0.3%	-	0.7%	0.4%	.	.	11.0%	4.5%		0.5%	1.1%	0.3%
Heating	0.5%	1.7%	0.5%	1.5%	0.4%	2.0%	.	.	11.6%	35.8%		3.8%	0.8%	1.7%
Upkeep	1.5%	-	0.6%	-	2.9%	3.5%	.	.	37.2%	-		2.8%	2.9%	-
Hallways	0.1%	-	<0.1%	-	0.3%	-	.	.	2.6%	-		0.2%	0.5%	0.3%
Kitchen	1.6%	-	0.8%	-	2.8%	-	.	.	40.1%	30.6%		2.8%	3.6%	2.2%
<hr/>														
<b>OVERALL OPINION OF STRUCTURE</b>														
1(worst)	0.7%	-	0.3%	-	1.2%	-	6.8%	4.4%	4.0%	2.8%		1.7%	0.9%	-
2	0.1%	-	<0.1%	0.2%	0.4%	0.7%	<0.1%	1.2%	2.1%	1.6%		0.8%	0.2%	0.5%
3	0.8%	-	0.4%	-	1.5%	-	3.5%	-	2.0%	3.3%		1.7%	1.3%	0.9%
4	1.5%	-	0.7%	-	2.8%	-	5.1%	-	4.8%	-		2.4%	3.0%	1.9%
5	7.6%	-	4.4%	-	12.9%	-	20.7%	13.9%	20.7%	14.7%		10.6%	11.4%	8.1%
6	6.9%	-	4.9%	-	10.3%	-	8.5%	5.8%	12.2%	8.7%		6.6%	6.4%	-
7	14.7%	-	12.4%	-	18.4%	-	14.3%	17.2%	16.0%	-		13.1%	15.5%	-
8	27.6%	-	28.0%	-	26.8%	-	13.8%	23.5%	17.0%	21.5%		22.6%	27.9%	-
9	13.3%	-	15.1%	-	10.1%	-	5.1%	7.8%	5.3%	8.9%		11.6%	8.9%	13.4%
10(best)	26.9%	-	33.6%	-	15.6%	-	22.2%	-	16.0%	-		29.2%	24.5%	-

\* = 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/](http://www.healthyhometraining.org/ahs/) for more info.