

**American Housing Survey - Selected Elements Related to Healthy Homes**  
**Norfolk-Virginia Beach (Newport News-... 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)	628	564	381	354	247	210	10	9	23	22	61	<1	92	83
GENERAL														
Owner occupied(,000)	381	354	381	354	.	.	3	3	3	8	22	.	38	40
Renter occupied(,000)	247	210	.	.	247	210	7	6	20	14	39	.	54	43
Owner occupied	60.7%	-	100%	-	.	.	29.7%	36.3%	14.5%	34.6%	36.0%	<0.1%	41.8%	48.0%
Renter occupied	39.3%	37.3%	.	.	100%	-	70.3%	63.7%	85.5%	65.4%	64.0%	<0.1%	58.2%	52.0%
Units in Structure														
1, detached	63.6%	-	84.2%	-	31.8%	27.2%	35.6%	45.6%	34.4%	39.6%	43.0%	0.1%	50.2%	52.8%
1, attached	12.3%	-	11.3%	7.3%	13.8%	22.2%	7.7%	9.7%	6.3%	9.7%	19.8%	0.1%	7.6%	6.6%
2 to 4	6.2%	6.9%	0.4%	-	15.2%	-	5.7%	10.0%	13.7%	20.7%	11.8%	0.1%	11.9%	13.5%
5 to 9	6.7%	-	0.8%	-	15.7%	-	20.2%	9.4%	24.1%	11.6%	7.3%	0.1%	12.6%	11.9%
10 to 19	4.4%	-	0.6%	-	10.3%	-	2.2%	10.1%	9.9%	6.4%	8.9%	0.1%	9.5%	8.8%
20 to 49	1.2%	-	<0.1%	-	3.1%	6.9%	1.0%	-	1.3%	10.3%	0.4%	-	1.3%	5.3%
Manufactured /mobile home or trailer	2.1%	-	2.2%	-	2.0%	-	23.0%	11.8%	1.8%	-	3.7%	-	0.2%	-
Year Structure Built														
Post-2000	9.6%	<0.1%	12.1%	<0.1%	5.7%	<0.1%	<0.1%	-	1.3%	-	2.7%	-	2.4%	-
Post-1980	46.2%	38.8%	48.5%	42.0%	42.5%	33.6%	14.3%	22.9%	26.1%	22.0%	35.7%	0.1%	22.6%	16.2%
Pre-1980	53.8%	61.2%	51.5%	58.0%	57.5%	66.4%	85.7%	77.1%	73.9%	78.0%	64.3%	0.1%	77.4%	83.8%
Pre-1960	26.0%	-	24.9%	-	27.7%	29.4%	27.1%	41.0%	42.5%	46.9%	30.7%	0.1%	51.8%	60.6%
Pre-1940	8.3%	6.3%	6.3%	5.8%	11.5%	7.1%	6.3%	9.8%	17.8%	16.6%	10.8%	0.1%	17.4%	-

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)	477	428	364	324	113	104	4	5	10	11	38	<1	53	49
With a basement under all of house	0.5%	-	0.5%	-	0.4%	-	2.3%	-	0.9%	-	0.9%	-	0.9%	-
With a basement under part of house	2.1%	-	1.8%	-	2.7%	-	5.9%	0.1%	15.2%	3.8%	0.2%	-	5.9%	2.3%
With a crawl space	58.6%	-	59.9%	64.4%	54.4%	34.9%	45.6%	50.2%	59.4%	55.2%	55.9%	0.1%	71.9%	-
On a concrete slab	37.9%	-	36.6%	31.8%	42.0%	62.0%	43.5%	46.8%	21.4%	38.3%	42.2%	0.1%	21.3%	-
In some other way	1.0%	-	1.1%	-	0.4%	-	2.7%	-	3.1%	-	0.8%	-	<0.1%	-
<hr/>														
<b>EXTERIOR</b>														
External Building Conditions(non multiunit)														
Sagging roof	1.9%	-	1.1%	-	4.5%	-	1.7%	13.8%	18.0%	10.0%	8.6%	0.1%	3.2%	-
Missing roofing material	4.7%	-	4.7%	-	4.7%	6.0%	2.9%	15.1%	37.8%	17.3%	13.9%	0.1%	4.1%	7.2%
Hole in roof	1.4%	-	0.7%	-	3.4%	-	<0.1%	8.8%	24.3%	11.7%	5.2%	0.1%	1.2%	-
Missing bricks, siding, other outside wall material	2.4%	-	2.0%	-	3.7%	5.4%	6.5%	13.8%	16.1%	18.0%	5.2%	0.1%	4.4%	5.4%
Sloping outside walls	0.9%	-	0.3%	-	2.8%	-	1.8%	11.2%	16.4%	9.2%	4.1%	-	2.9%	-
Boarded up windows	0.2%	-	0.1%	-	0.3%	-	<0.1%	2.2%	<0.1%	2.8%	0.9%	-	0.6%	-
Broken windows	3.2%	-	2.7%	-	4.6%	7.0%	7.9%	25.7%	19.3%	12.9%	5.3%	0.1%	7.2%	4.1%
Bars on windows	1.1%	-	1.0%	-	1.5%	-	<0.1%	2.6%	13.6%	2.5%	11.6%	0.1%	3.3%	-
Foundation crumbling or has open crack or hole	3.7%	-	2.8%	-	6.5%	3.3%	9.0%	11.0%	5.1%	7.8%	7.1%	0.1%	4.7%	-
None of the above	85.3%	-	87.6%	-	78.1%	-	77.7%	51.2%	52.9%	-	63.1%	0.1%	73.5%	80.1%
None of the above(excluding bars)	86.1%	-	88.2%	-	79.5%	-	77.7%	51.2%	52.9%	-	71.2%	0.1%	76.5%	82.1%

<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	13.0%	15.1%	14.4%	15.9%	10.9%	13.7%	14.2%	27.8%	34.4%	44.1%	13.7%	0.1%	15.2%	18.0%
Roof	10.0%	9.2%	12.0%	10.6%	7.0%	-	10.1%	21.3%	22.1%	28.7%	8.3%	0.1%	9.8%	10.9%
Basement leak	0.1%	-	0.1%	-	0.1%	-	<0.1%	-	0.8%	6.4%	0.1%	-	0.1%	-
Walls, closed windows, or doors leak	3.0%	5.4%	1.8%	5.2%	4.9%	5.7%	2.7%	14.7%	17.5%	22.2%	5.2%	0.1%	6.8%	7.1%
Other or Unknown exterior Leak	1.0%	-	0.8%	-	1.4%	-	2.4%	-	2.8%	6.6%	1.0%	-	0.7%	-
<hr/>														
INTERIOR														
Damage														
Holes in floors	0.4%	-	0.4%	-	0.5%	-	3.6%	5.8%	2.1%	6.0%	0.6%	-	0.3%	-
Open cracks or holes	5.8%	6.7%	3.6%	5.2%	9.2%	-	12.8%	24.1%	24.4%	39.5%	9.4%	0.1%	8.7%	10.3%
Broken plaster or peeling paint	3.1%	-	1.8%	-	5.2%	4.9%	11.3%	14.6%	21.8%	23.9%	5.3%	0.1%	4.9%	6.2%
<hr/>														
Water Leakage During Last 12 Months														
With leakage from inside structure	9.5%	12.9%	6.6%	9.7%	13.9%	18.4%	14.2%	19.2%	34.8%	47.5%	18.5%	0.1%	11.8%	20.3%
Fixtures backed up or overflowed	2.3%	5.0%	1.7%	-	3.2%	7.1%	5.9%	11.7%	11.7%	27.0%	4.9%	-	1.7%	9.0%
Pipes leaked	3.5%	-	2.9%	-	4.6%	7.9%	2.2%	13.4%	14.6%	29.1%	8.2%	0.1%	6.6%	9.2%
Broken water heater	0.7%	-	0.5%	-	1.1%	-	1.1%	-	2.5%	14.3%	0.4%	-	0.9%	-
Other or Unknown	3.3%	-	1.7%	-	5.6%	4.1%	7.3%	1.9%	9.9%	8.7%	5.8%	0.1%	3.1%	-
<hr/>														
Rodents														
Signs of rats in last 3 mon.	0.8%	-	1.0%	-	0.5%	-	0.9%	-	1.2%	-	1.0%	-	0.5%	-

<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.	7.2%	5.8%	7.8%	5.7%	6.2%	5.8%	6.8%	8.1%	8.7%	9.2%	11.2%	0.1%	4.5%	5.4%
Signs of rodents, not sure which kind in last 3 mon.	0.8%	-	0.8%	-	0.9%	-	1.0%	-	0.4%	-	0.8%	-	2.1%	-
<hr/>														
<b>Electrical</b>														
No electrical wiring	<0.1%	-	<0.1%	-	<0.1%	-	0.9%	-	<0.1%	-	<0.1%	-	<0.1%	-
Exposed wiring	2.2%	-	1.7%	-	2.9%	-	22.8%	3.1%	2.8%	-	1.7%	-	2.0%	-
Rooms without electric outlets	1.5%	-	0.9%	-	2.5%	-	28.8%	4.7%	1.5%	-	3.8%	-	2.5%	-
Fuses/breakers blown in last 3 mon.	9.8%	33.4%	8.1%	39.9%	12.3%	22.6%	39.1%	45.3%	12.6%	42.6%	8.7%	0.1%	14.5%	35.2%
<hr/>														
<b>Sanitation</b>														
Lacking complete kitchen facilities	1.7%	-	0.3%	-	3.9%	-	11.1%	1.6%	41.2%	37.2%	5.1%	0.1%	6.9%	2.9%
Lacking some or all plumbing facilities	0.8%	-	0.5%	-	1.3%	-	51.4%	-	<0.1%	-	1.6%	-	2.9%	-
Water not safe to drink	4.0%	12.5%	2.8%	12.3%	5.9%	12.7%	9.0%	29.9%	4.7%	15.8%	8.5%	0.1%	4.0%	10.7%
Water stoppage in last 3 mon.	2.0%	-	1.3%	-	3.0%	-	6.4%	8.9%	11.0%	7.0%	1.5%	-	2.8%	-
No flush toilets working some time in last 3 mon.	2.4%	-	0.5%	-	5.3%	6.1%	8.5%	-	21.6%	23.1%	4.9%	-	2.4%	6.5%
With sewage disposal breakdowns in last 3 mon.	1.5%	-	0.9%	-	2.3%	-	3.6%	-	13.6%	11.2%	1.8%	-	1.2%	-
Septic tank, cesspool, chemical toilet	6.4%	10.2%	7.6%	13.8%	4.5%	-	4.6%	9.3%	4.0%	9.0%	6.3%	0.1%	0.1%	-
With septic tank or cesspool breakdowns in last 3 mon.	<0.1%	-	<0.1%	0.3%	0.1%	-	1.0%	-	<0.1%	1.9%	0.2%	-	<0.1%	0.2%
<hr/>														
<b>HEATING/FUEL</b>														
<b>Main Heating Equipment</b>														
Warm-air furnace	62.2%	57.3%	65.9%	59.6%	56.4%	-	59.2%	55.9%	50.6%	42.2%	59.0%	0.1%	59.9%	55.2%

<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>
Steam or hot water system	4.1%	6.3%	4.0%	6.1%	4.3%	6.6%	1.1%	10.2%	2.2%	11.6%	8.8%	0.1%	12.4%	17.3%
Electric heat pump	27.0%	-	26.5%	-	27.8%	30.1%	14.8%	18.0%	17.8%	21.2%	17.9%	0.1%	15.5%	13.8%
Built-in electric units	3.6%	-	1.9%	-	6.1%	-	19.1%	3.2%	7.4%	6.2%	6.3%	0.1%	8.5%	8.0%
Floor, wall, or other built-in hot air without ducts	1.6%	-	0.8%	-	2.9%	-	1.0%	-	7.0%	3.3%	3.4%	-	2.4%	-
Room heaters with flue	0.6%	-	0.3%	-	0.9%	-	2.8%	9.6%	<0.1%	1.2%	3.2%	-	0.6%	-
Room heaters without flue	0.6%	-	0.1%	-	1.3%	-	2.0%	-	14.7%	11.6%	<0.1%	-	0.1%	-
Portable electric heaters	0.2%	-	0.2%	-	0.2%	-	<0.1%	-	<0.1%	1.4%	0.2%	-	0.4%	-
Stoves	0.1%	-	0.2%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Fireplace with inserts	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	0.2%	-	<0.1%	0.2%
Other	0.2%	-	0.2%	-	0.2%	-	<0.1%	-	0.4%	-	0.8%	-	0.2%	-
No heating equipment	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Cooking stove	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	0.2%	-	<0.1%	-
<hr/>														
<b>Water Heating Fuel</b>														
Electricity	60.6%	-	52.4%	61.3%	73.2%	66.9%	76.7%	65.1%	67.2%	63.8%	63.6%	0.1%	63.1%	50.1%
Gas, LP/bottled gas	37.3%	33.5%	44.9%	35.3%	25.6%	30.4%	23.3%	31.4%	32.4%	29.8%	34.8%	0.1%	35.4%	43.1%
Fuel oil	1.6%	-	2.1%	-	0.9%	-	<0.1%	3.4%	0.4%	5.8%	1.1%	-	0.9%	5.6%
Kerosene or other liquid fuel	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Other	0.4%	-	0.5%	-	0.3%	-	<0.1%	-	<0.1%	0.6%	0.5%	-	0.7%	-
<hr/>														
Clothes Dryer,(000)	512	423	366	319	146	104	6	4	12	11	37	<1	57	47
Have Clothes Dryer	81.4%	75.0%	96.0%	90.3%	58.9%	49.2%	65.5%	48.6%	51.7%	48.2%	60.8%	0.1%	62.3%	57.3%
Electricity	97.1%	-	96.3%	-	99.2%	-	100%	-	99.1%	-	98.6%	0.1%	96.7%	-
Gas, LP gas (liquid propane)	2.9%	-	3.7%	-	0.8%	-	<0.1%	3.4%	0.9%	-	1.4%	-	3.3%	-
Other	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
<hr/>														
<b>Heating Problems</b>														

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	6.3%	8.9%	4.8%	8.2%	9.4%	10.4%	50.8%	59.4%	8.4%	18.4%	9.9%	0.1%	7.8%
Heating equipment breakdowns	2.4%	-	1.7%	-	3.5%	-	25.6%	48.9%	4.0%	-	3.7%	-	1.2%	-
Other causes	3.3%	-	3.0%	-	3.9%	-	4.0%	9.3%	3.6%	12.9%	5.1%	0.1%	5.5%	5.1%
Utility interruption	0.8%	-	1.1%	-	0.4%	-	<0.1%	-	0.8%	-	2.9%	-	0.7%	-
Inadequate heating capacity	0.6%	-	0.3%	-	1.1%	-	1.4%	-	1.2%	-	1.0%	-	2.3%	-
Inadequate insulation	0.8%	-	0.4%	-	1.3%	-	1.7%	5.2%	0.9%	-	1.3%	-	1.9%	-
Cost of heating	0.6%	-	0.3%	-	1.2%	-	<0.1%	1.8%	0.4%	-	0.1%	-	1.6%	-
Other	0.9%	-	1.0%	-	0.7%	-	2.6%	-	0.4%	-	0.4%	-	0.7%	-
<b>SELECTED PHYSICAL PROBLEMS</b>														
Severe Physical Problems(,000)	10	9	3	3	7	6	10	9	.	.	2	.	3	2
Severe physical problems	1.5%	-	0.7%	-	2.7%	-	100%	-	.	.	3.0%	<0.1%	3.3%	-
Plumbing	0.8%	-	0.5%	-	1.3%	-	51.4%	-	.	.	1.6%	<0.1%	2.9%	-
Heating	0.4%	-	0.3%	-	0.5%	-	24.5%	45.6%	.	.	1.4%	<0.1%	0.4%	-
Electric	0.3%	-	<0.1%	-	0.8%	-	22.5%	4.6%	.	.	<0.1%	<0.1%	<0.1%	-
Hallways	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	.	.	<0.1%	<0.1%	<0.1%	-
Upkeep	<0.1%	-	<0.1%	-	0.1%	-	2.6%	-	.	.	<0.1%	<0.1%	<0.1%	0.2%
Moderate Physical Problems(,000)	23	22	3	8	20	14	.	.	23	22	6	.	8	7
Moderate physical problems	3.7%	-	0.9%	-	8.1%	6.9%	.	.	100%	-	10.0%	<0.1%	8.8%	-
Plumbing	0.7%	-	<0.1%	-	1.9%	-	.	.	20.1%	11.0%	2.2%	<0.1%	0.2%	-
Heating	0.5%	-	0.1%	-	1.3%	-	.	.	14.7%	11.6%	<0.1%	<0.1%	0.1%	-
Upkeep	1.5%	-	0.2%	-	3.5%	-	.	.	41.2%	37.2%	4.0%	<0.1%	6.2%	2.9%
Hallways	<0.1%	-	<0.1%	-	<0.1%	0.3%	.	.	<0.1%	2.6%	<0.1%	<0.1%	<0.1%	0.5%
Kitchen	0.9%	-	0.6%	-	1.5%	-	.	.	25.5%	40.1%	4.1%	<0.1%	2.3%	-

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%	-	<0.1%	-	1.5%	-	2.7%	6.8%	0.9%	-	0.9%	-	0.3%	-
2	0.2%	-	<0.1%	-	0.4%	-	1.4%	-	1.2%	-	0.3%	-	0.2%	-
3	0.5%	-	0.4%	-	0.6%	-	1.2%	-	1.9%	-	1.4%	-	0.3%	-
4	0.6%	-	0.1%	-	1.3%	-	<0.1%	5.1%	0.8%	-	1.2%	-	0.5%	-
5	5.2%	7.6%	2.2%	-	9.8%	12.9%	8.1%	20.7%	10.6%	20.7%	5.5%	0.1%	4.1%	11.4%
6	5.9%	6.9%	3.0%	-	10.4%	-	29.6%	8.5%	18.5%	12.2%	6.0%	0.1%	8.1%	6.4%
7	12.5%	14.7%	11.9%	-	13.3%	18.4%	22.2%	14.3%	14.0%	16.0%	19.2%	0.1%	14.6%	15.5%
8	32.6%	27.6%	34.6%	28.0%	29.4%	26.8%	15.2%	13.8%	37.2%	17.0%	22.3%	0.1%	34.6%	27.9%
9	15.6%	13.3%	17.0%	15.1%	13.5%	10.1%	5.3%	-	10.2%	5.3%	13.2%	0.1%	17.0%	8.9%
10(best)	26.3%	-	30.7%	33.6%	19.5%	15.6%	14.2%	22.2%	4.8%	16.0%	29.9%	0.1%	20.3%	24.5%

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