

**American Housing Survey - Selected Elements Related to Healthy Homes  
Cincinnati, OH-KY-IN 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)	644	592	430	396	214	196	17	7	26	31	97	<1	151	142
Total Occupied Units,(000)	162	592	110	396	53	196	4	7	2	31	20	<1	151	142
GENERAL														
Owner occupied,(000)	430	396	430	396	.	.	12	2	7	12	29	.	62	60
Owner occupied,(000)	110	396	110	396	.	.	2	2	0	12	6	.	62	60
Renter occupied,(000)	214	196	.	.	214	196	5	5	19	19	68	.	89	83
Renter occupied,(000)	53	196	.	.	53	196	2	5	2	19	13	.	89	83
Owner occupied	66.7%	-	100%	-	.	.	68.2%	30.2%	26.5%	39.3%	29.9%	<0.1%	40.7%	-
Owner occupied	67.5%	-	100%	-	.	.	51.6%	30.2%	5.8%	39.3%	32.3%	<0.1%	40.7%	-
Renter occupied	33.3%	-	.	.	100%	-	31.8%	69.8%	73.5%	60.7%	70.1%	<0.1%	59.3%	-
Renter occupied	32.5%	-	.	.	100%	-	48.4%	69.8%	94.2%	60.7%	67.7%	<0.1%	59.3%	-
Units in Structure														
1, detached	67.9%	-	88.3%	-	27.0%	25.6%	80.7%	40.9%	24.9%	35.7%	43.2%	0.1%	42.5%	49.5%
1, detached	68.9%	-	90.1%	-	24.8%	-	62.3%	40.9%	5.8%	35.7%	41.3%	0.1%	42.5%	49.5%
1, attached	4.8%	-	4.0%	-	6.5%	4.7%	1.1%	-	0.6%	-	6.8%	0.1%	4.7%	-
1, attached	3.6%	-	1.4%	-	8.0%	4.7%	34.0%	4.0%	0.6%	-	4.1%	-	4.7%	-
2 to 4	9.5%	-	2.0%	-	24.6%	22.3%	5.9%	20.5%	29.2%	25.3%	17.7%	0.1%	23.4%	17.6%
2 to 4	7.0%	9.1%	0.7%	-	20.3%	22.3%	3.6%	20.5%	34.9%	25.3%	9.2%	0.1%	23.4%	17.6%
5 to 9	4.6%	5.9%	0.5%	-	12.7%	16.3%	7.9%	10.1%	13.0%	14.5%	8.0%	0.1%	6.6%	9.7%
5 to 9	4.6%	5.9%	1.3%	-	11.4%	16.3%	7.9%	10.1%	31.6%	14.5%	20.0%	0.1%	6.6%	9.7%
10 to 19	5.8%	7.4%	0.9%	-	15.7%	20.1%	0.8%	14.3%	19.5%	14.5%	8.9%	0.1%	10.2%	11.8%
10 to 19	9.8%	7.4%	2.5%	-	24.9%	20.1%	0.8%	14.3%	27.8%	14.5%	18.0%	0.1%	10.2%	11.8%
20 to 49	1.6%	-	<0.1%	0.3%	4.9%	10.3%	0.8%	-	3.0%	7.6%	5.0%	0.1%	5.6%	8.2%
20 to 49	1.1%	-	<0.1%	0.3%	3.4%	10.3%	0.8%	-	3.0%	7.6%	1.6%	-	5.6%	8.2%

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
	Manufactured /mobile home or trailer	3.1%	-	4.0%	-	1.3%	-	0.7%	8.1%	5.9%	0.6%	3.9%	-	<0.1%
Manufactured /mobile home or trailer	4.1%	-	3.8%	-	4.7%	-	0.7%	8.1%	5.9%	0.6%	2.4%	-	<0.1%	-
Year Structure Built														
Post-2000	11.3%	<0.1%	13.9%	<0.1%	6.1%	<0.1%	0.9%	-	3.3%	-	5.6%	0.1%	1.8%	-
Post-2000	9.6%	<0.1%	12.4%	<0.1%	3.8%	-	<0.1%	-	<0.1%	-	2.3%	-	1.8%	-
Post-1980	33.9%	25.2%	37.5%	28.9%	26.8%	17.8%	4.7%	6.0%	13.6%	10.1%	24.8%	0.1%	11.1%	5.4%
Post-1980	41.3%	25.2%	45.2%	28.9%	33.2%	17.8%	<0.1%	6.0%	26.1%	10.1%	39.5%	0.1%	11.1%	5.4%
Pre-1980	66.1%	74.8%	62.5%	71.1%	73.2%	82.2%	95.3%	-	86.4%	-	75.2%	0.1%	88.9%	94.6%
Pre-1980	58.7%	74.8%	54.8%	71.1%	66.8%	82.2%	100%	94.0%	73.9%	89.9%	60.5%	0.1%	88.9%	94.6%
Pre-1960	39.3%	46.6%	36.9%	45.4%	44.3%	49.1%	78.7%	57.1%	48.7%	65.3%	50.9%	0.1%	66.5%	74.8%
Pre-1960	35.1%	46.6%	29.7%	45.4%	46.3%	49.1%	58.8%	-	49.3%	65.3%	40.5%	0.1%	66.5%	74.8%
Pre-1940	19.1%	23.7%	16.6%	20.9%	24.0%	29.3%	45.2%	36.5%	28.4%	43.8%	27.2%	0.1%	44.5%	49.3%
Pre-1940	20.4%	23.7%	15.0%	20.9%	31.8%	29.3%	39.9%	36.5%	33.9%	43.8%	32.4%	0.1%	44.5%	49.3%
Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	469	420	397	360	72	59	14	3	7	12	49	<1	71	75
1-Unit not manufactured(,000)	118	420	100	360	17	59	4	3	0	12	9	<1	71	75
With a basement under all of house	60.0%	67.5%	62.4%	68.6%	47.2%	61.2%	65.1%	-	57.5%	69.2%	54.7%	0.1%	70.4%	84.3%
With a basement under all of house	77.0%	67.5%	80.0%	68.6%	59.6%	-	96.1%	63.0%	57.5%	69.2%	42.5%	0.1%	70.4%	84.3%
With a basement under part of house	15.8%	14.1%	16.6%	14.6%	11.4%	-	15.4%	9.1%	4.5%	12.5%	10.4%	0.1%	20.1%	9.2%
With a basement under part of house	11.2%	14.1%	9.2%	14.6%	22.7%	11.0%	15.4%	9.1%	4.5%	12.5%	41.3%	0.1%	20.1%	9.2%
With a crawl space	8.0%	6.6%	7.9%	6.2%	8.8%	-	4.3%	13.7%	11.4%	6.2%	9.4%	0.1%	0.6%	-

<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>
	With a crawl space	5.5%	6.6%	6.1%	-	2.0%	8.6%	3.9%	13.7%	100%	6.2%	2.7%	-	0.6%
On a concrete slab	15.0%	10.3%	12.0%	9.2%	31.4%	17.1%	15.1%	4.7%	26.7%	12.1%	24.3%	0.1%	8.6%	4.6%
On a concrete slab	4.5%	10.3%	2.8%	9.2%	14.1%	17.1%	15.1%	4.7%	26.7%	12.1%	13.5%	0.1%	8.6%	4.6%
In some other way	1.1%	-	1.1%	-	1.2%	-	<0.1%	9.5%	<0.1%	-	1.3%	-	0.3%	-
In some other way	1.8%	-	1.8%	-	1.6%	-	<0.1%	9.5%	<0.1%	-	1.3%	-	0.3%	-
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EXTERIOR														
External Building Conditions(non multiunit)														
Sagging roof	1.6%	-	1.5%	-	2.4%	-	12.7%	9.6%	4.7%	6.1%	2.1%	-	0.4%	-
Sagging roof	0.5%	-	0.6%	-	<0.1%	3.5%	<0.1%	9.6%	<0.1%	6.1%	<0.1%	-	0.4%	-
Missing roofing material	3.8%	-	3.5%	-	5.1%	-	3.6%	17.5%	29.5%	12.4%	6.3%	0.1%	5.1%	6.4%
Missing roofing material	2.3%	-	2.7%	-	<0.1%	5.2%	3.9%	17.5%	<0.1%	12.4%	3.3%	-	5.1%	6.4%
Hole in roof	1.5%	-	1.4%	-	2.1%	-	1.3%	16.6%	28.6%	7.7%	4.3%	-	3.6%	-
Hole in roof	0.8%	-	0.7%	-	1.1%	-	<0.1%	16.6%	<0.1%	7.7%	2.0%	-	3.6%	-
Missing bricks, siding, other outside wall material	2.0%	-	1.7%	-	3.5%	5.4%	4.1%	7.6%	7.7%	13.5%	2.0%	-	3.0%	-
Missing bricks, siding, other outside wall material	1.9%	-	2.2%	-	0.7%	5.4%	33.8%	7.6%	<0.1%	13.5%	4.3%	-	3.0%	-
Sloping outside walls	0.7%	-	0.6%	-	1.8%	-	3.5%	16.5%	3.4%	-	1.8%	-	1.2%	-
Sloping outside walls	0.7%	-	0.4%	-	2.1%	-	<0.1%	16.5%	<0.1%	4.7%	3.5%	-	1.2%	-
Boarded up windows	1.3%	-	1.3%	-	1.1%	-	1.0%	9.3%	3.7%	-	1.1%	-	1.8%	-
Boarded up windows	0.6%	-	0.7%	-	<0.1%	2.4%	<0.1%	9.3%	<0.1%	4.9%	3.3%	-	1.8%	-
Broken windows	4.6%	-	4.2%	-	7.0%	12.2%	14.1%	28.4%	15.5%	11.3%	8.2%	0.1%	3.0%	7.2%
Broken windows	1.8%	-	2.0%	-	0.7%	12.2%	<0.1%	28.4%	<0.1%	11.3%	7.6%	0.1%	3.0%	7.2%
Bars on windows	0.4%	-	0.3%	-	0.8%	-	<0.1%	-	<0.1%	2.5%	0.3%	-	1.8%	-
Bars on windows	0.1%	-	0.1%	-	<0.1%	4.5%	<0.1%	-	<0.1%	2.5%	<0.1%	-	1.8%	-

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 crumbling or has open crack or hole	10.0%	4.8%	9.7%	4.4%	11.5%	7.7%	39.6%	16.1%	22.5%	19.8%	9.3%	0.1%	10.4%
Foundation crumbling or has open crack or hole	13.0%	4.8%	14.2%	4.4%	6.3%	7.7%	7.5%	16.1%	100%	19.8%	11.0%	0.1%	10.4%	6.4%
None of the above	80.5%	-	82.0%	-	72.0%	-	43.4%	56.4%	42.6%	57.1%	75.6%	0.1%	76.9%	-
None of the above	79.1%	83.9%	76.9%	85.7%	90.4%	72.9%	54.9%	-	<0.1%	57.1%	75.8%	0.1%	76.9%	-
None of the above(excluding bars)	80.8%	-	82.3%	-	72.6%	-	43.4%	56.4%	42.6%	58.3%	75.6%	0.1%	78.5%	-
None of the above(excluding bars)	79.1%	84.6%	77.0%	86.3%	90.4%	74.3%	54.9%	-	<0.1%	58.3%	75.8%	0.1%	78.5%	-
Water Leakage During Last 12 Months														
With leakage from outside structure	15.8%	20.8%	17.6%	24.4%	12.3%	13.5%	38.0%	41.3%	39.4%	-	15.5%	0.1%	17.2%	21.2%
With leakage from outside structure	11.0%	20.8%	9.1%	24.4%	15.2%	13.5%	6.7%	41.3%	18.0%	39.3%	17.2%	0.1%	17.2%	21.2%
Roof	6.8%	6.4%	7.6%	6.8%	5.3%	5.8%	16.3%	28.5%	24.6%	20.0%	6.7%	0.1%	9.6%	8.1%
Roof	4.5%	6.4%	2.4%	6.8%	9.0%	5.8%	<0.1%	28.5%	12.2%	20.0%	5.7%	0.1%	9.6%	8.1%
Basement leak	7.4%	14.1%	10.1%	18.5%	1.9%	5.1%	19.0%	14.7%	8.5%	25.6%	4.5%	-	7.3%	13.9%
Basement leak	3.4%	14.1%	3.6%	18.5%	2.9%	5.1%	6.7%	14.7%	<0.1%	25.6%	2.0%	-	7.3%	13.9%
Walls, closed windows, or doors leak	2.7%	-	1.9%	-	4.2%	-	11.4%	-	13.6%	-	5.9%	0.1%	4.1%	-
Walls, closed windows, or doors leak	3.2%	-	2.7%	-	4.3%	-	3.6%	11.9%	<0.1%	13.3%	8.1%	0.1%	4.1%	-
Other or Unknown exterior Leak	1.4%	-	1.2%	-	1.7%	-	12.4%	3.2%	0.6%	6.4%	2.5%	-	2.0%	-
Other or Unknown exterior Leak	0.8%	-	1.0%	-	0.4%	-	<0.1%	3.2%	5.8%	6.4%	1.2%	-	2.0%	-
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INTERIOR														
Damage														
Holes in floors	0.7%	-	0.6%	-	1.0%	-	1.6%	10.9%	8.1%	5.1%	2.3%	-	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>
Holes in floors	1.3%	-	1.9%	-	<0.1%	0.9%	<0.1%	10.9%	5.8%	5.1%	<0.1%	-	0.5%	-
Open cracks or holes	6.9%	5.6%	6.6%	4.5%	7.6%	-	36.2%	29.5%	33.3%	36.1%	9.7%	0.1%	10.9%	8.9%
Open cracks or holes	2.3%	5.6%	1.1%	-	4.9%	7.8%	3.6%	29.5%	18.0%	36.1%	7.4%	0.1%	10.9%	8.9%
Broken plaster or peeling paint	3.0%	-	2.0%	-	5.0%	5.9%	12.7%	17.5%	28.3%	-	6.5%	0.1%	5.4%	7.2%
Broken plaster or peeling paint	1.3%	-	1.2%	-	1.5%	5.9%	3.6%	17.5%	24.7%	27.9%	1.3%	-	5.4%	7.2%
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Water Leakage During Last 12 Months														
With leakage from inside structure	9.4%	10.8%	7.9%	9.0%	12.4%	14.4%	32.2%	-	22.6%	35.1%	12.6%	0.1%	9.7%	14.3%
With leakage from inside structure	3.6%	10.8%	3.0%	9.0%	4.7%	14.4%	<0.1%	33.7%	19.4%	35.1%	7.5%	0.1%	9.7%	14.3%
Fixtures backed up or overflowed	2.3%	-	1.9%	-	3.2%	6.6%	12.3%	22.6%	3.0%	20.4%	1.8%	-	1.2%	7.0%
Fixtures backed up or overflowed	1.2%	-	1.4%	-	1.0%	6.6%	<0.1%	22.6%	5.9%	20.4%	1.4%	-	1.2%	7.0%
Pipes leaked	3.6%	-	3.5%	-	3.9%	6.3%	16.7%	10.8%	9.4%	19.8%	6.2%	0.1%	5.2%	6.4%
Pipes leaked	0.9%	-	0.9%	-	1.0%	6.3%	<0.1%	10.8%	5.9%	19.8%	0.7%	-	5.2%	6.4%
Broken water heater	1.2%	-	1.1%	-	1.5%	-	2.4%	-	6.1%	1.4%	2.2%	-	1.3%	-
Broken water heater	0.1%	-	0.1%	-	<0.1%	0.8%	<0.1%	3.0%	<0.1%	1.4%	<0.1%	-	1.3%	-
Other or Unknown	2.5%	-	1.7%	-	4.3%	-	3.2%	11.1%	5.1%	8.0%	3.8%	-	2.3%	-
Other or Unknown	1.4%	-	0.7%	-	2.8%	-	<0.1%	11.1%	13.5%	8.0%	5.3%	0.1%	2.3%	-
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Rodents														
Signs of rats in last 3 mon.	0.3%	-	0.2%	-	0.5%	-	1.6%	-	<0.1%	5.4%	0.8%	-	0.5%	-
Signs of rats in last 3 mon.	0.2%	-	0.1%	-	0.5%	-	3.6%	-	<0.1%	5.4%	<0.1%	-	0.5%	-
Signs of mice in last 3 mon.	9.9%	4.7%	11.5%	5.0%	6.7%	4.0%	43.5%	11.3%	13.6%	7.8%	12.3%	0.1%	8.0%	3.8%
Signs of mice in last 3 mon.	7.9%	4.7%	5.7%	5.0%	12.5%	4.0%	<0.1%	11.3%	<0.1%	7.8%	10.0%	0.1%	8.0%	3.8%
Signs of rodents, not sure which kind in last 3 mon.	0.3%	-	0.2%	-	0.4%	-	2.4%	-	1.1%	-	0.8%	-	0.6%	-

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
Signs of rodents, not sure which kind in last 3 mon.	<0.1%	-	<0.1%	-	<0.1%	0.3%	<0.1%	-	<0.1%	0.5%	<0.1%	-	0.6%	-
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Electrical														
No electrical wiring	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
No electrical wiring	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Exposed wiring	2.1%	-	1.4%	-	3.3%	-	1.6%	-	8.2%	0.9%	1.9%	-	2.8%	-
Exposed wiring	3.3%	-	3.1%	-	3.9%	-	3.6%	-	15.9%	0.9%	4.5%	-	2.8%	-
Rooms without electric outlets	1.1%	-	0.5%	-	2.2%	-	3.1%	6.0%	2.4%	-	1.6%	-	2.4%	-
Rooms without electric outlets	0.8%	-	0.6%	-	1.2%	-	3.6%	6.0%	9.1%	2.8%	2.6%	-	2.4%	-
Fuses/breakers blown in last 3 mon.	14.1%	36.4%	14.2%	43.3%	13.8%	22.4%	31.7%	46.2%	23.4%	39.2%	15.1%	0.1%	13.9%	31.5%
Fuses/breakers blown in last 3 mon.	5.8%	36.4%	7.0%	43.3%	3.4%	22.4%	7.2%	46.2%	6.7%	39.2%	7.0%	0.1%	13.9%	31.5%
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Sanitation														
Lacking complete kitchen facilities	2.5%	-	0.5%	-	6.5%	7.0%	3.5%	21.4%	60.3%	57.3%	4.7%	-	5.6%	8.8%
Lacking complete kitchen facilities	1.0%	-	<0.1%	1.3%	2.9%	7.0%	<0.1%	21.4%	75.3%	57.3%	2.3%	-	5.6%	8.8%
Lacking some or all plumbing facilities	1.3%	-	1.4%	-	1.2%	-	50.1%	-	<0.1%	0.5%	1.1%	-	3.2%	-
Lacking some or all plumbing facilities	2.2%	-	1.7%	-	3.3%	-	93.3%	50.3%	<0.1%	0.5%	<0.1%	-	3.2%	-
Water not safe to drink	3.1%	9.5%	2.4%	7.9%	4.5%	12.6%	8.4%	16.4%	5.9%	19.4%	3.0%	-	4.0%	12.7%
Water not safe to drink	4.3%	9.5%	4.9%	7.9%	3.2%	12.6%	<0.1%	16.4%	5.8%	19.4%	6.3%	0.1%	4.0%	12.7%
Water stoppage in last 3 mon.	3.8%	5.9%	3.6%	-	4.2%	8.0%	12.0%	21.3%	15.0%	15.9%	2.8%	-	4.1%	7.2%
Water stoppage in last 3 mon.	2.0%	5.9%	2.2%	-	1.8%	8.0%	<0.1%	21.3%	<0.1%	15.9%	4.7%	-	4.1%	7.2%
No flush toilets working some time in last 3 mon.	2.4%	-	1.4%	-	4.4%	5.5%	9.1%	12.3%	16.6%	13.9%	3.1%	-	2.3%	5.5%
No flush toilets working some time in last 3 mon.	0.7%	-	0.3%	-	1.5%	5.5%	<0.1%	12.3%	<0.1%	13.9%	2.5%	-	2.3%	5.5%

<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>
	With sewage disposal breakdowns in last 3 mon.	1.3%	-	0.9%	-	1.9%	-	8.5%	2.1%	0.7%	-	0.7%	-	1.9%
With sewage disposal breakdowns in last 3 mon.	0.2%	-	0.3%	-	<0.1%	1.8%	<0.1%	2.1%	<0.1%	4.2%	<0.1%	-	1.9%	-
Septic tank, cesspool, chemical toilet	13.6%	-	18.4%	-	4.0%	-	8.4%	2.1%	5.7%	-	6.4%	0.1%	<0.1%	0.4%
Septic tank, cesspool, chemical toilet	10.1%	14.1%	13.7%	19.0%	2.7%	-	3.8%	-	<0.1%	5.9%	5.0%	0.1%	<0.1%	0.4%
With septic tank or cesspool breakdowns in last 3 mon.	0.2%	-	0.2%	-	0.2%	-	0.9%	-	<0.1%	0.5%	<0.1%	-	<0.1%	-
With septic tank or cesspool breakdowns in last 3 mon.	<0.1%	0.2%	<0.1%	0.3%	<0.1%	-	<0.1%	-	<0.1%	0.5%	<0.1%	-	<0.1%	-
<b>HEATING/FUEL</b>														
<b>Main Heating Equipment</b>														
Warm-air furnace	77.6%	-	83.0%	-	66.6%	-	80.2%	-	67.3%	74.9%	69.2%	0.1%	74.7%	69.5%
Warm-air furnace	71.7%	75.4%	70.7%	80.0%	74.0%	66.0%	26.2%	81.9%	60.2%	74.9%	80.2%	0.1%	74.7%	69.5%
Steam or hot water system	5.6%	9.0%	2.1%	-	12.5%	18.2%	4.3%	10.0%	22.0%	14.6%	12.2%	0.1%	13.6%	21.7%
Steam or hot water system	2.8%	9.0%	2.3%	-	3.9%	18.2%	4.3%	10.0%	14.9%	-	1.0%	-	13.6%	21.7%
Electric heat pump	10.0%	11.2%	11.6%	13.2%	6.8%	7.2%	1.9%	-	2.9%	-	9.6%	0.1%	2.8%	-
Electric heat pump	14.2%	11.2%	16.6%	13.2%	9.3%	7.2%	37.6%	2.1%	6.0%	1.5%	9.8%	0.1%	2.8%	-
Built-in electric units	4.2%	-	1.3%	-	10.0%	6.3%	3.2%	-	5.1%	4.8%	5.4%	0.1%	6.9%	4.0%
Built-in electric units	2.3%	-	1.1%	-	4.7%	6.3%	3.2%	-	12.2%	4.8%	4.2%	-	6.9%	4.0%
Floor, wall, or other built-in hot air without ducts	1.4%	-	0.8%	-	2.6%	-	1.6%	-	<0.1%	1.3%	1.1%	-	1.6%	-
Floor, wall, or other built-in hot air without ducts	7.7%	0.7%	9.0%	0.5%	5.1%	1.2%	36.2%	1.9%	<0.1%	1.3%	4.8%	-	1.6%	-
Room heaters with flue	0.1%	-	0.1%	-	2.8%	-	<0.1%	-	<0.1%	0.5%	0.3%	-	<0.1%	0.6%
Room heaters with flue	1.0%	-	0.1%	-	2.8%	-	<0.1%	-	<0.1%	0.5%	0.3%	-	<0.1%	0.6%

<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>
Room heaters without flue	0.3%	-	<0.1%	-	0.8%	-	8.9%	0.1%	1.3%	-	1.7%	-	0.1%	-
Room heaters without flue	0.1%	-	<0.1%	-	0.3%	-	8.9%	0.1%	6.7%	1.4%	1.7%	-	0.1%	-
Portable electric heaters	0.2%	-	0.3%	-	0.1%	-	<0.1%	-	<0.1%	0.5%	<0.1%	-	0.1%	-
Stoves	0.3%	-	0.4%	-	0.2%	-	<0.1%	2.1%	0.8%	-	0.4%	-	<0.1%	-
Stoves	0.1%	-	0.1%	-	0.2%	-	<0.1%	2.1%	0.8%	-	0.4%	-	<0.1%	-
Fireplace with inserts	0.2%	-	0.3%	-	<0.1%	-	<0.1%	-	<0.1%	-	0.1%	-	<0.1%	-
Other	0.2%	-	0.1%	-	0.4%	-	<0.1%	-	0.7%	-	<0.1%	-	0.3%	-
No heating equipment	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
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<b>Water Heating Fuel</b>														
Electricity	43.9%	39.9%	42.3%	39.9%	47.3%	39.8%	23.3%	37.0%	29.7%	27.6%	49.4%	0.1%	24.9%	20.7%
Electricity	53.7%	39.9%	49.3%	39.9%	62.8%	39.8%	81.3%	37.0%	57.0%	27.6%	57.5%	0.1%	24.9%	20.7%
Gas, LP/bottled gas	55.5%	59.7%	57.1%	-	52.4%	59.8%	76.7%	63.0%	69.7%	-	50.1%	0.1%	74.7%	79.1%
Gas, LP/bottled gas	46.1%	59.7%	50.6%	59.7%	37.0%	59.8%	18.7%	63.0%	43.0%	72.4%	42.5%	0.1%	74.7%	79.1%
Fuel oil	0.1%	-	0.1%	-	0.2%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	0.3%
Fuel oil	0.2%	-	0.1%	-	0.2%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	0.3%
Other	0.4%	-	0.6%	-	0.1%	-	<0.1%	-	0.6%	-	0.4%	-	0.4%	-
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Clothes Dryer,(000)	514	438	418	373	96	65	12	4	9	15	54	<1	83	68
Clothes Dryer,(000)	140	438	109	373	31	65	4	4	1	15	12	<1	83	68
Have Clothes Dryer	79.8%	73.9%	97.2%	-	44.7%	33.1%	70.2%	50.4%	37.1%	49.4%	55.7%	0.1%	54.8%	47.4%
Have Clothes Dryer	86.2%	73.9%	99.1%	94.1%	59.2%	33.1%	96.4%	50.4%	50.5%	-	59.8%	0.1%	54.8%	47.4%
Electricity	89.5%	82.5%	88.2%	80.9%	94.9%	-	78.7%	72.2%	92.7%	82.2%	93.1%	0.1%	78.5%	70.2%
Electricity	90.1%	82.5%	89.7%	80.9%	91.5%	-	59.3%	72.2%	70.5%	82.2%	91.0%	0.1%	78.5%	70.2%
Gas, LP gas (liquid propane)	10.5%	17.5%	11.8%	19.1%	4.9%	8.2%	21.3%	27.8%	7.3%	17.8%	6.6%	0.1%	21.5%	29.8%
Gas, LP gas (liquid propane)	9.9%	17.5%	10.3%	19.1%	8.5%	-	40.7%	27.8%	29.5%	17.8%	9.0%	0.1%	21.5%	29.8%



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
Heating Problems														
Uncomfortably cold for 24 hours or more last winter	11.8%	7.9%	10.6%	5.3%	15.0%	14.0%	56.7%	52.7%	29.1%	25.5%	20.0%	0.1%	17.4%	11.5%
Uncomfortably cold for 24 hours or more last winter	4.1%	7.9%	4.6%	5.3%	2.8%	14.0%	6.8%	52.7%	28.0%	25.5%	3.9%	-	17.4%	11.5%
Heating equipment breakdowns	3.4%	-	3.3%	-	3.4%	-	54.2%	38.6%	10.5%	5.1%	6.5%	0.1%	5.3%	3.4%
Heating equipment breakdowns	0.4%	-	0.3%	-	0.6%	-	3.1%	38.6%	<0.1%	5.1%	<0.1%	-	5.3%	3.4%
Other causes	7.7%	4.6%	7.6%	3.0%	7.8%	-	11.3%	10.2%	15.6%	18.6%	10.0%	0.1%	9.3%	6.9%
Other causes	3.2%	-	4.1%	-	1.5%	8.1%	3.7%	10.2%	18.0%	-	3.6%	-	9.3%	6.9%
Utility interruption	2.9%	-	3.5%	-	1.5%	-	1.9%	-	2.0%	-	4.7%	-	1.8%	-
Utility interruption	0.9%	-	1.3%	-	<0.1%	0.2%	<0.1%	-	<0.1%	0.6%	<0.1%	-	1.8%	-
Inadequate heating capacity	1.5%	-	0.9%	-	2.6%	-	0.8%	-	3.5%	8.5%	1.2%	-	3.0%	-
Inadequate heating capacity	0.6%	-	0.4%	-	1.0%	-	3.7%	-	12.2%	8.5%	1.9%	-	3.0%	-
Inadequate insulation	1.5%	-	1.2%	-	2.3%	-	8.6%	4.4%	8.8%	11.7%	1.9%	-	2.5%	-
Inadequate insulation	0.3%	-	0.2%	-	0.5%	-	<0.1%	4.4%	5.8%	11.7%	0.7%	-	2.5%	-
Cost of heating	1.1%	-	1.4%	-	0.7%	-	<0.1%	-	1.3%	-	0.9%	-	0.9%	-
Cost of heating	0.1%	-	0.2%	-	<0.1%	0.8%	<0.1%	-	<0.1%	2.2%	<0.1%	-	0.9%	-
Other	1.0%	-	0.7%	-	1.6%	-	<0.1%	2.1%	1.1%	5.7%	1.8%	-	1.7%	-
Other	1.4%	-	2.0%	-	<0.1%	2.3%	<0.1%	2.1%	5.8%	-	1.0%	-	1.7%	-
SELECTED PHYSICAL PROBLEMS														
Severe Physical Problems(,000)	17	7	12	2	5	5	17	7	.	.	5	.	10	3
Severe Physical Problems(,000)	4	7	2	2	2	5	4	7	.	.	0	.	10	3
Severe physical problems	2.7%	-	2.7%	-	2.5%	-	100%	-	.	.	5.4%	<0.1%	6.5%	2.1%
Severe physical problems	2.4%	-	1.8%	-	3.5%	-	100%	-	.	.	0.7%	<0.1%	6.5%	2.1%
Plumbing	1.3%	-	1.4%	-	1.2%	-	50.1%	-	.	.	1.1%	<0.1%	3.2%	-

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
Plumbing	2.2%	-	1.7%	-	3.3%	-	93.3%	50.3%	.	.	<0.1%	<0.1%	3.2%	-
Heating	1.3%	-	1.3%	-	1.2%	-	48.4%	36.4%	.	.	4.1%	<0.1%	3.1%	-
Heating	0.1%	-	0.1%	-	<0.1%	1.1%	3.1%	36.4%	.	.	<0.1%	<0.1%	3.1%	-
Electric	<0.1%	-	<0.1%	-	0.1%	-	0.8%	-	.	.	<0.1%	<0.1%	0.1%	-
Electric	0.1%	-	<0.1%	-	0.3%	-	3.6%	-	.	.	0.7%	<0.1%	0.1%	-
Hallways	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	2.2%	.	.	<0.1%	<0.1%	<0.1%	-
Hallways	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	2.2%	.	.	<0.1%	<0.1%	<0.1%	-
Upkeep	<0.1%	-	<0.1%	-	0.1%	-	0.8%	8.9%	.	.	0.1%	<0.1%	0.1%	-
Upkeep	<0.1%	-	<0.1%	-	<0.1%	0.2%	<0.1%	8.9%	.	.	<0.1%	<0.1%	0.1%	-
Moderate Physical Problems(,000)	26	31	7	12	19	19	.	.	26	31	8	.	13	17
Moderate Physical Problems(,000)	2	31	0	12	2	19	.	.	2	31	1	.	13	17
Moderate physical problems	4.0%	5.2%	1.6%	-	8.7%	9.5%	.	.	100%	-	7.8%	<0.1%	8.8%	12.1%
Moderate physical problems	1.3%	5.2%	0.1%	-	3.7%	9.5%	.	.	100%	-	3.6%	<0.1%	8.8%	12.1%
Plumbing	<0.1%	-	<0.1%	0.3%	<0.1%	-	.	.	<0.1%	6.6%	<0.1%	<0.1%	<0.1%	-
Plumbing	<0.1%	0.3%	<0.1%	0.3%	<0.1%	0.5%	.	.	<0.1%	6.6%	<0.1%	<0.1%	<0.1%	-
Heating	0.1%	-	<0.1%	-	0.1%	-	.	.	1.3%	-	0.1%	<0.1%	0.1%	-
Heating	0.1%	-	<0.1%	-	0.3%	-	.	.	6.7%	1.4%	<0.1%	<0.1%	0.1%	-
Upkeep	2.4%	-	0.5%	-	6.2%	-	.	.	60.3%	57.3%	4.1%	<0.1%	5.5%	8.1%
Upkeep	1.0%	-	<0.1%	1.3%	2.9%	6.4%	.	.	75.3%	57.3%	2.3%	<0.1%	5.5%	8.1%
Hallways	<0.1%	-	<0.1%	-	<0.1%	0.4%	.	.	<0.1%	2.4%	<0.1%	<0.1%	<0.1%	0.2%
Hallways	<0.1%	-	<0.1%	-	<0.1%	0.4%	.	.	<0.1%	2.4%	<0.1%	<0.1%	<0.1%	0.2%
Kitchen	1.5%	-	1.1%	-	2.5%	-	.	.	38.9%	-	3.7%	<0.1%	3.4%	-
Kitchen	0.2%	-	0.1%	-	0.5%	-	.	.	18.0%	37.1%	1.3%	<0.1%	3.4%	-

OVERALL OPINION OF  
STRUCTURE

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
	1(worst)	0.2%	-	0.1%	-	0.3%	-	0.8%	8.1%	0.5%	-	0.3%	-	0.2%
1(worst)	0.4%	-	0.2%	-	1.0%	-	0.8%	8.1%	0.5%	-	3.0%	-	0.2%	-
2	0.3%	-	0.2%	-	0.7%	-	2.7%	-	0.5%	-	1.0%	-	0.4%	-
2	0.2%	-	0.1%	-	0.3%	-	2.7%	-	0.5%	-	<0.1%	-	0.4%	-
3	0.8%	-	0.6%	-	1.1%	-	12.2%	4.1%	2.1%	-	3.3%	-	2.1%	-
3	0.2%	-	0.2%	-	0.2%	-	12.2%	4.1%	5.9%	2.4%	3.3%	-	2.1%	-
4	1.4%	-	0.4%	-	3.2%	-	<0.1%	4.3%	3.4%	-	2.7%	-	1.4%	-
4	0.9%	-	0.6%	-	1.4%	-	<0.1%	4.3%	12.2%	4.8%	3.6%	-	1.4%	-
5	5.6%	6.3%	5.5%	3.7%	5.8%	11.6%	13.5%	-	12.0%	14.1%	5.9%	0.1%	5.3%	8.4%
5	3.2%	6.3%	2.7%	-	4.2%	11.6%	13.5%	-	12.0%	14.1%	4.8%	-	5.3%	8.4%
6	4.5%	5.7%	3.2%	-	7.0%	-	3.5%	10.2%	12.3%	10.6%	7.4%	0.1%	6.2%	8.0%
6	6.4%	5.7%	4.3%	-	11.0%	7.3%	7.5%	10.2%	6.7%	10.6%	13.7%	0.1%	6.2%	8.0%
7	16.9%	14.4%	14.2%	13.1%	22.1%	16.9%	23.9%	10.6%	25.1%	15.5%	16.8%	0.1%	23.5%	15.1%
7	21.5%	14.4%	20.6%	13.1%	23.5%	16.9%	32.5%	10.6%	27.2%	15.5%	17.9%	0.1%	23.5%	15.1%
8	28.1%	29.7%	27.7%	30.0%	29.0%	-	20.2%	30.4%	22.1%	27.1%	30.4%	0.1%	30.6%	28.7%
8	21.4%	29.7%	20.9%	30.0%	22.5%	29.2%	13.9%	30.4%	27.7%	-	21.9%	0.1%	30.6%	28.7%
9	15.9%	14.6%	18.0%	16.3%	11.7%	-	16.8%	6.2%	7.3%	13.7%	8.6%	0.1%	15.7%	12.1%
9	16.6%	14.6%	16.9%	-	16.1%	11.4%	3.6%	6.2%	20.1%	13.7%	17.1%	0.1%	15.7%	12.1%
10(best)	26.3%	-	30.0%	-	19.0%	17.1%	6.3%	12.7%	14.6%	9.4%	23.5%	0.1%	14.5%	22.2%
10(best)	29.2%	26.4%	33.5%	31.0%	19.8%	17.1%	42.5%	12.7%	14.6%	9.4%	18.1%	0.1%	14.5%	22.2%

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