

**American Housing Survey - Selected Elements Related to Healthy Homes
Detroit, MI in 2009 and 2003**

2003 is only reported if >=5% (relative) and 0.1% (absolute) different from

2009 (otherwise "-" is listed).

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003
Total Occupied Units(,000)	1,544	1,707	1,110	1,260	434	447	33	41	30	46	265	212	340	402
GENERAL														
Owner occupied(,000)	1,110	1,260	1,110	1,260	.	.	15	27	13	18	106	95	188	237
Renter occupied(,000)	434	447	.	.	434	447	18	15	17	28	159	118	152	165
Owner occupied	71.9%	-	100%	-	.	.	44.6%	64.4%	42.1%	38.7%	40.1%	44.5%	55.2%	59.0%
Renter occupied	28.1%	26.2%	.	.	100%	-	55.4%	35.6%	57.9%	61.3%	59.9%	55.5%	44.8%	41.0%
Units in Structure														
1, detached	72.3%	-	88.6%	-	30.5%	28.1%	47.6%	59.3%	40.7%	54.0%	51.8%	55.0%	69.6%	-
1, attached	7.3%	5.6%	4.6%	-	14.3%	9.1%	12.6%	4.8%	11.5%	0.1%	10.1%	6.8%	6.6%	5.2%
2 to 4	4.2%	6.3%	1.0%	-	12.3%	16.6%	4.8%	6.0%	10.5%	16.9%	10.0%	11.7%	8.6%	13.1%
5 to 9	4.2%	-	1.1%	-	12.1%	14.5%	2.0%	9.2%	2.9%	15.0%	3.2%	8.5%	1.8%	-
10 to 19	3.0%	-	0.7%	-	9.0%	12.2%	9.3%	12.9%	2.6%	9.4%	5.0%	4.6%	1.3%	-
20 to 49	1.9%	-	0.2%	-	6.3%	-	3.5%	-	4.8%	-	3.6%	-	3.3%	-
50 or more	4.1%	-	0.1%	-	14.2%	11.1%	8.4%	3.0%	14.9%	0.1%	10.5%	8.1%	8.6%	5.7%
Manufactured /mobile home or trailer	3.0%	-	3.6%	-	1.4%	-	11.7%	4.9%	12.2%	2.1%	5.7%	3.0%	0.3%	-
Year Structure Built														
Post-2000	7.1%	3.1%	8.2%	4.0%	4.2%	-	<0.1%	-	<0.1%	-	3.6%	-	1.8%	-
Post-1980	27.1%	24.7%	29.3%	25.3%	21.6%	23.0%	20.9%	15.1%	9.3%	10.1%	19.8%	14.1%	8.7%	-
Pre-1980	72.9%	-	70.7%	74.7%	78.4%	-	79.1%	84.9%	90.7%	-	80.2%	85.9%	91.3%	-
Pre-1960	43.5%	-	43.3%	46.9%	43.9%	38.6%	44.5%	54.5%	62.8%	55.1%	54.9%	-	78.7%	74.1%
Pre-1940	13.4%	14.7%	12.1%	14.6%	16.9%	14.7%	20.4%	25.2%	24.6%	-	20.1%	22.2%	33.8%	30.0%

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003
Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	1,228	1,332	1,034	1,166	194	166	20	26	16	25	164	131	259	302
With a basement under all of house	68.3%	-	68.9%	-	65.3%	-	60.3%	73.6%	71.5%	78.4%	66.6%	75.2%	85.3%	89.6%
With a basement under part of house	13.9%	14.9%	15.1%	16.0%	7.8%	7.4%	20.2%	14.6%	<0.1%	6.0%	7.5%	10.7%	8.5%	4.8%
With a crawl space	10.5%	-	10.5%	-	10.8%	13.8%	14.8%	11.9%	23.1%	11.8%	12.2%	9.8%	1.4%	-
On a concrete slab	6.4%	-	4.8%	5.1%	14.7%	13.3%	4.6%	-	5.4%	3.8%	13.7%	4.3%	4.6%	-
In some other way	0.9%	-	0.8%	-	1.4%	-	<0.1%	-	<0.1%	-	<0.1%	-	0.3%	-
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EXTERIOR														
External Building Conditions(non multiunit)														
Sagging roof	3.7%	-	2.5%	-	10.1%	3.6%	22.7%	8.2%	12.8%	13.9%	9.1%	4.1%	8.3%	3.4%
Missing roofing material	6.3%	2.4%	5.2%	2.1%	12.1%	4.5%	18.6%	11.2%	12.9%	9.6%	13.9%	4.1%	12.0%	4.6%
Hole in roof	2.5%	-	1.7%	-	7.1%	2.7%	26.5%	8.2%	17.8%	10.6%	9.7%	2.5%	6.6%	3.1%
Missing bricks, siding, other outside wall material	4.5%	-	3.8%	-	7.8%	-	12.4%	7.3%	9.2%	13.9%	9.1%	6.1%	12.2%	5.4%
Sloping outside walls	1.8%	-	1.5%	-	3.1%	-	19.6%	<0.1%	<0.1%	14.2%	5.6%	2.7%	4.3%	-
Boarded up windows	0.8%	-	0.5%	-	2.4%	-	12.4%	4.0%	<0.1%	10.1%	3.3%	-	3.0%	-
Broken windows	4.0%	-	3.6%	-	6.3%	8.3%	10.5%	7.3%	21.4%	14.9%	10.2%	5.8%	9.1%	6.7%
Bars on windows	4.2%	-	3.7%	-	6.8%	9.7%	18.2%	8.2%	4.1%	18.5%	7.1%	11.5%	17.2%	-
Foundation crumbling or has open crack or hole	4.1%	-	3.0%	-	9.8%	4.2%	21.4%	<0.1%	13.4%	24.8%	8.2%	5.5%	11.6%	3.4%
None of the above	78.6%	83.0%	80.5%	84.6%	68.0%	72.0%	55.8%	77.8%	46.3%	39.6%	63.8%	70.7%	56.0%	66.6%
None of the above(excluding bars)	81.0%	86.2%	83.1%	87.6%	69.5%	77.1%	62.6%	85.6%	46.3%	-	66.6%	78.3%	65.2%	77.5%

<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>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>
	Water Leakage During Last 12 Months													
With leakage from outside structure	17.7%	12.7%	19.3%	13.3%	13.7%	11.0%	32.0%	13.0%	61.8%	53.5%	18.9%	13.6%	21.2%	16.8%
Roof	7.4%	5.8%	7.5%	6.3%	7.1%	4.3%	24.3%	13.0%	50.5%	33.0%	11.1%	6.2%	9.8%	-
Basement leak	9.7%	7.3%	11.2%	7.5%	5.8%	6.7%	2.7%	-	40.5%	33.7%	8.0%	6.4%	13.4%	10.0%
Walls, closed windows, or doors leak	3.0%	-	2.6%	-	3.8%	-	11.3%	<0.1%	22.7%	-	5.0%	-	4.2%	-
Other or Unknown exterior Leak	1.3%	-	1.5%	-	0.8%	-	3.1%	-	6.8%	8.1%	1.1%	-	0.8%	-
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INTERIOR														
Damage														
Holes in floors	0.9%	-	0.7%	-	1.4%	-	13.0%	7.9%	11.5%	10.6%	2.1%	-	1.7%	-
Open cracks or holes	7.1%	5.0%	6.1%	3.1%	9.5%	10.3%	34.6%	15.9%	62.5%	48.4%	13.2%	8.4%	12.5%	10.7%
Broken plaster or peeling paint	3.2%	-	2.8%	-	4.2%	-	16.0%	10.6%	38.5%	34.6%	5.9%	6.4%	8.1%	7.1%
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Water Leakage During Last 12 Months														
With leakage from inside structure	12.4%	9.8%	10.7%	8.0%	16.6%	14.6%	36.8%	13.1%	55.1%	51.5%	17.1%	10.6%	16.7%	12.3%
Fixtures backed up or overflowed	3.0%	-	2.2%	-	5.0%	4.0%	8.8%	5.6%	33.8%	22.3%	4.8%	-	4.7%	5.8%
Pipes leaked	4.7%	-	3.6%	-	7.6%	8.5%	24.6%	6.1%	32.5%	-	8.0%	6.5%	8.0%	4.8%
Broken water heater	1.1%	-	1.2%	-	0.9%	-	3.9%	6.1%	<0.1%	4.6%	2.5%	-	1.0%	-
Other or Unknown	5.0%	3.0%	4.7%	-	6.0%	3.6%	15.0%	5.7%	25.7%	-	5.4%	3.2%	6.2%	3.7%
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Rodents														
Signs of rats in last 3 mon.	0.2%	-	0.1%	-	0.6%	-	7.9%	3.2%	<0.1%	3.1%	1.3%	-	1.1%	-

<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>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>
Signs of mice in last 3 mon.	5.2%	4.5%	5.2%	4.4%	5.3%	4.9%	7.1%	7.7%	3.4%	26.7%	5.0%	9.6%	8.9%	-
Signs of rodents, not sure which kind in last 3 mon.	0.3%	-	0.1%	-	0.7%	-	<0.1%	-	<0.1%	7.0%	1.2%	-	1.0%	-
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Electrical														
No electrical wiring	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Exposed wiring	0.4%	-	0.2%	-	1.0%	-	8.6%	2.7%	2.6%	-	1.6%	-	1.3%	-
Rooms without electric outlets	1.4%	-	1.1%	-	2.2%	-	8.6%	5.6%	7.3%	2.3%	3.2%	-	3.7%	-
Fuses/breakers blown in last 3 mon.	12.0%	12.8%	12.6%	-	10.6%	12.7%	29.9%	10.2%	27.7%	45.2%	11.3%	17.1%	11.2%	12.9%
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Sanitation														
Lacking complete kitchen facilities	0.6%	-	0.1%	-	2.0%	-	6.1%	4.7%	25.6%	34.2%	1.8%	-	1.2%	-
Lacking some or all plumbing facilities	0.9%	-	0.7%	-	1.4%	-	42.3%	62.4%	<0.1%	-	2.2%	-	2.0%	-
Water not safe to drink	4.3%	5.5%	3.9%	-	5.1%	7.6%	6.5%	3.2%	8.1%	14.0%	6.9%	6.0%	4.8%	-
Water stoppage in last 3 mon.	4.0%	5.3%	3.8%	-	4.6%	6.2%	16.3%	2.2%	17.1%	5.0%	6.1%	3.1%	3.1%	5.4%
No flush toilets working some time in last 3 mon.	2.3%	-	1.4%	-	4.6%	-	6.4%	5.2%	33.6%	19.1%	5.7%	4.8%	3.7%	-
With sewage disposal breakdowns in last 3 mon.	2.2%	-	2.0%	-	2.6%	-	6.1%	5.2%	13.7%	4.9%	4.3%	5.1%	5.2%	3.6%
Septic tank, cesspool, chemical toilet	11.2%	9.7%	14.6%	12.2%	2.6%	-	6.0%	6.7%	3.2%	-	5.4%	4.0%	0.3%	-
With septic tank or cesspool breakdowns in last 3 mon.	<0.1%	-	0.1%	-	<0.1%	0.2%	<0.1%	2.2%	<0.1%	2.3%	<0.1%	0.5%	<0.1%	-
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HEATING/FUEL														
Main Heating Equipment														
Warm-air furnace	89.4%	-	92.3%	-	81.9%	-	79.2%	87.5%	83.0%	72.9%	81.6%	-	83.1%	-

<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>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>
Steam or hot water system	7.0%	7.6%	5.3%	5.8%	11.3%	12.7%	15.9%	7.5%	14.4%	9.8%	13.3%	12.2%	12.0%	-
Electric heat pump	0.6%	-	0.1%	-	2.0%	-	<0.1%	-	<0.1%	6.0%	0.8%	-	1.1%	-
Built-in electric units	0.9%	-	0.6%	-	1.9%	-	2.4%	-	<0.1%	2.3%	1.5%	-	0.7%	-
Floor, wall, or other built-in hot air without ducts	1.2%	-	0.8%	-	2.1%	-	<0.1%	2.3%	<0.1%	7.0%	1.0%	-	2.4%	-
Room heaters with flue	0.2%	-	0.2%	-	0.3%	-	<0.1%	-	<0.1%	-	0.5%	-	<0.1%	0.3%
Room heaters without flue	0.1%	-	0.1%	-	<0.1%	-	<0.1%	-	2.6%	-	0.3%	-	0.2%	-
Portable electric heaters	0.2%	-	0.3%	-	<0.1%	-	2.5%	-	<0.1%	-	0.3%	-	0.5%	-
Stoves	0.2%	-	0.2%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	0.3%	<0.1%	0.2%
Fireplace with inserts	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Other	0.2%	-	0.1%	-	0.4%	-	<0.1%	-	<0.1%	-	0.7%	-	<0.1%	-
No heating equipment	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
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Water Heating Fuel														
Electricity	15.6%	13.8%	11.5%	-	26.0%	22.1%	15.5%	12.4%	15.2%	22.0%	18.6%	-	13.2%	11.6%
Gas, LP/bottled gas	84.4%	-	88.5%	-	74.0%	77.7%	84.5%	-	84.8%	78.0%	81.4%	-	86.8%	-
Fuel oil	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
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Clothes Dryer(,000)	1,306	1,414	1,078	1,215	227	199	19	27	16	28	174	128	252	295
Have Clothes Dryer	84.6%	-	97.2%	-	52.3%	44.5%	57.2%	66.0%	55.3%	59.9%	65.7%	60.3%	74.3%	-
Electricity	37.9%	35.5%	35.3%	-	49.9%	45.8%	49.1%	34.2%	24.8%	47.5%	40.6%	-	34.1%	29.2%
Gas, LP gas (liquid propane)	62.1%	-	64.7%	-	50.1%	54.2%	50.9%	65.8%	75.2%	52.5%	59.4%	-	65.9%	70.8%
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Heating Problems														
Uncomfortably cold for 24 hours or more last winter	16.8%	13.4%	16.2%	12.3%	18.8%	17.6%	70.7%	32.9%	37.2%	-	27.1%	15.6%	21.9%	17.4%
Heating equipment breakdowns	5.8%	4.2%	4.9%	-	8.0%	6.0%	55.4%	28.7%	20.8%	-	11.9%	6.9%	9.7%	6.6%
Other causes	10.7%	8.5%	11.3%	8.6%	9.3%	8.1%	23.0%	8.3%	11.6%	14.7%	13.0%	6.4%	12.5%	8.9%

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003	2009	2003
Utility interruption	4.4%	-	5.5%	-	1.5%	-	2.4%	5.5%	<0.1%	5.1%	3.4%	-	2.9%	-
Inadequate heating capacity	1.4%	-	0.9%	-	2.6%	-	12.4%	3.1%	3.0%	-	3.0%	-	2.3%	-
Inadequate insulation	2.0%	-	1.5%	-	3.2%	-	9.0%	<0.1%	3.0%	5.9%	1.1%	-	3.9%	-
Cost of heating	2.3%	-	2.6%	-	1.5%	-	<0.1%	-	9.1%	2.9%	4.0%	-	3.1%	-
Other	2.5%	-	2.4%	-	2.7%	-	9.1%	<0.1%	<0.1%	5.2%	4.1%	-	3.9%	-
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SELECTED PHYSICAL PROBLEMS														
Severe Physical Problems(,000)	33	41	15	27	18	15	33	41	.	.	18	8	17	16
Severe physical problems	2.1%	-	1.3%	-	4.2%	-	100%	-	.	.	6.7%	3.9%	5.1%	3.9%
Plumbing	0.9%	-	0.7%	-	1.4%	-	42.3%	62.4%	.	.	2.2%	-	2.0%	-
Heating	1.0%	-	0.5%	-	2.2%	-	47.8%	28.7%	.	.	3.9%	-	2.4%	-
Electric	0.1%	-	0.1%	-	<0.1%	-	2.5%	-	.	.	0.3%	-	0.2%	-
Hallways	<0.1%	-	<0.1%	-	<0.1%	0.2%	<0.1%	2.5%	.	.	<0.1%	-	<0.1%	-
Upkeep	0.2%	-	0.1%	-	0.5%	-	9.9%	5.7%	.	.	0.6%	-	0.7%	-
Moderate Physical Problems(,000)	30	46	13	18	17	28	.	.	30	46	14	16	14	20
Moderate physical problems	1.9%	-	1.1%	-	4.0%	6.4%	.	.	100%	-	5.2%	7.6%	4.0%	-
Plumbing	0.3%	-	0.2%	-	0.6%	-	.	.	16.4%	12.3%	0.9%	-	0.2%	-
Heating	0.1%	-	0.1%	-	<0.1%	-	.	.	2.6%	-	0.3%	-	0.2%	-
Upkeep	0.5%	-	0.1%	-	1.5%	-	.	.	25.6%	34.2%	1.4%	-	0.7%	-
Hallways	<0.1%	-	<0.1%	-	<0.1%	0.5%	.	.	<0.1%	4.9%	<0.1%	-	<0.1%	-
Kitchen	1.2%	-	0.8%	-	2.1%	-	.	.	60.5%	52.0%	2.9%	-	3.0%	-
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OVERALL OPINION OF STRUCTURE														
1(worst)	0.5%	-	0.3%	-	0.9%	-	2.7%	-	2.6%	-	1.2%	-	1.0%	-

<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>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>	<i>2009</i>	<i>2003</i>
	2	0.2%	-	0.1%	-	0.4%	-	5.4%	0.1%	<0.1%	-	0.7%	-	0.5%
3	0.7%	-	0.5%	-	1.4%	-	<0.1%	-	7.0%	4.8%	1.2%	-	0.2%	-
4	1.2%	-	0.7%	-	2.3%	-	13.1%	0.1%	5.1%	12.1%	2.8%	-	1.9%	-
5	4.6%	5.2%	3.7%	-	6.8%	11.2%	9.9%	12.4%	20.9%	13.2%	10.7%	5.1%	10.1%	7.7%
6	5.2%	4.5%	4.1%	-	7.9%	5.7%	5.3%	2.8%	11.5%	2.7%	4.8%	-	6.4%	4.3%
7	14.7%	-	14.7%	13.7%	14.9%	16.5%	26.5%	-	12.6%	22.2%	13.8%	12.8%	18.8%	17.7%
8	26.3%	28.0%	26.9%	28.6%	25.0%	26.3%	15.4%	22.4%	10.6%	22.4%	22.1%	27.4%	25.2%	27.1%
9	15.2%	-	16.6%	-	11.5%	10.6%	10.1%	7.5%	12.9%	6.0%	9.0%	10.5%	7.2%	11.2%
10(best)	31.4%	-	32.4%	-	28.9%	24.3%	11.7%	26.3%	16.8%	-	33.9%	31.9%	28.9%	27.3%

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