

**American Housing Survey - Selected Elements Related to Healthy Homes
Phoenix, AZ in 2011 and 2002**

2002 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	2002	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002
Total Occupied Units(,000)	1,524	1,166	971	810	554	355	14	15	38	47	249	114	624	342
GENERAL														
Owner occupied(,000)	971	810	971	810	.	.	5	6	19	15	88	50	371	198
Renter occupied(,000)	554	355	.	.	554	355	9	9	19	32	161	64	253	145
Owner occupied	63.7%	69.5%	100%	-	.	.	36.3%	38.3%	49.5%	32.4%	35.2%	43.9%	59.5%	-
Renter occupied	36.3%	30.5%	.	.	100%	-	63.7%	-	50.5%	67.6%	64.8%	56.1%	40.5%	-
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Units in Structure														
1, detached	65.2%	-	82.4%	-	34.9%	21.0%	42.8%	-	47.0%	26.8%	45.2%	38.6%	60.9%	55.8%
1, attached	7.6%	10.0%	6.6%	5.5%	9.4%	20.2%	4.7%	12.5%	<0.1%	7.1%	11.0%	14.1%	8.9%	11.2%
2 to 4	4.5%	-	0.5%	-	11.4%	9.3%	7.1%	8.9%	5.3%	9.3%	9.4%	8.5%	4.9%	-
5 to 9	5.6%	4.6%	1.3%	-	13.3%	-	20.2%	3.3%	14.8%	12.2%	6.4%	-	6.2%	-
10 to 19	6.0%	4.7%	0.4%	-	15.8%	14.8%	11.5%	8.8%	12.3%	18.1%	9.3%	6.4%	7.3%	5.0%
20 to 49	3.5%	-	0.6%	-	8.6%	11.8%	2.0%	10.8%	5.5%	12.3%	6.7%	7.6%	4.3%	7.4%
50 or more	2.4%	-	0.6%	-	5.6%	-	3.4%	7.9%	3.6%	8.4%	4.8%	-	3.0%	-
Manufactured /mobile home or trailer	5.2%	6.3%	7.5%	-	1.0%	-	8.3%	3.5%	11.6%	5.7%	7.3%	13.7%	4.6%	5.9%
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Year Structure Built														
Post-2000	19.9%	8.1%	21.5%	9.3%	17.0%	5.2%	4.6%	6.1%	11.5%	4.0%	14.0%	4.6%	14.2%	2.6%
Post-1980	59.7%	-	59.8%	-	59.6%	54.2%	43.5%	19.9%	44.6%	37.5%	45.7%	41.8%	46.9%	32.2%
Pre-1980	40.3%	43.0%	40.2%	-	40.4%	45.8%	56.5%	80.1%	55.4%	62.5%	54.3%	58.2%	53.1%	67.8%
Pre-1960	9.2%	10.1%	9.2%	-	9.2%	12.1%	6.9%	32.7%	16.1%	18.4%	14.0%	15.2%	15.9%	23.9%
Pre-1940	0.9%	-	1.0%	-	0.6%	-	<0.1%	4.4%	0.8%	-	1.4%	-	1.4%	-

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002
	Foundation (for 1-unit not manufactured)													
1-Unit not manufactured(,000)	1,110	873	864	726	245	147	7	9	18	16	140	60	435	229
With a basement under all of house	0.2%	-	0.3%	-	0.1%	-	<0.1%	-	<0.1%	2.9%	<0.1%	0.5%	0.1%	-
With a basement under part of house	0.8%	-	1.1%	-	<0.1%	1.3%	<0.1%	5.2%	1.8%	-	<0.1%	1.3%	0.6%	-
With a crawl space	0.6%	-	0.6%	-	0.9%	-	<0.1%	6.6%	<0.1%	-	0.2%	-	0.5%	-
On a concrete slab	97.6%	-	97.5%	-	98.2%	-	100%	85.9%	98.2%	91.2%	98.1%	-	97.7%	-
In some other way	0.6%	-	0.6%	-	0.8%	-	<0.1%	2.3%	<0.1%	5.9%	1.7%	-	1.1%	-
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EXTERIOR														
External Building Conditions(non multiunit)														
Sagging roof	1.6%	-	1.8%	-	0.7%	-	3.3%	6.2%	13.1%	18.6%	3.1%	-	2.6%	5.5%
Missing roofing material	5.2%	3.7%	5.1%	3.5%	5.4%	4.8%	33.2%	14.7%	6.9%	20.4%	8.3%	7.3%	4.3%	6.4%
Hole in roof	1.6%	-	1.1%	-	3.3%	-	30.1%	6.8%	2.8%	14.6%	4.1%	-	1.9%	-
Missing bricks, siding, other outside wall material	1.7%	-	1.2%	-	3.3%	-	3.3%	13.7%	8.4%	7.9%	1.2%	-	2.4%	-
Sloping outside walls	0.6%	-	0.5%	-	1.2%	-	3.3%	-	10.3%	5.3%	1.4%	-	0.8%	-
Boarded up windows	1.1%	-	1.1%	-	1.0%	-	18.2%	6.1%	14.1%	7.1%	1.5%	-	1.1%	-
Broken windows	6.0%	4.9%	6.1%	4.1%	5.5%	8.6%	33.2%	6.1%	14.3%	29.5%	11.7%	12.8%	6.7%	9.6%
Bars on windows	6.6%	5.3%	6.5%	5.4%	6.8%	4.8%	8.6%	20.8%	15.0%	12.9%	11.6%	7.2%	9.7%	11.7%
Foundation crumbling or has open crack or hole	4.5%	-	4.4%	-	5.0%	2.4%	3.3%	8.6%	8.0%	3.5%	9.0%	2.5%	5.7%	2.4%
None of the above	78.2%	82.4%	78.5%	83.6%	77.1%	-	51.0%	-	50.6%	39.1%	66.8%	73.3%	73.9%	66.5%
None of the above(excluding bars)	83.0%	-	83.4%	88.0%	81.6%	-	59.6%	69.6%	54.7%	46.7%	73.3%	77.3%	81.1%	74.9%

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002
	Water Leakage During Last 12 Months													
With leakage from outside structure	7.9%	5.2%	8.2%	4.7%	7.2%	6.3%	36.3%	19.0%	34.2%	18.2%	8.1%	8.8%	9.0%	-
Roof	5.5%	4.0%	6.2%	3.9%	4.4%	-	23.7%	11.1%	15.3%	-	4.7%	7.2%	6.2%	7.0%
Basement leak	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Walls, closed windows, or doors leak	1.6%	-	1.7%	-	1.5%	-	<0.1%	5.3%	17.6%	3.1%	1.3%	-	2.3%	-
Other or Unknown exterior Leak	1.0%	-	0.6%	-	1.5%	-	12.6%	5.3%	2.8%	-	2.3%	-	0.8%	-
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INTERIOR														
Damage														
Holes in floors	1.1%	-	1.0%	-	1.4%	-	16.8%	7.8%	16.8%	5.4%	1.6%	-	1.8%	-
Open cracks or holes	4.4%	-	3.6%	-	5.8%	6.2%	13.9%	18.4%	24.0%	-	6.7%	-	5.0%	6.6%
Broken plaster or peeling paint	1.4%	-	0.9%	-	2.4%	-	7.8%	11.4%	11.6%	13.8%	3.9%	-	2.2%	-
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Water Leakage During Last 12 Months														
With leakage from inside structure	8.2%	9.4%	6.7%	8.1%	10.9%	12.4%	22.2%	-	29.9%	25.4%	9.8%	13.9%	8.1%	13.9%
Fixtures backed up or overflowed	2.0%	-	1.4%	-	2.9%	-	1.9%	10.9%	8.5%	12.4%	0.9%	6.4%	2.3%	5.9%
Pipes leaked	3.7%	-	2.5%	-	5.7%	6.7%	17.8%	9.8%	16.3%	13.2%	6.3%	-	4.3%	6.7%
Broken water heater	0.9%	-	1.3%	-	0.2%	-	2.6%	-	1.8%	-	0.5%	-	0.2%	-
Other or Unknown	1.9%	-	1.6%	-	2.5%	-	<0.1%	7.1%	5.8%	3.6%	2.3%	-	1.6%	-
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Rodents														
Signs of rats in last 3 mon.	0.6%	-	0.4%	-	1.0%	-	4.4%	-	4.2%	-	1.0%	-	1.2%	-

<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>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>
Signs of mice in last 3 mon.	1.8%	-	1.9%	-	1.6%	-	1.8%	5.1%	5.0%	10.3%	2.8%	5.9%	2.8%	-
Signs of rodents, not sure which kind in last 3 mon.	0.1%	-	0.2%	-	<0.1%	-	<0.1%	-	<0.1%	1.1%	0.1%	-	0.1%	-
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Electrical														
No electrical wiring	<0.1%	-	<0.1%	-	0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	0.1%	-
Exposed wiring	3.3%	-	3.0%	-	3.7%	-	1.3%	-	2.7%	-	5.1%	1.2%	4.3%	-
Rooms without electric outlets	0.8%	-	0.6%	-	1.2%	-	<0.1%	1.7%	1.0%	-	2.2%	-	0.7%	-
Fuses/breakers blown in last 3 mon.	11.8%	10.9%	13.1%	11.1%	9.4%	10.4%	22.2%	11.7%	18.7%	17.1%	8.6%	10.0%	11.5%	10.1%
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Sanitation														
Lacking complete kitchen facilities	1.4%	-	1.2%	-	1.9%	7.3%	5.7%	10.9%	56.4%	64.7%	2.4%	7.7%	2.3%	-
Lacking some or all plumbing facilities	0.6%	-	0.4%	-	1.0%	-	67.4%	-	<0.1%	-	0.6%	-	0.9%	-
Water not safe to drink	18.4%	27.2%	16.1%	23.3%	22.6%	36.3%	36.1%	55.0%	29.6%	43.7%	30.6%	41.2%	24.4%	38.0%
Water stoppage in last 3 mon.	3.4%	5.7%	1.9%	-	6.0%	10.9%	3.9%	10.5%	7.5%	10.6%	4.2%	7.4%	3.4%	7.9%
No flush toilets working some time in last 3 mon.	2.0%	-	1.4%	-	3.2%	5.8%	3.5%	13.4%	6.5%	16.5%	3.2%	6.6%	2.4%	5.2%
With sewage disposal breakdowns in last 3 mon.	1.6%	-	1.3%	-	2.0%	-	14.3%	-	4.2%	6.1%	3.2%	-	2.6%	-
Septic tank, cesspool, chemical toilet	3.5%	-	4.5%	6.3%	1.8%	-	4.4%	-	1.4%	6.2%	4.8%	5.4%	1.1%	-
With septic tank or cesspool breakdowns in last 3 mon.	<0.1%	-	0.1%	-	<0.1%	0.4%	<0.1%	-	<0.1%	0.4%	<0.1%	-	<0.1%	0.3%
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HEATING/FUEL														
Main Heating Equipment														
Warm-air furnace	49.3%	42.9%	49.9%	45.5%	48.3%	37.0%	47.6%	50.5%	26.7%	28.8%	52.2%	44.5%	52.5%	46.0%

Characteristic	Occupied		Owner Occupied		Rental		Severe Problems		Moderate Problems		Below Poverty		Central City	
	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002	2011	2002
Steam or hot water system	0.1%	-	<0.1%	0.2%	0.4%	-	<0.1%	-	<0.1%	1.5%	0.1%	-	0.3%	-
Electric heat pump	47.1%	52.3%	47.0%	51.4%	47.2%	54.3%	47.6%	30.2%	47.1%	53.2%	38.1%	43.6%	43.1%	-
Built-in electric units	0.1%	-	<0.1%	-	0.2%	-	<0.1%	-	<0.1%	-	0.2%	-	<0.1%	-
Floor, wall, or other built-in hot air without ducts	1.3%	-	0.8%	-	2.2%	-	1.3%	5.7%	5.5%	4.9%	4.1%	-	1.3%	-
Room heaters with flue	0.1%	-	0.2%	-	<0.1%	0.8%	<0.1%	4.7%	<0.1%	-	<0.1%	0.6%	0.2%	-
Room heaters without flue	0.3%	-	0.1%	-	0.6%	-	<0.1%	1.3%	10.1%	7.6%	0.2%	-	0.1%	-
Portable electric heaters	1.1%	-	1.3%	-	0.7%	-	1.8%	7.5%	1.4%	-	4.2%	-	1.4%	-
Stoves	0.1%	-	0.2%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	0.3%	-
Fireplace without inserts	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	0.3%	<0.1%	-
Other	0.3%	-	0.4%	-	0.3%	-	<0.1%	-	7.5%	0.2%	0.9%	-	0.5%	-
No heating equipment	0.2%	-	0.1%	-	0.2%	-	1.7%	-	1.7%	-	0.1%	-	0.2%	-
Cooking stove	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
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Water Heating Fuel														
Electricity	63.6%	-	57.7%	-	73.8%	-	72.4%	61.0%	55.8%	62.5%	68.0%	57.5%	60.4%	53.4%
Gas, LP/bottled gas	35.5%	37.4%	40.9%	-	26.0%	27.9%	27.6%	39.0%	43.3%	36.0%	31.5%	42.0%	38.8%	45.4%
Fuel oil	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-
Other	1.0%	-	1.4%	-	0.2%	-	<0.1%	-	0.9%	-	0.5%	-	0.8%	-
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Clothes Dryer(,000)	1,275	933	916	753	360	180	8	7	21	22	158	59	481	224
Have Clothes Dryer	83.7%	-	94.3%	-	65.0%	50.5%	56.9%	43.3%	55.6%	46.1%	63.3%	51.4%	77.1%	65.5%
Electricity	87.4%	-	85.2%	-	93.0%	-	93.8%	68.4%	81.3%	88.1%	92.2%	-	85.1%	-
Gas, LP gas (liquid propane)	12.6%	13.4%	14.8%	-	7.0%	7.8%	6.2%	31.6%	18.7%	11.9%	7.8%	11.7%	14.9%	18.7%
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Heating Problems														
Uncomfortably cold for 24 hours or more last winter	4.2%	-	3.5%	-	5.8%	4.4%	47.9%	-	8.3%	7.5%	7.0%	4.7%	5.9%	5.6%

<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>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>
Heating equipment breakdowns	1.1%	-	0.7%	-	1.7%	-	30.0%	34.2%	1.3%	-	1.3%	-	1.2%	-
Other causes	2.5%	-	2.7%	-	2.3%	-	2.9%	6.4%	5.7%	5.2%	3.9%	-	3.7%	-
Utility interruption	0.2%	-	0.2%	-	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	0.4%	-
Inadequate heating capacity	0.5%	-	0.4%	-	0.6%	-	1.3%	-	4.7%	-	1.0%	-	0.8%	-
Inadequate insulation	0.2%	-	0.1%	-	0.3%	-	<0.1%	3.4%	<0.1%	-	0.1%	-	0.1%	-
Cost of heating	0.9%	-	1.0%	-	0.8%	-	1.6%	-	<0.1%	1.7%	0.9%	-	1.5%	-
Other	0.8%	-	0.9%	-	0.7%	-	<0.1%	-	1.0%	-	1.9%	-	1.0%	-

SELECTED PHYSICAL PROBLEMS

Severe Physical Problems(,000)	14	15	5	6	9	9	14	15	.	.	5	3	8	9
Severe physical problems	0.9%	-	0.5%	-	1.7%	-	100%	-	.	.	1.9%	-	1.3%	-
Plumbing	0.6%	-	0.4%	-	1.0%	-	67.4%	-	.	.	0.6%	-	0.9%	-
Heating	0.3%	-	0.1%	-	0.6%	-	30.0%	-	.	.	1.1%	-	0.4%	-
Electric	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	3.3%	.	.	<0.1%	0.2%	<0.1%	-
Hallways	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	-	.	.	<0.1%	-	<0.1%	-
Upkeep	<0.1%	-	0.1%	-	<0.1%	-	4.4%	-	.	.	0.1%	-	<0.1%	-
Moderate Physical Problems(,000)	38	47	19	15	19	32	.	.	38	47	8	13	23	19
Moderate physical problems	2.5%	-	1.9%	-	3.4%	8.9%	.	.	100%	-	3.3%	11.4%	3.7%	5.5%
Plumbing	0.1%	-	0.1%	-	0.3%	-	.	.	5.8%	8.2%	0.3%	-	0.2%	-
Heating	0.3%	-	0.1%	-	0.6%	-	.	.	10.1%	7.6%	0.2%	-	0.1%	-
Upkeep	1.4%	-	1.2%	-	1.8%	6.8%	.	.	56.4%	64.7%	2.2%	6.9%	2.2%	-
Hallways	<0.1%	-	<0.1%	-	<0.1%	0.2%	.	.	<0.1%	1.4%	<0.1%	-	<0.1%	-
Kitchen	0.7%	-	0.7%	-	0.8%	-	.	.	29.5%	21.8%	0.7%	-	1.2%	-

<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>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>	<i>2011</i>	<i>2002</i>
OVERALL OPINION OF STRUCTURE														
1(worst)	0.4%	-	0.1%	-	0.8%	-	1.6%	-	2.1%	6.2%	0.3%	-	0.4%	-
2	0.6%	-	0.1%	-	1.5%	-	<0.1%	1.4%	<0.1%	1.5%	1.2%	-	0.9%	-
3	1.1%	-	0.3%	-	2.5%	-	14.9%	3.1%	5.5%	4.1%	3.0%	-	1.0%	-
4	0.9%	-	0.5%	-	1.5%	-	2.6%	-	6.3%	2.9%	2.4%	-	1.0%	-
5	4.8%	5.1%	2.8%	-	8.3%	10.2%	27.3%	10.9%	8.6%	13.5%	9.7%	-	5.4%	8.7%
6	4.2%	-	2.9%	-	6.6%	7.8%	6.9%	17.1%	6.3%	9.2%	7.7%	5.6%	5.0%	6.4%
7	13.4%	14.6%	10.1%	12.2%	19.0%	-	3.9%	18.1%	27.4%	17.8%	11.0%	14.3%	12.9%	16.7%
8	27.8%	29.5%	28.2%	30.1%	27.0%	-	15.2%	18.1%	23.3%	19.7%	26.1%	23.4%	29.5%	-
9	16.0%	-	18.1%	-	12.5%	-	7.8%	7.0%	5.0%	10.3%	11.1%	13.0%	15.6%	12.5%
10(best)	30.9%	27.3%	36.8%	32.8%	20.4%	14.8%	19.9%	17.2%	15.5%	14.6%	27.6%	-	28.3%	22.2%

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