

**American Housing Survey - Selected Elements Related to Health Homes
2002 Kansas City, MO-KS and 2003 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)	697	105,842	487	72,238	210	33,604	13	1,970	19	4,316	66	13,741	178	31,213
GENERAL														
Owner occupied(,000)	487	72,238	487	72,238	.	.	9	932	8	1,795	28	5,868	105	16,093
Renter occupied(,000)	210	33,604	.	.	210	33,604	4	1,039	11	2,521	39	7,873	73	15,119
Owner occupied	69.8%	-	100%	-	<0.1%	<0.1%	67.8%	47.3%	42.4%	-	41.9%	-	58.9%	-
Renter occupied	30.2%	-	<0.1%	<0.1%	100%	-	32.2%	52.7%	57.6%	-	58.1%	-	41.1%	-
Units in Structure														
1, detached	72.9%	-	92.1%	-	28.5%	-	73.7%	46.8%	56.8%	-	54.7%	-	67.1%	49.7%
1, attached	12.4%	5.9%	3.7%	5.1%	32.5%	7.7%	10.6%	6.4%	6.8%	3.1%	19.3%	6.2%	13.2%	8.1%
2 to 4	3.1%	7.9%	0.8%	2.0%	8.6%	20.8%	1.6%	12.1%	10.0%	16.4%	4.8%	13.1%	4.4%	13.2%
5 to 9	3.0%	4.8%	0.3%	0.7%	9.3%	13.7%	<0.1%	8.8%	7.6%	9.3%	4.8%	8.9%	4.0%	7.8%
10 to 19	3.2%	4.2%	<0.1%	0.7%	10.5%	-	4.6%	5.9%	6.0%	7.7%	6.3%	-	4.6%	6.5%
20 to 49	1.4%	3.1%	<0.1%	0.5%	4.5%	8.6%	<0.1%	6.9%	4.0%	5.7%	2.0%	5.1%	2.7%	6.0%
50 or more	1.5%	3.5%	0.1%	0.8%	4.8%	9.2%	1.3%	8.0%	1.8%	5.2%	5.1%	6.1%	3.3%	7.8%
Manufactured /mobile home or trailer	2.4%	6.5%	2.9%	7.6%	1.3%	4.0%	8.3%	5.2%	7.0%	-	3.0%	9.3%	0.9%	-
Year Structure Built														
Post-2000	4.7%	-	4.8%	5.9%	4.4%	2.9%	4.2%	1.3%	2.0%	-	2.1%	2.6%	2.5%	-
Post-1980	35.6%	-	37.6%	-	31.2%	-	25.0%	16.9%	13.7%	-	23.1%	-	23.0%	-
Pre-1980	64.4%	-	62.4%	-	68.8%	-	75.0%	-	86.3%	-	76.9%	-	77.0%	-
Pre-1960	32.3%	-	32.4%	-	32.0%	39.2%	34.5%	52.1%	52.2%	-	46.2%	-	50.3%	-
Pre-1940	12.8%	17.5%	12.3%	15.2%	14.0%	22.2%	13.3%	29.8%	27.1%	-	25.4%	-	24.3%	-

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Foundation (for 1-unit not manufactured)														
1-Unit not manufactured(,000)	595	74,026	467	63,322	128	10,704	11	1,047	12	2,138	49	7,035	143	18,035
With a basement under all of house	63.4%	33.0%	69.6%	34.6%	41.0%	23.7%	62.1%	31.4%	60.0%	16.5%	57.1%	26.5%	65.8%	33.0%
With a basement under part of house	16.9%	11.6%	18.7%	12.2%	10.0%	-	17.4%	11.1%	16.7%	8.6%	12.1%	8.4%	15.6%	8.5%
With a crawl space	7.3%	25.5%	6.5%	24.5%	10.3%	31.4%	11.7%	31.8%	14.2%	54.1%	7.2%	35.0%	5.3%	24.4%
On a concrete slab	11.5%	29.3%	4.8%	28.3%	36.0%	-	7.2%	23.3%	9.2%	19.8%	20.9%	29.1%	11.9%	33.6%
In some other way	0.9%	0.6%	0.4%	-	2.7%	1.1%	1.7%	2.4%	<0.1%	0.9%	2.6%	1.0%	1.3%	0.5%
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EXTERIOR														
External Building Conditions														
Sagging roof	2.5%	-	2.4%	1.9%	2.7%	-	2.9%	8.5%	13.1%	9.8%	3.8%	-	2.4%	-
Missing roofing material	4.2%	-	4.0%	2.9%	4.7%	-	9.0%	-	14.9%	9.6%	5.4%	-	4.2%	-
Hole in roof	2.0%	-	1.6%	-	3.1%	-	5.9%	8.1%	15.2%	9.1%	3.0%	-	2.1%	-
Missing bricks, siding, other outside wall material	2.7%	-	2.4%	-	3.6%	-	4.3%	9.5%	15.6%	11.3%	2.7%	5.4%	3.6%	-
Sloping outside walls	1.8%	1.4%	1.6%	1.0%	2.3%	-	4.9%	-	9.5%	7.5%	2.7%	-	2.0%	-
Boarded up windows	1.0%	-	0.8%	-	1.4%	-	5.8%	3.5%	4.5%	-	1.2%	2.5%	1.8%	-
Broken windows	4.1%	-	4.0%	3.0%	4.4%	-	10.0%	-	20.6%	12.4%	4.9%	6.9%	5.1%	-
Bars on windows	3.5%	-	3.3%	-	4.2%	6.6%	<0.1%	7.8%	11.2%	8.4%	6.2%	-	7.8%	10.1%
Foundation crumbling or has open crack or hole	4.1%	2.6%	3.9%	2.2%	4.5%	3.5%	10.5%	-	26.2%	10.8%	6.0%	4.3%	4.1%	3.1%
None of the above	79.6%	-	81.7%	-	74.6%	-	69.4%	-	43.8%	57.3%	70.5%	-	74.5%	-

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<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>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>	<i>MSA</i>	<i>National</i>
Water Leakage During Last 12 Months														
With leakage from outside structure	15.1%	10.5%	15.8%	11.1%	13.4%	9.3%	12.7%	16.1%	51.4%	29.5%	10.0%	-	15.0%	10.0%
Roof	5.9%	-	5.9%	-	6.1%	-	8.8%	10.9%	30.2%	20.1%	4.4%	6.1%	6.7%	5.3%
Basement	7.1%	3.6%	8.0%	4.5%	5.1%	1.8%	4.7%	3.3%	27.6%	6.0%	3.3%	2.1%	7.2%	2.9%
Walls, closed windows, or doors	3.8%	2.1%	3.7%	1.9%	4.0%	2.6%	<0.1%	4.9%	21.0%	9.1%	3.7%	2.7%	3.0%	-
Other or Unknown	1.5%	-	1.7%	1.3%	0.8%	1.5%	1.7%	2.8%	10.4%	6.1%	0.6%	1.3%	1.1%	1.4%
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INTERIOR														
Damage														
Holes in floors	1.2%	0.9%	0.9%	0.6%	2.1%	-	4.7%	6.3%	10.7%	-	1.7%	2.1%	0.8%	1.4%
Open cracks or holes	6.5%	4.9%	5.4%	3.7%	9.3%	-	19.2%	-	46.4%	31.4%	10.4%	8.1%	7.8%	-
Broken plaster or peeling paint	2.2%	-	2.1%	1.5%	2.5%	3.7%	4.3%	10.6%	27.0%	20.4%	3.7%	-	2.3%	3.5%
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Water Leakage During Last 12 Months														
With leakage from inside structure	7.4%	-	6.4%	-	9.6%	-	5.6%	17.0%	41.2%	25.7%	9.4%	-	8.0%	-
Fixtures backed up or overflowed	2.5%	-	2.5%	-	2.5%	3.9%	2.8%	7.0%	11.3%	-	2.7%	-	3.0%	-
Pipes leaked	3.3%	-	2.5%	-	5.1%	-	1.5%	8.9%	26.5%	15.4%	4.8%	-	3.8%	-
Broken water heater	0.5%	0.8%	0.2%	0.8%	1.1%	0.8%	<0.1%	2.7%	1.5%	2.2%	0.3%	1.1%	0.4%	0.9%
Other or Unknown	1.8%	-	1.7%	-	2.1%	-	1.5%	4.6%	17.6%	5.8%	2.1%	-	1.9%	2.4%

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Rodents														
Signs of rats in last 3 mon.	0.2%	0.8%	0.2%	0.6%	0.3%	1.3%	<0.1%	5.1%	2.4%	4.6%	0.3%	1.8%	0.7%	1.4%
Signs of mice in last 3 mon.	6.3%	-	5.8%	-	7.3%	-	10.1%	-	20.9%	16.1%	10.4%	-	8.2%	-
Signs of rodents, not sure which kind in last 3 mon.	0.3%	-	0.3%	-	0.3%	-	<0.1%	1.1%	2.3%	1.8%	1.0%	0.7%	0.5%	-
Electrical														
No electrical wiring	<0.1%	-	<0.1%	-	<0.1%	0.1%	<0.1%	2.5%	<0.1%	-	<0.1%	0.2%	<0.1%	-
Exposed wiring	0.5%	-	0.3%	-	0.9%	-	1.4%	2.7%	5.1%	1.3%	1.1%	-	0.9%	0.6%
Rooms without electric outlets	1.3%	-	0.9%	1.2%	2.2%	-	2.7%	8.4%	9.8%	3.7%	1.4%	2.4%	1.8%	-
Fuses/breakers blown in last 3 mon.	8.5%	-	8.8%	-	7.8%	-	19.3%	12.5%	18.8%	-	8.7%	-	9.2%	-
Sanitation														
Lacking complete kitchen facilities	1.0%	1.5%	0.4%	-	2.4%	3.7%	1.4%	7.3%	37.3%	-	1.6%	2.7%	1.3%	2.5%
Lacking some or all plumbing facilities	0.6%	1.3%	0.6%	1.0%	0.6%	2.0%	31.7%	68.8%	<0.1%	0.0%	0.3%	2.5%	0.4%	1.9%
Water not safe to drink	3.5%	9.2%	3.5%	7.1%	3.6%	13.9%	4.4%	16.7%	8.9%	17.2%	4.5%	12.6%	4.0%	12.3%
Water stoppage in last 3 mon.	3.2%	-	2.6%	-	4.7%	-	3.0%	6.2%	9.6%	6.9%	4.3%	-	3.1%	-
No flush toilets working some time in last 3 mon.	1.6%	2.2%	1.0%	-	3.1%	4.3%	<0.1%	6.8%	14.1%	11.1%	3.3%	4.1%	1.9%	3.0%
With sewage disposal breakdowns in last 3 mon.	1.9%	-	2.0%	1.3%	1.6%	-	2.8%	3.7%	4.1%	-	1.4%	2.3%	2.3%	-
Septic tank, cesspool, chemical toilet	8.4%	20.7%	10.9%	26.7%	2.7%	7.9%	7.3%	13.3%	6.8%	18.2%	7.0%	17.7%	1.9%	1.2%
With septic tank or cesspool breakdowns in last 3 mon.	0.2%	-	0.2%	-	0.2%	-	<0.1%	-	<0.1%	0.9%	<0.1%	0.5%	0.1%	-

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HEATING/FUEL														
Main Heating Equipment														
Warm-air furnace	90.8%	61.8%	91.8%	66.6%	88.3%	51.4%	94.3%	47.0%	82.6%	33.6%	88.4%	54.2%	90.8%	58.6%
Steam or hot water system	1.2%	12.5%	0.6%	10.8%	2.5%	16.2%	<0.1%	22.5%	2.9%	12.9%	3.0%	12.6%	2.4%	17.7%
Electric heat pump	3.8%	10.7%	4.1%	11.5%	3.0%	9.1%	<0.1%	4.2%	2.1%	4.8%	1.9%	8.4%	2.2%	8.5%
Built-in electric units	0.9%	4.5%	0.5%	3.0%	1.6%	7.6%	<0.1%	4.3%	1.9%	4.5%	1.1%	5.9%	0.6%	3.7%
Floor, wall, or other built-in hot air without ducts	1.9%	5.0%	1.4%	3.2%	3.0%	9.0%	4.3%	8.8%	2.1%	5.5%	2.9%	8.1%	2.1%	7.0%
Room heaters with flue	0.7%	1.4%	0.7%	1.1%	0.7%	1.8%	<0.1%	2.5%	1.0%	1.6%	1.6%	2.8%	1.1%	-
Room heaters without flue	0.2%	1.4%	0.2%	1.4%	0.1%	1.5%	<0.1%	3.1%	7.4%	33.5%	0.5%	3.4%	0.2%	1.3%
Portable electric heaters	0.1%	0.7%	0.1%	0.5%	0.1%	1.1%	<0.1%	1.8%	<0.1%	1.6%	0.3%	1.5%	0.2%	0.8%
Stoves	0.2%	1.0%	0.1%	1.2%	0.3%	0.5%	1.4%	3.3%	<0.1%	1.0%	<0.1%	1.4%	0.1%	-
Fireplace with inserts	0.1%	-	0.1%	-	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	0.1%	0.3%	-	<0.1%	<0.1%
Fireplace without inserts	<0.1%	-	<0.1%	0.1%	<0.1%	-	<0.1%	0.2%	<0.1%	<0.1%	<0.1%	0.1%	<0.1%	<0.1%
Other	0.3%	-	0.2%	-	0.4%	-	<0.1%	0.7%	<0.1%	0.2%	<0.1%	0.6%	0.1%	0.4%
No heating equipment	<0.1%	0.4%	<0.1%	0.3%	<0.1%	0.7%	<0.1%	1.5%	<0.1%	0.6%	<0.1%	0.7%	<0.1%	0.7%
Cooking stove	<0.1%	-	<0.1%	0.1%	0.1%	-	<0.1%	0.2%	<0.1%	0.2%	<0.1%	0.3%	0.1%	-
Water Heating Fuel														
Electricity	20.7%	39.2%	15.4%	37.5%	33.1%	43.0%	19.3%	31.5%	29.2%	36.9%	25.5%	44.7%	17.7%	29.0%
Gas, LP/bottled gas	79.2%	55.4%	84.5%	57.6%	66.8%	50.7%	80.7%	57.7%	70.8%	-	74.5%	50.1%	82.3%	64.3%
Fuel oil	<0.1%	5.1%	<0.1%	4.6%	<0.1%	6.1%	<0.1%	10.4%	<0.1%	5.0%	<0.1%	4.9%	<0.1%	6.4%
Kerosene or other liquid fuel	<0.1%	-	<0.1%	-	<0.1%	-	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	-	<0.1%	-
Other	0.1%	-	0.1%	-	0.1%	-	<0.1%	0.4%	<0.1%	0.3%	<0.1%	0.4%	<0.1%	0.3%

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Clothes Dryer Fuel(,000)	585	82,538	467	67,262	118	15,276	11	1,014	12	2,387	42	7,720	131	19,624
Electricity	77.6%	-	75.0%	-	87.9%	-	79.8%	-	80.6%	-	68.6%	-	73.0%	-
Gas, LP gas (liquid propane)	22.3%	-	24.9%	-	12.1%	16.3%	20.2%	24.5%	19.4%	-	31.4%	18.5%	27.0%	-
Other	0.1%	-	0.1%	-	<0.1%	0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
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Heating Problems														
Uncomfortably cold for 24 hours or more last winter	33.9%	7.6%	35.3%	6.3%	30.1%	11.0%	74.5%	34.6%	43.6%	16.9%	28.9%	11.2%	40.5%	9.1%
Heating equipment breakdowns	2.5%	-	2.3%	1.6%	2.8%	-	65.3%	26.7%	5.0%	3.5%	3.1%	-	2.0%	2.8%
Other causes	28.7%	4.9%	31.4%	4.4%	22.5%	5.9%	10.0%	-	31.8%	10.6%	23.2%	6.8%	35.3%	5.3%
Utility interruption	25.3%	2.1%	28.6%	2.3%	17.4%	1.5%	8.6%	1.3%	22.2%	2.0%	16.7%	2.0%	27.0%	1.6%
Inadequate heating capacity	0.7%	-	0.3%	-	1.5%	-	<0.1%	3.0%	1.2%	3.5%	1.0%	2.0%	1.0%	1.3%
Inadequate insulation	0.7%	-	0.3%	-	1.5%	-	<0.1%	3.2%	2.5%	3.6%	0.6%	1.7%	1.0%	-
Cost of heating	0.6%	-	0.4%	-	1.0%	-	<0.1%	0.8%	6.8%	2.2%	1.1%	-	1.0%	0.7%
Other	6.2%	1.2%	6.4%	1.0%	5.8%	1.6%	4.7%	3.2%	14.4%	2.7%	8.4%	1.6%	15.1%	1.4%
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SELECTED PHYSICAL PROBLEMS														
Severe Physical Problems(,000)	13	1,970	9	932	4	1,039	13	1,970	.	.	1	498	1	881
Severe physical problems	1.8%	-	1.7%	1.3%	1.9%	3.1%	100%	-	.	.	1.4%	3.6%	0.5%	2.8%
Plumbing	0.6%	1.3%	0.6%	1.0%	0.6%	2.0%	31.7%	68.8%	.	.	0.3%	2.5%	0.4%	1.9%
Heating	1.2%	0.5%	1.2%	0.3%	1.1%	-	65.3%	25.1%	.	.	1.1%	0.8%	0.1%	0.8%
Electric	<0.1%	-	<0.1%	-	<0.1%	0.1%	1.4%	4.7%	.	.	<0.1%	0.3%	0.1%	-
Hallways	<0.1%	-	<0.1%	0.0%	0.1%	-	1.6%	0.4%	.	.	<0.1%	-	<0.1%	-
Upkeep	<0.1%	-	<0.1%	-	0.1%	-	1.4%	4.4%	.	.	<0.1%	0.3%	<0.1%	0.2%

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**American Housing Survey - Selected Elements Related to Health Homes
2002 Kansas City, MO-KS and 2003 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)	19	4,316	8	1,795	11	2,521	.	.	19	4,316	4	1,107	6	1,746
Moderate physical problems	2.7%	4.1%	1.6%	2.5%	5.1%	7.5%	.	.	100%	-	6.0%	8.1%	3.4%	5.6%
Plumbing	0.2%	-	0.1%	-	0.4%	-	.	.	7.6%	4.5%	0.8%	0.4%	0.2%	-
Heating	0.2%	1.4%	0.2%	1.3%	0.1%	1.5%	.	.	7.4%	33.5%	0.5%	3.2%	0.2%	1.2%
Upkeep	1.0%	1.3%	0.4%	-	2.4%	3.4%	.	.	37.3%	-	1.6%	2.2%	1.2%	2.3%
Hallways	0.1%	-	<0.1%	-	0.4%	-	.	.	4.0%	-	0.6%	-	0.3%	-
Kitchen	1.2%	-	0.9%	-	2.0%	-	.	.	45.7%	30.2%	3.1%	-	1.6%	-
OVERALL OPINION OF STRUCTURE														
1(worst)	0.5%	-	0.2%	-	1.1%	-	<0.1%	2.6%	4.3%	3.0%	1.5%	-	0.4%	-
2	0.2%	-	0.1%	-	0.5%	0.9%	1.6%	-	<0.1%	1.6%	0.8%	-	0.4%	-
3	0.6%	0.8%	0.3%	-	1.2%	1.7%	4.1%	-	1.2%	3.3%	1.2%	1.7%	0.8%	1.2%
4	1.0%	-	0.6%	-	1.9%	-	2.8%	-	7.5%	3.9%	2.7%	-	1.2%	1.5%
5	6.4%	-	4.7%	3.5%	10.2%	-	6.9%	10.7%	13.4%	-	10.2%	-	7.9%	-
6	5.9%	-	4.5%	-	9.0%	-	8.9%	-	11.3%	-	7.2%	-	7.5%	-
7	13.7%	-	12.0%	-	17.8%	-	8.8%	16.4%	21.7%	14.2%	13.8%	-	15.0%	-
8	27.5%	-	27.9%	-	26.5%	-	33.2%	23.1%	20.9%	-	20.7%	-	26.4%	-
9	14.6%	-	15.8%	-	11.8%	-	11.5%	-	7.2%	10.2%	8.7%	11.1%	11.8%	-
10(best)	29.7%	-	33.9%	-	20.0%	-	22.1%	-	12.5%	17.6%	33.3%	-	28.6%	22.6%

* = National Statistic only reported if Metropolitan Statistical Area (MSA) is $\geq 20\%$ (relative) and 0.25% (absolute) different from National.
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