

Gas/Electric Stove Usage vs. Asthma Rates

The National Propane Gas Association (NPGA) reviewed publicly available data on the percentage of U.S. households that cook on gas stoves and on electric stoves published by the Energy Information Administration (EIA) which is part of the U.S. Department of Energy.¹ NPGA also reviewed U.S. Centers for Disease Control and Prevention (CDC) data on rates of asthma in the United States.²

The comparison of these data state-by-state (attached) fails to demonstrate any correlation between higher gas stove usage and higher asthma rates. In fact, it suggests the opposite—states where gas stoves are used more than average tend to have lower than average rates of asthma.

Across all 50 states and DC, based on these Federal Government data sets, the national averages are:

- Percent of with asthma: 9.8%
- Residences with an electric stove: 68%
- Residences with a gas stove: 38%

There are only six U.S. states where a higher percentage of households cook with gas stoves than with electric stoves. In five of those six states, asthma rates are <u>below</u> the national average.

State	% of Homes with	% Asthma Rate	% Asthma Rate Compared to	
	Gas Stoves		the 9.8% National Average	
California	70%	9.3%	0.5% Lower	
New Jersey	69%	8.7%	1.1% Lower	
Illinois	67%	8.5%	1.4% Lower	
Washington DC	62%	10.4%	0.6% Higher	
New York	62%	9.5%	0.3% Lower	
Nevada	60%	9.5%	0.3% Lower	

States with More Residents Cooking on Gas Stoves than Electric Stoves

There are 22 U.S. states that have an asthma rate equal to or greater than the national average of 9.8%. Of those 22 states, <u>only four</u> have higher gas stove usage than the national average. In fact, across the 22 states with equal to or higher than average asthma rates, gas stove usage was an average of <u>7.8% less</u> than the national average.

¹ <u>https://www.eia.gov/consumption/residential/data/2020/state/pdf/State%20Appliances.pdf</u> Includes ranges, cooktops, and ovens; does not include microwaves or outdoor appliances.

² <u>https://www.cdc.gov/asthma/most_recent_data_states.htm</u> Adults; data for children was not located.

State	% Asthma Rate	% of Homes with Gas	% Gas Stoves Compared to		
		Stoves	the 38% National Average		
West Virginia	12.4%	25%	13% Lower		
Rhode Island	12.1%	35%	3% Lower		
Kentucky	11.5%	20%	18% Lower		
New Hampshire	11.5%	15%	23% Lower		
Michigan	11.0%	46%	8% Higher		
Delaware	10.8%	27%	11% Lower		
Oklahoma	10.8%	37%	1% Lower		
Utah	10.8%	35%	3% Lower		
Vermont	10.8%	12%	26% Lower		
Massachusetts	10.7%	44%	6% Higher		
Maine	10.6%	8%	30% Lower		
Connecticut	10.6%	27%	11% Lower		
Oregon	10.6%	25%	13% Lower		
Montana	10.6%	26%	12% Lower		
Washington DC	10.4%	62%	24% Higher		
Tennessee	10.3%	15%	23% Lower		
Pennsylvania	10.2%	38%	Equal		
Wisconsin	10.2%	34%	1% Lower		
New Mexico	10.1%	50%	12% Higher		
Wyoming	10.0%	24%	14% Lower		
Ohio	9.9%	34%	4% Lower		
Kansas	9.8%	23%	15% Lower		
			Average: 7.8% Lower		

States with Asthma Rates Equal to or Higher than the National Average of 9.8%

EIA and CDC Data	

	Elect	Electric cooking appliance		as cooking appliance	Number with current asthma		Percent with current asthma
	1.53(millions	0.107	0.00	100/		341,720	9
Alabama	of homes)	81%	0.36	19%	Alabama	48,173	8.9
Alaska	0.17	66%	0.1	38%	Alaska	550,729	9.6
Arizona	1.99	74%	0.8	30%	Arizona		
Arkansas	0.87	76%	0.34	30%	Arkansas	210,340	9.1
California	5.95	45%	9.21	70%	California	2,848,466	9.3
Colorado	1.69	75%	0.72	32%	Colorado	434,782	9.6
						299,193	10.6
Connecticut	1	72%	0.37	27%	Connecticut		
Delaware	0.27	70%	0.1	27%	Delaware	83,428	10.8
District of					District of	59,464	10.4
Columbia	0.16	49%	0.2	62%	Columbia		
Florida	7.44	92%	0.63	8%	Florida	1,276,625	7.3
Georgia	2.87	74%	1.35	35%	Georgia	736,912	9
Hawaii	0.4	85%	0.05	11%	Hawaii	96,890	8.8
						127,406	9.4
Idaho	0.52	80%	0.18	28%	Idaho	832,244	8.5
Illinois	1.99	41%	3.28	67%	Illinois	497,539	9.6
Indiana	1.58	61%	1.05	40%	Indiana		
lowa	0.81	63%	0.42	33%	lowa	220,085	9.1
Kansas	0.9	80%	0.26	23%	Kansas	216,312	9.8
Kentucky	1.46	84%	0.34	20%	Kentucky	395,633	11.5
Louisiana	1.3	75%	0.57	33%	Louisiana	276,711	7.8
Maine	0.42	75%	0.05	8%	Maine	115,621	10.6
Maryland	1.58	69%	0.91	40%	Maryland	420,686	8.9
ivial yland	1.50	0578	0.51	4070		592,048	10.7
Massachusetts	1.71	63%	1.2	44%	Massachusetts		
Michigan	2.39	61%	1.79	46%	Michigan	859,534	11
wiicingan	2.39	0178	1.79	4078	wichigan	369,238	8.5
Minnesota	1.63	73%	0.65	29%	Minnesota		
Winnesota	1.05	7570	0.05	2370		201,273	8.9
Mississippi	0.9	83%	0.21	20%	Mississippi		
					· · · · · · · · · · · · · · · · · · ·	441,777	9.3
Missouri	1.88	77%	0.65	27%	Missouri	89,552	10.6
Montana	0.33	77%	0.11	26%	Montana	114,104	7.8
Nebraska	0.64	83%	0.18	23%	Nebraska	230,431	9.5
Nevada	0.55	49%	0.68	60%	Nevada		
						127,113	11.5
New					New		
Hampshire	0.38	70%	0.08	15%	Hampshire		

						598,649	8.7
New Jersey	1.38	41%	2.36	69%	New Jersey		
						162,657	10.1
New Mexico	0.44	55%	0.39	50%	New Mexico		
New York	3.3	44%	4.65	62%	New York	1,449,094	9.5
						645,784	7.8
North Carolina	3.63	90%	0.59	15%	North Carolina		
						49,883	8.6
North Dakota	0.28	89%	0.04	11%	North Dakota		
Ohio	3.4	72%	1.63	34%	Ohio	895,631	9.9
Oklahoma	1.01	67%	0.55	37%	Oklahoma	322,759	10.8
Oregon	1.35	81%	0.41	25%	Oregon	356,958	10.6
						1,032,246	10.2
Pennsylvania	3.37	66%	1.94	38%	Pennsylvania		
						103,190	12.1
Rhode Island	0.27	65%	0.15	35%	Rhode Island		
						385,741	9.4
South Carolina	1.72	87%	0.37	19%	South Carolina		
						53,990	8.1
South Dakota	0.3	86%	0.05	15%	South Dakota		
						552,156	10.3
Tennessee	2.38	89%	0.39	15%	Tennessee		
Texas	7.58	74%	3.85	38%	Texas	1,617,392	7.4
Utah	0.79	76%	0.37	35%	Utah	249,663	10.8
Vermont	0.17	64%	0.03	12%	Vermont	54,781	10.8
Virginia	2.5	77%	0.9	28%	Virginia	571,162	8.6
						579,774	9.6
Washington	2.49	85%	0.71	24%	Washington		
						175,011	12.4
West Virginia	0.51	73%	0.17	25%	West Virginia		
Wisconsin	1.66	69%	0.81	34%	Wisconsin	465,109	10.2
Wyoming	0.18	79%	0.05	24%	Wyoming	44,192	10
Total	84.01	68%	47.26	38%	Total	23,479,797	9.8%