

State Table Notes

A full explanation of the sources of data and methodology is in **Methodology**.

Notes for all state data tables

1. **Total Population** is based on 2016 U.S. Census and represents the at-risk populations in counties with ozone or PM_{2.5} pollution monitors; it does not represent the entire state's sensitive populations.
2. **Those 18 & under** and **65 & over** are vulnerable to ozone and PM_{2.5}. Do not use them as population denominators for disease estimates—that will lead to incorrect estimates.
3. **Pediatric asthma** estimates are for those under 18 years of age and represent the estimated number of people who had asthma in 2016 based on the state rates when available or national rates when not (Behavioral Risk Factor Surveillance System, or BRFSS), applied to county population estimates (U.S. Census).
4. **Adult asthma** estimates are for those 18 years and older and represent the estimated number of people who had asthma during 2016 based on state rates (BRFSS) applied to county population estimates (U.S. Census).
5. **COPD** estimates are for adults 18 and over who had ever been diagnosed with chronic obstructive pulmonary disease, which includes chronic bronchitis and emphysema, based on state rates (BRFSS) applied to county population estimates (U.S. Census).
6. **Lung cancer** estimates are for all ages and represent the estimated number of people diagnosed with lung cancer in 2014 based on state rates (StateCancerProfiles.gov) applied to county population estimates (U.S. Census).
7. **Cardiovascular disease** estimates are for adults 18 and over who have been diagnosed within their lifetime, based on state rates (BRFSS) applied to county population estimates (U.S. Census). CV disease includes coronary heart disease, stroke and heart attack.
8. **Diabetes** estimates are for adults 18 and over who have been diagnosed within their lifetime based on state rates (BRFSS) applied to county population estimates (U.S. Census).
9. **Poverty** estimates include all ages and come from the U.S. Census Bureau's Small Area Income and Poverty Estimates program. The estimates are derived from a model using estimates of income or poverty from the Annual Social and Economic Supplement and the Current Population Survey, 2016.
10. Adding across rows does not produce valid estimates. Adding the at-risk categories (asthma, COPD, poverty, etc.) will double-count people who fall into more than one category.

Notes for all state grades tables.

1. Not all counties have monitors for either ozone or particle pollution. If a county does not have a monitor, that county's name is not on the list in these tables. The decision about monitors in the county is made by the state and the U.S. Environmental Protection Agency, not by the American Lung Association.
2. **INC** (Incomplete) indicates that monitoring is underway for that pollutant in that county, but that the data are incomplete for all three years. For particle pollution, some states collected data, but experienced laboratory quality issues that meant the data could not be used for assessing pollution levels.
3. **DNC** (Data Not Collected) indicates that data on that particular pollutant is not collected in that county.
4. The **Weighted Average (Wgt. Avg)** was derived by adding the three years of individual level data (2014-2016), multiplying the sums of each level by the assigned standard weights (i.e. 1=orange, 1.5=red, 2.0=purple and 2.5=maroon) and calculating the average. Grades are assigned based on the weighted averages as follows: A=0.0, B=0.3-0.9, C=1.0-2.0, D=2.1-3.2, F=3.3+.
5. The Design Value is the calculated concentration of a pollutant based on the form of the National Ambient Air Quality Standard and is used by EPA to determine whether the air quality in a county meets the standard. The numbers refer to micrograms per cubic meter, or µg/m³. Design values for the annual PM_{2.5} concentrations by county for the period 2014-2016 are as posted on July 26, 2017 at EPA's website at https://www.epa.gov/sites/production/files/2017-07/pm25_designvalues_20142016_final_07_14_17.xlsx. The 2014-2016 design values were compared to the 2012 National Ambient Air Quality Standard for Annual PM_{2.5}, particularly to the EPA's assessment of data quality required, as discussed on EPA's website at <https://www.epa.gov/pm-pollution/2012-national-ambient-air-quality-standards-naaqs-particulate-matter-pm>. Many design values are missing because state data did not meet quality requirements.
6. The annual average National Ambient Air Quality Standard for PM_{2.5} is 12 µg/m³ as of December 14, 2012. Counties with design values of 12 or lower received a grade of "Pass." Counties with design values of 12.1 or higher received a grade of "Fail."

FLORIDA

American Lung Association in Florida

www.lung.org/florida

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				Cardiovascular Disease	Diabetes	Poverty
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer			
Alachua	263,496	47,802	35,249	3,745	14,522	13,088	152	16,553	19,915	55,990
Baker	27,937	6,893	3,762	540	1,431	1,393	16	1,812	2,198	4,329
Bay	183,974	39,581	30,820	3,101	9,777	9,985	106	13,410	16,096	26,845
Brevard	579,130	107,170	134,618	8,396	31,767	35,983	334	51,148	60,484	84,028
Broward	1,909,632	407,171	306,987	31,899	101,923	103,164	1,099	137,507	165,607	256,027
Citrus	143,621	21,130	51,645	1,655	8,070	10,551	83	16,223	18,650	23,472
Collier	365,136	64,262	113,064	5,035	19,875	24,431	210	36,685	42,344	41,076
Columbia	69,299	15,254	12,416	1,195	3,650	3,801	40	5,175	6,180	11,449
Duval	926,255	209,759	124,997	16,433	48,651	46,689	533	60,360	73,163	131,327
Escambia	315,187	65,782	51,827	5,154	16,840	16,814	182	22,416	26,849	45,044
Flagler	108,310	18,945	32,144	1,484	5,938	7,255	62	10,797	12,542	11,997
Highlands	100,917	17,584	34,781	1,378	5,463	6,988	58	10,726	12,276	19,035
Hillsborough	1,376,238	316,636	188,463	24,806	71,915	69,332	792	89,934	108,884	203,350
Holmes	19,487	3,946	3,812	309	1,048	1,113	11	1,535	1,826	4,276
Indian River	151,563	25,523	47,993	2,000	8,340	10,392	87	15,647	18,088	18,518
Lake	335,396	65,771	88,688	5,153	17,948	21,004	193	30,685	35,769	39,212
Lee	722,336	131,348	198,070	10,290	39,304	46,314	416	67,921	79,072	91,333
Leon	287,822	53,694	35,950	4,207	15,794	14,070	165	17,608	21,276	52,124
Liberty	8,202	1,530	1,023	120	454	424	5	536	655	1,468
Manatee	375,888	71,416	98,476	5,595	20,318	23,768	216	34,614	40,461	47,042
Marion	349,020	65,301	99,737	5,116	18,816	22,549	201	33,394	38,735	58,992
Martin	158,701	26,304	48,042	2,061	8,801	10,827	92	16,142	18,756	17,584
Miami-Dade	2,712,945	552,026	433,032	43,248	146,357	146,032	1,561	193,669	233,012	487,700
Okaloosa	201,170	44,458	31,781	3,483	10,595	10,537	117	13,990	16,793	21,032
Orange	1,314,367	296,318	148,039	23,215	69,217	63,019	758	78,775	96,233	209,800
Osceola	336,015	83,000	44,400	6,503	17,152	16,373	194	21,160	25,600	49,326
Palm Beach	1,443,810	279,964	336,445	21,933	77,897	86,957	830	123,753	145,477	178,918
Pasco	512,368	103,962	117,117	8,145	27,385	30,663	295	43,586	51,343	66,980
Pinellas	960,730	160,179	228,971	12,549	53,833	60,846	552	86,514	102,204	125,923
Polk	666,149	149,542	133,174	11,716	34,668	37,007	384	51,449	60,828	106,703
St. Lucie	306,507	61,865	72,101	4,847	16,381	18,492	177	26,427	31,063	51,657
Santa Rosa	170,497	37,945	25,971	2,973	9,009	9,052	99	11,982	14,480	17,308
Sarasota	412,569	59,932	145,919	4,695	23,231	30,016	237	45,978	52,867	43,904
Seminole	455,479	96,289	69,243	7,544	24,389	24,249	262	31,971	38,618	51,750
Volusia	529,364	94,002	127,232	7,364	29,192	32,988	305	47,077	55,426	73,420
Wakulla	31,893	6,789	4,555	532	1,711	1,690	19	2,209	2,683	3,728
Totals	18,831,410	3,809,073	3,660,544	298,417	1,011,663	1,067,860	10,842	1,469,365	1,746,452	2,732,667

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HIGH OZONE DAYS 2014-2016

County				Wgt. Avg.	Grade
	Orange	Red	Purple		
Alachua	1	0	0	0.3	B
Baker	0	0	0	0.0	A
Bay	0	0	0	0.0	A
Brevard	0	0	0	0.0	A
Broward	2	0	0	0.7	B
Citrus	DNC	DNC	DNC	DNC	DNC
Collier	0	0	0	0.0	A
Columbia	0	0	0	0.0	A
Duval	4	0	0	1.3	C
Escambia	4	0	0	1.3	C
Flagler	0	0	0	0.0	A
Highlands	0	0	0	0.0	A
Hillsborough	9	1	0	3.5	F
Holmes	0	0	0	0.0	A
Indian River	1	0	0	0.3	B
Lake	3	0	0	1.0	C
Lee	1	0	0	0.3	B
Leon	0	0	0	0.0	A
Liberty	0	0	0	0.0	A
Manatee	1	0	0	0.3	B
Marion	1	0	0	0.3	B
Martin	1	0	0	0.3	B
Miami-Dade	2	0	0	0.7	B
Okaloosa	1	0	0	0.3	B
Orange	2	0	0	0.7	B
Osceola	0	0	0	0.0	A
Palm Beach	2	0	0	0.7	B
Pasco	2	0	0	0.7	B
Pinellas	1	0	0	0.3	B
Polk	1	0	0	0.3	B
St. Lucie	1	0	0	0.3	B
Santa Rosa	3	0	0	1.0	C
Sarasota	2	0	0	0.7	B
Seminole	0	0	0	0.0	A
Volusia	1	0	0	0.3	B
Wakulla	0	0	0	0.0	A

HIGH PARTICLE POLLUTION DAYS 2014-2016

24-Hour					Annual	
Orange	Red	Purple	Wgt. Avg.	Grade	Design Value	Pass/Fail
					INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0.0	A	5.4	PASS
0	0	0	0.0	A	6.5	PASS
0	0	0	0.0	A	5.9	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0.3	B	7.9	PASS
0	0	0	0.0	A	7.6	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0.0	A	8.4	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0.0	A	5.8	PASS
0	1	0	0.5	B	7.9	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	0	0	0.7	B	7.1	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0.0	A	6.6	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0.0	A	5.6	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0.0	A	6.7	PASS
0	0	0	0.0	A	6.3	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0.0	A	6.3	PASS
0	0	0	0.0	A	6.0	PASS
0	0	0	0.0	A	5.9	PASS
DNC	DNC	DNC	DNC	DNC	DNC	DNC

We will breathe easier when the air in every
American community is clean and healthy.

We will breathe easier when people are free from the addictive
grip of tobacco and the debilitating effects of lung disease.

We will breathe easier when the air in our public spaces and
workplaces is clear of secondhand smoke.

We will breathe easier when children no longer
battle airborne poisons or fear an asthma attack.

Until then, we are fighting for air.

About the American Lung Association

The American Lung Association is the leading organization working to save lives by improving lung health and preventing lung disease, through research, education and advocacy. The work of the American Lung Association is focused on four strategic imperatives: to defeat lung cancer; to improve the air we breathe; to reduce the burden of lung disease on individuals and their families; and to eliminate tobacco use and tobacco-related diseases. For more information about the American Lung Association, a holder of the Better Business Bureau Wise Giving Guide Seal, or to support the work it does, call 1-800-LUNGUSA (1-800-586-4872) or visit: www.Lung.org.