Section 10

Chronic Obstructive Pulmonary Disease

Table 10-1. Chronic obstructive pulmonary disease: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by usual industry, U.S. residents age 15 and over, selected states, 1999

CIC	Industry	Number of Deaths	PMR	95% Confidence Interval	
				LCL	UCL
041	Coal mining	783	2.0	1.8	2.1
410	Trucking service	1,281	1.3	1.2	1.4
050	Nonmetallic mining and quarrying, except fuel	77	1.3	1.0	1.6
751	Automotive repair and related services	627	1.3	1.2	1.4
040	Metal mining	115	1.3	1.0	1.5
230	Logging	172	1.3	1.1	1.5
042	Oil and gas extraction	129	1.2	1.0	1.5
641	Eating and drinking places	1,373	1.2	1.2	1.3
760	Miscellaneous repair services	183	1.2	1.1	1.4
060	Construction	4,288	1.2	1.2	1.2
242	Furniture and fixtures	335	1.2	1.1	1.3
762	Hotels and motels	335	1.2	1.1	1.3
771	Laundry, cleaning, and garment services	257	1.2	1.0	1.3
802	Miscellaneous entertainment and recreation services	291	1.2	1.0	1.3
832	Nursing and personal care facilities	310	1.1	1.0	1.3
942	Military	855	1.1	1.0	1.2
142	Yarn, thread, and fabric mills	1,423	1.1	1.0	1.1
831	Hospitals	1,380	1.1	1.0	1.1

CIC - Census Industry Code LCL - lower confidence limit UCL - upper confidence limit
NOTE: The comparable total number of chronic obstructive pulmonary disease deaths in the selected states for this same time period was 57,073, and the comparable number of chronic obstructive pulmonary disease deaths in the entire United States for this same time period was 245,415. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, and list of selected states.
SOURCE: National Center for Health Statistics multiple cause-of-death data.

Table 10-2. Chronic obstructive pulmonary disease: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by usual occupation, U.S. residents age 15 and over, selected states, 1999

COC	Occupation	Number of Deaths	PMR	95% Confidence Interval	
				LCL	UCL
764	Washing, cleaning, and pickling machine operators	10	2.4	1.1	4.3
864	Helpers, mechanics and repairers	9	2.2	1.0	4.2
743	Textile cutting machine operators	11	2.0	1.0	3.6
616	Mining machine operators	768	2.0	1.9	2.2
599	Construction trades, n.e.c.	69	1.8	1.4	2.3
617	Mining occupations, n.e.c.	28	1.8	1.2	2.6
853	Excavating and loading machine operators	28	1.7	1.2	2.5
595	Roofers	71	1.7	1.3	2.1
435	Waiters and waitresses	434	1.6	1.5	1.8
573	Drywall installers	33	1.5	1.0	2.1
709	Grinding, abrading, buffing, and polishing machine operators	53	1.4	1.1	1.9
747	Pressing machine operators	70	1.4	1.1	1.8
888	Hand packers and packagers	84	1.4	1.1	1.7
885	Garage and service station related occupations	44	1.4	1.0	1.9
579	Painters, construction and maintenance	308	1.4	1.2	1.5
727	Sawing machine operators	63	1.3	1.0	1.7
507	Bus, truck, and stationary engine mechanics	149	1.3	1.1	1.5
514	Automobile body and related repairers	66	1.3	1.0	1.7
567	Carpenters	938	1.3	1.2	1.4
783	Welders and cutters	351	1.3	1.2	1.4
496	Timber cutting and logging occupations	135	1.3	1.1	1.5
804	Truck drivers	1,617	1.3	1.2	1.3
869	Construction laborers	664	1.3	1.2	1.4
844	Operating engineers	318	1.2	1.1	1.4
505	Automobile mechanics	499	1.2	1.1	1.4
585	Plumbers, pipefitters, and steamfitters	326	1.2	1.1	1.3
889	Laborers, except construction	1,586	1.2	1.1	1.2
447	Nursing aides, orderlies, and attendants	569	1.2	1.1	1.3
449	Maids and housemen	176	1.2	1.0	1.4
777	Miscellaneous machine operators, n.e.c.	293	1.2	1.0	1.3
479	Farm workers	217	1.2	1.0	1.3
563	Brickmasons and stonemasons	186	1.2	1.0	1.3
436	Cooks	484	1.2	1.1	1.3
779	Machine operators, not specified	632	1.1	1.1	1.2
905	Military occupations	746	1.1	1.0	1.2

COC - Census Occupation Code n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit
NOTE: The comparable total number of chronic obstructive pulmonary disease deaths in the selected states for this same time period was 57,073, and the comparable number of chronic obstructive pulmonary disease deaths in the entire United States for this same time period was 245,415. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, and list of selected states.
SOURCE: National Center for Health Statistics multiple cause-of-death data.

Table 10-3. Chronic obstructive pulmonary disease: Estimated prevalence by current industry, U.S. residents age 18 and over, 1997–2004

Industry	Estimated Population	Prevalence (%)	95% Confidence Interval
Other educational services	564,502	5.9	3.7 – 8.1
Social services, religious and membership organizations	4,795,978	5.6	4.9 – 6.2
Private households	860,227	5.1	3.6 – 6.7
Health services, except hospitals	7,130,434	5.1	4.6 – 5.6
General merchandise stores	2,289,128	5.1	4.2 – 6.0
Other personal services	3,213,006	4.9	4.1 – 5.6
Textile mill and finished textile products	1,189,333	4.6	3.4 – 5.8
Food, bakery and dairy stores	2,849,542	4.5	3.7 – 5.3
Eating and drinking places	5,859,920	4.5	3.9 – 5.1
Transportation equipment	2,267,223	4.4	3.5 – 5.2
Business services	7,134,653	4.3	3.9 – 4.8
Elementary and secondary schools and colleges	10,775,110	4.3	3.9 – 4.7
Other and not specified retail trade	6,387,434	4.2	3.7 – 4.7
Mining	492,923	4.2	2.1 – 6.3
Other transportation	2,923,721	4.2	3.5 – 4.9
Other and not specified durable goods	2,095,107	4.1	3.2 – 5.0
Banking and credit agencies	2,835,520	4.0	3.2 – 4.7
Repair services	1,932,012	3.9	3.0 – 4.9
Public administration	6,199,357	3.9	3.5 – 4.4
Primary metal industry	746,402	3.9	2.4 – 5.4
Machinery, except electrical	2,034,373	3.9	3.0 – 4.7
Hospitals	5,260,506	3.9	3.3 – 4.4
Printing publishing and allied industries	1,624,590	3.8	2.9 – 4.8
Insurance, real estate and other finance	5,600,118	3.8	3.3 – 4.3
Utilities and sanitary	1,411,762	3.7	2.7 – 4.7
Entertainment and recreation services	2,337,336	3.6	2.8 – 4.5
Forestry and fisheries	163,467	3.6	0.0 – 7.3
Furniture, lumber and wood	1,444,925	3.6	2.4 – 4.7
Other nondurable goods	1,532,316	3.6	2.6 – 4.6
Electrical machinery, equipment and supplies	1,620,253	3.6	2.6 – 4.5
Wholesale trade	4,205,388	3.5	2.9 – 4.0
Communications	1,925,957	3.4	2.6 – 4.2
Automotive dealers and gasoline stations	2,005,723	3.4	2.6 – 4.2
Chemicals and allied products	1,205,561	3.4	2.3 – 4.5
Trucking service and warehousing	2,497,242	3.3	2.6 – 4.0
Legal, engineering and other professional services	4,923,739	3.3	2.8 – 3.8
Food and kindred products	1,879,890	3.2	2.2 – 4.2
Construction	9,137,436	2.9	2.5 – 3.3
Agriculture	2,992,257	2.8	2.2 – 3.4
Fabricated metal industries, including ordnance	1,087,197	2.8	1.7 – 3.8
Armed forces (excludes Reserves and National Guard)	33,960	1.3	0.0 – 3.9
Railroads	283,429	1.2	0.1 – 2.3
Refused, not ascertained, don't know	4,562,408	2.3	1.8 – 2.7
TOTAL	**132,311,362**	**4.0**	**3.8 – 4.1**

NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-4. Chronic obstructive pulmonary disease: Estimated prevalence by current industry, U.S. male residents age 18 and over, 1997–2004

Industry	Estimated Population	Prevalence (%)	95% Confidence Interval
Forestry and fisheries	127,964	4.6	0.0 – 9.3
Mining	434,376	4.1	1.8 – 6.4
Other educational services	182,072	4.1	0.5 – 7.7
Transportation equipment	1,716,134	3.9	2.9 – 4.9
Social services, religious and membership organizations	1,279,205	3.7	2.6 – 4.8
Primary metal industry	641,803	3.6	2.0 – 5.3
Textile mill and finished textile products	552,242	3.6	1.9 – 5.3
Other personal services	1,162,388	3.6	2.5 – 4.6
Furniture, lumber and wood	1,095,157	3.5	2.2 – 4.8
Business services	4,084,511	3.5	2.9 – 4.1
Repair services	1,726,775	3.3	2.3 – 4.3
Machinery, except electrical	1,572,963	3.1	2.2 – 4.0
Printing publishing and allied industries	944,693	3.0	1.7 – 4.2
Food, bakery and dairy stores	1,335,039	3.0	1.9 – 4.0
Utilities and sanitary	1,140,025	2.9	1.9 – 3.9
Food and kindred products	1,286,961	2.9	1.6 – 4.2
Other nondurable goods	1,116,743	2.8	1.7 – 3.9
Elementary and secondary schools and colleges	3,408,822	2.8	2.2 – 3.4
Other and not specified retail trade	3,063,880	2.8	2.1 – 3.4
Hospitals	1,241,064	2.8	1.7 – 3.8
Trucking service and warehousing	2,041,530	2.7	2.0 – 3.5
Entertainment and recreation services	1,355,116	2.7	1.7 – 3.7
Construction	8,288,151	2.6	2.3 – 3.0
Legal, engineering and other professional services	2,634,476	2.6	2.0 – 3.3
General merchandise stores	818,985	2.6	1.5 – 3.7
Automotive dealers and gasoline stations	1,483,377	2.6	1.7 – 3.5
Eating and drinking places	2,715,174	2.6	1.9 – 3.3
Wholesale trade	3,000,102	2.6	2.0 – 3.2
Other and not specified durable goods	1,396,893	2.6	1.7 – 3.5
Other transportation	1,856,690	2.6	1.8 – 3.3
Agriculture	2,305,795	2.5	1.8 – 3.1
Insurance, real estate and other finance	2,633,959	2.5	1.9 – 3.1
Chemicals and allied products	803,248	2.4	1.3 – 3.6
Public administration	3,403,896	2.4	1.9 – 3.0
Fabricated metal industries, including ordnance	855,347	2.4	1.3 – 3.4
Health services, except hospitals	1,453,541	2.3	1.5 – 3.1
Communications	1,135,867	2.1	1.3 – 3.0
Banking and credit agencies	913,167	1.9	1.0 – 2.9
Electrical machinery, equipment and supplies	1,036,872	1.9	1.1 – 2.8
Armed forces (excludes Reserves and National Guard)	24,397	1.8	0.0 – 5.4
Railroads	262,163	1.1	0.0 – 2.2
Private households	62,342	0.8	0.0 – 2.5
Refused, not ascertained, don't know	2,517,978	1.4	1.0 – 1.9
TOTAL	**71,111,881**	**2.7**	**2.6 – 2.9**

NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-5. Chronic obstructive pulmonary disease: Estimated prevalence by current industry, U.S. female residents age 18 and over, 1997–2004

Industry	Estimated Population	Prevalence (%)	95% Confidence Interval
Repair services	205,237	9.2	5.6 – 12.9
Utilities and sanitary	271,738	7.2	4.0 – 10.3
Other and not specified durable goods	698,214	7.1	5.1 – 9.0
Other transportation	1,067,031	6.9	5.5 – 8.4
Other educational services	382,430	6.8	4.1 – 9.5
Machinery, except electrical	461,410	6.6	4.5 – 8.7
Electrical machinery, equipment and supplies	583,382	6.5	4.3 – 8.7
General merchandise stores	1,470,142	6.5	5.2 – 7.8
Social services, religious and membership organizations	3,516,773	6.2	5.4 – 7.0
Eating and drinking places	3,144,746	6.1	5.2 – 7.0
Food, bakery and dairy stores	1,514,503	5.9	4.7 – 7.1
Health services, except hospitals	5,676,893	5.9	5.2 – 6.5
Trucking service and warehousing	455,711	5.8	3.9 – 7.8
Other nondurable goods	415,574	5.8	3.5 – 8.0
Transportation equipment	551,089	5.8	4.1 – 7.4
Public administration	2,795,461	5.7	4.9 – 6.5
Other personal services	2,050,618	5.6	4.6 – 6.6
Automotive dealers and gasoline stations	522,345	5.6	3.7 – 7.5
Wholesale trade	1,205,286	5.6	4.3 – 6.8
Other and not specified retail trade	3,323,553	5.6	4.8 – 6.4
Business services	3,050,143	5.5	4.7 – 6.3
Private households	797,885	5.5	3.8 – 7.1
Textile mill and finished textile products	637,092	5.5	3.8 – 7.2
Construction	849,285	5.4	3.7 – 7.1
Primary metal industry	104,600	5.3	1.6 – 9.1
Chemicals and allied products	402,313	5.3	2.9 – 7.6
Communications	790,090	5.2	3.7 – 6.7
Printing publishing and allied industries	679,897	5.1	3.6 – 6.5
Insurance, real estate and other finance	2,966,159	5.1	4.3 – 5.8
Banking and credit agencies	1,922,353	5.0	4.0 – 6.0
Elementary and secondary schools and colleges	7,366,288	5.0	4.5 – 5.5
Entertainment and recreation services	982,220	4.9	3.3 – 6.6
Mining	58,548	4.5	0.3 – 8.6
Fabricated metal industries, including ordnance	231,849	4.4	1.6 – 7.3
Hospitals	4,019,442	4.2	3.6 – 4.9
Legal, engineering and other professional services	2,289,263	4.0	3.3 – 4.8
Food and kindred products	592,929	4.0	2.5 – 5.4
Agriculture	686,462	3.9	2.4 – 5.5
Furniture, lumber and wood	349,768	3.9	1.3 – 6.5
Railroads	21,267	3.2	0.0 – 7.8
Forestry and fisheries	35,503	0.0	-
Armed forces (excludes Reserves and National Guard)	9,563	0.0	-
Refused, not ascertained, don't know	2,044,430	3.3	2.6 – 4.0
TOTAL	**61,199,481**	**5.4**	**5.2 – 5.4**

- No estimates due to no chronic obstructive pulmonary disease cases or no respondents.
NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-6. Chronic obstructive pulmonary disease: Estimated prevalence by current occupation, U.S. residents age 18 and over, 1997–2004

Occupation	Estimated Population	Prevalence (%)	95% Confidence Interval
Health service	2,653,011	7.3	6.3 – 8.4
Financial records processing	2,115,805	5.8	4.8 – 6.9
Personal service	2,765,854	5.8	5.0 – 6.7
Secretaries, stenographers, and typists	2,684,933	5.7	4.8 – 6.6
Other administrative support	11,363,017	5.1	4.7 – 5.5
Private household	691,069	5.1	3.3 – 6.9
Food service	5,386,163	5.1	4.4 – 5.7
Other protective service	968,782	5.0	3.6 – 6.3
Cleaning and building service	3,101,428	4.8	4.0 – 5.5
Other sales	6,178,105	4.7	4.1 – 5.2
Health technologist and technicians	1,866,864	4.6	3.7 – 5.5
Fabricators, assemblers, inspectors and samplers	2,654,166	4.6	3.7 – 5.4
Material moving equipment operators	1,181,359	4.3	2.9 – 5.7
Motor vehicle operators	4,031,519	4.2	3.5 – 4.8
Supervisors and proprietors	3,864,657	4.1	3.4 – 4.7
Teachers, librarians, and counselors	6,949,300	4.1	3.6 – 4.5
Machine operators and tenderers, except precision	4,400,009	4.0	3.4 – 4.6
Officials and administrators, public administration	778,000	3.9	2.6 – 5.2
Management related	5,123,439	3.9	3.3 – 4.4
Precision production	3,405,364	3.7	3.0 – 4.4
Writers, artists, entertainers, and athletes	2,321,769	3.7	2.9 – 4.4
Other professional specialty	2,952,973	3.6	2.9 – 4.3
Sales representatives, commodities and finance	4,238,483	3.6	3.0 – 4.1
Freight, stock and material handlers	3,848,042	3.6	2.9 – 4.2
Health assessment and treating occupations	3,353,106	3.5	2.9 – 4.2
Mail and message distributing	890,721	3.5	2.3 – 4.8
Managers and administrators, except public administration	12,517,663	3.4	3.1 – 3.7
Mechanics and repairers	4,692,046	3.2	2.7 – 3.8
Farm workers and other agricultural workers	1,994,542	2.8	2.0 – 3.5
Technologist and technicians except health	2,658,737	2.8	2.2 – 3.4
Construction and extractive trades	5,829,786	2.7	2.3 – 3.1
Natural mathematical and computer scientists	2,649,991	2.6	2.0 – 3.2
Police and firefighters	1,452,583	2.4	1.6 – 3.2
Farm operators and managers	893,227	2.4	1.4 – 3.4
Engineers	1,990,104	2.4	1.6 – 3.1
Construction laborers	1,065,269	2.3	1.5 – 3.2
Forestry and fishing	158,696	2.3	0.0 – 4.9
Other transportation, except motor vehicles	192,922	2.3	0.1 – 4.5
Military	22,962	1.9	0.0 – 5.7
Architects and surveyors	230,282	1.9	0.2 – 3.6
Computer equipment operators	378,791	1.5	0.2 – 2.8
Health diagnosing	1,060,786	1.3	0.5 – 2.0
Refused, not ascertained, don't know	4,755,041	2.4	2.0 – 2.8
TOTAL	**132,311,362**	**4.0**	**3.8 – 4.1**

NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-7. Chronic obstructive pulmonary disease: Estimated prevalence by current occupation, U.S. male residents age 18 and over, 1997–2004

Occupation	Estimated Population	Prevalence (%)	95% Confidence Interval
Private household	35,450	6.6	0.0 – 16.5
Personal service	487,213	4.7	2.6 – 6.7
Cleaning and building service	1,667,648	4.4	3.4 – 5.5
Material moving equipment operators	1,104,408	4.4	2.9 – 5.8
Other protective service	702,846	4.3	2.8 – 5.7
Financial records processing	213,438	3.8	0.7 – 6.9
Fabricators, assemblers, inspectors and samplers	1,653,379	3.7	2.7 – 4.7
Other administrative support	2,996,623	3.5	2.8 – 4.2
Health assessment and treating occupations	433,914	3.5	1.2 – 5.8
Motor vehicle operators	3,518,996	3.4	2.8 – 4.0
Health service	286,971	3.3	1.2 – 5.5
Freight, stock and material handlers	2,931,348	3.1	2.4 – 3.8
Machine operators and tenderers, except precision	2,914,187	3.1	2.4 – 3.8
Precision production	2,591,182	3.1	2.4 – 3.8
Supervisors and proprietors	2,320,253	3.0	2.2 – 3.8
Mechanics and repairers	4,485,332	3.0	2.4 – 3.6
Management related	2,156,992	2.7	2.0 – 3.4
Military	16,561	2.7	0.0 – 8.0
Construction and extractive trades	5,674,943	2.7	2.2 – 3.1
Food service	2,202,137	2.6	1.8 – 3.4
Farm workers and other agricultural workers	1,625,054	2.6	1.8 – 3.4
Health technologist and technicians	373,730	2.6	0.9 – 4.2
Other sales	2,359,261	2.5	1.8 – 3.3
Writers, artists, entertainers, and athletes	1,192,122	2.5	1.5 – 3.4
Teachers, librarians, and counselors	2,177,803	2.4	1.8 – 3.1
Managers and administrators, except public administration	7,389,366	2.4	2.1 – 2.8
Forestry and fishing	153,358	2.4	0.0 – 5.1
Construction laborers	1,038,707	2.4	1.5 – 3.3
Farm operators and managers	738,134	2.3	1.2 – 3.3
Other professional specialty	1,500,087	2.3	1.5 – 3.0
Sales representatives, commodities and finance	2,656,538	2.2	1.7 – 2.8
Other transportation, except motor vehicles	188,622	2.2	0.0 – 4.5
Officials and administrators, public administration	406,991	2.2	0.8 – 3.6
Natural mathematical and computer scientists	1,847,198	2.1	1.5 – 2.8
Mail and message distributing	515,279	2.1	0.7 – 3.5
Police and firefighters	1,231,087	2.1	1.2 – 3.0
Engineers	1,786,291	2.1	1.3 – 2.8
Technologist and technicians except health	1,809,092	2.1	1.4 – 2.7
Architects and surveyors	189,636	1.9	0.0 – 3.9
Computer equipment operators	173,689	1.7	0.0 – 4.2
Secretaries, stenographers, and typists	60,762	1.1	0.0 – 3.2
Health diagnosing	763,693	0.8	0.1 – 1.5
Refused, not ascertained, don't know	2,541,564	1.4	0.9 – 1.8
TOTAL	**71,111,881**	**2.7**	**2.6 – 2.9**

NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-8. Chronic obstructive pulmonary disease: Estimated prevalence by current occupation, U.S. female residents age 18 and over, 1997–2004

Occupation	Estimated Population	Prevalence (%)	95% Confidence Interval
Motor vehicle operators	512,524	9.6	7.1 – 12.1
Mechanics and repairers	206,714	8.2	4.1 – 12.4
Health service	2,366,040	7.8	6.7 – 8.9
Food service	3,184,026	6.8	5.8 – 7.7
Other protective service	265,936	6.8	4.0 – 9.5
Personal service	2,278,641	6.1	5.1 – 7.0
Financial records processing	1,902,368	6.1	4.9 – 7.2
Other sales	3,818,844	6.0	5.2 – 6.8
Fabricators, assemblers, inspectors and samplers	1,000,786	6.0	4.6 – 7.4
Officials and administrators, public administration	371,010	5.9	3.6 – 8.1
Machine operators and tenderes except precision	1,485,822	5.8	4.7 – 7.0
Sales representatives, commodities and finance	1,581,945	5.8	4.7 – 6.9
Secretaries, stenographers, and typists	2,624,172	5.8	4.9 – 6.7
Supervisors and proprietors	1,544,405	5.7	4.5 – 6.9
Other administrative support	8,366,394	5.7	5.2 – 6.2
Precision production	814,181	5.6	4.0 – 7.3
Mail and message distributing	375,442	5.5	3.3 – 7.7
Other transportation, except motor vehicles	4,300	5.4	0.0 – 16.2
Cleaning and building service	1,433,779	5.1	4.1 – 6.2
Health technologist and technicians	1,493,134	5.1	4.0 – 6.2
Private household	655,619	5.0	3.2 – 6.8
Freight, stock and material handlers	916,695	5.0	3.6 – 6.3
Writers, artists, entertainers, and athletes	1,129,647	4.9	3.7 – 6.1
Other professional specialty	1,452,885	4.9	3.8 – 6.1
Managers and administrators, except public administration	5,128,297	4.8	4.2 – 5.4
Teachers, librarians, and counselors	4,771,497	4.8	4.1 – 5.4
Engineers	203,813	4.7	2.1 – 7.3
Management related	2,966,447	4.7	4.0 – 5.4
Construction and extractive trades	154,843	4.4	1.3 – 7.5
Technologist and technicians except health	849,645	4.2	3.0 – 5.5
Police and firefighters	221,496	4.0	1.9 – 6.2
Natural mathematical and computer scientists	802,793	3.8	2.6 – 5.0
Material moving equipment operators	76,951	3.6	0.0 – 8.4
Health assessment and treating occupations	2,919,192	3.6	2.9 – 4.2
Farm workers and other agricultural workers	369,488	3.5	1.6 – 5.5
Farm operators and managers	155,093	2.9	0.0 – 5.8
Health diagnosing	297,093	2.4	0.5 – 4.3
Architects and surveyors	40,646	2.1	0.0 – 5.1
Computer equipment operators	205,102	1.3	0.2 – 2.4
Forestry and fishing	5,338	0.0	-
Construction laborers	26,562	0.0	-
Military	6,401	0.0	-
Refused, not ascertained, don't know	2,213,477	3.6	2.8 – 4.3
TOTAL	**61,199,481**	**5.4**	**5.2 – 5.5**

- No estimates due to no chronic obstructive pulmonary disease cases or no respondents.
NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-9 (page 1 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current industry and smoking status, U.S. residents age 18 and over, 1997–2004

Industry	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Social services, religious and membership organizations	2,929,887	4.6	3.8 – 5.4	997,488	5.1	3.9 – 6.4	856,384	9.3	7.4 – 11.2
General merchandise stores	1,338,543	4.4	3.2 – 5.6	378,568	4.6	2.6 – 6.6	564,831	7.1	5.0 – 9.2
Other educational services	349,521	3.9	2.0 – 5.8	137,436	3.6	1.3 – 6.0	76,686	19.3	7.8 – 30.9
Furniture lumber and wood	687,181	3.6	1.8 – 5.4	273,578	3.1	1.0 – 5.3	477,650	3.9	1.9 – 5.9
Elementary and secondary schools and colleges	7,403,629	3.4	3.0 – 3.8	2,006,838	5.0	4.0 – 6.0	1,331,719	8.1	6.6 – 9.6
Banking and credit agencies	1,774,282	3.4	2.6 – 4.3	505,637	4.0	2.1 – 5.8	546,342	5.9	3.8 – 8.0
Health services, except hospitals	4,223,076	3.2	2.6 – 3.7	1,326,263	5.1	3.9 – 6.3	1,544,834	10.5	9.0 – 12.0
Machinery except electrical	1,012,010	3.2	2.1 – 4.3	465,639	2.2	0.9 – 3.4	548,260	6.6	4.4 – 8.8
Other and not specific retail trade	3,590,839	3.2	2.6 – 3.9	1,242,711	5.4	4.1 – 6.7	1,529,268	5.7	4.5 – 6.8
Other personal services	1,677,270	3.1	2.3 – 3.9	607,780	6.0	4.1 – 7.9	913,108	7.4	5.7 – 9.1
Printing publishing and allied industries	818,225	3.1	1.9 – 4.3	371,680	3.9	1.9 – 5.9	433,901	5.3	3.2 – 7.4
Food bakery and diary stores	1,529,495	2.9	2.1 – 3.8	446,161	5.0	3.0 – 7.0	861,970	7.2	5.3 – 9.0
Hospitals	3,324,236	2.9	2.2 – 3.5	1,010,271	4.4	3.0 – 5.8	905,288	7.1	5.5 – 8.7
Public administration	3,574,583	2.9	2.4 – 3.4	1,406,952	4.0	3.0 – 5.1	1,188,101	6.9	5.6 – 8.3
Repair services	774,785	2.9	1.5 – 4.2	442,147	3.4	1.6 – 5.2	699,141	5.5	3.7 – 7.4
Utilities and sanitary	732,957	2.9	1.6 – 4.3	338,656	4.0	2.0 – 6.1	333,734	5.2	2.9 – 7.5
Other transportation	1,521,462	2.8	2.0 – 3.6	709,055	4.3	2.9 – 5.6	677,128	7.1	5.1 – 9.0
Forestry and fisheries	81,726	2.8	0.0 – 8.2	43,598	8.3	0.0 – 17.4	37,505	-	-
Wholesale trade	2,137,682	2.7	2.0 – 3.4	954,117	4.1	2.8 – 5.3	1,089,183	4.5	3.3 – 5.7
Business services	3,966,894	2.6	2.1 – 3.1	1,366,126	4.6	3.4 – 5.7	1,768,692	8.2	6.8 – 9.5
Insurance, real estate and other finance	3,172,430	2.6	2.1 – 3.2	1,249,100	4.5	3.4 – 5.7	1,155,766	6.4	4.9 – 7.8
Legal, engineering and other professional services	3,010,317	2.6	2.0 – 3.1	1,098,736	3.5	2.4 – 4.5	792,748	5.8	4.2 – 7.3
Transportation equipment	1,108,314	2.5	1.6 – 3.3	557,412	3.5	1.9 – 5.0	598,574	8.7	6.3 – 11.2
Entertainment and recreation services	1,376,824	2.5	1.4 – 3.6	438,085	5.4	3.3 – 7.5	518,092	5.2	3.0 – 7.4
Eating and drinking places	2,885,257	2.4	1.8 – 3.0	695,747	4.5	2.6 – 6.4	2,249,022	7.2	6.1 – 8.3

See footnotes at end of table.

Table 10-9 (page 2 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current industry and smoking status, U.S. residents age 18 and over, 1997–2004

	Nonsmokers			Former Smokers			Current Smokers		
Industry	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Private households	543,427	2.3	1.2 – 3.4	136,039	10.6	4.5 – 16.7	177,152	9.7	5.4 – 14.0
Automotive dealers and gasoline stations	921,072	2.3	1.3 – 3.3	398,828	3.5	1.5 – 5.5	673,875	4.9	3.2 – 6.5
Textile mill and finished textile products	668,322	2.2	1.2 – 3.1	188,813	5.4	1.7 – 9.1	325,896	9.2	6.0 – 12.5
Chemicals and allied products	681,276	2.2	1.0 – 3.4	266,746	3.1	0.9 – 5.2	252,556	7.0	3.7 – 10.3
Food and kindred products	964,422	2.2	1.3 – 3.1	368,240	4.6	1.5 – 7.6	541,573	4.1	1.9 – 6.3
Other and non-specified durable goods	1,104,659	2.1	1.2 – 3.0	449,663	5.2	3.0 – 7.5	534,616	7.2	5.0 – 9.5
Communications	1,105,909	2.0	1.3 – 2.8	392,262	3.3	1.8 – 4.8	422,291	7.1	4.5 – 9.7
Other non-durable goods	707,693	2.0	0.8 – 3.1	367,915	4.7	2.5 – 6.9	452,834	5.3	3.0 – 7.5
Trucking service and warehousing	1,200,192	2.0	1.1 – 2.8	494,129	3.5	1.8 – 5.2	790,855	5.3	3.7 – 6.8
Agriculture	1,693,364	1.9	1.2 – 2.6	570,676	3.9	2.3 – 5.4	712,661	4.2	2.8 – 5.6
Electrical machinery, equipment and supplies	915,210	1.8	1.0 – 2.7	312,445	5.7	3.0 – 8.4	389,509	5.9	3.3 – 8.6
Mining	238,721	1.5	0.0 – 3.3	89,919	6.0	0.4 – 11.6	163,413	7.2	2.5 – 11.8
Construction	3,989,174	1.4	1.0 – 1.8	1,804,630	3.2	2.3 – 4.1	3,296,357	4.5	3.8 – 5.3
Fabricated metal industries, including ordinance	459,245	1.2	0.3 – 2.1	256,876	2.4	0.2 – 4.5	370,741	5.1	2.6 – 7.5
Primary metal industry	326,480	0.9	0.0 – 1.8	169,513	5.9	2.2 – 9.7	247,279	6.5	3.0 – 10.1
Armed forces (excludes Reserves and National Guard)	19,585	-	-	8,740	-	-	5,636	7.8	0.0 – 23.3
Railroads	123,505	-	-	76,471	0.4	0.0 – 1.2	79,725	4.0	0.2 – 7.8
Refused, not ascertained, don't know	2,725,395	1.5	1.1 – 2.0	557,858	4.3	2.6 – 5.9	747,114	4.3	2.9 – 5.7
TOTAL	**73,389,074**	**2.7**	**2.6 – 2.9**	**25,979,536**	**4.4**	**4.1 – 4.6**	**31,882,006**	**6.5**	**6.2 – 6.8**

- No estimates due to no chronic obstructive pulmonary disease cases or no respondents.
NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-10 (page 1 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current industry and smoking status, U.S. male residents age 18 and over, 1997–2004

Industry	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Forestry and fisheries	60,105	3.8	0.0 – 11.1	34,523	10.5	0.0 – 21.9	32,697	-	-
Social services, religious and membership organizations	720,702	3.3	1.8 – 4.7	340,194	4.0	2.0 – 6.1	213,433	4.8	1.9 – 7.8
Furniture lumber and wood	488,909	3.1	1.3 – 4.9	226,169	3.4	1.0 – 5.9	373,564	4.1	1.7 – 6.5
Other educational services	91,214	3.0	0.0 – 6.8	58,862	1.3	0.0 – 3.8	31,996	12.3	0.0 – 28.1
Machinery except electrical	749,288	2.7	1.4 – 3.9	380,228	1.9	0.5 – 3.2	437,389	4.9	2.6 – 7.2
Repair services	664,977	2.6	1.1 – 4.1	411,488	3.1	1.3 – 5.0	635,920	4.3	2.5 – 6.1
Hospitals	751,886	2.5	1.0 – 3.9	278,750	2.0	0.4 – 3.7	204,907	4.7	1.9 – 7.6
Utilities and sanitary	581,915	2.5	1.2 – 3.9	282,516	4.0	1.8 – 6.2	271,493	2.7	0.9 – 4.5
Elementary and secondary schools and colleges	2,226,028	2.4	1.7 – 3.1	713,192	2.9	1.7 – 4.1	457,917	4.6	2.5 – 6.6
Legal, engineering and other professional services	1,592,890	2.3	1.5 – 3.1	642,719	2.9	1.6 – 4.2	387,374	3.6	1.8 – 5.4
Food, bakery, and dairy stores	727,379	2.2	0.9 – 3.4	237,988	1.6	0.3 – 2.9	361,525	5.6	2.8 – 8.4
Other personal services	520,249	2.2	1.0 – 3.5	268,906	3.7	1.6 – 5.7	367,235	5.4	3.0 – 7.9
Transportation equipment	821,861	2.1	1.1 – 3.1	450,435	3.6	1.8 – 5.4	441,287	7.7	4.8 – 10.6
Other and not specific retail trade	1,627,518	2.1	1.2 – 3.0	646,741	4.0	2.3 – 5.6	775,766	3.3	2.0 – 4.5
Printing publishing and allied industries	436,865	1.9	0.3 – 3.5	227,159	4.2	1.4 – 7.0	280,669	3.6	1.2 – 6.1
Private households	28,358	1.9	0.0 – 5.5	8,885	-	-	25,100	-	-
Business services	2,224,308	1.8	1.2 – 2.4	834,921	4.7	3.2 – 6.2	1,002,631	6.3	4.6 – 8.0
Insurance, real estate and other finance	1,449,079	1.8	1.1 – 2.6	673,128	2.7	1.5 – 3.9	501,032	3.9	2.2 – 5.7
Automotive dealers and gasoline stations	683,611	1.7	0.6 – 2.7	323,637	3.6	1.3 – 5.9	467,205	3.4	1.6 – 5.2
Eating and drinking places	1,352,606	1.7	0.9 – 2.5	333,229	4.3	1.0 – 7.6	1,010,197	3.3	2.1 – 4.4
Wholesale trade	1,436,503	1.7	1.0 – 2.4	737,203	3.7	2.3 – 5.2	804,606	3.3	2.0 – 4.5
Banking and credit agencies	532,216	1.7	0.7 – 2.8	194,239	3.1	0.0 – 6.1	182,624	1.3	0.0 – 3.2
Trucking service and warehousing	956,866	1.6	0.7 – 2.4	427,023	3.0	1.3 – 4.8	647,821	4.3	2.6 – 6.0
Communications	630,177	1.6	0.7 – 2.5	251,026	1.6	0.3 – 2.9	252,357	4.1	1.5 – 6.8
Entertainment and recreation services	796,115	1.6	0.7 – 2.5	252,015	4.8	2.2 – 7.3	305,929	3.9	1.0 – 6.8

See footnotes at end of table.

Table 10-10 (page 2 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current industry and smoking status, U.S. male residents age 18 and over, 1997–2004

Industry	Nonmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
General merchandise stores	441,285	1.6	0.4 – 2.7	171,617	4.2	1.2 – 7.3	203,740	3.6	1.1 – 6.0
Electrical machinery, equipment and supplies	586,945	1.6	0.6 – 2.6	212,249	2.3	0.5 – 4.1	235,722	2.4	0.2 – 4.6
Other transportation	898,448	1.5	0.6 – 2.4	502,733	2.4	1.1 – 3.7	447,574	4.8	2.8 – 6.9
Public administration	1,913,905	1.5	1.0 – 2.0	876,657	3.5	2.2 – 4.8	594,293	3.8	2.2 – 5.4
Agriculture	1,268,745	1.5	0.7 – 2.2	461,568	4.0	2.2 – 5.7	561,362	3.7	2.2 – 5.2
Food and kindred products	608,220	1.5	0.6 – 2.4	286,064	4.7	1.0 – 8.5	387,603	3.7	0.8 – 6.5
Chemicals and allied products	438,417	1.3	0.2 – 2.4	195,022	1.4	0.0 – 2.9	165,918	6.7	2.7 – 10.7
Other and non-specified durable goods	694,378	1.3	0.4 – 2.1	323,603	3.7	1.3 – 6.1	373,867	4.1	2.1 – 6.1
Construction	3,557,211	1.2	0.8 – 1.6	1,649,806	2.7	1.9 – 3.6	3,041,470	4.3	3.5 – 5.0
Other non-durable goods	494,180	1.2	0.0 – 2.3	300,751	4.3	1.9 – 6.7	320,082	3.8	1.4 – 6.3
Mining	204,301	1.1	0.0 – 3.0	80,906	6.2	0.0 – 12.3	148,298	7.3	2.2 – 12.4
Textile mill and finished textile products	265,252	1.1	0.0 – 2.2	120,345	6.9	1.4 – 12.4	161,601	5.4	1.8 – 8.9
Health services, except hospitals	897,406	0.9	0.2 – 1.5	320,868	2.4	0.5 – 4.2	230,733	7.6	4.2 – 11.0
Primary metal industry	280,072	0.8	0.0 – 1.8	145,923	6.6	2.3 – 11.0	212,678	5.3	1.6 – 9.1
Fabricated metal industries, including ordinance	350,276	0.8	0.0 – 1.8	207,868	2.8	0.2 – 5.4	296,869	3.9	1.5 – 6.2
Armed forces (excludes Reserves and National Guard)	14,026	-	-	7,154	-	-	3,218	13.7	0.0 – 40.7
Railroads	111,392	-	-	72,740	0.4	0.0 – 1.2	74,998	3.3	0.0 – 7.2
Refused, not ascertained, don't know	1,389,565	0.7	0.3 – 1.1	353,380	3.2	1.3 – 5.0	447,825	3.2	1.7 – 4.7
TOTAL	**36,565,645**	**1.8**	**1.6 – 1.9**	**15,524,427**	**3.4**	**3.1 – 3.7**	**18,380,521**	**4.3**	**4.0 – 4.6**

- No estimates due to no chronic obstructive pulmonary disease cases or no respondents.
NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-11 (page 1 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current industry and smoking status, U.S. female residents age 18 and over, 1997–2004

Industry	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
General merchandise stores	897,258	5.8	4.2 – 7.5	206,951	4.9	2.1 – 7.6	361,092	9.1	6.2 – 12.0
Social services, religious and membership organizations	2,209,184	5.0	4.0 – 6.0	657,294	5.7	4.1 – 7.3	642,951	10.8	8.5 – 13.1
Machinery except electrical	262,722	4.9	2.5 – 7.3	85,411	3.6	0.2 – 7.0	110,871	12.9	7.0 – 18.9
Furniture lumber and wood	198,272	4.8	0.6 – 8.9	47,409	1.7	0.0 – 5.0	104,087	3.3	0.0 – 6.6
Other transportation	623,015	4.7	3.2 – 6.3	206,322	8.7	5.3 – 12.2	229,554	11.5	7.4 – 15.6
Wholesale trade	701,178	4.7	3.1 – 6.3	216,914	5.1	2.5 – 7.7	284,577	8.2	5.3 – 11.0
Repair services	109,808	4.6	1.1 – 8.2	30,659	7.5	0.0 – 16.2	63,220	18.2	9.3 – 27.1
Utilities and sanitary	151,042	4.6	0.9 – 8.4	56,140	4.4	0.0 – 9.7	62,240	16.2	7.5 – 24.9
Public administration	1,660,678	4.5	3.5 – 5.4	530,295	5.0	3.2 – 6.7	593,808	10.1	7.9 – 12.3
Printing, publishing, and allied industries	381,360	4.4	2.6 – 6.3	144,521	3.4	0.9 – 5.9	153,233	8.3	4.5 – 12.1
Other educational services	258,307	4.2	2.0 – 6.4	78,574	5.4	1.8 – 9.0	44,690	24.4	8.5 – 40.3
Banking and credit agencies	1,242,065	4.2	3.0 – 5.3	311,398	4.5	2.2 – 6.9	363,718	8.2	5.2 – 11.2
Other and not specific retail trade	1,963,321	4.2	3.2 – 5.1	595,969	7.0	5.0 – 8.9	753,502	8.2	6.2 – 10.2
Automotive dealers and gasoline stations	237,462	4.2	1.5 – 6.8	75,192	3.3	0.0 – 6.6	206,670	8.1	4.6 – 11.7
Mining	34,420	3.9	0.0 – 9.4	9,012	4.8	0.0 – 14.1	15,115	5.7	0.0 – 14.0
Health services, except hospitals	3,325,671	3.8	3.2 – 4.5	1,005,395	6.0	4.5 – 7.5	1,314,102	11.1	9.4 – 12.7
Elementary and secondary schools and colleges	5,177,601	3.8	3.3 – 4.3	1,293,646	6.1	4.8 – 7.5	873,802	9.9	7.9 – 11.9
Other non-durable goods	213,513	3.8	1.2 – 6.5	67,164	6.4	1.4 – 11.4	132,752	8.7	3.7 – 13.6
Chemicals and allied products	242,859	3.8	1.3 – 6.3	71,724	7.5	0.8 – 14.2	86,638	7.5	1.7 – 13.4
Entertainment and recreation services	580,709	3.8	1.5 – 6.0	186,070	6.3	2.7 – 9.9	212,162	7.1	3.7 – 10.5
Transportation equipment	286,453	3.6	1.7 – 5.4	106,977	2.9	0.5 – 5.4	157,287	11.7	7.4 – 16.1
Business services	1,742,586	3.6	2.7 – 4.4	531,204	4.4	2.7 – 6.1	766,061	10.7	8.6 – 12.8
Food, bakery and dairy stores	802,117	3.6	2.4 – 4.8	208,173	9.0	5.1 – 12.9	500,444	8.3	5.8 – 10.8
Other and non-specified durable goods	410,281	3.5	1.7 – 5.3	126,059	9.2	4.0 – 14.4	160,749	14.5	9.0 – 20.0
Trucking service and warehousing	243,326	3.5	1.4 – 5.6	67,106	6.5	1.0 – 11.9	143,033	9.6	5.2 – 14.0

See footnotes at end of table.

Table 10-11 (page 2 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current industry and smoking status, U.S. female residents age 18 and over, 1997–2004

Industry	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Other personal services	1,157,021	3.5	2.5 – 4.5	338,875	7.9	5.0 – 10.8	545,874	8.7	6.4 – 11.1
Food and kindred products	356,202	3.5	1.6 – 5.3	82,176	4.0	0.6 – 7.3	153,969	5.3	2.1 – 8.4
Insurance, real estate and other finance	1,723,351	3.3	2.5 – 4.1	575,972	6.7	4.6 – 8.7	654,735	8.2	6.1 – 10.4
Agriculture	424,619	3.2	1.3 – 5.2	109,108	3.5	0.0 – 7.2	151,299	6.1	2.5 – 9.7
Eating and drinking places	1,532,651	3.0	2.1 – 4.0	362,518	4.7	2.8 – 6.6	1,238,825	10.4	8.6 – 12.2
Hospitals	2,572,350	3.0	2.3 – 3.6	731,521	5.3	3.5 – 7.1	700,381	7.8	5.9 – 9.7
Construction	431,963	3.0	1.3 – 4.7	154,824	8.4	2.8 – 14.1	254,887	7.8	4.5 – 11.0
Textile mill and finished textile products	403,070	2.9	1.4 – 4.3	68,468	2.7	0.0 – 6.0	164,295	13.0	7.8 – 18.3
Legal, engineering and other professional services	1,417,427	2.9	2.0 – 3.7	456,017	4.2	2.4 – 6.0	405,375	7.8	5.4 – 10.2
Communications	475,732	2.6	1.3 – 4.0	141,236	6.3	2.9 – 9.8	169,933	11.5	6.5 – 16.5
Fabricated metal industries, including ordinance	108,970	2.4	0.2 – 4.6	49,008	0.6	0.0 – 1.7	73,872	10.0	2.1 – 17.9
Electrical machinery, equipment and supplies	328,265	2.3	0.7 – 3.9	100,196	13.0	5.9 – 20.1	153,787	11.4	5.7 – 17.0
Private households	515,069	2.3	1.2 – 3.5	127,154	11.3	4.8 – 17.8	152,052	11.3	6.4 – 16.3
Primary metal industry	46,408	1.0	0.0 – 3.1	23,590	1.6	0.0 – 4.7	34,601	13.7	3.3 – 24.1
Railroads	12,112	-	-	3,731	-	-	4,727	14.4	0.0 – 34.5
Forestry and fisheries	21,621	-	-	9,074	-	-	4,808	-	-
Armed forces (excludes Reserves and National Guard)	5,559	-	-	1,586	-	-	2,418	-	-
Refused, not ascertained, don't know	1,335,830	2.4	1.6 – 3.2	204,478	6.1	3.2 – 9.1	299,289	6.0	3.4 – 8.6
TOTAL	**36,823,429**	**3.7**	**3.5 – 3.9**	**10,455,109**	**5.9**	**5.4 – 6.3**	**13,501,485**	**9.5**	**9.0 – 10.0**

- No estimates due to no chronic obstructive pulmonary disease cases or no respondents.
NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-12 (page 1 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current occupation and smoking status, U.S. residents age 18 and over, 1997–2004

Occupation	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Secretaries, stenographers, and typists	1,647,055	4.5	3.5 – 5.6	511,196	4.1	2.6 – 5.7	520,023	10.8	8.1 – 13.6
Financial records processing	1,225,524	4.1	2.9 – 5.3	408,038	7.2	4.3 – 10.1	471,378	9.2	6.7 – 11.8
Personal service	1,671,660	3.8	2.9 – 4.8	505,212	7.9	5.6 – 10.2	574,309	9.8	7.4 – 12.2
Other administrative support	6,753,696	3.8	3.3 – 4.3	1,993,188	5.4	4.4 – 6.4	2,568,045	8.3	7.2 – 9.4
Health service	1,478,898	3.7	2.7 – 4.8	388,825	8.8	5.8 – 11.8	771,352	13.6	11.2 – 16.0
Officials and administrators, public administration	431,561	3.7	2.1 – 5.4	227,573	3.6	1.2 – 6.0	116,922	5.5	1.8 – 9.1
Teachers, librarians, and counselors	4,948,667	3.4	2.8 – 3.9	1,266,336	4.3	3.2 – 5.3	715,063	8.4	6.3 – 10.6
Fabricators, assemblers, inspectors and samplers	1,313,583	3.4	2.3 – 4.4	485,050	3.3	1.8 – 4.8	848,301	7.2	5.3 – 9.0
Other professional specialty	1,839,553	3.3	2.4 – 4.2	746,857	2.2	1.2 – 3.2	353,436	7.5	5.1 – 9.9
Supervisors and proprietors	1,999,234	3.3	2.4 – 4.1	865,136	4.8	3.3 – 6.3	983,403	5.2	3.8 – 6.5
Other sales	3,502,285	3.2	2.5 – 3.9	996,598	5.2	3.8 – 6.6	1,650,012	7.6	6.3 – 8.9
Management related	3,083,012	3.1	2.5 – 3.7	1,091,049	4.1	3.0 – 5.2	942,661	6.1	4.6 – 7.5
Writers, artists, entertainers, and athletes	1,375,809	3.1	2.2 – 4.0	530,710	4.5	2.7 – 6.4	409,918	4.5	2.6 – 6.4
Cleaning and building service	1,629,226	2.9	2.1 – 3.8	539,140	5.3	3.4 – 7.2	914,771	7.9	6.1 – 9.6
Other protective service	482,828	2.9	1.4 – 4.3	204,308	6.4	3.2 – 9.6	277,467	7.6	4.7 – 10.5
Health assessment and treating occupations	2,159,987	2.9	2.1 – 3.6	714,893	4.3	2.7 – 6.0	460,559	5.7	3.9 – 7.5
Architects and surveyors	139,408	2.9	0.1 – 5.7	59,655	-	-	30,361	1.3	0.0 – 3.8
Food service	2,639,156	2.8	2.1 – 3.5	661,352	6.1	4.1 – 8.1	2,065,809	7.7	6.4 – 8.9
Health technologist and technicians	1,118,460	2.7	1.8 – 3.6	331,759	4.8	2.5 – 7.1	411,523	9.7	7.0 – 12.5
Sales representatives, commodities and finance	2,333,049	2.6	2.0 – 3.2	1,037,844	4.1	2.9 – 5.3	851,895	5.5	4.0 – 7.0
Machine operators and tenderers, except precision	2,116,782	2.5	1.9 – 3.2	783,434	3.4	2.1 – 4.7	1,487,895	6.4	5.1 – 7.8
Managers and administrators, except public administration	6,742,102	2.5	2.1 – 2.8	2,993,673	3.5	2.8 – 4.1	2,735,852	5.8	4.9 – 6.7
Private household	447,868	2.3	1.1 – 3.4	110,594	11.4	4.1 – 18.6	130,476	9.6	4.1 – 15.1
Freight, stock and material handlers	2,076,217	2.3	1.6 – 2.9	514,471	3.9	2.1 – 5.7	1,237,022	5.7	4.3 – 7.0
Motor vehicle operators	1,717,097	2.3	1.6 – 3.0	921,745	5.7	4.1 – 7.2	1,367,693	5.6	4.3 – 6.8

See footnotes at end of table.

Table 10-12 (page 2 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current occupation and smoking status, U.S. residents age 18 and over, 1997–2004

Occupation	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Natural mathematical and computer scientists	1,726,080	2.2	1.5 – 2.8	559,678	3.4	1.9 – 5.0	354,239	3.8	1.9 – 5.6
Technologist and technicians except health	1,569,047	2.1	1.4 – 2.8	550,469	3.0	1.6 – 4.4	530,464	4.6	2.9 – 6.3
Mail and message distributing	460,542	2.0	0.8 – 3.2	220,229	3.0	1.2 – 4.8	208,084	7.4	3.4 – 11.4
Material moving equipment operators	497,904	1.9	0.6 – 3.2	258,145	4.4	1.7 – 7.1	415,126	7.2	4.1 – 10.3
Precision production	1,516,041	1.8	1.2 – 2.4	809,275	3.7	2.3 – 5.1	1,065,793	6.4	4.8 – 8.0
Engineers	1,319,393	1.7	0.8 – 2.5	418,724	3.0	1.4 – 4.5	248,887	5.0	2.5 – 7.5
Farm workers and other agricultural workers	1,061,841	1.7	0.8 – 2.6	331,277	4.0	1.9 – 6.1	586,400	4.0	2.6 – 5.5
Mechanics and repairers	1,987,325	1.6	1.0 – 2.2	1,187,400	4.6	3.1 – 6.0	1,496,680	4.4	3.2 – 5.6
Construction and extractive trades	2,446,680	1.4	0.9 – 1.9	1,102,800	3.1	2.0 – 4.2	2,252,697	4.0	3.2 – 4.9
Police and firefighters	883,103	1.3	0.6 – 2.1	296,303	3.8	1.6 – 6.1	264,605	4.3	1.4 – 7.2
Computer equipment operators	232,805	1.3	0.0 – 3.0	68,947	-	-	72,501	3.7	0.0 – 7.5
Farm operators and managers	543,609	1.0	0.2 – 1.8	209,737	4.8	1.9 – 7.6	136,582	4.2	0.8 – 7.7
Construction laborers	491,231	0.8	0.0 – 1.6	170,385	3.5	0.8 – 6.2	392,515	3.8	2.1 – 5.5
Health diagnosing	791,649	0.7	0.1 – 1.3	211,441	2.1	0.3 – 3.9	54,515	6.7	0.0 – 15.3
Military	10,579	-	-	7,194	-	-	5,189	8.5	0.0 – 25.4
Other transportation, except motor vehicles	85,616	-	-	52,319	-	-	54,987	8.1	0.6 – 15.6
Forestry and fishing	62,589	-	-	33,360	4.0	0.0 – 11.5	61,495	3.8	0.0 – 9.1
Refused, classified, not ascertained, don't know	2,830,322	1.8	1.3 – 2.3	603,219	4.5	2.9 – 6.1	785,103	4.0	2.7 – 5.3
TOTAL	**73,389,074**	**2.7**	**2.6 – 2.9**	**25,979,536**	**4.4**	**4.1 – 4.6**	**31,882,006**	**6.5**	**6.2 – 6.8**

- No estimates due to no chronic obstructive pulmonary disease cases or no respondents.
NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-13 (page 1 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current occupation and smoking status, U.S. male residents age 18 and over, 1997–2004

Occupation	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Health assessment and treating occupations	266,133	3.3	0.1 – 6.5	105,458	3.0	0.0 – 6.4	61,057	5.3	0.0 – 11.1
Private household	16,639	3.2	0.0 – 9.3	6,273	-	-	12,539	14.4	0.0 – 39.9
Architects and surveyors	106,282	3.0	0.0 – 6.5	55,679	0.0	0.0 – 0.0	26,818	1.5	0.0 – 4.3
Cleaning and building service	770,123	2.9	1.7 – 4.2	372,619	5.0	2.8 – 7.3	513,867	6.4	4.2 – 8.6
Financial records processing	126,989	2.7	0.0 – 5.6	36,289	-	-	47,428	9.8	0.0 – 20.8
Personal service	262,401	2.7	0.6 – 4.8	107,086	6.6	2.1 – 11.1	113,402	7.6	1.7 – 13.4
Other protective service	334,597	2.7	0.8 – 4.6	169,258	5.6	2.4 – 8.7	195,834	5.9	2.7 – 9.1
Fabricators, assemblers, inspectors and samplers	725,366	2.5	1.2 – 3.8	347,934	2.0	0.5 – 3.6	575,251	6.2	3.9 – 8.4
Other administrative support	1,645,339	2.4	1.6 – 3.2	602,798	4.0	2.5 – 5.5	739,051	5.6	3.8 – 7.4
Other sales	1,265,216	2.4	1.3 – 3.6	457,155	3.0	1.3 – 4.7	616,122	2.5	1.3 – 3.7
Machine operators and tenderers, except precision	1,261,403	2.2	1.3 – 3.1	586,889	2.7	1.3 – 4.1	1,056,088	4.4	3.0 – 5.7
Management related	1,276,453	2.2	1.3 – 3.0	519,443	2.8	1.5 – 4.1	359,307	4.1	2.0 – 6.2
Supervisors and proprietors	1,186,269	2.2	1.2 – 3.1	562,384	4.6	2.7 – 6.4	559,240	3.3	1.7 – 4.9
Teachers, librarians, and counselors	1,478,263	2.1	1.3 – 2.8	454,889	2.6	1.2 – 4.0	239,180	4.6	1.4 – 7.7
Other professional specialty	929,846	2.1	1.1 – 3.1	415,843	2.0	0.6 – 3.4	147,738	4.1	1.6 – 6.6
Writers, artists, entertainers, and athletes	682,903	2.0	0.9 – 3.1	269,542	3.2	1.0 – 5.4	237,280	3.1	0.6 – 5.5
Officials and administrators, public administration	211,360	2.0	0.2 – 3.9	138,113	3.0	0.0 – 5.9	55,574	1.0	0.0 – 3.0
Motor vehicle operators	1,455,594	1.9	1.1 – 2.6	836,860	4.9	3.4 – 6.5	1,207,036	4.1	3.0 – 5.3
Computer equipment operators	105,046	1.9	0.0 – 5.4	34,679	-	-	29,427	3.6	0.0 – 10.4
Freight, stock and material handlers	1,550,627	1.8	1.1 – 2.6	423,927	3.6	1.7 – 5.6	940,416	5.1	3.6 – 6.6
Secretaries, stenographers, and typists	36,824	1.8	0.0 – 5.3	12,609	-	-	11,328	-	-
Material moving equipment operators	468,082	1.7	0.5 – 2.9	244,794	4.5	1.6 – 7.3	382,728	7.7	4.4 – 11.0
Engineers	1,168,355	1.7	0.8 – 2.6	390,963	2.7	1.1 – 4.4	224,853	3.2	1.1 – 5.3
Managers and administrators, except public administration	3,874,063	1.6	1.2 – 2.0	1,917,436	2.7	1.9 – 3.5	1,568,857	4.2	3.0 – 5.3

See footnotes at end of table.

Table 10-13 (page 2 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current occupation and smoking status, U.S. male residents age 18 and over, 1997–2004

Occupation	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Food service	1,075,914	1.6	0.8 – 2.5	259,196	3.6	0.0 – 7.3	855,512	3.6	2.2 – 5.0
Technologist and technicians except health	1,048,132	1.6	0.8 – 2.4	408,722	2.5	1.0 – 4.0	345,442	3.0	1.1 – 4.8
Precision production	1,086,607	1.5	0.8 – 2.1	668,954	3.5	2.0 – 5.1	823,845	4.8	3.2 – 6.4
Mechanics and repairers	1,889,146	1.5	0.9 – 2.2	1,144,724	4.5	3.0 – 6.0	1,431,671	3.8	2.7 – 4.9
Farm workers and other agricultural workers	838,887	1.5	0.6 – 2.4	281,622	4.4	2.0 – 6.9	490,999	3.6	2.0 – 5.1
Sales representatives, commodities and finance	1,440,892	1.5	0.9 – 2.1	715,112	2.9	1.6 – 4.1	492,132	3.5	1.8 – 5.1
Natural mathematical and computer scientists	1,170,625	1.5	0.8 – 2.2	413,808	3.9	1.9 – 5.9	255,212	2.4	0.6 – 4.2
Construction and extractive trades	2,389,704	1.4	0.9 – 1.9	1,079,560	2.9	1.8 – 4.0	2,180,360	3.9	3.1 – 4.8
Police and firefighters	750,317	1.3	0.5 – 2.1	264,568	3.9	1.4 – 6.3	208,727	2.9	0.0 – 6.0
Health technologist and technicians	229,360	1.1	0.0 – 2.5	64,601	2.6	0.0 – 6.5	79,124	6.8	1.4 – 12.3
Health service	142,779	0.8	0.0 – 2.4	46,093	-	-	96,996	8.7	2.9 – 14.5
Farm operators and managers	443,572	0.8	0.0 – 1.6	183,077	4.0	1.4 – 6.7	108,186	5.3	1.0 – 9.7
Construction laborers	480,846	0.8	0.0 – 1.7	167,989	3.6	0.8 – 6.3	378,735	3.9	2.1 – 5.7
Health diagnosing	559,165	0.6	0.0 – 1.3	169,141	1.2	0.0 – 2.6	32,205	3.1	0.0 – 9.0
Mail and message distributing	265,063	0.4	0.0 – 1.2	136,442	2.4	0.3 – 4.6	113,527	5.7	0.5 – 10.8
Military	7,735	-	-	5,609	-	-	3,218	13.7	0.0 – 40.7
Other transportation, except motor vehicles	84,043	-	-	51,671	-	-	52,907	8.0	0.3 – 15.7
Forestry and fishing	59,941	-	-	31,491	4.2	0.0 – 12.2	60,674	3.9	0.0 – 9.2
Refused, classified, not ascertained, don't know	1,398,747	1.0	0.5 – 1.5	363,129	2.9	1.1 – 4.7	450,633	2.4	1.1 – 3.8
TOTAL	**36,565,645**	**1.8**	**1.6 – 1.9**	**15,524,427**	**3.4**	**3.1 – 3.7**	**18,380,521**	**4.3**	**4.0 – 4.6**

- No estimates due to no chronic obstructive pulmonary disease cases or no respondents.
NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.

Table 10-14 (page 1 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current occupation and smoking status, U.S. female residents age 18 and over, 1997–2004

Occupation	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Material moving equipment operators	29,822	5.9	0.0 – 17.0	13,351	3.2	0.0 – 9.5	32,397	1.8	0.0 – 5.4
Officials and administrators, public administration	220,201	5.4	2.6 – 8.2	89,460	4.5	0.4 – 8.7	61,349	9.5	3.0 – 16.0
Supervisors and proprietors	812,965	4.9	3.3 – 6.5	302,753	5.2	2.8 – 7.7	424,163	7.6	5.1 – 10.1
Motor vehicle operators	261,503	4.8	2.4 – 7.2	84,885	12.7	5.8 – 19.6	160,657	16.2	0.5 – 21.9
Secretaries, stenographers, and typists	1,610,231	4.6	3.5 – 5.7	498,587	4.3	2.6 – 5.9	508,695	11.1	8.3 – 13.9
Other professional specialty	909,707	4.5	3.0 – 6.0	331,015	2.5	1.1 – 3.9	205,699	9.9	6.2 – 13.6
Fabricators, assemblers, inspectors and samplers	588,217	4.4	2.7 – 6.2	137,116	6.4	2.7 – 10.1	273,050	9.3	6.1 – 12.4
Sales representatives, commodities and finance	892,157	4.4	3.0 – 5.7	322,732	6.8	4.1 – 9.5	359,762	8.3	5.6 – 11.0
Mail and message distributing	195,479	4.3	1.7 – 6.9	83,788	3.9	0.6 – 7.2	94,557	9.5	3.3 – 15.8
Other administrative support	5,108,357	4.3	3.7 – 4.8	1,390,390	6.0	4.8 – 7.3	1,828,994	9.4	8.0 – 10.7
Financial records processing	1,098,535	4.3	3.0 – 5.5	371,749	7.9	4.8 – 11.1	423,950	9.2	6.6 – 11.7
Writers, artists, entertainers, and athletes	692,906	4.2	2.8 – 5.6	261,168	5.9	2.9 – 8.9	172,638	6.4	3.3 – 9.5
Health service	1,336,120	4.1	3.0 – 5.2	342,732	10.0	6.6 – 13.4	674,356	14.3	11.7 – 17.0
Personal service	1,409,260	4.0	3.0 – 5.1	398,126	8.2	5.5 – 10.9	460,906	10.3	7.7 – 12.9
Teachers, librarians, and counselors	3,470,404	3.9	3.2 – 4.6	811,447	5.2	3.7 – 6.7	475,883	10.4	7.5 – 13.2
Management related	1,806,559	3.7	2.9 – 4.5	571,607	5.3	3.5 – 7.1	583,354	7.2	5.3 – 9.2
Other sales	2,237,069	3.6	2.8 – 4.5	539,443	7.1	5.0 – 9.3	1,033,890	10.6	8.7 – 12.5
Food service	1,563,242	3.6	2.6 – 4.7	402,155	7.7	5.3 – 10.0	1,210,298	10.5	8.7 – 12.4
Managers and administrators, except public administration	2,868,040	3.6	2.9 – 4.2	1,076,238	4.8	3.6 – 6.0	1,166,996	8.0	6.4 – 9.5
Freight, stock and material handlers	525,591	3.6	2.1 – 5.1	90,544	5.1	0.9 – 9.3	296,607	7.4	4.5 – 10.3
Natural mathematical and computer scientists	555,456	3.6	2.2 – 5.1	145,870	2.1	0.5 – 3.7	99,027	7.3	2.6 – 12.0
Other protective service	148,231	3.2	0.8 – 5.5	35,050	10.4	0.0 – 21.2	81,632	11.7	5.7 – 17.8
Health technologist and technicians	889,100	3.1	2.0 – 4.2	267,158	5.3	2.6 – 8.1	332,399	10.4	7.3 – 13.6
Mechanics and repairers	98,179	3.0	0.0 – 6.5	42,676	6.6	0.0 – 13.2	65,010	17.3	6.6 – 28.0
Machine operators and tenderers, except precision	855,380	3.0	2.0 – 4.0	196,545	5.6	2.3 – 8.8	431,808	11.5	8.5 – 14.5

See footnotes at end of table.

Table 10-14 (page 2 of 2). Chronic obstructive pulmonary disease: Estimated prevalence by current occupation and smoking status, U.S. female residents age 18 and over, 1997–2004

Occupation	Nonsmokers			Former Smokers			Current Smokers		
	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval	Estimated Population	Prevalence (%)	95% Confidence Interval
Technologist and technicians except health	520,915	3.0	1.6 – 4.3	141,747	4.4	1.2 – 7.6	185,022	7.7	4.3 – 11.2
Cleaning and Building service	859,103	2.9	1.8 – 4.0	166,521	5.8	2.3 – 9.3	400,905	9.7	7.1 – 12.3
Health assessment and treating occupations	1,893,854	2.8	2.1 – 3.5	609,435	4.6	2.7 – 6.4	399,501	5.7	3.8 – 7.7
Precision production	429,435	2.7	1.3 – 4.1	140,321	4.4	0.6 – 8.2	241,948	11.7	7.3 – 16.2
Farm workers and other agricultural workers	222,954	2.7	0.2 – 5.2	49,655	1.6	0.0 – 4.6	95,402	6.6	2.0 – 11.1
Architects and surveyors	33,126	2.6	0.0 – 6.2	3,977	-	-	3,543	-	-
Private household	431,229	2.2	1.0 – 3.4	104,321	12.0	4.4 – 19.7	117,937	9.1	3.6 – 14.5
Police and firefighters	132,786	1.9	0.4 – 3.4	31,735	3.4	0.0 – 8.3	55,878	9.7	2.5 – 16.8
Farm operators and managers	100,037	1.9	0.0 – 4.4	26,660	9.9	0.0 – 23.1	28,396	-	-
Engineers	151,038	1.7	0.0 – 3.5	27,760	5.9	0.0 – 12.5	24,035	22.4	7.0 – 37.7
Health diagnosing	232,484	0.9	0.0 – 1.8	42,299	5.7	0.0 – 12.3	22,309	12.0	0.0 – 30.5
Computer equipment operators	127,759	0.8	0.0 – 1.7	34,268	0.0	0.0 – 0.0	43,075	3.8	0.0 – 8.1
Construction and extractive trades	56,976	0.4	0.0 – 1.1	23,240	9.5	0.0 – 23.1	72,338	6.1	1.4 – 10.8
Other transportation, except motor vehicles	1,572	-	-	648	-	-	2,080	11.2	0.0 – 33.9
Forestry and fishing	2,648	-	-	1,869	-	-	821	-	-
Construction laborers	10,386	-	-	2,396	-	-	13,780	-	-
Military	2,844	-	-	1,586	-	-	1,971	-	-
Refused, classified, not ascertained, don't know	1,431,575	2.7	1.9 – 3.4	240,090	6.9	3.9 – 9.9	334,469	6.0	3.6 – 8.5
TOTAL	**36,823,429**	**3.7**	**3.5 – 3.9**	**10,455,109**	**5.9**	**5.4 – 6.3**	**13,501,485**	**9.5**	**9.0 – 10.0**

- No estimates due to no chronic obstructive pulmonary disease cases or no respondents.
NOTE: See appendices for source description, methods, and ICD codes.
SOURCE: National Center for Health Statistics National Health Interview Survey.