



S2401 OCCUPATION BY SEX AND MEDIAN EARNINGS IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) FOR THE CIVILIAN EMPLOYED POPULATION 16 YEARS AND OVER

2008-2012 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

Subject	Essex County, Massachusetts				
	Total		Male		Female
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Civilian employed population 16 years and over	368,006	+/-2,532	50.5%	+/-0.3	49.5%
Management, business, science, and arts occupations:	150,499	+/-2,196	47.3%	+/-0.8	52.7%
Management, business, and financial occupations:	61,193	+/-1,542	55.8%	+/-1.3	44.2%
Management occupations	40,872	+/-1,339	60.2%	+/-1.6	39.8%
Business and financial operations occupations	20,321	+/-901	46.9%	+/-2.2	53.1%
Computer, engineering, and science occupations:	23,580	+/-971	75.0%	+/-1.8	25.0%
Computer and mathematical occupations	10,742	+/-635	73.5%	+/-2.2	26.5%
Architecture and engineering occupations	8,525	+/-562	87.9%	+/-2.4	12.1%
Life, physical, and social science occupations	4,313	+/-465	53.0%	+/-5.3	47.0%
Education, legal, community service, arts, and media occupations:	42,911	+/-1,440	32.9%	+/-1.5	67.1%
Community and social services occupations	6,813	+/-642	31.0%	+/-3.4	69.0%
Legal occupations	5,214	+/-508	52.4%	+/-4.0	47.6%
Education, training, and library occupations	22,979	+/-1,024	23.4%	+/-1.6	76.6%
Arts, design, entertainment, sports, and media occupations	7,905	+/-644	49.4%	+/-3.4	50.6%
Healthcare practitioner and technical occupations:	22,815	+/-1,055	23.2%	+/-1.7	76.8%
Health diagnosing and treating practitioners and other technical occupations	15,844	+/-822	24.8%	+/-2.1	75.2%
Health technologists and technicians	6,971	+/-542	19.5%	+/-3.3	80.5%
Service occupations:	62,667	+/-1,462	43.0%	+/-1.5	57.0%
Healthcare support occupations	10,177	+/-658	12.4%	+/-2.3	87.6%
Protective service occupations:	6,746	+/-482	78.7%	+/-3.7	21.3%
Fire fighting and prevention, and other protective service workers including supervisors	4,176	+/-405	75.2%	+/-5.3	24.8%
Law enforcement workers including supervisors	2,570	+/-302	84.5%	+/-4.8	15.5%
Food preparation and serving related occupations	18,905	+/-1,028	44.3%	+/-2.9	55.7%
Building and grounds cleaning and maintenance occupations	12,499	+/-837	68.0%	+/-3.4	32.0%
Personal care and service occupations	14,340	+/-813	24.1%	+/-2.7	75.9%
Sales and office occupations:	92,275	+/-1,855	39.1%	+/-1.0	60.9%
Sales and related occupations	41,617	+/-1,213	51.6%	+/-1.7	48.4%
Office and administrative support occupations	50,658	+/-1,399	28.8%	+/-1.3	71.2%
Natural resources, construction, and maintenance occupations:	25,218	+/-1,214	95.9%	+/-0.8	4.1%
Farming, fishing, and forestry occupations	984	+/-241	74.5%	+/-13.2	25.5%
Construction and extraction occupations	15,576	+/-897	97.4%	+/-0.9	2.6%
Installation, maintenance, and repair occupations	8,658	+/-681	95.8%	+/-1.4	4.2%

Subject	Essex County, Massachusetts				
	Total		Male		Female
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Production, transportation, and material moving occupations:	37,347	+/-1,400	73.2%	+/-1.5	26.8%
Production occupations	20,082	+/-955	67.0%	+/-2.3	33.0%
Transportation occupations	9,977	+/-688	85.4%	+/-2.4	14.6%
Material moving occupations	7,288	+/-624	73.6%	+/-3.9	26.4%
PERCENT IMPUTED					
Occupation	6.0%	(X)	(X)	(X)	(X)

Subject	Essex County, Massachusetts				
	Female	Median earnings (dollars)		Median earnings (dollars) for male	
	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Civilian employed population 16 years and over	+/-0.3	41,299	+/-433	50,714	+/-671
Management, business, science, and arts occupations:	+/-0.8	64,242	+/-603	82,179	+/-1,722
Management, business, and financial occupations:	+/-1.3	74,794	+/-1,803	92,569	+/-2,420
Management occupations	+/-1.6	80,626	+/-3,066	95,650	+/-2,941
Business and financial operations occupations	+/-2.2	65,274	+/-2,440	85,216	+/-4,860
Computer, engineering, and science occupations:	+/-1.8	82,361	+/-2,520	88,087	+/-3,838
Computer and mathematical occupations	+/-2.2	85,321	+/-5,106	91,901	+/-3,636
Architecture and engineering occupations	+/-2.4	86,260	+/-2,837	87,948	+/-3,991
Life, physical, and social science occupations	+/-5.3	65,464	+/-4,810	74,429	+/-10,525
Education, legal, community service, arts, and media occupations:	+/-1.5	45,010	+/-1,920	55,527	+/-3,777
Community and social services occupations	+/-3.4	41,312	+/-2,997	43,358	+/-8,119
Legal occupations	+/-4.0	81,816	+/-6,269	106,522	+/-14,359
Education, training, and library occupations	+/-1.6	43,783	+/-1,564	53,431	+/-3,674
Arts, design, entertainment, sports, and media occupations	+/-3.4	41,170	+/-2,096	45,203	+/-9,680
Healthcare practitioner and technical occupations:	+/-1.7	63,076	+/-1,416	88,329	+/-7,618
Health diagnosing and treating practitioners and other technical occupations	+/-2.1	74,380	+/-2,998	107,117	+/-6,053
Health technologists and technicians	+/-3.3	43,917	+/-2,712	51,809	+/-9,388
Service occupations:	+/-1.5	20,610	+/-476	26,316	+/-1,389
Healthcare support occupations	+/-2.3	25,612	+/-956	28,888	+/-3,044
Protective service occupations:	+/-3.7	56,097	+/-4,622	60,923	+/-5,063
Fire fighting and prevention, and other protective service workers including supervisors	+/-5.3	37,355	+/-7,078	46,745	+/-10,067
Law enforcement workers including supervisors	+/-4.8	76,481	+/-6,383	79,173	+/-6,051
Food preparation and serving related occupations	+/-2.9	15,548	+/-900	20,334	+/-985
Building and grounds cleaning and maintenance occupations	+/-3.4	21,785	+/-1,235	27,173	+/-2,863
Personal care and service occupations	+/-2.7	16,360	+/-956	19,153	+/-4,241
Sales and office occupations:	+/-1.0	33,130	+/-1,047	43,079	+/-1,714
Sales and related occupations	+/-1.7	33,732	+/-2,776	51,222	+/-1,817
Office and administrative support occupations	+/-1.3	32,922	+/-949	34,480	+/-1,836
Natural resources, construction, and maintenance occupations:	+/-0.8	42,669	+/-1,451	43,400	+/-1,543
Farming, fishing, and forestry occupations	+/-13.2	30,417	+/-4,126	35,215	+/-7,027
Construction and extraction occupations	+/-0.9	41,692	+/-1,900	42,128	+/-2,135
Installation, maintenance, and repair occupations	+/-1.4	45,348	+/-3,013	45,706	+/-3,283
Production, transportation, and material moving occupations:	+/-1.5	31,209	+/-699	36,439	+/-1,518
Production occupations	+/-2.3	33,638	+/-1,228	42,035	+/-1,723
Transportation occupations	+/-2.4	32,327	+/-2,184	34,859	+/-3,369
Material moving occupations	+/-3.9	20,817	+/-1,413	23,156	+/-2,736
PERCENT IMPUTED					
Occupation	(X)	(X)	(X)	(X)	(X)

Subject	Essex County, Massachusetts	
	Median earnings (dollars) for female	
	Estimate	Margin of Error
Civilian employed population 16 years and over	33,318	+/-815
Management, business, science, and arts occupations:	53,665	+/-706
Management, business, and financial occupations:	58,345	+/-2,323
Management occupations	61,729	+/-2,307
Business and financial operations occupations	55,041	+/-1,588
Computer, engineering, and science occupations:	72,939	+/-7,389
Computer and mathematical occupations	76,426	+/-2,960
Architecture and engineering occupations	73,839	+/-12,140
Life, physical, and social science occupations	57,969	+/-6,906
Education, legal, community service, arts, and media occupations:	41,761	+/-1,183
Community and social services occupations	40,719	+/-3,241
Legal occupations	56,277	+/-5,990
Education, training, and library occupations	41,545	+/-1,658
Arts, design, entertainment, sports, and media occupations	35,566	+/-4,898
Healthcare practitioner and technical occupations:	59,800	+/-2,156
Health diagnosing and treating practitioners and other technical occupations	66,445	+/-1,947
Health technologists and technicians	42,737	+/-2,500
Service occupations:	17,088	+/-575
Healthcare support occupations	25,270	+/-1,097
Protective service occupations:	23,333	+/-15,347
Fire fighting and prevention, and other protective service workers including supervisors	14,693	+/-4,275
Law enforcement workers including supervisors	66,711	+/-5,004
Food preparation and serving related occupations	13,300	+/-1,087
Building and grounds cleaning and maintenance occupations	16,214	+/-1,358
Personal care and service occupations	15,983	+/-1,065
Sales and office occupations:	29,797	+/-1,267
Sales and related occupations	20,623	+/-1,372
Office and administrative support occupations	32,409	+/-782
Natural resources, construction, and maintenance occupations:	28,313	+/-8,155
Farming, fishing, and forestry occupations	20,552	+/-4,279
Construction and extraction occupations	23,424	+/-7,044
Installation, maintenance, and repair occupations	39,731	+/-8,315
Production, transportation, and material moving occupations:	21,714	+/-1,079
Production occupations	23,753	+/-1,771
Transportation occupations	21,360	+/-2,324
Material moving occupations	17,256	+/-2,470
PERCENT IMPUTED		
Occupation	(X)	(X)

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

The methodology for calculating median income and median earnings changed between 2008 and 2009. Medians over \$75,000 were most likely affected. The underlying income and earning distribution now uses \$2,500 increments up to \$250,000 for households, non-family households, families, and individuals and employs a linear interpolation method for median calculations. Before 2009 the highest income category was \$200,000 for households, families and non-family households (\$100,000 for individuals) and portions of the income and earnings distribution contained intervals wider than \$2,500. Those cases used a Pareto Interpolation Method.

Census occupation codes are 4-digit codes and are based on the Standard Occupational Classification (SOC). The Census occupation codes for 2010 and later years are based on the 2010 revision of the SOC. To allow for the creation of 2007-2011 and 2009-2011

tables, occupation data in the multiyear files (2007-2011 and 2009-2011) were recoded to 2011 Census occupation codes. We recommend using caution when comparing data coded using 2011 Census occupation codes with data coded using Census occupation codes prior to 2010. For more information on the Census occupation code changes, please visit our website at <http://www.census.gov/hhes/www/ioindex/>.

While the 2008-2012 American Community Survey (ACS) data generally reflect the December 2009 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2000 data. Boundaries for urban areas have not been updated since Census 2000. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2008-2012 American Community Survey

Explanation of Symbols:

1. An '***' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
6. An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An '(X)' means that the estimate is not applicable or not available.