

Table I-4. Cumulative proportion of total 2002 employment and 2002–12 projected employment change accounted for by high-wage, high-growth occupations

(Employment in thousands)

2002 national employment matrix occupation	Educational attainment cluster ¹	2002 employment	2002 median annual earnings	Cumulative percentage of total 2002 employment accounted for by this and all previous occupations listed in this table	Employment change, 2002–12		Cumulative percentage of total projected employment change, 2002–12 accounted for by this and all previous occupations listed in this table
					Numeric	Percent	
47-2082 Tapers	HS	41	\$39,000	0.0	8	20.8	0.0
47-2171 Reinforcing iron and rebar workers	HS	29	36,740	.0	5	16.7	.1
47-2044 Tile and marble setters	HS	33	35,770	.1	9	26.5	.1
47-2081 Drywall and ceiling tile installers	HS	135	33,710	.2	29	21.4	.2
47-2041 Carpet installers	HS	82	32,590	.2	14	16.8	.3
47-4041 Hazardous materials removal workers	HS	38	32,460	.2	16	43.1	.4
47-2051 Cement masons and concrete finishers	HS	182	30,660	.4	47	26.1	.6
47-2181 Roofers	HS	166	30,180	.5	31	18.6	.7
47-2053 Terrazzo workers and finishers	HS	6	27,910	.5	1	15.2	.8
47-4021 Elevator installers and repairers	HS/SC	21	54,070	.5	4	17.1	.8
49-1011 First-line supervisors/managers of mechanics, installers, and repairers	HS/SC	444	47,580	.8	68	15.4	1.1
47-2111 Electricians	HS/SC	659	41,390	1.3	154	23.4	1.8
47-2221 Structural iron and steel workers	HS/SC	78	40,660	1.3	12	15.9	1.9
47-2152 Plumbers, pipefitters, and steamfitters	HS/SC	492	40,170	1.7	92	18.7	2.3
49-9052 Telecommunications line installers and repairers	HS/SC	167	39,640	1.8	31	18.8	2.5
53-1011 Aircraft cargo handling supervisors	HS/SC	9	37,220	1.8	1	15.6	2.5
17-3025 Environmental engineering technicians	HS/SC	19	36,850	1.8	5	28.4	2.5
33-2011 Fire fighters	HS/SC	282	36,230	2.0	58	20.7	2.8
49-3099 All other vehicle and mobile equipment mechanics, installers, and repairers	HS/SC	36	35,840	2.0	6	15.4	2.8
49-2099 All other electrical and electronic equipment mechanics, installers, and repairers	HS/SC	22	35,160	2.0	4	19.6	2.8
43-6012 Legal secretaries	HS/SC	264	35,020	2.2	50	18.8	3.0
49-9021 Heating, air conditioning, and refrigeration mechanics and installers	HS/SC	249	34,900	2.4	79	31.8	3.4
47-2211 Sheet metal workers	HS/SC	205	34,560	2.5	41	19.8	3.6
29-2054 Respiratory therapy technicians	HS/SC	26	34,130	2.6	9	34.2	3.6
51-9122 Painters, transportation equipment	HS/SC	50	33,550	2.6	9	17.5	3.7
51-8031 Water and liquid waste treatment plant and system operators	HS/SC	99	33,390	2.7	16	16.0	3.8
53-3032 Truck drivers, heavy and tractor-trailer	HS/SC	1,767	33,210	3.9	337	19.0	5.3
37-1012 First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	HS/SC	150	33,050	4.0	32	21.6	5.5
33-3012 Correctional officers and jailers	HS/SC	427	32,670	4.3	103	24.2	6.0
49-2098 Security and fire alarm systems installers	HS/SC	46	32,370	4.3	14	30.2	6.0
43-9031 Desktop publishers	HS/SC	35	31,620	4.3	10	29.2	6.1
47-2121 Glaziers	HS/SC	49	31,620	4.4	8	17.2	6.1
29-2061 Licensed practical and licensed vocational nurses	HS/SC	702	31,440	4.9	142	20.2	6.8
43-5011 Cargo and freight agents	HS/SC	59	31,410	4.9	9	15.5	6.8
29-2055 Surgical technologists	HS/SC	72	31,210	5.0	20	27.9	6.9
51-4192 Lay-out workers, metal and plastic	HS/SC	13	30,760	5.0	2	15.6	6.9
53-3021 Bus drivers, transit and intercity	HS/SC	202	29,580	5.1	31	15.2	7.1
27-2032 Choreographers	HS/SC	17	29,470	5.1	3	15.8	7.1
49-9042 Maintenance and repair workers, general	HS/SC	1,266	29,370	6.0	207	16.3	8.1
17-3031 Surveying and mapping technicians	HS/SC	60	29,230	6.0	14	23.2	8.1
49-9011 Mechanical door repairers	HS/SC	11	29,190	6.0	2	21.8	8.1
51-4121 Welders, cutters, solderers, and brazers	HS/SC	391	29,160	6.3	66	17.0	8.5
49-3051 Motorboat mechanics	HS/SC	22	29,050	6.3	4	18.3	8.5
47-2130 Insulation workers	HS/SC	53	28,930	6.4	8	15.8	8.5
49-9094 Locksmiths and safe repairers	HS/SC	23	28,430	6.4	5	21.0	8.5
37-1011 First-line supervisors/managers of housekeeping and janitorial workers	HS/SC	230	28,140	6.5	37	16.2	8.7
47-4071 Septic tank servicers and sewer pipe cleaners	HS/SC	18	27,940	6.6	4	21.2	8.7
35-1011 Chefs and head cooks	HS/SC	132	27,940	6.7	21	15.8	8.8
51-9082 Medical appliance technicians	HS/SC	14	27,680	6.7	2	16.1	8.8
11-1021 General and operations managers	HS/SC/C	2,049	68,210	8.1	376	18.4	10.6

See footnotes at end of table.

Table I-4. Cumulative proportion of total 2002 employment and 2002–12 projected employment change accounted for by high-wage, high-growth occupations—Continued

(Employment in thousands)

2002 national employment matrix occupation	Educational attainment cluster ¹	2002 employment	2002 median annual earnings	Cumulative percentage of total 2002 employment accounted for by this and all previous occupations listed in this table	Employment change, 2002–12		Cumulative percentage of total projected employment change, 2002–12 accounted for by this and all previous occupations listed in this table
					Numeric	Percent	
11-3071 Transportation, storage, and distribution managers ...	HS/SC/C	111	\$59,660	8.2	22	19.7	10.7
41-4011 Sales representatives, wholesale and manufacturing, technical and scientific products	HS/SC/C	398	55,740	8.4	77	19.3	11.1
11-3011 Administrative services managers	HS/SC/C	321	52,500	8.7	63	19.8	11.4
13-1051 Cost estimators	HS/SC/C	188	47,550	8.8	35	18.6	11.5
29-2091 Orthotists and prosthetists	HS/SC/C	5	46,260	8.8	1	18.9	11.5
33-1011 First-line supervisors/managers of correctional officers	HS/SC/C	33	44,940	8.8	6	19.0	11.6
13-2099 All other financial specialists	HS/SC/C	162	44,140	8.9	28	17.6	11.7
33-3052 Transit and railroad police	HS/SC/C	6	43,710	8.9	1	15.9	11.7
39-6031 Flight attendants	HS/SC/C	104	43,140	9.0	17	16.0	11.8
41-4012 Sales representatives, wholesale and manufacturing, except technical and scientific products	HS/SC/C	1,459	42,730	10.0	279	19.2	13.1
29-1031 Dietitians and nutritionists	HS/SC/C	49	41,170	10.1	9	17.8	13.1
19-4092 Forensic science technicians	HS/SC/C	8	41,040	10.1	2	18.9	13.1
25-2012 Kindergarten teachers, except special education	HS/SC/C	168	39,810	10.2	46	27.2	13.4
39-1011 Gaming supervisors	HS/SC/C	39	39,290	10.2	6	15.7	13.4
27-4014 Sound engineering technicians	HS/SC/C	13	36,970	10.2	3	25.5	13.4
27-2042 Musicians and singers	HS/SC/C	161	36,290	10.3	27	17.1	13.5
19-4091 Environmental science and protection technicians, including health	HS/SC/C	28	35,320	10.3	10	36.8	13.6
41-9098 All other sales and related workers	HS/SC/C	577	35,170	10.7	140	24.3	14.2
33-1099 All other first-line supervisors/managers, protective service workers	HS/SC/C	56	34,320	10.8	13	23.9	14.3
19-4098 All other life, physical, and social science technicians	HS/SC/C	137	34,030	10.9	24	17.5	14.4
27-2099 All other entertainers and performers, sports and related workers	HS/SC/C	56	33,740	10.9	9	16.4	14.5
49-2011 Computer, automated teller, and office machine repairers	HS/SC/C	156	33,250	11.0	24	15.0	14.6
19-4021 Biological technicians	HS/SC/C	48	32,710	11.1	9	19.4	14.6
29-9199 All other health practitioners and technical workers	HS/SC/C	190	31,690	11.2	52	27.2	14.8
27-4011 Audio and video equipment technicians	HS/SC/C	42	31,110	11.2	11	26.8	14.9
43-4161 Human resources assistants, except payroll and timekeeping	HS/SC/C	174	30,410	11.3	33	19.2	15.1
31-2011 Occupational therapist assistants	SC	18	36,660	11.4	7	39.2	15.1
11-1011 Chief executives	SC/C	553	126,260	11.7	93	16.8	15.5
11-3021 Computer and information systems managers	SC/C	284	85,240	11.9	103	36.1	16.0
11-2021 Marketing managers	SC/C	203	78,250	12.1	43	21.4	16.2
15-1011 Computer and information scientists, research	SC/C	23	77,760	12.1	7	30.0	16.2
11-2022 Sales managers	SC/C	343	75,040	12.3	105	30.5	16.7
11-3031 Financial managers	SC/C	599	73,340	12.7	109	18.3	17.2
11-3040 Human resources managers	SC/C	202	64,710	12.9	39	19.4	17.4
29-1071 Physician assistants	SC/C	63	64,670	12.9	31	48.8	17.6
15-1051 Computer systems analysts	SC/C	468	62,890	13.3	184	39.4	18.4
11-9111 Medical and health services managers	SC/C	244	61,370	13.4	71	29.3	18.8
33-1012 First-line supervisors/managers of police and detectives	SC/C	114	61,010	13.5	17	15.2	18.9
15-1081 Network systems and data communications analysts	SC/C	186	58,420	13.6	106	57.0	19.4
11-2011 Advertising and promotions managers	SC/C	85	57,130	13.7	21	25.0	19.5
15-1061 Database administrators	SC/C	110	55,480	13.8	49	44.2	19.7
33-1021 First-line supervisors/managers of fire fighting and prevention workers	SC/C	63	55,450	13.8	12	18.7	19.7
29-2021 Dental hygienists	SC/C	148	55,320	13.9	64	43.1	20.0
15-1071 Network and computer systems administrators	SC/C	251	54,810	14.1	94	37.4	20.5

See footnotes at end of table.

Table I-4. Cumulative proportion of total 2002 employment and 2002–12 projected employment change accounted for by high-wage, high-growth occupations—Continued

(Employment in thousands)

2002 national employment matrix occupation	Educational attainment cluster ¹	2002 employment	2002 median annual earnings	Cumulative percentage of total 2002 employment accounted for by this and all previous occupations listed in this table	Employment change, 2002–12		Cumulative percentage of total projected employment change, 2002–12 accounted for by this and all previous occupations listed in this table
					Numeric	Percent	
15-1099 All other computer specialists	SC/C	192	\$54,070	14.2	70	36.5	20.8
33-3021 Detectives and criminal investigators	SC/C	94	51,410	14.3	21	22.4	20.9
13-1198 All other business operations specialists	SC/C	1,056	50,680	15.0	290	27.5	22.3
29-1124 Radiation therapists	SC/C	14	50,640	15.0	4	31.6	22.3
27-3042 Technical writers	SC/C	50	50,580	15.1	13	27.1	22.4
29-2033 Nuclear medicine technologists	SC/C	17	48,750	15.1	4	23.6	22.4
29-2032 Diagnostic medical sonographers	SC/C	37	48,660	15.1	9	24.0	22.4
29-1111 Registered nurses	SC/C	2,284	48,090	16.7	623	27.3	25.3
27-2012 Producers and directors	SC/C	76	46,240	16.7	14	18.2	25.4
27-2021 Athletes and sports competitors	SC/C	15	45,320	16.7	3	19.2	25.4
13-1072 Compensation, benefits, and job analysis specialists	SC/C	91	45,100	16.8	25	28.0	25.5
13-2072 Loan officers	SC/C	223	43,980	17.0	42	18.8	25.7
27-1014 Multi-media artists and animators	SC/C	75	43,980	17.0	12	15.8	25.8
13-1061 Emergency management specialists	SC/C	11	43,560	17.0	3	28.2	25.8
29-2011 Medical and clinical laboratory technologists	SC/C	150	42,910	17.1	29	19.3	25.9
13-2041 Credit analysts	SC/C	66	42,910	17.2	12	18.7	26.0
13-1073 Training and development specialists	SC/C	209	42,800	17.3	58	27.9	26.3
33-3051 Police and sheriff's patrol officers	SC/C	619	42,270	17.8	153	24.7	27.0
13-2021 Appraisers and assessors of real estate	SC/C	88	41,760	17.8	16	17.6	27.1
29-1126 Respiratory therapists	SC/C	86	40,220	17.9	30	34.8	27.2
13-1071 Employment, recruitment, and placement specialists	SC/C	175	39,410	18.0	48	27.3	27.4
27-1025 Interior designers	SC/C	60	39,180	18.0	13	21.7	27.5
15-1041 Computer support specialists	SC/C	507	39,100	18.4	153	30.3	28.2
29-2034 Radiologic technologists and technicians	SC/C	174	38,970	18.5	40	23.0	28.4
27-3099 All other media and communication workers	SC/C	58	38,680	18.5	10	17.2	28.4
27-4032 Film and video editors	SC/C	19	38,270	18.6	5	26.4	28.5
23-2011 Paralegals and legal assistants	SC/C	200	37,950	18.7	57	28.7	28.7
13-1121 Meeting and convention planners	SC/C	37	37,420	18.7	8	21.3	28.8
27-1024 Graphic designers	SC/C	212	36,680	18.9	46	21.9	29.0
29-2031 Cardiovascular technologists and technicians	SC/C	43	36,430	18.9	15	33.5	29.1
25-3011 Adult literacy, remedial education, and GED teachers and instructors	SC/C	80	36,400	19.0	16	20.4	29.1
21-1091 Health educators	SC/C	45	36,240	19.0	10	21.9	29.2
31-2021 Physical therapist assistants	SC/C	50	36,080	19.0	22	44.6	29.3
53-2022 Airfield operations specialists	SC/C	6	36,010	19.0	1	17.2	29.3
27-1013 Fine artists, including painters, sculptors, and illustrators	SC/C	23	35,260	19.0	4	16.5	29.3
27-4099 All other media and communication equipment workers	SC/C	24	34,680	19.1	5	20.1	29.3
27-1027 Set and exhibit designers	SC/C	12	33,870	19.1	3	20.9	29.3
27-3091 Interpreters and translators	SC/C	24	32,590	19.1	5	22.0	29.4
13-2071 Loan counselors	SC/C	31	32,010	19.1	6	17.8	29.4
25-3021 Self-enrichment education teachers	SC/C	200	29,320	19.2	80	40.1	29.8
33-9021 Private detectives and investigators	SC/C	48	29,300	19.3	12	25.3	29.8
25-3999 All other teachers, primary, secondary, and adult	SC/C	679	29,250	19.8	229	33.7	30.9
29-2012 Medical and clinical laboratory technicians	SC/C	147	29,040	19.9	29	19.4	31.0
31-9011 Massage therapists	SC/C	92	28,610	19.9	25	27.0	31.1
21-2021 Directors, religious activities and education	SC/C	105	28,020	20.0	25	24.1	31.3
27-2022 Coaches and scouts	SC/C	130	27,880	20.1	24	18.3	31.4
29-1060 Physicians and surgeons	C	583	145,600	20.5	114	19.5	31.9
53-2011 Airline pilots, copilots, and flight engineers	C	79	109,580	20.5	15	18.5	32.0
29-1081 Podiatrists	C	13	94,870	20.6	2	15.0	32.0
23-1011 Lawyers	C	695	90,290	21.0	118	17.0	32.5
29-1041 Optometrists	C	32	86,090	21.1	5	17.1	32.6

See footnotes at end of table.

Table I-4. Cumulative proportion of total 2002 employment and 2002–12 projected employment change accounted for by high-wage, high-growth occupations—Continued

(Employment in thousands)

2002 national employment matrix occupation		Educational attainment cluster ¹	2002 employment	2002 median annual earnings	Cumulative percentage of total 2002 employment accounted for by this and all previous occupations listed in this table	Employment change, 2002–12		Cumulative percentage of total projected employment change, 2002–12 accounted for by this and all previous occupations listed in this table
						Numeric	Percent	
29-1051	Pharmacists	C	230	\$77,050	21.2	69	30.1	32.9
15-1032	Computer software engineers, systems software	C	281	74,040	21.4	128	45.5	33.5
11-9032	Education administrators, elementary and secondary school	C	217	71,490	21.6	45	20.7	33.7
15-1031	Computer software engineers, applications	C	394	70,900	21.8	179	45.5	34.5
15-2011	Actuaries	C	15	69,970	21.8	2	14.9	34.6
29-1011	Chiropractors	C	49	65,330	21.9	11	23.3	34.6
11-9033	Education administrators, postsecondary	C	125	64,640	22.0	32	25.9	34.8
19-3032	Industrial-organizational psychologists	C	2	63,710	22.0	0	16.0	34.8
41-9031	Sales engineers	C	82	63,660	22.0	16	19.9	34.8
29-1131	Veterinarians	C	58	63,090	22.1	14	25.1	34.9
17-2081	Environmental engineers	C	47	61,410	22.1	18	38.2	35.0
11-2031	Public relations managers	C	69	60,640	22.1	16	23.4	35.1
17-2031	Biomedical engineers	C	8	60,410	22.2	2	26.1	35.1
19-1021	Biochemists and biophysicists	C	17	60,390	22.2	4	22.9	35.1
13-1111	Management analysts	C	577	60,340	22.6	176	30.4	35.9
19-2021	Atmospheric and space scientists	C	8	60,200	22.6	1	16.2	35.9
11-9039	Education administrators, all other	C	27	57,840	22.6	5	19.1	36.0
29-1123	Physical therapists	C	137	57,330	22.7	48	35.3	36.2
13-2051	Financial analysts	C	172	57,100	22.8	32	18.7	36.3
19-1042	Medical scientists, except epidemiologists	C	58	56,980	22.8	16	26.9	36.4
13-2052	Personal financial advisors	C	126	56,680	22.9	44	34.6	36.6
17-1011	Architects, except landscape and naval	C	113	56,620	23.0	20	17.2	36.7
19-2043	Hydrologists	C	8	56,530	23.0	2	21.0	36.7
13-1011	Agents and business managers of artists, performers, and athletes	C	15	55,730	23.0	4	27.8	36.7
19-1041	Epidemiologists	C	4	53,840	23.0	1	32.5	36.7
19-3021	Market research analysts	C	134	53,810	23.1	31	23.4	36.9
19-3092	Geographers	C	1	53,420	23.1	0	19.5	36.9
19-1029	Biological scientists, all other	C	27	53,300	23.1	6	22.3	36.9
29-1198	All other health diagnosing and treating practitioners	C	107	52,430	23.2	26	24.5	37.0
29-1122	Occupational therapists	C	82	51,990	23.3	29	35.2	37.2
19-3031	Clinical, counseling, and school psychologists	C	137	51,170	23.4	34	24.4	37.3
19-1022	Microbiologists	C	16	51,020	23.4	3	20.0	37.3
29-1127	Speech-language pathologists	C	94	49,450	23.4	26	27.2	37.5
25-1000	Postsecondary teachers	C	1,581	49,090	24.5	603	38.1	40.3
29-1121	Audiologists	C	11	48,400	24.5	3	29.0	40.3
53-2012	Commercial pilots	C	21	47,970	24.6	3	14.9	40.3
19-2041	Environmental scientists and specialists, including health	C	65	47,600	24.6	15	23.7	40.4
17-1012	Landscape architects	C	23	47,400	24.6	5	22.2	40.4
25-9031	Instructional coordinators	C	98	47,350	24.7	25	25.4	40.5
13-2011	Accountants and auditors	C	1,055	47,000	25.4	205	19.5	41.5
19-1099	All other life scientists	C	26	46,140	25.4	5	18.3	41.5
21-1012	Educational, vocational, and school counselors	C	228	44,100	25.6	34	15.0	41.7
25-2031	Secondary school teachers, except special and vocational education	C	988	43,950	26.3	180	18.2	42.5
25-2040	Special education teachers	C	433	43,450	26.6	130	30.0	43.1
11-9151	Social and community service managers	C	129	43,080	26.7	36	27.7	43.3
17-1021	Cartographers and photogrammetrists	C	9	42,870	26.7	1	15.1	43.3
27-3043	Writers and authors	C	139	42,790	26.8	22	16.1	43.4
25-2021	Elementary school teachers, except special education	C	1,467	41,780	27.8	223	15.2	44.5
27-3031	Public relations specialists	C	158	41,710	27.9	52	32.9	44.7
21-1022	Medical and public health social workers	C	107	37,380	28.0	31	28.6	44.8

See footnotes at end of table.

Table I-4. Cumulative proportion of total 2002 employment and 2002–12 projected employment change accounted for by high-wage, high-growth occupations—Continued

(Employment in thousands)

2002 national employment matrix occupation	Educational attainment cluster ¹	2002 employment	2002 median annual earnings	Cumulative percentage of total 2002 employment accounted for by this and all previous occupations listed in this table	Employment change, 2002–12		Cumulative percentage of total projected employment change, 2002–12 accounted for by this and all previous occupations listed in this table
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21-1013 Marriage and family therapists	C	23	\$35,580	28.0	5	22.4	44.9
25-4010 Archivists, curators, and museum technicians	C	22	35,270	28.0	4	17.0	44.9
29-9091 Athletic trainers	C	14	33,820	28.0	4	29.9	44.9
11-9031 Education administrators, preschool and child care center/program	C	58	33,340	28.1	19	32.0	45.0
21-1021 Child, family, and school social workers	C	274	33,150	28.3	64	23.2	45.3
21-2011 Clergy	C	400	33,110	28.5	62	15.5	45.6
21-1023 Mental health and substance abuse social workers ...	C	95	32,850	28.6	33	34.5	45.7
25-9011 Audio-visual collections specialists	C	10	32,360	28.6	2	16.3	45.7
21-9099 All other counselors, social, and religious workers	C	248	31,150	28.8	70	28.3	46.1
21-1011 Substance abuse and behavioral disorder counselors	C	67	30,180	28.8	16	23.2	46.1
21-1014 Mental health counselors	C	85	29,940	28.9	23	26.6	46.3

¹ The job types are presented in the following categories: HS = high school occupations, HS/SC = high school/some college occupations, SC = some college occupations, HS/SC/C = high school/some college/college

occupations, SC/C = some college/college occupations, and C = college occupations. For additional information on educational attainment cluster methodology, see text of this chapter and Table I-1.