

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16
 (Numbers in thousands)

2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
		Total, 2005–06	Net, 2006–16	Total	Net
00-0000 Total, all occupations.....	150,620	15.9	22.1	25,186	3,336
11-1300 Management, business, and financial occupations.....	15,397	9.7	18.6	1,578	287
11-0000 Management occupations	8,789	9.2	19.8	832	174
11-1000 Top executives	2,187	6.0	24.6	133	54
11-1011 Chief executives.....	402	5.0	27.3	20	11
11-1021 General and operations managers.....	1,720	6.3	24.1	109	41
11-1031 Legislators ¹	65	5.1	19.0	3	1
11-2000 Advertising, marketing, promotions, public relations, and sales managers.....	583	9.5	22.3	59	13
11-2011 Advertising and promotions managers ¹	47	5.5	22.2	3	1
11-2020 Marketing and sales managers	486	9.9	22.2	51	11
11-2021 Marketing managers	167	9.9	22.2	18	4
11-2022 Sales managers	318	9.9	22.2	33	7
11-2031 Public relations managers ¹	50	9.2	23.3	5	1
11-3000 Operations specialties managers.....	1,474	8.9	21.0	138	31
11-3011 Administrative services managers.....	247	6.4	26.4	17	7
11-3021 Computer and information systems managers.....	264	9.3	16.2	27	4
11-3031 Financial managers.....	506	9.5	14.5	51	7
11-3040 Human resources managers.....	136	10.6	18.8	15	3
11-3041 Compensation and benefits managers	49	10.6	18.8	6	1
11-3042 Training and development managers.....	29	10.6	18.8	3	1
11-3049 Human resources managers, all other	58	10.6	18.8	7	1
11-3051 Industrial production managers.....	157	9.7	34.5	15	5
11-3061 Purchasing managers	70	9.9	28.6	7	2
11-3071 Transportation, storage, and distribution managers.....	94	6.3	29.7	6	3
11-9000 Other management occupations	4,545	10.7	16.8	503	76
11-9010 Agricultural managers	1,317	11.6	8.7	147	11
11-9011 Farm, ranch, and other agricultural managers	258	6.9	7.3	18	2
11-9012 Farmers and ranchers.....	1,058	12.8	9.0	130	10
11-9021 Construction managers	487	6.9	15.5	37	8
11-9030 Education administrators.....	443	10.8	27.9	51	12
11-9031 Education administrators, preschool and child care center/program	56	10.8	27.9	7	2
11-9032 Education administrators, elementary and secondary school.....	226	10.8	27.9	25	6
11-9033 Education administrators, postsecondary	131	10.8	27.9	15	4
11-9039 Education administrators, all other.....	30	10.8	27.9	3	1
11-9041 Engineering managers	187	3.1	20.2	6	4
11-9051 Food service managers.....	350	16.0	23.6	58	8
11-9061 Funeral directors	29	11.7	24.0	4	1
11-9071 Gaming managers ¹	4	10.1	18.7	(²)	(²)
11-9081 Lodging managers	71	6.2	22.0	5	2
11-9111 Medical and health services managers.....	262	9.7	18.7	28	5
11-9121 Natural sciences managers ¹	41	7.4	21.9	3	1
11-9131 Postmasters and mail superintendents ¹	26	6.3	24.1	2	1
11-9141 Property, real estate, and community association managers.....	329	12.7	13.8	45	5
11-9151 Social and community service managers.....	130	14.1	19.1	21	2
11-9199 Managers, all other	870	10.9	19.9	98	17
13-0000 Business and financial operations occupations	6,608	10.4	17.1	746	113
13-1000 Business operations specialists	3,860	11.6	17.3	484	67
13-1011 Agents and business managers of artists, performers, and athletes	25	14.2	27.3	4	1
13-1020 Buyers and purchasing agents.....	460	9.5	21.4	44	10
13-1021 Purchasing agents and buyers, farm products ¹	16	10.6	13.0	2	(²)
13-1022 Wholesale and retail buyers, except farm products	157	12.7	22.4	20	4
13-1023 Purchasing agents, except wholesale, retail, and farm products	287	7.8	21.4	22	6
13-1030 Claims adjusters, appraisers, examiners, and investigators	319	6.1	25.5	20	8
13-1031 Claims adjusters, examiners, and investigators	305	6.1	25.5	19	8
13-1032 Insurance appraisers, auto damage.....	13	6.1	25.5	1	(²)

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

	2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	237	6.0	11.7	15	3
13-1051	Cost estimators	221	14.2	20.5	34	5
13-1061	Emergency management specialists	12	11.2	10.7	1	(²)
13-1070	Human resources, training, and labor relations specialists.....	732	13.9	21.5	111	16
13-1071	Employment, recruitment, and placement specialists	197	13.9	21.5	30	4
13-1072	Compensation, benefits, and job analysis specialists	110	13.9	21.5	17	2
13-1073	Training and development specialists	210	13.9	21.5	32	5
13-1079	Human resources, training, and labor relations specialists, all other	214	13.9	21.5	32	5
13-1081	Logisticians	83	9.1	14.9	8	1
13-1111	Management analysts	678	14.7	17.1	111	12
13-1121	Meeting and convention planners ¹	51	13.0	20.0	7	1
13-1199	Business operation specialists, all other	1,043	11.2	10.7	129	11
13-2000	Financial specialists	2,748	8.8	16.8	261	46
13-2011	Accountants and auditors	1,274	8.1	17.6	112	22
13-2021	Appraisers and assessors of real estate	101	4.4	20.0	5	2
13-2031	Budget analysts ¹	62	9.3	23.1	6	1
13-2041	Credit analysts ¹	67	4.5	38.2	3	3
13-2050	Financial analysts and advisors	501	6.6	11.2	38	6
13-2051	Financial analysts.....	221	8.5	5.7	22	1
13-2052	Personal financial advisors	176	4.7	9.0	10	2
13-2053	Insurance underwriters.....	104	5.8	26.8	6	3
13-2061	Financial examiners ¹	26	8.1	17.6	2	(²)
13-2070	Loan counselors and officers	406	12.7	10.8	54	4
13-2071	Loan counselors.....	33	12.7	10.8	4	(²)
13-2072	Loan officers.....	373	12.7	10.8	50	4
13-2080	Tax examiners, collectors, preparers, and revenue agents.....	181	17.1	21.1	30	4
13-2081	Tax examiners, collectors, and revenue agents	81	5.3	25.4	4	2
13-2082	Tax preparers	100	27.2	17.6	26	2
13-2099	Financial specialists, all other	129	7.9	26.7	11	3
15-2900	Professional and related occupations	29,819	9.6	20.3	3,111	606
15-0000	Computer and mathematical science occupations.....	3,313	8.3	22.0	309	73
15-1000	Computer specialists	3,200	8.2	21.9	295	70
15-1011	Computer and information scientists, research	25	8.4	26.5	2	1
15-1021	Computer programmers	435	6.6	20.9	28	9
15-1030	Computer software engineers	857	5.8	14.6	59	12
15-1031	Computer software engineers, applications	507	5.8	14.6	36	7
15-1032	Computer software engineers, systems software	350	5.8	14.6	23	5
15-1041	Computer support specialists	552	15.3	30.9	90	17
15-1051	Computer systems analysts	504	8.4	26.5	49	13
15-1061	Database administrators	119	3.6	10.7	5	1
15-1071	Network and computer systems administrators	309	8.2	22.8	29	7
15-1081	Network systems and data communications analysts	262	6.4	20.4	21	5
15-1099	Computer specialists, all other	136	8.4	26.5	12	4
15-2000	Mathematical science occupations	114	11.1	25.4	13	3
15-2011	Actuaries ¹	18	13.9	36.1	3	1
15-2021	Mathematicians ¹	3	13.9	24.7	(²)	(²)
15-2031	Operations research analysts	58	8.3	20.1	5	1
15-2041	Statisticians ¹	22	13.9	31.2	3	1
15-2090	Miscellaneous mathematical science occupations	12	13.9	24.7	2	(²)
15-2091	Mathematical technicians ¹	1	13.9	24.7	(²)	(²)
15-2099	Mathematical scientists, all other ¹	10	13.9	24.7	2	(²)
17-0000	Architecture and engineering occupations	2,583	6.6	22.6	180	58
17-1000	Architects, surveyors, and cartographers	232	10.4	22.6	26	5
17-1010	Architects, except naval	160	6.3	18.9	11	3
17-1011	Architects, except landscape and naval	132	6.3	18.9	9	2

See footnotes at end of table.

Table V-3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
		Total, 2005–06	Net, 2006–16	Total	Net
17-1012 Landscape architects	28	6.3	18.9	2	1
17-1020 Surveyors, cartographers, and photogrammetrists	72	19.2	30.9	15	2
17-1021 Cartographers and photogrammetrists	12	19.2	30.9	3	(²)
17-1022 Surveyors	60	19.2	30.9	13	2
17-2000 Engineers	1,512	4.8	22.9	77	35
17-2011 Aerospace engineers ¹	90	5.9	19.8	6	2
17-2021 Agricultural engineers ¹	3	6.1	22.8	(²)	(²)
17-2031 Biomedical engineers ¹	14	9.4	22.8	2	(²)
17-2041 Chemical engineers ¹	30	5.9	25.4	2	1
17-2051 Civil engineers	256	4.1	26.4	11	7
17-2061 Computer hardware engineers	79	4.0	30.7	3	2
17-2070 Electrical and electronics engineers	291	3.7	23.2	11	7
17-2071 Electrical engineers	153	3.7	23.2	6	4
17-2072 Electronics engineers, except computer	138	3.7	23.2	5	3
17-2081 Environmental engineers ¹	54	5.9	29.3	4	2
17-2110 Industrial engineers, including health and safety	227	3.2	24.1	8	5
17-2111 Health and safety engineers, except mining safety engineers and inspectors	25	3.2	24.1	1	1
17-2112 Industrial engineers	201	3.2	24.1	7	5
17-2121 Marine engineers and naval architects ¹	9	4.1	26.4	(²)	(²)
17-2131 Materials engineers ¹	22	5.9	23.3	1	1
17-2141 Mechanical engineers	226	5.0	21.7	11	5
17-2151 Mining and geological engineers, including mining safety engineers ¹	7	5.2	22.8	(²)	(²)
17-2161 Nuclear engineers ¹	15	5.9	22.8	1	(²)
17-2171 Petroleum engineers ¹	17	5.2	25.9	1	(²)
17-2199 Engineers, all other	170	8.5	11.8	15	2
17-3000 Drafters, engineering, and mapping technicians	840	8.9	22.2	77	19
17-3010 Drafters	253	13.1	28.6	34	7
17-3011 Architectural and civil drafters	116	13.1	28.6	16	3
17-3012 Electrical and electronics drafters	35	13.1	28.6	5	1
17-3013 Mechanical drafters	78	13.1	28.6	10	2
17-3019 Drafters, all other	25	13.1	28.6	3	1
17-3020 Engineering technicians, except drafters	511	6.9	19.5	36	10
17-3021 Aerospace engineering and operations technicians	9	6.9	19.5	1	(²)
17-3022 Civil engineering technicians	91	6.9	19.5	7	2
17-3023 Electrical and electronic engineering technicians	170	6.9	19.5	12	3
17-3024 Electro-mechanical technicians	16	6.9	19.5	1	(²)
17-3025 Environmental engineering technicians	21	6.9	19.5	2	(²)
17-3026 Industrial engineering technicians	75	6.9	19.5	5	1
17-3027 Mechanical engineering technicians	48	6.9	19.5	3	1
17-3029 Engineering technicians, except drafters, all other	82	6.9	19.5	6	2
17-3031 Surveying and mapping technicians	76	8.2	18.9	7	1
19-0000 Life, physical, and social science occupations	1,407	10.1	23.8	152	33
19-1000 Life scientists	258	7.1	27.2	19	7
19-1010 Agricultural and food scientists	33	4.4	30.6	2	1
19-1011 Animal scientists	5	4.4	30.6	(²)	(²)
19-1012 Food scientists and technologists	12	4.4	30.6	1	(²)
19-1013 Soil and plant Scientists	16	4.4	30.6	1	(²)
19-1020 Biological scientists	87	6.1	20.3	5	2
19-1021 Biochemists and biophysicists	20	6.1	20.3	1	(²)
19-1022 Microbiologists	17	6.1	20.3	1	(²)
19-1023 Zoologists and wildlife biologists	20	6.1	20.3	1	(²)
19-1029 Biological scientists, all other	29	6.1	20.3	2	1
19-1030 Conservation scientists and foresters	33	5.2	29.5	2	1
19-1031 Conservation scientists ¹	20	5.2	29.5	1	1

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

	2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
19-1032	Foresters ¹	13	5.2	29.5	1	(²)
19-1040	Medical scientists	92	9.2	31.0	9	3
19-1041	Epidemiologists	5	9.2	31.0	(²)	(²)
19-1042	Medical scientists, except epidemiologists	87	9.2	31.0	9	3
19-1099	Life scientists, all other	14	9.2	31.0	1	(²)
19-2000	Physical scientists	267	6.7	25.3	19	7
19-2010	Astronomers and physicists	18	7.0	24.4	1	(²)
19-2011	Astronomers ¹	2	7.0	24.4	(²)	(²)
19-2012	Physicists ¹	17	7.0	24.4	1	(²)
19-2021	Atmospheric and space scientists ¹	9	7.0	24.4	1	(²)
19-2030	Chemists and materials scientists	93	9.4	26.4	9	2
19-2031	Chemists	84	9.4	26.4	8	2
19-2032	Materials scientists	10	9.4	26.4	1	(²)
19-2040	Environmental scientists and geoscientists	123	5.2	25.9	7	3
19-2041	Environmental scientists and specialists, including health	83	5.2	25.9	5	2
19-2042	Geoscientists, except hydrologists and geographers	31	5.2	25.9	2	1
19-2043	Hydrologists	8	5.2	25.9	(²)	(²)
19-2099	Physical scientists, all other	24	3.7	19.1	1	(²)
19-3000	Social scientists and related occupations	530	10.1	14.0	58	7
19-3011	Economists ¹	15	9.4	29.4	1	(²)
19-3020	Market and survey researchers	261	15.6	6.8	45	2
19-3021	Market research analysts	234	15.6	6.8	40	2
19-3022	Survey researchers	27	15.6	6.8	5	(²)
19-3030	Psychologists	166	3.6	15.3	6	3
19-3031	Clinical, counseling, and school psychologists	152	3.6	15.3	6	2
19-3032	Industrial-organizational psychologists	2	3.6	15.3	(²)	(²)
19-3039	Psychologists, all other	12	3.6	15.3	(²)	(²)
19-3041	Sociologists ¹	4	9.4	16.6	(²)	(²)
19-3051	Urban and regional planners ¹	34	4.1	29.5	1	1
19-3090	Miscellaneous social scientists and related workers	51	6.1	31.9	3	2
19-3091	Anthropologists and archeologists	6	6.1	31.9	(²)	(²)
19-3092	Geographers	1	6.1	31.9	(²)	(²)
19-3093	Historians	3	6.1	31.9	(²)	(²)
19-3094	Political scientists	5	6.1	31.9	(²)	(²)
19-3099	Social scientists and related workers, all other	36	6.1	31.9	2	1
19-4000	Life, physical, and social science technicians	351	15.1	35.0	56	12
19-4011	Agricultural and food science technicians ¹	26	14.5	15.6	4	(²)
19-4021	Biological technicians	79	16.6	35.7	14	3
19-4031	Chemical technicians	61	5.8	33.4	4	2
19-4041	Geological and petroleum technicians ¹	12	14.5	37.8	2	(²)
19-4051	Nuclear technicians ¹	7	14.5	35.0	1	(²)
19-4061	Social science research assistants	18	17.7	38.0	3	1
19-4090	Other life, physical, and social science technicians	150	17.7	38.0	28	6
19-4091	Environmental science and protection technicians, including health	36	17.7	38.0	7	1
19-4092	Forensic science technicians	13	17.7	38.0	3	(²)
19-4093	Forest and conservation technicians	34	17.7	38.0	6	1
19-4099	Life, physical, and social science technicians, all other	66	17.7	38.0	12	3
21-0000	Community and social services occupations	2,386	13.5	16.9	359	40
21-1000	Counselors, social workers, and other community and social service specialists	1,843	15.3	17.5	315	32
21-1010	Counselors	635	18.4	19.8	129	13
21-1011	Substance abuse and behavioral disorder counselors	83	18.4	19.8	18	2
21-1012	Educational, vocational, and school counselors	260	18.4	19.8	51	5
21-1013	Marriage and family therapists	25	18.4	19.8	5	(²)
21-1014	Mental health counselors	100	18.4	19.8	21	2

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
		Total, 2005–06	Net, 2006–16	Total	Net
21-1015 Rehabilitation counselors	141	18.4	19.8	29	3
21-1019 Counselors, all other	27	18.4	19.8	5	1
21-1020 Social workers	595	9.7	21.1	64	13
21-1021 Child, family, and school social workers	282	9.7	21.1	30	6
21-1022 Medical and public health social workers	124	9.7	21.1	13	3
21-1023 Mental health and substance abuse social workers	122	9.7	21.1	14	3
21-1029 Social workers, all other	66	9.7	21.1	7	1
21-1090 Miscellaneous community and social service specialists	613	17.4	11.6	121	7
21-1091 Health educators	62	17.4	11.6	12	1
21-1092 Probation officers and correctional treatment specialists	94	17.4	11.6	17	1
21-1093 Social and human service assistants	339	17.4	11.6	69	4
21-1099 Community and social service specialists, all other	118	17.4	11.6	23	1
21-2000 Religious workers	543	7.4	15.0	44	8
21-2011 Clergy	404	6.2	13.4	27	5
21-2021 Directors, religious activities and education	99	8.7	22.9	10	2
21-2099 Religious workers, all other	39	16.6	11.0	7	(²)
23-0000 Legal occupations	1,222	6.1	17.5	79	21
23-1000 Lawyers, judges, and related workers	812	5.1	19.0	44	15
23-1011 Lawyers	761	5.1	19.0	41	14
23-1020 Judges, magistrates, and other judicial workers	51	5.1	19.0	3	1
23-1021 Administrative law judges, adjudicators, and hearing officers ¹	15	5.1	19.0	1	(²)
23-1022 Arbitrators, mediators, and conciliators ¹	8	5.1	19.0	(²)	(²)
23-1023 Judges, magistrate judges, and magistrates ¹	27	5.1	19.0	1	1
23-2000 Legal support workers	410	8.0	14.6	35	6
23-2011 Paralegals and legal assistants	238	6.6	13.2	17	3
23-2090 Miscellaneous legal support workers	173	10.0	16.6	18	3
23-2091 Court reporters	19	10.0	16.6	2	(²)
23-2092 Law clerks	37	10.0	16.6	4	1
23-2093 Title examiners, abstractors, and searchers	69	10.0	16.6	7	1
23-2099 Legal support workers, all other	48	10.0	16.6	5	1
25-0000 Education, training, and library occupations	9,034	11.8	19.7	1,142	178
25-1000 Postsecondary teachers	1,672	10.7	16.7	199	28
25-2000 Primary, secondary, and special education teachers	4,413	9.6	23.2	449	102
25-2010 Preschool and kindergarten teachers	607	13.5	16.5	92	10
25-2011 Preschool teachers, except special education	437	13.5	16.5	67	7
25-2012 Kindergarten teachers, except special education	170	13.5	16.5	25	3
25-2020 Elementary and middle school teachers	2,214	9.8	21.8	230	48
25-2021 Elementary school teachers, except special education	1,540	9.8	21.8	161	34
25-2022 Middle school teachers, except special and vocational education	658	9.8	21.8	68	14
25-2023 Vocational education teachers, middle school	16	9.8	21.8	2	(²)
25-2030 Secondary school teachers	1,133	8.2	29.8	95	34
25-2031 Secondary school teachers, except special and vocational education	1,038	8.2	29.8	87	31
25-2032 Vocational education teachers, secondary school	96	8.2	29.8	8	3
25-2040 Special education teachers	459	6.6	22.2	32	10
25-2041 Special education teachers, preschool, kindergarten, and elementary school	219	6.6	22.2	16	5
25-2042 Special education teachers, middle school	102	6.6	22.2	7	2
25-2043 Special education teachers, secondary school	138	6.6	22.2	9	3
25-3000 Other teachers and instructors	1,078	20.0	10.7	229	12
25-3011 Adult literacy, remedial education, and GED teachers and instructors	76	20.0	10.7	16	1
25-3021 Self-enrichment education teachers	261	20.0	10.7	58	3
25-3099 Teachers and instructors, all other	741	20.0	10.7	155	8
25-4000 Librarians, curators, and archivists	307	15.6	37.0	49	11
25-4010 Archivists, curators, and museum technicians	27	10.2	43.2	3	1
25-4011 Archivists	6	10.2	43.2	1	(²)
25-4012 Curators	10	10.2	43.2	1	(²)
25-4013 Museum Technicians and Conservators	11	10.2	43.2	1	(²)

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title		Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
25-4021	Librarians	158	11.4	27.1	18	4
25-4031	Library technicians	121	22.2	48.6	28	6
25-9000	Other education, training, and library occupations.....	1,563	13.0	15.9	215	25
25-9011	Audio-visual collections specialists	7	12.8	13.7	1	(²)
25-9021	Farm and home management advisors	15	12.8	13.7	2	(²)
25-9031	Instructional coordinators	129	12.8	13.7	18	2
25-9041	Teacher assistants	1,312	13.1	16.3	180	21
25-9099	Education, training, and library workers, all other	99	12.8	13.7	13	1
27-0000	Arts, design, entertainment, sports, and media occupations.....	2,677	12.8	24.3	362	65
27-1000	Art and design occupations	821	9.5	25.7	82	21
27-1010	Artists and related workers	218	11.1	23.4	26	5
27-1011	Art directors	78	11.1	23.4	9	2
27-1012	Craft artists	9	11.1	23.4	1	(²)
27-1013	Fine artists, including painters, sculptors, and illustrators.....	30	11.1	23.4	4	1
27-1014	Multi-media artists and animators	87	11.1	23.4	11	2
27-1019	Artists and related workers, all other	14	11.1	23.4	2	(²)
27-1020	Designers	603	8.9	26.6	56	16
27-1021	Commercial and industrial designers	48	8.9	26.6	4	1
27-1022	Fashion designers	20	8.9	26.6	2	1
27-1023	Floral designers	87	8.9	26.6	7	2
27-1024	Graphic designers	261	8.9	26.6	24	7
27-1025	Interior designers	72	8.9	26.6	7	2
27-1026	Merchandise displayers and window trimmers	87	8.9	26.6	8	2
27-1027	Set and exhibit designers	12	8.9	26.6	1	(²)
27-1029	Designers, all other	16	8.9	26.6	2	(²)
27-2000	Entertainers and performers, sports and related occupations	798	14.7	26.0	124	21
27-2010	Actors, producers, and directors	163	16.3	25.8	28	4
27-2011	Actors	70	27.1	20.6	20	1
27-2012	Producers and directors	93	8.1	29.7	8	3
27-2020	Athletes, coaches, umpires, and related workers	253	20.6	25.7	56	6
27-2021	Athletes and sports competitors	18	20.6	25.7	4	(²)
27-2022	Coaches and scouts	217	20.6	25.7	48	6
27-2023	Umpires, referees, and other sports officials	19	20.6	25.7	4	(²)
27-2030	Dancers and choreographers	40	6.1	55.2	3	2
27-2031	Dancers	20	6.1	55.2	1	1
27-2032	Choreographers	20	6.1	55.2	1	1
27-2040	Musicians, singers, and related workers	264	10.7	20.3	30	5
27-2041	Music directors and composers	68	10.7	20.3	8	1
27-2042	Musicians and singers	196	10.7	20.3	22	4
27-2099	Entertainers and performers, sports and related workers, all other	77	9.6	31.9	8	2
27-3000	Media and communication occupations	764	15.6	20.6	126	16
27-3010	Announcers	71	11.3	34.1	8	2
27-3011	Radio and television announcers	59	11.3	34.1	6	2
27-3012	Public address system and other announcers	12	11.3	34.1	1	(²)
27-3020	News analysts, reporters and correspondents	67	17.6	31.5	12	2
27-3021	Broadcast news analysts	8	17.6	31.5	1	(²)
27-3022	Reporters and correspondents	59	17.6	31.5	10	2
27-3031	Public relations specialists	243	17.7	7.5	47	2
27-3040	Writers and editors	306	15.2	24.6	49	8
27-3041	Editors	122	16.2	29.8	20	4
27-3042	Technical writers	49	12.1	30.2	7	1
27-3043	Writers and authors	135	15.5	18.0	22	2
27-3090	Miscellaneous media and communications workers	77	12.3	23.8	10	2
27-3091	Interpreters and translators	41	12.3	23.8	6	1
27-3099	Media and communication workers, all other	36	12.3	23.8	5	1
27-4000	Media and communication equipment occupations	294	9.6	25.5	30	7

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
		Total, 2005–06	Net, 2006–16	Total	Net
27-4010 Broadcast and sound engineering technicians and radio operators	105	6.2	32.5	7	3
27-4011 Audio and video equipment technicians.....	50	6.2	32.5	3	2
27-4012 Broadcast technicians	38	6.2	32.5	2	1
27-4013 Radio operators.....	2	6.2	32.5	(²)	(²)
27-4014 Sound engineering technicians	16	6.2	32.5	1	1
27-4021 Photographers.....	122	11.5	22.0	15	3
27-4030 Television, video, and motion picture camera operators and editors	47	11.2	18.6	6	1
27-4031 Camera operators, television, video, and motion picture	27	11.2	18.6	3	1
27-4032 Film and video editors	21	11.2	18.6	2	(²)
27-4099 Media and communication equipment workers, all other ¹	19	12.0	25.3	2	(²)
29-0000 Healthcare practitioners and technical occupations.....	7,198	6.7	18.9	528	136
29-1000 Health diagnosing and treating practitioners.....	4,460	5.6	16.7	278	75
29-1011 Chiropractors ¹	53	4.3	10.9	2	1
29-1020 Dentists	161	4.1	19.6	7	3
29-1021 Dentists, general ¹	136	4.1	19.6	6	3
29-1022 Oral and maxillofacial surgeons ¹	8	4.1	19.6	(²)	(²)
29-1023 Orthodontists ¹	9	4.1	19.6	(²)	(²)
29-1024 Prosthodontists ¹	1	4.1	19.6	(²)	(²)
29-1029 Dentists, all other specialists ¹	7	4.1	19.6	(²)	(²)
29-1031 Dietitians and nutritionists	57	7.6	25.3	5	1
29-1041 Optometrists ¹	33	4.1	17.1	1	1
29-1051 Pharmacists	243	4.1	17.3	11	4
29-1060 Physicians and surgeons	633	4.3	18.0	29	11
29-1071 Physician assistants.....	66	7.2	13.8	5	1
29-1081 Podiatrists ¹	12	4.3	34.0	1	(²)
29-1111 Registered nurses	2,505	6.2	16.5	175	41
29-1120 Therapists	570	5.7	14.6	36	8
29-1121 Audiologists ¹	12	6.7	11.5	1	(²)
29-1122 Occupational therapists.....	99	5.5	14.7	6	1
29-1123 Physical therapists	173	3.8	12.0	7	2
29-1124 Radiation therapists ¹	15	6.7	15.0	1	(²)
29-1125 Recreational therapists ¹	25	6.7	15.0	2	(²)
29-1126 Respiratory therapists	102	2.8	14.7	3	2
29-1127 Speech-language pathologists	110	8.7	19.3	10	2
29-1129 Therapists, all other	35	15.3	12.0	6	(²)
29-1131 Veterinarians ¹	62	4.3	19.6	3	1
29-1199 Health diagnosing and treating practitioners, all other ¹	65	3.8	17.1	3	1
29-2000 Health technologists and technicians	2,612	8.5	22.6	242	59
29-2010 Clinical laboratory technologists and technicians.....	319	5.3	15.1	18	5
29-2011 Medical and clinical laboratory technologists	167	5.3	15.1	9	3
29-2012 Medical and clinical laboratory technicians	151	5.3	15.1	9	2
29-2021 Dental hygienists	167	2.8	19.1	5	3
29-2030 Diagnostic related technologists and technicians	307	4.7	13.6	16	4
29-2031 Cardiovascular technologists and technicians	45	4.7	13.6	2	1
29-2032 Diagnostic medical sonographers	46	4.7	13.6	2	1
29-2033 Nuclear medicine technologists	20	4.7	13.6	1	(²)
29-2034 Radiologic technologists and technicians	196	4.7	13.6	10	3
29-2041 Emergency medical technicians and paramedics	201	7.1	11.4	16	2
29-2050 Health diagnosing and treating practitioner support technicians.....	549	13.7	30.5	85	17
29-2051 Dietetic technicians	25	13.7	30.5	4	1
29-2052 Pharmacy technicians	285	13.7	30.5	45	9
29-2053 Psychiatric technicians	62	13.7	30.5	8	2
29-2054 Respiratory therapy technicians	19	13.7	30.5	3	1
29-2055 Surgical technologists	86	13.7	30.5	13	3
29-2056 Veterinary technologists and technicians	71	13.7	30.5	12	2

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
		Total, 2005–06	Net, 2006–16	Total	Net
29-2061 Licensed practical and licensed vocational nurses	749	7.5	27.3	60	20
29-2071 Medical records and health information technicians ¹	170	19.5	27.1	36	5
29-2081 Opticians, dispensing	66	3.7	31.8	3	2
29-2090 Miscellaneous health technologists and technicians	85	3.8	7.9	3	1
29-2091 Orthotists and prosthetists	6	3.8	7.9	(²)	(²)
29-2099 Healthcare technologists and technicians, all other	79	3.8	7.9	3	1
29-9000 Other healthcare practitioners and technical occupations	126	6.5	19.0	9	2
29-9010 Occupational health and safety specialists and technicians	56	6.5	19.0	4	1
29-9011 Occupational health and safety specialists ¹	45	6.5	19.0	3	1
29-9012 Occupational health and safety technicians ¹	10	6.5	19.0	1	(²)
29-9090 Miscellaneous health practitioners and technical workers	70	6.5	19.0	5	1
29-9091 Athletic trainers ¹	17	6.5	19.0	1	(²)
29-9099 Healthcare practitioners and technical workers, all other ¹	53	6.5	19.0	4	1
31-3900 Service occupations	28,950	22.5	25.5	7,071	737
31-0000 Healthcare support occupations	3,723	16.2	10.7	685	40
31-1000 Nursing, psychiatric, and home health aides	2,296	18.7	8.9	489	21
31-1011 Home health aides	787	18.7	8.9	183	7
31-1012 Nursing aides, orderlies, and attendants	1,447	18.7	8.9	295	13
31-1013 Psychiatric aides	62	18.7	8.9	12	1
31-2000 Occupational and physical therapist assistants and aides	140	6.0	13.4	10	2
31-2010 Occupational therapist assistants and aides	33	7.1	15.3	3	1
31-2011 Occupational therapist assistants ¹	25	7.1	15.3	2	(²)
31-2012 Occupational therapist aides ¹	8	7.1	15.3	1	(²)
31-2020 Physical therapist assistants and aides	107	5.7	12.8	7	1
31-2021 Physical therapist assistants	60	5.7	12.8	4	1
31-2022 Physical therapist aides	46	5.7	12.8	3	1
31-9000 Other healthcare support occupations	1,287	12.9	13.4	186	17
31-9011 Massage therapists	118	5.3	11.4	7	1
31-9090 Miscellaneous healthcare support occupations	1,170	13.7	13.6	180	16
31-9091 Dental assistants	280	6.6	17.4	21	5
31-9092 Medical assistants	417	15.9	12.4	78	5
31-9093 Medical equipment preparers	45	15.9	12.4	8	1
31-9094 Medical transcriptionists	98	15.9	12.4	17	1
31-9095 Pharmacy aides	50	15.9	12.4	8	1
31-9096 Veterinary assistants and laboratory animal caretakers	75	15.9	12.4	13	1
31-9099 Healthcare support workers, all other	204	15.9	12.4	35	3
33-0000 Protective service occupations	3,163	12.4	27.6	421	87
33-1000 First-line supervisors/managers, protective service workers	233	8.1	27.5	20	6
33-1010 First-line supervisors/managers, law enforcement workers	133	8.8	30.1	12	4
33-1011 First-line supervisors/managers of correctional officers	40	8.8	27.3	4	1
33-1012 First-line supervisors/managers of police and detectives ¹	93	8.8	31.3	9	3
33-1021 First-line supervisors/managers of fire fighting and prevention workers ¹	52	5.7	31.3	3	2
33-1099 First-line supervisors/managers, protective service workers, all other	48	8.7	16.3	4	1
33-2000 Fire fighting and prevention workers	308	4.9	35.7	16	11
33-2011 Fire fighters	293	4.9	36.4	15	11
33-2020 Fire inspectors	16	3.4	22.6	1	(²)
33-2021 Fire inspectors and investigators	14	3.4	22.6	(²)	(²)
33-2022 Forest fire inspectors and prevention specialists	2	3.4	22.6	(²)	(²)
33-3000 Law enforcement workers	1,239	7.3	24.9	97	31
33-3010 Bailiffs, correctional officers, and jailers	460	10.3	22.9	51	11
33-3011 Bailiffs	19	10.3	22.9	2	(²)
33-3012 Correctional officers and jailers	442	10.3	22.9	49	10
33-3021 Detectives and criminal investigators	106	11.2	21.9	13	2
33-3031 Fish and game wardens ¹	8	7.2	25.0	1	(²)
33-3041 Parking enforcement workers ¹	11	7.2	25.0	1	(²)

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title		Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
33-3050	Police officers.....	654	4.5	26.7	31	17
33-3051	Police and sheriff's patrol officers	648	4.5	26.7	31	17
33-3052	Transit and railroad police ¹	6	4.5	26.8	(²)	(²)
33-9000	Other protective service workers.....	1,382	19.3	28.3	288	39
33-9011	Animal control workers ¹	15	19.7	21.0	3	(²)
33-9021	Private detectives and investigators.....	52	11.3	19.4	6	1
33-9030	Security guards and gaming surveillance officers.....	1,049	18.1	20.3	206	21
33-9031	Gaming surveillance officers and gaming investigators.....	9	18.1	20.3	2	(²)
33-9032	Security guards	1,040	18.1	20.3	205	21
33-9090	Miscellaneous protective service workers.....	266	25.6	62.2	72	17
33-9091	Crossing guards.....	69	5.7	28.8	4	2
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	114	32.1	74.0	40	8
33-9099	Protective service workers, all other	83	32.1	74.0	28	6
35-0000	Food preparation and serving related occupations	11,352	30.1	34.8	3,632	395
35-1000	Supervisors, food preparation and serving workers.....	932	15.6	8.2	153	8
35-1011	Chefs and head cooks	115	7.2	12.7	9	1
35-1012	First-line supervisors/managers of food preparation and serving workers.....	817	16.8	7.5	145	6
35-2000	Cooks and food preparation workers	2,998	26.6	29.4	843	88
35-2010	Cooks	2,097	25.4	27.1	559	57
35-2011	Cooks, fast food	629	25.4	27.1	167	17
35-2012	Cooks, institution and cafeteria	401	25.4	27.1	108	11
35-2013	Cooks, private household.....	5	25.4	27.1	1	(²)
35-2014	Cooks, restaurant.....	850	25.4	27.1	229	23
35-2015	Cooks, short order.....	195	25.4	27.1	51	5
35-2019	Cooks, all other	16	25.4	27.1	4	(²)
35-2021	Food preparation workers	902	29.3	34.7	284	31
35-3000	Food and beverage serving workers.....	6,081	32.7	38.4	2,126	234
35-3011	Bartenders.....	495	15.7	36.4	82	18
35-3020	Fast food and counter workers.....	3,036	37.9	27.8	1,248	84
35-3021	Combined food preparation and serving workers, including fast food	2,503	36.6	19.0	998	47
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	533	44.6	69.4	250	37
35-3031	Waiters and waitresses	2,361	29.8	54.3	742	128
35-3041	Food servers, nonrestaurant	189	26.1	15.3	53	3
35-9000	Other food preparation and serving related workers	1,341	36.0	48.7	509	65
35-9011	Dining room and cafeteria attendants and bartender helpers	416	33.9	41.9	149	17
35-9021	Dishwashers.....	517	35.9	40.8	195	21
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	351	38.5	68.3	142	24
35-9099	Food preparation and serving related workers, all other ¹	56	37.1	48.8	22	3
37-0000	Building and grounds cleaning and maintenance occupations	5,745	18.8	17.1	1,160	98
37-1000	Supervisors, building and grounds cleaning and maintenance workers	484	8.2	11.4	42	6
37-1011	First-line supervisors/managers of housekeeping and janitorial workers.....	282	9.0	14.7	27	4
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	202	7.0	6.8	15	1
37-2000	Building cleaning and pest control workers	3,941	19.2	19.1	810	75
37-2010	Building cleaning workers	3,872	19.5	19.0	805	74
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	2,387	19.5	19.1	498	46
37-2012	Maids and housekeeping cleaners	1,470	19.4	18.8	304	28
37-2019	Building cleaning workers, all other	16	19.5	19.1	3	(²)
37-2021	Pest control workers	70	6.6	24.2	5	2
37-3000	Grounds maintenance workers	1,319	21.4	13.2	308	17
37-3010	Grounds maintenance workers	1,319	21.4	13.2	308	17
37-3011	Landscaping and groundskeeping workers	1,220	21.4	13.2	285	16
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	31	21.4	13.2	7	(²)
37-3013	Tree trimmers and pruners	41	21.4	13.2	9	1
37-3019	Grounds maintenance workers, all other	28	21.4	13.2	6	(²)
39-0000	Personal care and service occupations	4,966	21.3	23.6	1,174	117

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title		Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
39-1000	Supervisors, personal care and service workers	268	13.8	21.0	40	6
39-1010	First-line supervisors/managers of gaming workers.....	54	10.1	18.7	6	1
39-1011	Gaming supervisors	34	10.1	18.7	4	1
39-1012	Slot key persons.....	20	10.1	18.7	2	(²)
39-1021	First-line supervisors/managers of personal service workers	215	14.8	21.6	34	5
39-2000	Animal care and service workers	200	17.7	16.4	39	3
39-2011	Animal trainers	43	12.0	17.2	6	1
39-2021	Nonfarm animal caretakers	157	19.3	16.1	33	3
39-3000	Entertainment attendants and related workers	546	29.0	46.9	176	26
39-3010	Gaming services workers.....	117	10.6	20.1	14	2
39-3011	Gaming dealers.....	84	10.6	20.1	10	2
39-3012	Gaming and sports book writers and runners	18	10.6	20.1	2	(²)
39-3019	Gaming service workers, all other	15	10.6	20.1	2	(²)
39-3021	Motion picture projectionists ¹	11	30.3	43.9	3	1
39-3031	Ushers, lobby attendants, and ticket takers ¹	103	30.3	70.2	34	7
39-3090	Miscellaneous entertainment attendants and related workers	315	35.4	49.4	125	16
39-3091	Amusement and recreation attendants	247	35.4	49.4	98	12
39-3092	Costume attendants	4	35.4	49.4	2	(²)
39-3093	Locker room, coatroom, and dressing room attendants.....	19	35.4	49.4	8	1
39-4000	Funeral service workers	42	15.8	23.7	7	1
39-4011	Embalmers	9	15.8	23.7	2	(²)
39-4021	Funeral attendants	33	15.8	23.7	6	1
39-5000	Personal appearance workers	825	10.0	12.1	88	10
39-5010	Barbers and cosmetologists	677	9.5	12.5	68	8
39-5011	Barbers.....	60	4.5	18.3	3	1
39-5012	Hairdressers, hairstylists, and cosmetologists	617	10.0	11.9	65	7
39-5090	Miscellaneous personal appearance workers	148	11.9	10.4	20	2
39-5091	Makeup artists, theatrical and performance	2	11.9	10.4	(²)	(²)
39-5092	Manicurists and pedicurists	78	11.9	10.4	11	1
39-5093	Shampooers	29	11.9	10.4	4	(²)
39-5094	Skin care specialists	38	11.9	10.4	5	(²)
39-6000	Transportation, tourism, and lodging attendants	232	17.6	20.4	43	5
39-6010	Baggage porters, bellhops, and concierges.....	69	21.8	12.8	16	1
39-6011	Baggage porters and bellhops	49	21.8	12.8	11	1
39-6012	Concierges	20	21.8	12.8	5	(²)
39-6020	Tour and travel guides	45	31.7	39.8	16	2
39-6021	Tour guides and escorts	40	31.7	39.8	14	2
39-6022	Travel guides	5	31.7	39.8	2	(²)
39-6030	Transportation attendants	118	9.6	17.4	12	2
39-6031	Flight attendants	97	9.6	17.4	10	2
39-6032	Transportation attendants, except flight attendants and baggage porters	21	9.6	17.4	2	(²)
39-9000	Other personal care and service workers	2,853	24.2	23.4	781	67
39-9011	Child care workers	1,388	29.6	28.7	447	40
39-9021	Personal and home care aides	767	22.5	16.9	216	13
39-9030	Recreation and fitness workers	555	16.9	18.7	102	10
39-9031	Fitness trainers and aerobics instructors	235	16.9	18.7	45	4
39-9032	Recreation workers	320	16.9	18.7	57	6
39-9041	Residential advisors	57	11.3	28.4	7	2
39-9099	Personal care and service workers, all other ¹	86	9.9	21.7	8	2
41-0000	Sales and related occupations	15,985	22.4	30.0	3,717	479
41-1000	Supervisors, sales workers	2,206	11.6	19.4	261	43
41-1011	First-line supervisors/managers of retail sales workers	1,676	12.5	21.0	214	35
41-1012	First-line supervisors/managers of non-retail sales workers	530	8.7	14.4	47	8
41-2000	Retail sales workers	8,719	29.7	37.4	2,674	326
41-2010	Cashiers	3,527	34.5	47.6	1,197	168

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

	2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
41-2011	Cashiers, except gaming.....	3,500	34.5	47.6	1,187	166
41-2012	Gaming change persons and booth cashiers.....	27	34.5	47.6	10	1
41-2020	Counter and rental clerks and parts salespersons.....	715	21.6	29.2	165	21
41-2021	Counter and rental clerks.....	477	21.2	38.1	113	18
41-2022	Parts salespersons.....	238	22.3	11.2	52	3
41-2031	Retail salespersons.....	4,477	27.6	30.8	1,312	138
41-3000	Sales representatives, services	1,567	11.5	21.7	198	34
41-3011	Advertising sales agents	170	13.7	17.5	26	3
41-3021	Insurance sales agents	436	12.6	21.7	59	9
41-3031	Securities, commodities, and financial services sales agents.....	320	11.1	25.6	40	8
41-3041	Travel agents.....	101	12.8	7.0	13	1
41-3099	Sales representatives, services, all other.....	540	9.9	23.5	61	13
41-4000	Sales representatives, wholesale and manufacturing.....	1,973	8.8	22.1	182	44
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products.....	411	8.8	22.1	38	9
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products.....	1,562	8.8	22.1	143	34
41-9000	Other sales and related workers	1,520	25.8	21.2	402	32
41-9010	Models, demonstrators, and product promoters	107	27.0	28.4	31	3
41-9011	Demonstrators and product promoters	105	27.0	28.4	31	3
41-9012	Models.....	2	27.0	28.4	1	(²)
41-9020	Real estate brokers and sales agents.....	564	12.4	16.0	74	9
41-9021	Real estate brokers	131	12.4	16.0	17	2
41-9022	Real estate sales agents.....	432	12.4	16.0	57	7
41-9031	Sales engineers ¹	76	8.5	25.2	7	2
41-9041	Telemarketers.....	395	56.2	35.2	211	14
41-9090	Miscellaneous sales and related workers	379	20.1	11.4	80	4
41-9091	Door-to-door sales workers, news and street vendors, and related workers	200	23.5	13.6	48	3
41-9099	Sales and related workers, all other.....	180	16.5	9.0	32	2
43-0000	Office and administrative support occupations	24,344	17.2	21.2	4,336	515
43-1000	Supervisors, office and administrative support workers.....	1,418	8.9	20.6	130	29
43-1011	First-line supervisors/managers of office and administrative support workers.....	1,418	8.9	20.6	130	29
43-2000	Communications equipment operators	209	23.2	19.8	45	4
43-2011	Switchboard operators, including answering service	177	23.7	20.9	40	4
43-2021	Telephone operators	27	19.5	12.5	4	(²)
43-2099	Communications equipment operators, all other ¹	4	23.2	19.0	1	(²)
43-3000	Financial clerks	4,007	14.5	20.1	616	81
43-3011	Bill and account collectors.....	434	22.5	15.1	109	7
43-3021	Billing and posting clerks and machine operators.....	542	14.4	12.8	80	7
43-3031	Bookkeeping, accounting, and auditing clerks	2,114	11.6	15.6	261	33
43-3041	Gaming cage workers ¹	18	21.3	26.7	4	(²)
43-3051	Payroll and timekeeping clerks	214	8.2	25.3	18	5
43-3061	Procurement clerks ¹	78	9.1	20.1	7	2
43-3071	Tellers	608	21.3	43.7	138	27
43-4000	Information and record clerks.....	5,738	20.9	25.3	1,269	145
43-4011	Brokerage clerks ¹	73	11.6	32.3	9	2
43-4021	Correspondence clerks ¹	17	22.3	25.7	4	(²)
43-4031	Court, municipal, and license clerks	115	12.7	22.8	15	3
43-4041	Credit authorizers, checkers, and clerks	69	13.3	30.8	9	2
43-4051	Customer service representatives	2,202	22.1	27.8	546	61
43-4061	Eligibility interviewers, government programs	112	9.6	17.4	11	2
43-4071	File clerks	234	27.0	26.5	50	6
43-4081	Hotel, motel, and resort desk clerks	219	30.2	40.5	72	9
43-4111	Interviewers, except eligibility and loan	221	22.4	26.3	52	6
43-4121	Library assistants, clerical	116	15.0	31.6	18	4
43-4131	Loan interviewers and clerks	256	15.8	17.3	40	4

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

	2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
43-4141	New accounts clerks ¹	81	22.3	29.4	17	2
43-4151	Order clerks.....	271	19.6	20.9	47	6
43-4161	Human resources assistants, except payroll and timekeeping	168	9.4	7.4	17	1
43-4171	Receptionists and information clerks	1,173	24.6	24.5	314	29
43-4181	Reservation and transportation ticket agents and travel clerks.....	165	18.4	22.0	31	4
43-4199	Information and record clerks, all other.....	245	7.8	15.9	18	4
43-5000	Material recording, scheduling, dispatching, and distributing occupations	4,016	18.9	24.3	751	97
43-5011	Cargo and freight agents.....	86	9.2	27.2	9	2
43-5021	Couriers and messengers ¹	134	16.3	27.2	22	4
43-5030	Dispatchers	289	15.4	25.3	46	7
43-5031	Police, fire, and ambulance dispatchers	99	15.4	25.3	16	3
43-5032	Dispatchers, except police, fire, and ambulance.....	190	15.4	25.3	30	5
43-5041	Meter readers, utilities.....	47	16.6	31.7	7	1
43-5050	Postal service workers	615	4.4	22.4	27	14
43-5051	Postal service clerks	80	4.5	22.5	4	2
43-5052	Postal service mail carriers	338	4.8	29.3	16	10
43-5053	Postal service mail sorters, processors, and processing machine operators	198	3.6	10.7	7	2
43-5061	Production, planning, and expediting clerks.....	293	17.2	27.2	52	8
43-5071	Shipping, receiving, and traffic clerks.....	769	17.4	24.0	136	18
43-5081	Stock clerks and order fillers	1,705	26.8	23.7	439	40
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	79	18.3	26.2	14	2
43-6000	Secretaries and administrative assistants.....	4,241	12.2	15.9	538	68
43-6011	Executive secretaries and administrative assistants.....	1,618	12.2	15.9	211	26
43-6012	Legal secretaries.....	275	12.2	15.9	35	4
43-6013	Medical secretaries	408	12.2	15.9	54	7
43-6014	Secretaries, except legal, medical, and executive	1,940	12.2	15.9	237	31
43-9000	Other office and administrative support workers.....	4,715	20.3	19.3	987	91
43-9011	Computer operators	130	15.7	16.0	18	2
43-9020	Data entry and information processing workers	492	23.5	22.5	111	11
43-9021	Data entry keyers	313	25.9	24.6	79	8
43-9022	Word processors and typists	179	19.1	18.9	32	3
43-9031	Desktop publishers ¹	32	20.0	20.3	6	1
43-9041	Insurance claims and policy processing clerks	254	16.7	12.0	42	3
43-9051	Mail clerks and mail machine operators, except postal service	152	19.5	26.4	28	4
43-9061	Office clerks, general	3,200	21.3	18.3	725	59
43-9071	Office machine operators, except computer	94	8.9	33.0	8	3
43-9081	Proofreaders and copy markers ¹	18	20.0	20.0	4	(²)
43-9111	Statistical assistants ¹	23	20.0	43.7	5	1
43-9199	Office and administrative support workers, all other	320	12.8	22.2	39	7
45-0000	Farming, fishing, and forestry occupations	1,039	22.5	23.8	231	25
45-1000	Supervisors, farming, fishing, and forestry workers	53	22.4	18.5	12	1
45-2000	Agricultural workers	858	24.2	24.5	205	21
45-2011	Agricultural inspectors ¹	16	23.0	25.0	4	(²)
45-2021	Animal breeders ¹	11	23.0	24.0	2	(²)
45-2041	Graders and sorters, agricultural products	42	20.6	14.2	9	1
45-2090	Miscellaneous agricultural workers	790	24.4	25.0	190	20
45-2091	Agricultural equipment operators	59	24.4	25.0	14	1
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	603	24.4	25.0	145	15
45-2093	Farmworkers, farm and ranch animals	107	24.4	25.0	26	3
45-2099	Agricultural workers, all other	20	24.4	25.0	5	1
45-3000	Fishing and hunting workers	39	20.8	14.0	7	1
45-3011	Fishers and related fishing workers	38	20.8	14.0	7	1
45-3021	Hunters and trappers ¹	0	20.9	15.1	(²)	(²)
45-4000	Forest, conservation, and logging workers	88	7.3	24.3	6	2
45-4011	Forest and conservation workers	20	8.6	38.2	2	1
45-4020	Logging workers	69	6.8	20.2	5	1

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title		Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
45-4021	Fallers	13	6.8	20.2	1	(²)
45-4022	Logging equipment operators	40	6.8	20.2	3	1
45-4023	Log graders and scalers.....	7	6.8	20.2	(²)	(²)
45-4029	Logging workers, all other	8	6.8	20.2	1	(²)
47-0000	Construction and extraction occupations	8,295	14.5	17.5	1,261	145
47-1000	Supervisors, construction and extraction workers.....	772	9.4	14.0	76	11
47-1011	First-line supervisors/managers of construction trades and extraction workers	772	9.4	14.0	76	11
47-2000	Construction trades and related workers	6,422	14.3	17.0	960	109
47-2011	Boilermakers	18	11.1	36.2	2	1
47-2020	Brickmasons, blockmasons, and stonemasons	182	9.7	20.9	18	4
47-2021	Brickmasons and blockmasons.....	158	9.7	20.9	16	3
47-2022	Stonemasons	24	9.7	20.9	2	(²)
47-2031	Carpenters	1,462	13.5	13.5	208	20
47-2040	Carpet, floor, and tile installers and finishers	196	9.2	14.5	18	3
47-2041	Carpet installers	73	9.2	14.5	7	1
47-2042	Floor layers, except carpet, wood, and hard tiles.....	29	9.2	14.5	3	(²)
47-2043	Floor sanders and finishers	14	9.2	14.5	1	(²)
47-2044	Tile and marble setters.....	79	9.2	14.5	8	1
47-2050	Cement masons, concrete finishers, and terrazzo workers	228	13.7	29.0	33	7
47-2051	Cement masons and concrete finishers	222	13.7	29.0	32	6
47-2053	Terrazzo workers and finishers	7	13.7	29.0	1	(²)
47-2061	Construction laborers	1,232	18.8	7.5	244	9
47-2070	Construction equipment operators	494	10.8	19.5	55	10
47-2071	Paving, surfacing, and tamping equipment operators.....	64	4.3	20.0	3	1
47-2072	Pile-driver operators ¹	6	11.3	19.4	1	(²)
47-2073	Operating engineers and other construction equipment operators	424	11.7	19.4	52	8
47-2080	Drywall installers, ceiling tile installers, and tapers	240	15.4	13.8	38	3
47-2081	Drywall and ceiling tile installers	186	15.4	13.8	30	3
47-2082	Tapers	54	15.4	13.8	9	1
47-2111	Electricians	705	10.1	25.7	74	18
47-2121	Glaziers ¹	55	9.9	16.8	6	1
47-2130	Insulation workers	61	18.7	22.8	12	1
47-2131	Insulation workers, floor, ceiling, and wall	32	18.7	22.8	6	1
47-2132	Insulation workers, mechanical	28	18.7	22.8	6	1
47-2140	Painters and paperhangers	473	19.5	17.8	98	8
47-2141	Painters, construction and maintenance	463	19.5	17.8	96	8
47-2142	Paperhangers ¹	10	19.7	17.5	2	(²)
47-2150	Pipelayers, plumbers, pipefitters, and steamfitters	569	12.0	20.6	72	12
47-2151	Pipelayers	67	12.0	20.6	8	1
47-2152	Plumbers, pipefitters, and steamfitters	502	12.0	20.6	63	10
47-2161	Plasterers and stucco masons	61	6.3	23.3	4	1
47-2171	Reinforcing iron and rebar workers ¹	30	13.0	25.1	4	1
47-2181	Roofers	156	21.6	22.9	36	4
47-2211	Sheet metal workers	189	15.6	24.3	30	5
47-2221	Structural iron and steel workers	72	8.8	32.5	7	2
47-3000	Helpers, construction trades	448	31.6	25.3	148	11
47-3010	Helpers, construction trades	448	31.6	25.3	148	11
47-3011	Helpers—Brickmasons, blockmasons, stonemasons, and tile and marble setters..	65	31.6	25.3	22	2
47-3012	Helpers—Carpenters	109	31.6	25.3	36	3
47-3013	Helpers—Electricians	105	31.6	25.3	34	3
47-3014	Helpers—Painters, paperhangers, plasterers, and stucco masons	24	31.6	25.3	8	1
47-3015	Helpers—Pipelayers, plumbers, pipefitters, and steamfitters	85	31.6	25.3	28	2
47-3016	Helpers—Roofers.....	22	31.6	25.3	7	1
47-3019	Helpers, construction trades, all other	38	31.6	25.3	13	1
47-4000	Other construction and related workers	451	11.5	20.5	55	9

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title		Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
47-4011	Construction and building inspectors	110	8.9	18.5	11	2
47-4021	Elevator installers and repairers ¹	22	11.7	26.5	3	1
47-4031	Fence erectors ¹	32	7.2	20.1	2	1
47-4041	Hazardous materials removal workers	39	3.6	21.5	1	1
47-4051	Highway maintenance workers	145	15.5	18.2	23	3
47-4061	Rail-track laying and maintenance equipment operators ¹	15	11.7	24.5	2	(²)
47-4071	Septic tank servicers and sewer pipe cleaners ¹	24	11.7	20.1	3	(²)
47-4090	Miscellaneous construction and related workers	63	14.2	26.1	9	2
47-4091	Segmental pavers	1	14.2	26.1	(²)	(²)
47-4099	Construction and related workers, all other	62	14.2	26.1	9	2
47-5000	Extraction workers	202	11.0	24.1	22	5
47-5010	Derrick, rotary drill, and service unit operators, oil, gas, and mining	67	11.1	10.1	7	1
47-5011	Derrick operators, oil and gas ¹	19	11.1	10.1	2	(²)
47-5012	Rotary drill operators, oil and gas ¹	20	11.1	10.1	2	(²)
47-5013	Service unit operators, oil, gas, and mining ¹	28	11.1	10.1	3	(²)
47-5021	Earth drillers, except oil and gas	22	11.1	32.5	2	1
47-5031	Explosives workers, ordnance handling experts, and blasters ¹	5	11.1	29.6	1	(²)
47-5040	Mining machine operators	21	11.1	38.2	2	1
47-5041	Continuous mining machine operators	10	11.1	38.2	1	(²)
47-5042	Mine cutting and channeling machine operators	8	11.1	38.2	1	(²)
47-5049	Mining machine operators, all other	3	11.1	38.2	(²)	(²)
47-5051	Rock splitters, quarry	4	9.8	25.2	(²)	(²)
47-5061	Roof bolters, mining ¹	4	11.1	29.6	(²)	(²)
47-5071	Roustabouts, oil and gas ¹	44	11.1	29.6	5	1
47-5081	Helpers—Extraction workers ¹	25	11.1	29.6	3	1
47-5099	Extraction workers, all other	10	9.8	25.2	1	(²)
49-0000	Installation, maintenance, and repair occupations	5,883	9.8	16.1	601	95
49-1000	Supervisors of installation, maintenance, and repair workers	465	4.3	23.5	21	11
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	465	4.3	23.5	21	11
49-2000	Electrical and electronic equipment mechanics, installers, and repairers	661	8.5	21.0	57	14
49-2011	Computer, automated teller, and office machine repairers	175	12.3	11.6	22	2
49-2020	Radio and telecommunications equipment installers and repairers	205	6.5	24.6	13	5
49-2021	Radio mechanics	7	6.5	24.6	(²)	(²)
49-2022	Telecommunications equipment installers and repairers, except line installers	198	6.5	24.6	13	5
49-2090	Miscellaneous electrical and electronic equipment mechanics, installers, and repairers	281	7.5	24.2	22	7
49-2091	Avionics technicians ¹	16	6.5	10.2	1	(²)
49-2092	Electric motor, power tool, and related repairers	25	10.5	37.6	3	1
49-2093	Electrical and electronics installers and repairers, transportation equipment ¹	21	7.3	21.5	2	(²)
49-2094	Electrical and electronics repairers, commercial and industrial equipment ¹	80	7.3	33.9	6	3
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay ¹	22	7.3	33.9	2	1
49-2096	Electronic equipment installers and repairers, motor vehicles ¹	20	7.3	32.1	1	1
49-2097	Electronic home entertainment equipment installers and repairers ¹	40	7.3	9.3	3	(²)
49-2098	Security and fire alarm systems installers ¹	57	7.3	13.2	5	1
49-3000	Vehicle and mobile equipment mechanics, installers, and repairers	1,771	10.7	20.2	201	36
49-3011	Aircraft mechanics and service technicians	122	6.5	10.2	8	1
49-3020	Automotive technicians and repairers	979	11.9	21.1	125	21
49-3021	Automotive body and related repairers	183	18.3	23.7	35	4
49-3022	Automotive glass installers and repairers ¹	24	11.7	36.4	3	1
49-3023	Automotive service technicians and mechanics	773	10.4	20.1	86	15
49-3031	Bus and truck mechanics and diesel engine specialists	275	7.7	21.8	22	6
49-3040	Heavy vehicle and mobile equipment service technicians and mechanics	188	6.8	19.6	13	4
49-3041	Farm equipment mechanics	31	6.8	19.6	2	1

See footnotes at end of table.

Table V-3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
		Total, 2005–06	Net, 2006–16	Total	Net
49-3042 Mobile heavy equipment mechanics, except engines.....	131	6.8	19.6	9	3
49-3043 Rail car repairers.....	27	6.8	19.6	2	1
49-3050 Small engine mechanics	78	14.6	20.0	12	2
49-3051 Motorboat mechanics.....	24	14.6	20.0	4	(²)
49-3052 Motorcycle mechanics.....	21	14.6	20.0	3	(²)
49-3053 Outdoor power equipment and other small engine mechanics	33	14.6	20.0	5	1
49-3090 Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	128	14.3	19.9	20	3
49-3091 Bicycle repairers.....	9	14.3	19.9	1	(²)
49-3092 Recreational vehicle service technicians	14	14.3	19.9	2	(²)
49-3093 Tire repairers and changers	106	14.3	19.9	17	2
49-9000 Other installation, maintenance, and repair occupations	2,987	10.3	11.4	322	34
49-9010 Control and valve installers and repairers.....	58	8.9	17.5	5	1
49-9011 Mechanical door repairers ¹	15	8.9	17.5	1	(²)
49-9012 Control and valve installers and repairers, except mechanical door ¹	43	8.9	17.5	4	1
49-9021 Heating, air conditioning, and refrigeration mechanics and installers	292	8.9	17.5	27	5
49-9031 Home appliance repairers	57	7.2	22.6	4	1
49-9040 Industrial machinery installation, repair, and maintenance workers.....	1,794	10.2	5.5	192	10
49-9041 Industrial machinery mechanics.....	261	7.7	16.7	21	4
49-9042 Maintenance and repair workers, general.....	1,391	10.4	2.5	152	3
49-9043 Maintenance workers, machinery	84	18.0	16.0	15	1
49-9044 Millwrights	55	7.9	12.5	4	1
49-9045 Refractory materials repairers, except brickmasons	3	7.7	16.7	(²)	(²)
49-9050 Line installers and repairers	275	6.9	28.3	20	8
49-9051 Electrical power-line installers and repairers.....	112	4.8	31.5	6	4
49-9052 Telecommunications line installers and repairers.....	162	8.4	26.0	14	4
49-9060 Precision instrument and equipment repairers.....	68	3.7	28.0	3	2
49-9061 Camera and photographic equipment repairers ¹	4	3.7	28.0	(²)	(²)
49-9062 Medical equipment repairers ¹	38	3.7	28.0	2	1
49-9063 Musical instrument repairers and tuners ¹	6	3.7	28.0	(²)	(²)
49-9064 Watch repairers ¹	4	3.7	28.0	(²)	(²)
49-9069 Precision instrument and equipment repairers, all other ¹	16	3.7	28.0	1	(²)
49-9090 Miscellaneous installation, maintenance, and repair workers	442	15.4	16.1	71	7
49-9091 Coin, vending, and amusement machine servicers and repairers	48	10.3	27.7	5	1
49-9092 Commercial divers ¹	3	5.6	6.4	(²)	(²)
49-9093 Fabric menders, except garment	2	5.6	6.4	(²)	(²)
49-9094 Locksmiths and safe repairers ¹	26	10.3	19.4	3	1
49-9095 Manufactured building and mobile home installers	12	12.4	18.9	1	(²)
49-9096 Riggers ¹	12	5.6	6.4	1	(²)
49-9097 Signal and track switch repairers ¹	7	5.6	6.4	(²)	(²)
49-9098 Helpers—Installation, maintenance, and repair workers.....	163	29.0	23.5	50	4
49-9099 Installation, maintenance, and repair workers, all other.....	168	5.6	6.4	10	1
51-0000 Production occupations.....	10,675	13.6	20.2	1,416	216
51-1000 Supervisors, production workers.....	699	6.8	16.7	46	12
51-1011 First-line supervisors/managers of production and operating workers.....	699	6.8	16.7	46	12
51-2000 Assemblers and fabricators	2,075	19.9	20.1	403	42
51-2011 Aircraft structure, surfaces, rigging, and systems assemblers ¹	28	20.7	20.8	6	1
51-2020 Electrical, electronics, and electromechanical assemblers	297	14.4	17.0	38	5
51-2021 Coil winders, tapers, and finishers	23	14.4	17.0	3	(²)
51-2022 Electrical and electronic equipment assemblers	213	14.4	17.0	27	4
51-2023 Electromechanical equipment assemblers.....	60	14.4	17.0	8	1
51-2031 Engine and other machine assemblers ¹	45	20.2	23.9	9	1
51-2041 Structural metal fabricators and fitters ¹	103	20.2	17.3	21	2
51-2090 Miscellaneous assemblers and fabricators	1,602	20.7	20.8	329	33
51-2091 Fiberglass laminators and fabricators	33	20.7	20.8	7	1

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title		Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
51-2092	Team assemblers	1,274	20.7	20.8	264	26
51-2093	Timing device assemblers, adjusters, and calibrators.....	3	20.7	20.8	1	(²)
51-2099	Assemblers and fabricators, all other	292	20.7	20.8	58	6
51-3000	Food processing occupations	705	13.6	29.2	100	21
51-3011	Bakers	149	19.1	21.1	30	3
51-3020	Butchers and other meat, poultry, and fish processing workers.....	398	10.7	31.7	45	13
51-3021	Butchers and meat cutters	131	10.7	31.7	14	4
51-3022	Meat, poultry, and fish cutters and trimmers	144	10.7	31.7	16	5
51-3023	Slaughterers and meat packers	122	10.7	31.7	14	4
51-3090	Miscellaneous food processing workers	158	15.5	30.6	25	5
51-3091	Food and tobacco roasting, baking, and drying machine operators and tenders	19	20.0	37.2	4	1
51-3092	Food batchmakers	95	14.7	25.5	15	2
51-3093	Food cooking machine operators and tenders ¹	44	15.5	38.8	7	2
51-4000	Metal workers and plastic workers	2,258	13.3	19.2	288	43
51-4010	Computer control programmers and operators	158	9.4	11.9	15	2
51-4011	Computer-controlled machine tool operators, metal and plastic ¹	141	9.4	11.9	13	2
51-4012	Numerical tool and process control programmers ¹	18	9.4	11.9	2	(²)
51-4020	Forming machine setters, operators, and tenders, metal and plastic	161	9.1	26.6	14	4
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic ¹	94	9.1	27.2	8	3
51-4022	Forging machine setters, operators, and tenders, metal and plastic ¹	31	9.1	31.6	2	1
51-4023	Rolling machine setters, operators, and tenders, metal and plastic ¹	36	9.1	20.7	3	1
51-4030	Machine tool cutting setters, operators, and tenders, metal and plastic	513	15.0	19.4	70	10
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	272	12.2	24.0	31	7
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic ¹	43	16.2	20.1	6	1
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	101	19.3	9.8	18	1
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic.	68	17.5	19.5	10	1
51-4035	Milling and planing machine setters, operators, and tenders, metal and plastic ¹	29	19.3	9.8	5	(²)
51-4041	Machinists	397	10.1	15.5	40	6
51-4050	Metal furnace and kiln operators and tenders.....	33	33.0	15.5	10	1
51-4051	Metal-refining furnace operators and tenders	18	33.0	15.5	5	(²)
51-4052	Pourers and casters, metal	15	33.0	15.5	4	(²)
51-4060	Model makers and patternmakers, metal and plastic.....	16	21.2	23.5	3	(²)
51-4061	Model makers, metal and plastic ¹	9	21.2	23.5	2	(²)
51-4062	Patternmakers, metal and plastic ¹	7	21.2	23.5	2	(²)
51-4070	Molders and molding machine setters, operators, and tenders, metal and plastic	171	21.2	23.5	34	4
51-4071	Foundry mold and coremakers	15	21.2	23.5	3	(²)
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	157	21.2	23.5	31	4
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic ¹	97	16.2	20.1	16	2
51-4111	Tool and die makers	101	5.5	13.3	5	1
51-4120	Welding, soldering, and brazing workers	462	14.1	21.2	67	10
51-4121	Welders, cutters, solderers, and brazers	409	14.1	21.2	59	9
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	53	14.1	21.2	8	1
51-4190	Miscellaneous metalworkers and plastic workers	150	11.3	20.2	15	3
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic ¹	27	11.8	17.1	3	(²)
51-4192	Lay-out workers, metal and plastic ¹	10	11.8	17.1	1	(²)
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic....	42	10.3	29.7	4	1
51-4194	Tool grinders, filers, and sharpeners ¹	22	11.8	17.1	2	(²)
51-4199	Metal workers and plastic workers, all other	49	11.6	15.9	5	1
51-5000	Printing occupations	389	8.9	17.9	33	7
51-5010	Bookbinders and bindery workers	72	13.0	14.2	8	1

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title		Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
			Total, 2005–06	Net, 2006–16	Total	Net
51-5011	Bindery workers	65	13.0	14.2	8	1
51-5012	Bookbinders	7	13.0	14.2	1	(²)
51-5020	Printers.....	317	8.0	18.8	24	6
51-5021	Job printers	48	4.1	9.6	2	(²)
51-5022	Prepress technicians and workers	71	15.8	15.7	10	1
51-5023	Printing machine operators	198	6.4	22.1	12	4
51-6000	Textile, apparel, and furnishings occupations	873	13.9	16.6	115	14
51-6011	Laundry and dry-cleaning workers	239	14.5	22.4	36	5
51-6021	Pressers, textile, garment, and related materials.....	77	13.5	7.3	10	1
51-6031	Sewing machine operators.....	233	17.8	9.6	36	2
51-6040	Shoe and leather workers	20	15.1	18.4	3	(²)
51-6041	Shoe and leather workers and repairers ¹	16	14.5	20.7	2	(²)
51-6042	Shoe machine operators and tenders ¹	4	17.8	9.6	1	(²)
51-6050	Tailors, dressmakers, and sewers.....	77	15.7	16.8	12	1
51-6051	Sewers, hand	23	15.7	16.8	3	(²)
51-6052	Tailors, dressmakers, and custom sewers	54	15.7	16.8	9	1
51-6060	Textile machine setters, operators, and tenders	122	9.6	22.0	10	3
51-6061	Textile bleaching and dyeing machine operators and tenders ¹	19	10.5	14.2	2	(²)
51-6062	Textile cutting machine setters, operators, and tenders ¹	19	10.5	33.4	2	1
51-6063	Textile knitting and weaving machine setters, operators, and tenders.....	40	6.8	28.8	2	1
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	43	11.3	14.2	4	1
51-6090	Miscellaneous textile, apparel, and furnishings workers	106	7.4	18.8	7	2
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers ¹	18	6.9	20.1	1	(²)
51-6092	Fabric and apparel patternmakers ¹	9	6.9	20.1	1	(²)
51-6093	Upholsterers.....	55	5.5	15.6	3	1
51-6099	Textile, apparel, and furnishings workers, all other	24	12.1	24.8	3	1
51-7000	Woodworkers	370	10.4	25.2	39	9
51-7011	Cabinetmakers and bench carpenters	149	6.2	29.7	9	4
51-7021	Furniture finishers	31	32.9	18.0	10	1
51-7030	Model makers and patternmakers, wood	4	9.9	21.5	(²)	(²)
51-7031	Model makers, wood ¹	2	9.9	21.5	(²)	(²)
51-7032	Patternmakers, wood ¹	2	9.9	21.5	(²)	(²)
51-7040	Woodworking machine setters, operators, and tenders	165	10.1	22.9	17	4
51-7041	Sawing machine setters, operators, and tenders, wood	65	8.8	19.9	6	1
51-7042	Woodworking machine setters, operators, and tenders, except sawing	100	10.9	24.9	11	2
51-7099	Woodworkers, all other	20	9.9	21.5	2	(²)
51-8000	Plant and system operators	325	7.7	23.7	25	8
51-8010	Power plant operators, distributors, and dispatchers	47	4.8	34.5	2	2
51-8011	Nuclear power reactor operators.....	4	4.8	34.5	(²)	(²)
51-8012	Power distributors and dispatchers	9	4.8	34.5	(²)	(²)
51-8013	Power plant operators	35	4.8	34.5	2	1
51-8021	Stationary engineers and boiler operators	45	3.8	16.9	2	1
51-8031	Water and liquid waste treatment plant and system operators	111	6.8	17.5	8	2
51-8090	Miscellaneous plant and system operators	122	11.4	27.7	13	3
51-8091	Chemical plant and system operators	53	11.4	27.7	6	1
51-8092	Gas plant operators.....	12	11.4	27.7	1	(²)
51-8093	Petroleum pump system operators, refinery operators, and gaugers	42	11.4	27.7	4	1
51-8099	Plant and system operators, all other	14	11.4	27.7	2	(²)
51-9000	Other production occupations	2,981	12.7	20.2	368	60
51-9010	Chemical processing machine setters, operators, and tenders	97	2.8	22.8	3	2
51-9011	Chemical equipment operators and tenders	53	2.8	22.8	1	1
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	44	2.8	22.8	1	1

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16		
		Total, 2005–06	Net, 2006–16	Total	Net	
51-9020	Crushing, grinding, polishing, mixing, and blending workers	230	13.4	16.3	30	4
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	42	13.4	16.3	5	1
51-9022	Grinding and polishing workers, hand	45	13.4	16.3	6	1
51-9023	Mixing and blending machine setters, operators, and tenders	143	13.4	16.3	19	2
51-9030	Cutting workers	107	5.3	15.2	5	2
51-9031	Cutters and trimmers, hand	29	5.3	15.2	1	(²)
51-9032	Cutting and slicing machine setters, operators, and tenders	79	5.3	15.2	4	1
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	81	9.7	18.4	8	1
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	32	5.9	27.5	2	1
51-9061	Inspectors, testers, sorters, samplers, and weighers	491	15.9	14.8	75	7
51-9071	Jewelers and precious stone and metal workers	52	14.3	17.2	7	1
51-9080	Medical, dental, and ophthalmic laboratory technicians	95	6.0	18.8	6	2
51-9081	Dental laboratory technicians	53	6.0	18.8	3	1
51-9082	Medical appliance technicians	12	6.0	18.8	1	(²)
51-9083	Ophthalmic laboratory technicians	29	6.0	18.8	2	1
51-9111	Packaging and filling machine operators and tenders	386	21.2	18.6	80	7
51-9120	Painting workers	192	5.0	19.6	9	4
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	106	5.0	19.6	5	2
51-9122	Painters, transportation equipment	54	5.0	19.6	3	1
51-9123	Painting, coating, and decorating workers	31	5.0	19.6	2	1
51-9130	Photographic process workers and processing machine operators	73	13.8	34.7	8	3
51-9131	Photographic process workers	24	13.8	34.7	3	1
51-9132	Photographic processing machine operators	49	13.8	34.7	5	2
51-9141	Semiconductor processors ¹	42	14.4	17.0	6	1
51-9190	Miscellaneous production workers	1,102	11.9	23.6	130	26
51-9191	Cementing and gluing machine operators and tenders ¹	23	17.0	26.3	4	1
51-9192	Cleaning, washing, and metal pickling equipment operators and tenders ¹	16	17.0	28.7	3	(²)
51-9193	Cooling and freezing equipment operators and tenders ¹	11	17.0	22.2	2	(²)
51-9194	Etchers and engravers ¹	14	15.8	18.5	2	(²)
51-9195	Molders, shapers, and casters, except metal and plastic ¹	56	10.2	22.2	6	1
51-9196	Paper goods machine setters, operators, and tenders	113	7.7	24.2	8	3
51-9197	Tire builders ¹	23	17.0	36.9	4	1
51-9198	Helpers—Production workers	542	9.0	24.6	49	13
51-9199	Production workers, all other	305	17.4	20.7	54	6
53-0000	Transportation and material moving occupations	10,233	17.8	22.6	1,864	231
53-1000	Supervisors, transportation and material moving workers	414	6.0	20.4	26	8
53-1011	Aircraft cargo handling supervisors	6	6.0	20.4	(²)	(²)
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	182	6.0	20.4	12	4
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	226	6.0	20.4	14	5
53-2000	Air transportation occupations	137	3.6	28.8	5	4
53-2010	Aircraft pilots and flight engineers	107	3.6	29.2	4	3
53-2011	Airline pilots, copilots, and flight engineers	79	3.6	29.2	3	2
53-2012	Commercial pilots	28	3.6	29.2	1	1
53-2020	Air traffic controllers and airfield operations specialists	30	3.6	27.3	1	1
53-2021	Air traffic controllers ¹	25	3.6	27.3	1	1
53-2022	Airfield operations specialists ¹	5	3.6	27.3	(²)	(²)
53-3000	Motor vehicle operators	4,335	13.2	16.7	597	73
53-3011	Ambulance drivers and attendants, except emergency medical technicians ¹	22	13.6	12.9	3	(²)
53-3020	Bus drivers	653	11.7	13.1	80	9
53-3021	Bus drivers, transit and intercity	198	11.7	13.1	25	3
53-3022	Bus drivers, school	455	11.7	13.1	56	6
53-3030	Driver/sales workers and truck drivers	3,356	13.3	17.7	463	60
53-3031	Driver/sales workers	445	13.3	17.7	58	8

See footnotes at end of table.

Table V–3. Total and net replacement rates and annual average projected replacement needs, 2006–16 — Continued
 (Numbers in thousands)

2006 National Employment Matrix code and title	Total employment, 2006	Replacement rate (percent)		Annual average replacement needs, 2006–16	
		Total, 2005–06	Net, 2006–16	Total	Net
53-3032 Truck drivers, heavy and tractor-trailer.....	1,860	13.3	17.7	260	33
53-3033 Truck drivers, light or delivery services	1,051	13.3	17.7	145	19
53-3041 Taxi drivers and chauffeurs	229	13.6	12.9	33	3
53-3099 Motor vehicle operators, all other.....	76	22.8	15.8	18	1
53-4000 Rail transportation occupations.....	125	6.8	34.6	9	4
53-4010 Locomotive engineers and operators.....	47	6.8	30.7	3	1
53-4021 Railroad brake, signal, and switch operators ¹	25	6.8	34.7	2	1
53-4031 Railroad conductors and yardmasters ¹	40	6.8	38.9	3	2
53-4041 Subway and streetcar operators ¹	7	6.8	34.7	1	(²)
53-4099 Rail transportation workers, all other ¹	7	6.8	34.7	(²)	(²)
53-5000 Water transportation occupations.....	84	12.3	29.9	11	3
53-5011 Sailors and marine oilers ¹	33	22.7	35.4	8	1
53-5020 Ship and boat captains and operators	37	5.6	26.3	2	1
53-5021 Captains, mates, and pilots of water vessels	34	5.6	26.3	2	1
53-5022 Motorboat operators.....	3	5.6	26.3	(²)	(²)
53-5031 Ship engineers ¹	15	5.6	26.3	1	(²)
53-6000 Other transportation workers.....	312	21.8	32.0	72	10
53-6011 Bridge and lock tenders ¹	4	4.0	18.2	(²)	(²)
53-6021 Parking lot attendants	135	29.3	27.3	42	4
53-6031 Service station attendants.....	96	25.6	45.9	26	4
53-6041 Traffic technicians	7	4.0	18.2	(²)	(²)
53-6051 Transportation inspectors.....	26	5.9	33.6	2	1
53-6099 Transportation workers, all other.....	44	4.0	18.2	2	1
53-7000 Material moving occupations.....	4,825	23.7	26.9	1,143	130
53-7011 Conveyor operators and tenders ¹	50	13.4	17.3	6	1
53-7021 Crane and tower operators	46	5.3	17.9	2	1
53-7030 Dredge, excavating, and loading machine operators.....	85	7.1	15.9	6	1
53-7031 Dredge operators	2	7.1	15.9	(²)	(²)
53-7032 Excavating and loading machine and dragline operators	80	7.1	15.9	6	1
53-7033 Loading machine operators, underground mining.....	3	7.1	15.9	(²)	(²)
53-7041 Hoist and winch operators ¹	3	11.7	17.3	(²)	(²)
53-7051 Industrial truck and tractor operators	637	14.2	25.2	90	16
53-7060 Laborers and material movers, hand	3,766	26.3	27.7	987	104
53-7061 Cleaners of vehicles and equipment.....	368	32.3	38.2	127	14
53-7062 Laborers and freight, stock, and material movers, hand	2,416	25.6	32.0	626	77
53-7063 Machine feeders and offbearers	148	17.5	17.9	24	3
53-7064 Packers and packagers, hand.....	834	26.9	12.2	211	10
53-7070 Pumping station operators	29	18.6	39.6	5	1
53-7071 Gas compressor and gas pumping station operators	4	18.6	39.6	1	(²)
53-7072 Pump operators, except wellhead pumpers.....	11	18.6	39.6	2	(²)
53-7073 Wellhead pumpers	14	18.6	39.6	3	1
53-7081 Refuse and recyclable material collectors.....	136	26.1	27.1	37	4
53-7111 Shuttle car operators ¹	3	13.3	38.2	(²)	(²)
53-7121 Tank car, truck, and ship loaders ¹	16	25.6	17.7	4	(²)
53-7199 Material moving workers, all other	54	7.8	18.1	4	1

¹ One or more Current Population Survey (CPS) proxy occupations may be used to estimate CPS-based data.

² Less than 500.