Table 2. Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	inge	Total job
	2000 standard occupation classification code and title	Nun	nber		cent bution			openings due to growth
		2002	2012	2002	2012	Number	Percent	and net replace- ments, 2002-121
00-0000	Total, all occupations	144,014	165,319	100.0	100.0	21,305	14.8	56,305
11-1300	Management, business, and financial occupations	15,501	17,883	10.8	10.8	2,382	15.4	5,319
11-0000 11-1000	Management occupations	10,056 2,669	11,277 3,138	7.0 1.9	6.8 1.9	1,221 469	12.1 17.6	3,192 969
11-1000	Top executives		645	1.9	1.9	93	16.7	197
11-1011	General and operations managers		2,425	1.4	1.5	376	18.4	762
11-1031	Legislators		68	.0	.0	1	1.1	9
11-2000	Advertising, marketing, promotions, public relations, and sales managers	_	885	.5	.5	185	26.5	313
11-2011	Advertising and promotions managers		107	.1	.1	21	25.0	37
11-2020	Marketing and sales managers		693	.4	.4	148	27.1	249
11-2021	Marketing managers	203	246	.1	.1	43	21.3	81
11-2022	Sales managers		448	.2	.3	105	30.5	168
11-2031	Public relations managers	1	85	.0	.1	16	23.4	28
11-3000	Operations specialties managers		2,163	1.3	1.3	356	19.7	671
11-3011	Administrative services managers		384	.2	.2	63	19.8	126
11-3021 11-3031	Computer and information systems managers		387 709	.2 .4	.2	103	36.1	154
11-3031	Financial managers Human resources managers		242	.1	.4	109	18.3 19.4	195 73
11-3040	Industrial production managers	1	197	.1	.1	14	7.9	50
11-3061	Purchasing managers		113	.1	.1	5	4.8	29
11-3071	Transportation, storage, and distribution managers	1	133	.1	.1	22	19.7	44
11-9000	Other management occupations		5,090	3.4	3.1	210	4.3	1,240
11-9010	Agricultural managers		1,149	1.0	.7	-227	-16.5	117
11-9011	Farm, ranch, and other agricultural managers	218	229	.2	.1	11	5.1	49
11-9012	Farmers and ranchers	1,158	920	.8	.6	-238	-20.6	68
11-9021	Construction managers	1	435	.3	.3	47	12.0	117
11-9030	Education administrators		527	.3	.3	101	23.6	207
11-9031	Education administrators, preschool and child care center/program	58	77	.0	.0	19	32.0	33
11-9032 11-9033	Education administrators, elementary and secondary school Education administrators, postsecondary	1	262 157	.2 .1	.2 .1	45 32	20.7 25.9	99 63
11-9039	Education administrators, all other	27	32	.0	.0	5	19.1	12
11-9041	Engineering managers		231	.0	.1	20	9.2	62
11-9051	Food service managers		430	.3	.3	44	11.5	107
11-9061	Funeral directors	24	26	.0	.0	2	6.6	9
11-9071	Gaming managers	6	7	.0	.0	1	12.4	2
11-9081	Lodging managers		73	.0	.0	5	6.6	16
11-9111	Medical and health services managers		315	.2	.2	71	29.3	119
11-9121	Natural sciences managers		51	.0	.0	5	11.3	14
11-9131	Postmasters and mail superintendents	1	25	.0	.0	37	5	5
11-9141 11-9151	Property, real estate, and community association managers	293 129	330 164	.2 .1	.2 .1	36	12.8 27.7	92 60
11-9199	All other managers	1,256	1,325	.9	.8	69	5.5	314
13-0000	Business and financial operations occupations		6,606	3.8	4.0	1,162	21.3	2,127
13-1000	Business operations specialists		3,910	2.2	2.4	733	23.1	1,295
13-1011	Agents and business managers of artists, performers, and athletes		19	.0	.0	4	27.8	7
13-1020 13-1021	Buyers and purchasing agents Purchasing agents and buyers, farm products		455 21	.3 .0	.3	36	8.6 10.2	144
13-1021	Wholesale and retail buyers, except farm products		162	.0	.0	7	4.3	47
13-1022	Purchasing agents, except wholesale, retail, and farm products		273	.1	.2	27	11.2	88
13-1023	Claims adjusters, appraisers, examiners, and investigators		275	.2	.2	34	14.0	64
13-1031	Claims adjusters, examiners, and investigators		260	.2	.2	32	14.2	60
13-1032	Insurance appraisers, auto damage	14	16	.0	.0	2	11.7	3
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	158	173	.1	.1	15	9.8	52
13-1051	Cost estimators	1	223	.1	.1	35	18.6	77
13-1061	Emergency management specialists		14	.0	.0	3	28.2	6
13-1070	Human resources, training, and labor relations specialists ⁴		606	.3	.4	131	27.7	204
13-1071	Employment, recruitment, and placement specialists		223	.1	.1	48	27.3	75
13-1072	Compensation, benefits, and job analysis specialists		116	.1	.1	25	28.0	39
13-1073	Training and development specialists		267	.1	.2	58	27.9	90
13-1111	Management analysts		753	.4	.5	176	30.4	255
13-1121	Meeting and convention planners		45	.0	.0	8	21.3	16
13-1198	All other business operations specialists ⁵	1,056	1,346	.7	.8	290	27.5	470

Table 2. Continued—Employment by occupation, 2002 and projected 2012

13-2000 13-2011 13-2021 13-2031 13-2041 13-2050 13-2052 13-2053 13-2061 13-2070 13-2071	Financial specialists	62 66 400 172	2,696 1,261 104 71 78		2012 1.6 .8 .1	429 205	Percent 18.9 19.5	openings due to growth and net replace- ments, 2002-121
13-2011 13-2021 13-2031 13-2041 13-2050 13-2051 13-2052 13-2053 13-2061 13-2070	Accountants and auditors Appraisers and assessors of real estate Budget analysts Credit analysts Financial analysts and advisors Financial analysts Personal financial advisors Insurance underwriters Financial examiners	2,268 1,055 88 62 66 400 172	2,696 1,261 104 71 78	1.6 .7 .1	1.6 .8	429 205	18.9	replace- ments, 2002-121
13-2011 13-2021 13-2031 13-2041 13-2050 13-2051 13-2052 13-2053 13-2061 13-2070	Accountants and auditors Appraisers and assessors of real estate Budget analysts Credit analysts Financial analysts and advisors Financial analysts Personal financial advisors Insurance underwriters Financial examiners	1,055 88 62 66 400 172	1,261 104 71 78	.7 .1	.8	205		832
13-2011 13-2021 13-2031 13-2041 13-2050 13-2051 13-2052 13-2053 13-2061 13-2070	Accountants and auditors Appraisers and assessors of real estate Budget analysts Credit analysts Financial analysts and advisors Financial analysts Personal financial advisors Insurance underwriters Financial examiners	1,055 88 62 66 400 172	1,261 104 71 78	.7 .1	.8	205		
13-2031 13-2041 13-2050 13-2051 13-2052 13-2053 13-2061 13-2070	Appraisers and assessors of real estate Budget analysts Credit analysts Financial analysts and advisors Financial analysts Personal financial advisors Insurance underwriters Financial examiners	88 62 66 400 172	71 78					405
13-2031 13-2041 13-2050 13-2051 13-2052 13-2053 13-2061 13-2070	Budget analysts Credit analysts Financial analysts and advisors Financial analysts Personal financial advisors Insurance underwriters Financial examiners	62 66 400 172	71 78			16	17.6	34
13-2050 13-2051 13-2052 13-2053 13-2061 13-2070	Credit analysts Financial analysts and advisors Financial analysts Personal financial advisors Insurance underwriters Financial examiners	66 400 172			.0	9	14.0	19
13-2051 13-2052 13-2053 13-2061 13-2070	Financial analysts	172		.0	.0	12	18.7	23
13-2052 13-2053 13-2061 13-2070	Personal financial advisors Insurance underwriters Financial examiners		486	.3	.3	86	21.5	146
13-2053 13-2061 13-2070	Insurance underwritersFinancial examiners	126	204	.1	.1	32	18.7	58
13-2061 13-2070	Financial examiners	120	170	.1	.1	44	34.6	60
13-2070			112	.1	.1	10	10.0	28
			27	.0	.0	2	8.9	8
13-2071	Loan counselors and officers	255	302	.2	.2	48	18.7	89
	Loan counselors		37	.0	.0	6	17.8	11
13-2072	Loan officers		266	.2 .1	.2 .1	42	18.8	78
13-2080 13-2081	Tax examiners, collectors, preparers, and revenue agents		176 79	. i .1	.0	22	14.4 5.0	52 21
13-2081	Tax preparers	79	98	.1	.0	18	23.2	32
13-2002	All other financial specialists		190	.1	.1	28	17.6	57
14-2900	Professional and related occupations	27,687	34,147	19.2	20.7	6,459	23.3	11,794
15-0000	Computer and mathematical occupations	3,018	4,069	2.1	2.5	1.051	34.8	1,465
15-1000	Computer specialists		3,954	2.0	2.4	1,043	35.8	1,429
15-1011	Computer and information scientists, research		30	.0	.0	7	29.9	10
15-1021	Computer programmers		571	.3	.3	73	14.6	190
15-1030	Computer software engineers		982	.5	.6	307	45.5	374
15-1031	Computer software engineers, applications	394	573	.3	.3	179	45.5	218
15-1032	Computer software engineers, systems software	281	409	.2	.2	128	45.5	156
15-1041	Computer support specialists	507	660	.4	.4	153	30.3	216
15-1051	Computer systems analysts		653	.3	.4	184	39.4	237
15-1061	Database administrators		159	.1	.1	49	44.2	60
15-1071	Network and computer systems administrators		345	.2	.2	94	37.4	122
15-1081	Network systems and data communications analysts		292	.1	.2	106	57.0	128
15-1099 15-2000	All other computer specialists		262	.1	.2 .1	70	36.5 7.4	92 36
15-2000	Mathematical science occupations		115 18	.1 .0	.0	8 2	14.9	9
15-2011	Mathematicians		3	.0	.0	0	-1.0	1
15-2031	Operations research analysts		66	.0	.0	4	6.2	17
15-2041	Statisticians		21	.0	.0	1 1	4.8	6
15-2090	Miscellaneous mathematical science occupations	7	8	.0	.0	1	11.8	2
17-0000	Architecture and engineering occupations	2,587	2,809	1.8	1.7	222	8.6	802
17-1000	Architects, surveyors, and cartographers	204	233	.1	.1	29	14.1	67
17-1010	Architects, except naval		161	.1	.1	25	18.1	40
17-1011	Architects, except landscape and naval		133	.1	.1	20	17.3	32
17-1012	Landscape architects		28	.0	.0	5	22.2	8
17-1020	Surveyors, cartographers, and photogrammetrists	64	68	.0	.0	4	5.6	26
17-1021 17-1022	Cartographers and photogrammetrists		10 58	.0 .0	.0	1 2	15.1 4.2	4 21
17-1022	SurveyorsAll other architects, surveyors, and cartographers ²		4	.0	.0 .0	0	10.9	1
17-1099	Engineers		1,587	1.0	1.0	109	7.3	431
17-2011	Aerospace engineers		74	.1	.0	-4	-5.2	19
17-2021	Agricultural engineers		3	.0	.0	Ö	10.3	1
17-2031	Biomedical engineers		10	.0	.0	2	26.1	3
17-2041	Chemical engineers		33	.0	.0	0	.4	10
17-2051	Civil engineers	228	246	.2	.1	18	8.0	55
17-2061	Computer hardware engineers		78	.1	.0	5	6.1	17
17-2070	Electrical and electronics engineers		309	.2	.2	17	5.7	74
17-2071	Electrical engineers		160	.1	.1	4	2.5	34
17-2072	Electronics engineers, except computer		149	.1	.1	13	9.4	40
17-2081	Environmental engineers		65	.0	.0	18	38.2	26
17-2110 17-2111	Industrial engineers, including health and safety	194	213	.1	.1	20	10.1	67
11-2111	Health and safety engineers, except mining safety engineers and inspectors	36	38	.0	.0	3	7.9	11
17-2112	Industrial engineers		175	.1	.1	17	10.6	55
17-2121	Marine engineers and naval architects		5	.0	.0	0	-5.0	2
17-2131	Materials engineers		25	.0	.0	1	4.1	7

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	inge	Total job
	2000 standard occupation classification code and title	Nur	mber		cent bution			due to growth and net
		2002	2012	2002	2012	Number	Percent	replace- ments, 2002-121
17-2141	Mechanical engineers	215	225	0.1	0.1	10	4.8	69
17-2151	Mining and geological engineers, including mining safety engineers		5	.0	.0	0	-2.7	2
17-2161	Nuclear engineers		16	.0	.0	0	1	5
17-2171	Petroleum engineers		12	.0	.0	-1	-9.8	4
17-2199	All other engineers		267	.2	.2	24	9.7	70
17-3000 17-3010	Drafters, engineering, and mapping technicians		990 222	.6 .2	.6 .1	85 6	9.4 2.8	304 67
17-3010	Architectural and civil drafters		110	.1	.1	4	4.2	34
17-3012	Electrical and electronics drafters		38	.0	.0	0	.7	11
17-3013	Mechanical drafters		74	.1	.0	1	1.9	22
17-3020	Engineering technicians, except drafters4		526	.3	.3	48	10.1	148
17-3021	Aerospace engineering and operations technicians		15	.0	.0	0	1.5	3
17-3022	Civil engineering technicians		99	.1	1	7	7.6	26
17-3023 17-3024	Electrical and electronic engineering technicians		224 35	.1 .0	.1	20	10.0	63 10
17-3024 17-3025	Electro-mechanical technicians Environmental engineering technicians		24	.0	.0	5	11.5 28.4	9
17-3025	Industrial engineering technicians		67	.0	.0	5	8.7	18
17-3027	Mechanical engineering technicians		61	.0	.0	6	11.0	18
17-3031	Surveying and mapping technicians		74	.0	.0	14	23.1	36
17-3099	All other drafters, engineering, and mapping technicians2	150	167	.1	.1	17	11.3	53
19-0000	Life, physical, and social science occupations		1,450	.9	.9	212	17.2	511
19-1000	Life scientists		253	.1	.2	39	18.2	91
19-1010	Agricultural and food scientists		20	.0	.0	2	9.1	5
19-1020 19-1021	Biological scientists		90 21	.1 .0	.1	14	19.0 22.9	38
19-1021	Biochemists and biophysicists		20	.0	.0	3	20.0	8
19-1022	Zoologists and wildlife biologists		16	.0	.0	1 1	7.7	6
19-1029	Biological scientists, all other		33	.0	.0	6	22.3	15
19-1030	Conservation scientists and foresters		34	.0	.0	1	4.4	11
19-1031	Conservation scientists		20	.0	.0	1	4.1	6
19-1032	Foresters		14	.0	.0	1 1	4.7	5
19-1040 19-1041	Medical scientists		79 5	.0 .0	.0	17	27.3 32.5	28 2
19-1041	Epidemiologists Medical scientists, except epidemiologists		73	.0	.0	16	26.9	26
19-1099	All other life scientists		31	.0	.0	5	18.3	9
19-2000	Physical scientists		287	.2	.2	36	14.4	100
19-2010	Astronomers and physicists	14	15	.0	.0	1	6.8	6
19-2011	Astronomers		1	.0	.0	0	4.9	0
19-2012	Physicists		14	.0	.0	1	6.9	5
19-2021 19-2030	Atmospheric and space scientists		103	.0 .1	.0	1 11	16.2 12.4	41
19-2031	Chemists		95	.1	.1	1 11	12.7	38
19-2032	Materials scientists	_	8	.0	.0	1	8.5	3
19-2040	Environmental scientists and geoscientists	101	121	.1	.1	20	20.1	38
19-2041	Environmental scientists and specialists, including health		80	.0	.0	15	23.7	27
19-2042	Geoscientists, except hydrologists and geographers		31	.0	.0	3	11.5	8
19-2043	Hydrologists		10	.0	.0	2	21.0	3
19-2099 19-3000	All other physical scientists		39 512	.0 .3	.0	2 86	6.5 20.1	11 190
19-3011	Economists		18	.0	.0	2	13.4	7
19-3020	Market and survey researchers		193	.1	.1	38	24.7	78
19-3021	Market research analysts		166	.1	.1	31	23.4	66
19-3022	Survey researchers	20	27	.0	.0	7	33.6	12
19-3030	Psychologists4		173	.1	.1	34	24.3	64
19-3031	Clinical, counseling, and school psychologists		171	.1	.1	34	24.4	63
19-3032	Industrial-organizational psychologists		2	.0	.0	0	16.0	1
19-3041 19-3051	SociologistsUrban and regional planners		36	.0 .0	.0	0 3	13.4 10.7	1 14
19-3051	Miscellaneous social scientists and related workers ³		15	.0	.0	1	9.2	4
19-3090	Anthropologists and archeologists		5	.0	.0		12.8	2
19-3092	Geographers		1	.0	.0	Ö	19.5	0
19-3093	Historians		2	.0	.0	0	6.6	1
19-3094	Political scientists	6	6	.0	.0	0	5.9	2
19-3098	All other social scientists and related workers ⁵		74	.0	.0	7	9.7	21
19-4000	Life, physical, and social science technicians	346	397	.2	.2	51	14.8	130

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Change		Total job
	2000 standard occupation classification code and title	Nun	nber		cent oution			openings due to growth
		2002	2012	2002	2012	Number	Percent	and net replace- ments, 2002-121
19-4011	Agricultural and food science technicians	20	22	0.0	0.0	2	9.3	6
19-4021	Biological technicians	48	57	.0	.0	9	19.4	17
19-4031	Chemical technicians	69	72	.0	.0	3	4.7	20
19-4041	Geological and petroleum technicians	11	11	.0	.0	0	1.3	3
19-4051	Nuclear technicians	6	6	.0	.0	0	1.5	2
19-4090	Other life, physical, and social science technicians ³	55 28	67 38	.0	.0	12	22.8 36.8	25
19-4091 19-4092	Environmental science and protection technicians, including health Forensic science technicians	8	10	.0 .0	.0 .0	10 2	18.9	17 4
19-4093	Forest and conservation technicians	19	20	.0	.0	1	4.0	5
19-4098	All other life, physical, and social science technicians ⁵	137	161	.1	.1	24	17.5	56
21-0000	Community and social services occupations	2,190	2,764	1.5	1.7	574	26.2	992
21-1000	Counselors, social workers, and other community and social service	,	,				-	
21 1010	specialists ⁴	1,436	1,853	1.0	1.1	417	29.0	695
21-1010 21-1011	Counselors ⁴ Substance abuse and behavioral disorder counselors	526 67	645 83	.4 .0	.4 .1	119	22.6 23.3	239 31
21-1011	Educational, vocational, and school counselors	228	262	.0 .2	.1	34	23.3 15.0	86
21-1012	Marriage and family therapists	23	202	.0	.0	5	22.4	11
21-1014	Mental health counselors	85	107	.1	.1	23	26.7	42
21-1015	Rehabilitation counselors	122	164	.1	.1	41	33.8	69
21-1020	Social workers ⁴	477	604	.3	.4	127	26.7	209
21-1021	Child, family, and school social workers	274	338	.2	.2	64	23.2	111
21-1022	Medical and public health social workers	107	138	.1	.1	31	28.6	49
21-1023	Mental health and substance abuse social workers	95	128	.1	.1	33	34.5	49
21-1090	Miscellaneous community and social service specialists ⁴	434	605	.3	.4	171	39.4	247
21-1091 21-1092	Health educators	45	54 97	.0	.0	10	21.9	18
21-1092	Probation officers and correctional treatment specialists	84 305	454	.1 .2	.1 .3	12 149	14.7 48.7	27 202
21-1093	Religious workers ⁴	506	593	.4	.4	87	17.3	181
21-2011	Clergy	400	463	.3	.3	62	15.5	144
21-2021	Directors, religious activities and education	105	131	.1	.1	25	24.1	37
21-9099	All other counselors, social, and religious workers ²	248	318	.2	.2	70	28.3	116
23-0000	Legal occupations	1,168	1,357	.8	.8	190	16.2	327
23-1000	Lawyers, judges, and related workers	747	869	.5	.5	122	16.4	218
23-1011	Lawyers	695	813	.5	.5	118	17.0	207
23-1020	Judges, magistrates, and other judicial workers	51	56	.0	.0	4	8.3	11
23-1021 23-1022	Administrative law judges, adjudicators, and hearing officers	19 6	20 7	.0 .0	.0 .0	1 1	5.8 13.7	3 2
23-1022	Judges, magistrate judges, and magistrates	27	29	.0	.0	2	8.7	6
23-2000	Legal support workers	320	380	.2	.2	60	18.7	91
23-2011	Paralegals and legal assistants	200	257	.1	.2	57	28.7	73
23-2090	Miscellaneous legal support workers4	121	123	.1	.1	3	2.1	17
23-2091	Court reporters	18	20	.0	.0	2	12.7	4
23-2092	Law clerks	48	50	.0	.0	2	3.7	7
23-2093 23-9099	Title examiners, abstractors, and searchers	55 101	53 109	.0 .1	.0 .1	-1 8	-2.7 7.6	6 19
25-0000	Education, training, and library occupations	8,530	10,639	5.9	6.4	2,109	24.7	3,890
25-0000 25-1000	Postsecondary teachers	1,581	2,184	1.1	1.3	603	38.1	960
25-2000	Primary, secondary, and special education teachers	4,187	4,983	2.9	3.0	795	19.0	1,733
25-2010	Preschool and kindergarten teachers	592	791	.4	.5	199	33.6	270
25-2011	Preschool teachers, except special education	424	577	.3	.3	153	36.2	204
25-2012	Kindergarten teachers, except special education	168	214	.1	.1	46	27.2	66
25-2020	Elementary and middle school teachers	2,070	2,347	1.4	1.4	277	13.4	734
25-2021	Elementary school teachers, except special education	1,467	1,690	1.0	1.0	223	15.2	547
25-2022 25-2023	Middle school teachers, except special and vocational education	585 18	637 19	.4 .0	.4 .0	52	9.0 9.0	182 5
25-2023 25-2030	Vocational education teachers, middle school	1,093	1,282	.0 .8	.0 .8	189	9.0 17.3	497
25-2030 25-2031	Secondary school teachers, except special and vocational education	988	1,167	.7	.7	180	18.2	458
25-2032	Vocational education teachers, secondary school	105	115	.1	.1	100	9.0	39
25-2040	Special education teachers	433	563	.3	.3	130	30.0	233
25-3000	Other teachers and instructors	960	1,285	.7	.8	325	33.9	444
25-3011	Adult literacy, remedial education, and GED teachers and instructors	80	96	.1	.1	16	20.4	26
25-3021	Self-enrichment education teachers	200	281	.1	.2	80	40.1	105
25-3999	All other teachers, primary, secondary, and adult2	679	908	.5	.5	229	33.7	312

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	Total job	
	2000 standard occupation classification code and title	Nun	nber		cent oution			openings due to growth and net
		2002	2012	2002	2012	Number	Percent	replace- ments, 2002-121
25-4000	Librarians, curators, and archivists	309	349	0.2	0.2	41	13.2	129
25-4010	Archivists, curators, and museum technicians		26	.0	.0	4	17.0	9
25-4021	Librarians		184	.1	.1	17	10.1	57
25-4031	Library technicians		139	.1	.1	20	16.8	64
25-9000 25-9011	Other education, training, and library occupations		1,838 11	1.0	1.1	345	23.1 16.3	624
25-9011	Audio-visual collections specialists Farm and home management advisors		17	.0 .0	.0 .0	1	6.9	3
25-9031	Instructional coordinators		123	.1	.1	25	25.4	40
25-9041	Teacher assistants		1,571	.9	1.0	294	23.0	541
25-9199	All other library, museum, training, and other education workers ²	93	116	.1	.1	23	24.6	37
27-0000	Arts, design, entertainment, sports, and media occupations		2,769	1.7	1.7	393	16.5	847
27-1000 27-1010	Art and design occupations Artists and related workers		900	.5 .1	.5	125	16.1 14.4	245
27-1010	Art directors		170 56	.0	.1	21	11.4	54 17
27-1013	Fine artists, including painters, sculptors, and illustrators	_	27	.0	.0	4	16.5	9
27-1014	Multi-media artists and animators		87	.1	.1	12	15.8	28
27-1020	Designers	532	625	.4	.4	93	17.4	164
27-1021	Commercial and industrial designers		59	.0	.0	8	14.7	15
27-1022	Fashion designers		16	.0	.0	2	10.6	4
27-1023 27-1024	Floral designers		117 258	.1 .1	.1	13 46	12.4 21.9	27 75
27-1024	Graphic designers		73	.0	.2 .0	13	21.9	21
27-1026	Merchandise displayers and window trimmers		86	.1	.1	9	11.3	19
27-1027	Set and exhibit designers		15	.0	.0	3	20.9	4
27-1099	All other art and design workers5		106	.1	.1	11	11.5	28
27-2000	Entertainers and performers, sports and related occupations		709	.4	.4	103	17.0	228
27-2010	Actors, producers, and directors		164	.1 .0	.1	25	18.0	44
27-2011 27-2012	Actors Producers and directors		74 90	.0	.0 .1	11	17.7 18.3	19 25
27-2020	Athletes, coaches, umpires, and related workers		187	.1	.1	29	18.3	59
27-2021	Athletes and sports competitors		18	.0	.0	3	19.2	6
27-2022	Coaches and scouts		153	.1	.1	24	18.3	49
27-2023	Umpires, referees, and other sports officials		16	.0	.0	2	16.9	5
27-2030 27-2031	Dancers and choreographers Dancers		42 22	.0 .0	.0 .0	5 2	13.3 11.1	28 15
27-2032	Choreographers		20	.0	.0	3	15.8	13
27-2040	Musicians, singers, and related workers		250	.1	.2	35	16.2	80
27-2041	Music directors and composers	54	62	.0	.0	7	13.5	19
27-2042	Musicians and singers		189	.1	.1	27	17.1	61
27-2099 27-3000	All other entertainers and performers, sports and related workers		65 815	.0 .5	.0 .5	9 115	16.4 16.4	16 260
27-3000	Media and communication occupations Announcers		68	.3 .1	.0	-8	-10.4	19
27-3020	News analysts, reporters and correspondents		70	.0	.0	4	6.2	20
27-3031	Public relations specialists		210	.1	.1	52	32.9	75
27-3040	Writers and editors		370	.2	.2	51	16.0	121
27-3041	Editors		145	.1	.1	15	11.8	47
27-3042 27-3043	Technical writers Writers and authors		63 161	.0 .1	.0 .1	13	27.1 16.1	28 46
27-3043	Miscellaneous media and communications workers		97	.1	.1	15	18.6	25
27-3091	Interpreters and translators		29	.0	.0	5	22.1	8
27-3099	All other media and communication workers	58	68	.0	.0	10	17.2	17
27-4000	Media and communication equipment occupations		345	.2	.2	50	16.9	115
27-4010 27-4011	Broadcast and sound engineering technicians and radio operators		111	.1 .0	.1	18	19.6	41 21
27-4011	Audio and video equipment technicians Broadcast technicians		53 39	.0	.0 .0	11 4	26.7 11.3	13
27-4012	Radio operators		3	.0	.0	0	-6.2	1
27-4014	Sound engineering technicians		16	.0	.0	3	25.5	6
27-4021	Photographers		148	.1	.1	18	13.6	44
27-4030	Television, video, and motion picture camera operators and editors		56	.0	.0	9	18.7	19
27-4031 27-4032	Camera operators, television, video, and motion picture		32 25	.0 .0	.0 .0	5	13.4 26.4	10
27-4032 27-4099	All other media and communication equipment workers		29	.0	.0	5	20.4	10
29-0000	Healthcare practitioners and technical occupations	6,580	8,288	4.6	5.0	1,708	26.0	2,959
29-1000	Health diagnosing and treating practitioners		5,125	2.8	3.1	1,054	25.9	1,849

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Change		Total job
	2000 standard occupation classification code and title	Nun	nber		cent oution			openings due to growth and net
		2002	2012	2002	2012	Number	Percent	replace- ments, 2002-121
29-1011	Chiropractors	49	60	0.0	0.0	11	23.3	21
29-1020	Dentists	153	159	.1	.1	6	4.1	32
29-1031	Dietitians and nutritionists	49	58	.0	.0	9	17.8	21
29-1041	Optometrists	32	38	.0	.0	5	17.1	14
29-1051	Pharmacists	230	299	.2	.2	69	30.1	114
29-1060	Physicians and surgeons	583	697	.4	.4	114	19.5	191
29-1071	Physician assistants	63	94	.0	.1	31	48.9	40
29-1081	Podiatrists	13	15	.0	.0	623	15.0 27.3	5
29-1111 29-1120	Registered nurses Therapists ⁴	2,284 450	2,908 592	1.6 .3	1.8 .4	142	27.3 31.7	1,101 231
29-1121	Audiologists	11	14	.0	.0	3	29.0	6
29-1122	Occupational therapists	82	110	.1	.1	29	35.2	40
29-1123	Physical therapists	137	185	.1	.1	48	35.3	62
29-1124	Radiation therapists	14	18	.0	.0	4	31.6	7
29-1125	Recreational therapists	27	29	.0	.0	2	9.1	9
29-1126	Respiratory therapists	86	116	.1	.1	30	34.8	58
29-1127	Speech-language pathologists	94	120	.1	.1	26	27.2	49
29-1131	Veterinarians	58	72	.0	.0	14	25.1	28
29-1198	All other health diagnosing and treating practitioners ⁵	107	134	.1	.1	26	24.5	50
29-2000 29-2010	Health technologists and technicians4	2,263 297	2,857 355	1.6 .2	1.7	593 58	26.2 19.4	1,002 138
29-2010	Clinical laboratory technologists and technicians	150	179	.2 .1	.2 .1	29	19.4	69
29-2012	Medical and clinical laboratory technicians	147	176	.1	.1	29	19.4	68
29-2021	Dental hygienists	148	212	.1	.1	64	43.1	76
29-2030	Diagnostic related technologists and technicians	271	338	.2	.2	67	24.8	118
29-2031	Cardiovascular technologists and technicians	43	58	.0	.0	15	33.5	23
29-2032	Diagnostic medical sonographers	37	45	.0	.0	9	24.0	16
29-2033	Nuclear medicine technologists	17	21	.0	.0	4	23.6	7
29-2034	Radiologic technologists and technicians	174	214	.1	.1	40	22.9	72
29-2041	Emergency medical technicians and paramedics	179	238	.1	.1	59	33.1	80
29-2050	Health diagnosing and treating practitioner support technicians	451	574	.3	.3	123	27.2	181
29-2051 29-2052	Dietetic technicians Pharmacy technicians	29 211	35 271	.0 .1	.0 .2	61	20.2 28.8	10 88
29-2052	Psychiatric technicians	60	63	.0	.0	4	5.9	11
29-2054	Respiratory therapy technicians	26	35	.0	.0	9	34.2	12
29-2055	Surgical technologists	72	92	.1	.1	20	27.9	30
29-2056	Veterinary technologists and technicians	53	76	.0	.0	23	44.1	30
29-2061	Licensed practical and licensed vocational nurses	702	844	.5	.5	142	20.2	295
29-2071	Medical records and health information technicians	147	216	.1	.1	69	46.8	90
29-2081	Opticians, dispensing	63	75	.0	.0	11	18.2	23
29-2090	Miscelaneous health technologists and technicians ⁴	5	6	.0	.0	1	18.9	2
29-2091	Orthotists and prosthetists	5	6	.0	.0	1	18.9	2
29-9000 29-9010	Other healthcare practitioners and technical occupations ⁴ Occupational health and safety specialists and technicians	56 41	65 47	.0 .0	.0 .0	10	17.4 13.2	22 14
29-9090	Miscelaneous health practitioners and technical workers ⁴	14	19	.0	.0	4	29.9	7
29-9091	Athletic trainers	14	19	.0	.0	4	29.9	, <u>,</u>
29-9199	All other health practitioners and technical workers ⁵	190	241	.1	.1	52	27.2	86
31-3900	Service occupations	26,569	31,905	18.4	19.3	5,336	20.1	12,962
31-0000	Healthcare support occupations	3,310	4,452	2.3	2.7	1,143	34.5	1,669
31-1000	Nursing, psychiatric, and home health aides	2,014	2,645	1.4	1.6	630	31.3	894
31-1011	Home health aides	580	859	.4	.5	279	48.1	355
31-1012	Nursing aides, orderlies, and attendants	1,375	1,718	1.0	1.0	343	24.9	523
31-1013	Psychiatric aides	59	68	.0	.0	9	14.5	16
31-2000 31-2010	Occupational and physical therapist assistants and aides Occupational therapist assistants and aides	114 27	164 38	.1 .0	.1 .0	50 11	44.2 40.2	68 14
31-2010	Occupational therapist assistants and alues	18	26	.0	.0	7	39.2	10
31-2011	Occupational therapist adds	8	12	.0	.0	4	42.6	5
31-2020	Physical therapist assistants and aides	87	127	.1	.1	40	45.4	54
31-2021	Physical therapist assistants	50	73	.0	.0	22	44.6	31
31-2022	Physical therapist aides	37	54	.0	.0	17	46.4	23
31-9000	Other healthcare support occupations	1,182	1,644	.8	1.0	462	39.1	706
31-9011	Massage therapists	92	117	.1	.1	25	27.1	43
31-9090 31-9091	Miscellaneous healthcare support occupations	1,090	1,527	.8	.9	437	40.1	664
.5 I = 9U9T	Dental assistants	266	379	.2	.2	113	42.5	187

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	nge	Total job
	2000 standard occupation classification code and title	Nun	nber		cent bution			openings due to growth and net
		2002	2012	2002	2012	Number	Percent	replace- ments, 2002-121
31-9092	Medical assistants	365	579	0.3	0.4	215	58.9	282
31-9093	Medical equipment preparers	36	43	.0	.0	7	18.1	13
31-9094	Medical transcriptionists	101	124	.1	.1	23	22.6	41
31-9095	Pharmacy aides	60	71	.0	.0	11	17.6	22
31-9096 31-9099	Veterinary assistants and laboratory animal caretakers	63 198	79 251	.0 .1	.0 .2	16	26.2 26.6	28 89
33-0000	• •	3,116	3,885	2.2	2.4	769	24.7	1,649
33-1000	Protective service occupations First-line supervisors/managers, protective service workers	266	315	.2	.2	49	18.3	1,649
33-1000	First-line supervisors/managers, law enforcement workers	147	171	.1	.1	24	16.1	71
33-1011	First-line supervisors/managers of correctional officers	33	40	.0	.0	6	19.0	16
33-1012	First-line supervisors/managers of police and detectives	114	131	.1	.1	17	15.3	55
33-1021	First-line supervisors/managers of fire fighting and prevention workers	63	74	.0	.0	12	18.7	37
33-1099	First-line supervisors/managers of protective service workers, except police,	F.C.	70	0		10	22.0	20
33-2000	fire and corrections Fire fighting and prevention workers	56 296	70 356	.0 .2	.0 .2	13	23.9 20.3	28 146
33-2000	Fire fighters	282	340	.2	.2	58	20.3	140
33-2020	Fire inspectors	14	16	.0	.0	2	11.6	6
33-3000	Law enforcement workers	1,179	1,460	.8	.9	281	23.9	563
33-3010	Bailiffs, correctional officers, and jailers	442	547	.3	.3	105	23.7	197
33-3011	Bailiffs	15	16	.0	.0	1	9.5	5
33-3012	Correctional officers and jailers	427	531	.3	.3	103	24.2	192
33-3021 33-3031	Detectives and criminal investigatorsFish and game wardens	94 8	115 8	.1 .0	.0	21	22.4 7.1	46 2
33-3041	Parking enforcement workers	11	12	.0	.0		11.5	3
33-3050	Police officers	625	779	.4	.5	154	24.6	315
33-3051	Police and sheriff's patrol officers	619	772	.4	.5	153	24.7	313
33-3052	Transit and railroad police	6	7	.0	.0	1	15.9	2
33-9000	Other protective service workers	1,374	1,753	1.0	1.1	379	27.6	804
33-9011	Animal control workers	11	12	.0	.0	1	12.6	9
33-9021	Private detectives and investigators	48	60	.0	.0	12 319	25.3	22 538
33-9030 33-9031	Security guards and gaming surveillance officers	1,004 9	1,324 11	.7 .0	.8 .0	2	31.8 24.6	4
33-9032	Security guards	995	1,313	.7	.8	317	31.9	534
33-9091	Crossing guards	74	86	.1	.1	12	16.5	36
33-9095	All other protective service workers ⁵	237	271	.2	.2	34	14.3	199
35-0000	Food preparation and serving related occupations	10,200	11,807	7.1	7.1	1,607	15.8	5,659
35-1000	Supervisors, food preparation and serving workers	824	952	.6	.6	128	15.6	332
35-1011	Chefs and head cooks	132	153	.1	.1	21	15.8	60
35-1012 35-2000	First-line supervisors/managers of food preparation and serving workers Cooks and food preparation workers ⁴	692 2,836	800 3,182	.5 2.0	.5 1.9	107 346	15.5 12.2	272 1,262
35-2010	Cooks ⁴	1,986	2,160	1.4	1.3	174	8.8	789
35-2011	Cooks, fast food	588	617	.4	.4	29	4.9	211
35-2012	Cooks, institution and cafeteria	436	445	.3	.3	9	2.1	144
35-2013	Cooks, private household	8	8	.0	.0	0	-5.4	3
35-2014	Cooks, restaurant	727	843	.5	.5	116	15.9	341
35-2015 35-2021	Cooks, short order Food preparation workers	227 850	247 1,022	.2 .6	.1 .6	20 172	9.0 20.2	91 473
35-3000	Food and beverage serving workers	5,211	6,171	3.6	3.7	960	18.4	3,454
35-3011	Bartenders	463	503	.3	.3	40	8.6	223
35-3020	Fast food and counter workers	2,457	2,989	1.7	1.8	532	21.7	1,699
35-3021	Combined food preparation and serving workers, including fast food	1,990	2,444	1.4	1.5	454	22.8	1,317
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	467	545	.3	.3	78	16.7	383
35-3031	Waiters and waitresses	2,097	2,464	1.5	1.5	367	17.5	1,446
35-3041 35-9000	Food servers, nonrestaurant Other food preparation and serving related workers4	195 1,328	215 1,502	.1 .9	.1 .9	173	10.4 13.0	85 611
35-9000	Dining room and cafeteria attendants and bartender helpers	409	470	.3	.3	61	14.9	198
35-9021	Dishwashers	505	551	.4	.3	46	9.0	216
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	298	347	.2	.2	49	16.4	143
35-9098	All other food preparation and serving related workers5	117	134	.1	.1	18	15.2	54
37-0000	Building and grounds cleaning and maintenance occupations	5,485	6,386	3.8	3.9	901	16.4	2,000
37-1000	Supervisors, building and grounds cleaning and maintenance workers	380	449	.3	.3	70	18.4	138
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	230	267	.2	.2	37	16.2	92
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Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	nge	Total job
	2000 standard occupation classification code and title	Nun	nber		cent oution			openings due to growth
	·	2002	2012	2002	2012	Number	Percent	and net replace- ments, 2002-121
37-1012	First-line supervisors/managers of landscaping, lawn service, and							
	groundskeeping workers	150	182	0.1	0.1	32	21.6	46
37-2000	Building cleaning and pest control workers		4,381	2.7	2.7	561	14.7	1,314
37-2010	Building cleaning workers4		4,309	2.6	2.6	550	14.6	1,294
37-2011	Janitors and cleaners, except maids and housekeeping cleaners		2,681	1.6	1.6	414	18.3	844
37-2012	Maid and housekeeping cleaners		1,629	1.0	1.0	137	9.2	450
37-2021 37-3000	Pest control workers	62 1,285	72 1,555	.0 .9	.0 .9	10 270	17.0 21.0	20 548
37-3000	Grounds maintenance workers ⁴		1,410	.8	.9	250	21.0	503
37-3010	Landscaping and groundskeeping workers		1,410	.o .7	.8	237	22.0	470
37-3011	Pesticide handlers, sprayers, and applicators, vegetation		30	.0	.0	3	9.7	9
37-3013	Tree trimmers and pruners		69	.0	.0	11	18.6	24
37-9099	All other building and grounds cleaning and maintenance workers5	125	145	.1	.1	20	16.1	46
39-0000	Personal care and service occupations		5,375	3.1	3.3	917	20.6	1,985
39-1000	Supervisors, personal care and service workers		305	.2	.2	29	10.7	96
39-1010	First-line supervisors/managers, gaming workers		69	.0	.0	9	15.4	22
39-1011	Gaming supervisors		45	.0	.0	6	15.7	14
39-1012	Slot key persons		24	.0	.0	3	14.8	8
39-1021 39-2000	First-line supervisors/managers of personal service workers		236 183	.1 .1	.1	20 32	9.4 20.8	74 68
39-2000	Animal care and service workers	26	30	.0	.1 .0	32	14.3	9
39-2011	Nonfarm animal caretakers	125	153	.0	.0	28	22.2	59
39-3000	Entertainment attendants and related workers		626	.4	.4	119	23.6	300
39-3010	Gaming services workers ⁴		115	.1	.1	23	24.7	52
39-3011	Gaming dealers		97	.1	.1	19	24.7	44
39-3012	Gaming and sports book writers and runners		18	.0	.0	3	24.4	8
39-3021	Motion picture projectionists		9	.0	.0	0	.4	5
39-3031	Ushers, lobby attendants, and ticket takers		121	.1	.1	16	15.5	76
39-3090	Miscellaneous entertainment attendants and related workers ⁴	261	333	.2	.2	72	27.6	147
39-3091	Amusement and recreation attendants		299	.2	.2	65	27.8	132
39-3092	Costume attendants		5	.0	.0	1	25.1	2
39-3093 39-3199	Locker room, coatroom, and dressing room attendants	23 40	29 49	.0 .0	.0 .0	6 9	26.5 21.3	13 21
39-4000	All other gaming service workers ² Funeral service workers	-	38	.0	.0	5	16.7	12
39-4011	Embalmers	7	7	.0	.0	1 1	8.3	2
39-4021	Funeral attendants		31	.0	.0	5	18.9	10
39-5000	Personal appearance workers		865	.5	.5	111	14.7	262
39-5010	Barbers and cosmetologists	651	741	.5	.4	90	13.8	221
39-5011	Barbers		70	.0	.0	4	6.5	23
39-5012	Hairdressers, hairstylists, and cosmetologists		671	.4	.4	86	14.7	199
39-5090	Miscellaneous personal appearance workers		124	.1	.1	21	20.3	41
39-5091 39-5092	Makeup artists, theatrical and performance		2 63	.0 .0	.0	0 12	18.2 22.7	1 21
39-5092	Shampooers	25	29	.0	.0 .0	4	16.6	9
39-5094	Skin care specialists	25	30	.0	.0	5	19.4	10
39-6000	Transportation, tourism, and lodging attendants		284	.2	.2	36	14.7	84
39-6010	Baggage porters, bellhops, and concierges		86	.1	.1	11	14.6	31
39-6011	Baggage porters and bellhops		67	.0	.0	8	14.4	24
39-6012	Concierges		20	.0	.0	3	15.3	7
39-6020	Tour and travel guides		47	.0	.0	4	9.3	15
39-6021	Tour guides and escorts	36	40	.0	.0	4	11.0	14
39-6022	Travel guides		6	.0	.0	0	3	2
39-6030 39-6031	Transportation attendants	130	152	.1	.1	22	16.5	38
39-6031 39-6032	Flight attendants Transportation attendants, except flight attendants and baggage porters	104 26	121 31	.1 .0	.1	17	15.9 18.9	30
39-6032	Other personal care and service workers	2,490	3,073	.0 1.7	1.9	583	23.4	1,161
39-9011	Child care workers	1,211	1,353	.8	.8	142	11.7	471
39-9021	Personal and home care aides		854	.4	.5	246	40.5	343
39-9030	Recreation and fitness workers	485	628	.3	.4	143	29.5	254
39-9031	Fitness trainers and aerobics instructors	183	264	.1	.2	81	44.5	123
39-9032	Recreation workers		364	.2	.2	62	20.5	131
39-9041	Residential advisors	53	71	.0	.0	18	33.6	29
39-9099	Personal care and service workers, all other	134	168	.1	.1	35	25.9	63
41-0000	Sales and related occupations	15,260	17,231	10.6	10.4	1,971	12.9	6,904

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	nge	Total job	
	2000 standard occupation classification code and title	Nun	nber		cent bution			openings due to growth and net	
		2002	2012	2002	2012	Number	Percent	replace- ments, 2002-121	
41-1000 41-1011	Supervisors, sales workers First-line supervisors/managers of retail sales workers	2,395 1,798	2,599 1,962	1.7 1.2	1.6 1.2	204 163	8.5 9.1	640 486	
41-1011	First-line supervisors/managers of non-retail sales workers	597	637	.4	.4	41	6.8	153	
41-2000	Retail sales workers	8,224	9,392	5.7	5.7	1,167	14.2	4,578	
41-2010	Cashiers	3,465	3,927	2.4	2.4	462	13.3	2,148	
41-2011	Cashiers, except gaming	3,432	3,886	2.4	2.4	454	13.2	2,124	
41-2012	Gaming change persons and booth cashiers	33	41	.0	.0	8	24.1	24	
41-2020	Counter and rental clerks and parts salespersons	683	793	.5	.5	109	16.0	352	
41-2021 41-2022	Counter and rental clerks	436 248	550 243	.3 .2	.3	114	26.3 -2.0	281	
41-2022	Parts salespersons Retail salespersons	4,076	4,672	2.8	.1 2.8	-5 596	14.6	71 2.077	
41-3000	Sales representatives, services ⁴	957	1,033	.7	.6	76	7.9	2,077	
41-3011	Advertising sales agents	157	178	.1	.1	21	13.4	52	
41-3021	Insurance sales agents	381	413	.3	.3	32	8.4	123	
41-3031	Securities, commodities, and financial services sales agents	300	339	.2	.2	39	13.0	73	
41-3041	Travel agents	118	102	.1	.1	-16	-13.8	27	
41-4000	Sales representatives, wholesale and manufacturing	1,857	2,213	1.3	1.3	356	19.2	844	
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	398	475	.3	.3	77	19.3	182	
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	1,459	1,738	1.0	1.1	279	19.1	662	
41-9000	Other sales and related workers	1,827	1,736	1.3	1.2	167	9.2	568	
41-9010	Models, demonstrators, and product promoters	179	210	.1	.1	30	16.9	70	
41-9011	Demonstrators and product promoters	175	204	.1	.1	30	17.0	68	
41-9012	Models	5	5	.0	.0	1	14.5	2	
41-9020	Real estate brokers and sales agents	407	427	.3	.3	20	4.9	101	
41-9021	Real estate brokers	99	101	.1	.1	2	2.4	22	
41-9022	Real estate sales agents	308	325	.2	.2	18	5.7	79	
41-9031 41-9041	Sales engineers Telemarketers	82 428	98 406	.1 .3	.1 .2	16 -21	19.9 -4.9	41 70	
41-9041	Door-to-door sales workers, news and street vendors, and related workers	155	137	.s .1	.1	-18	-4.9 -11.8	37	
41-9098	All other sales and related workers5	577	717	.4	.4	140	24.3	250	
43-0000	Office and administrative support occupations	23,851	25,464	16.6	15.4	1,613	6.8	7,499	
43-1000	Supervisors, office and administrative support workers	1,459	1,555	1.0	.9	96	6.6	409	
43-1011	First-line supervisors/managers of office and administrative support workers	1,459	1,555	1.0	.9	96	6.6	409	
43-2000	Communications equipment operators	304	272	.2	.2	-32	-10.5	78	
43-2011	Switchboard operators, including answering service	236	236	.2	.1	1	.3	61	
43-2021 43-2099	Telephone operators	50 19	22 14	.0 .0	.0	-28 -5	-56.3 -24.6	13	
43-3000	Financial clerks	3,726	3,987	2.6	2.4	261	7.0	1,143	
43-3011	Bill and account collectors	413	514	.3	.3	101	24.5	179	
43-3021	Billing and posting clerks and machine operators	507	547	.4	.3	40	7.9	126	
43-3031	Bookkeeping, accounting, and auditing clerks	1,983	2,042	1.4	1.2	59	3.0	431	
43-3041	Gaming cage workers	18	21	.0	.0	3	14.5	12	
43-3051	Payroll and timekeeping clerks	198	211	.1	.1	13	6.5	65	
43-3061	Procurement clerks	77 530	72 590	.1	.0	-5 50	-6.7	20	
43-3071 43-4000	Tellers Information and record clerks ⁴	5,394	580 6,310	.4 3.7	.4 3.8	916	9.4 17.0	311 2,134	
43-4011	Brokerage clerks	78	67	.1	.0	-11	-14.7	2,134	
43-4021	Correspondence clerks	33	33	.0	.0	0	-1.4	10	
43-4031	Court, municipal, and license clerks	106	119	.1	.1	13	12.3	36	
43-4041	Credit authorizers, checkers, and clerks	80	74	.1	.0	-5	-6.7	15	
43-4051	Customer service representatives	1,894	2,354	1.3	1.4	460	24.3	741	
43-4061	Eligibility interviewers, government programs	94	83	.1	.1	-11	-11.6	25	
43-4071 43-4081	File clerks	265 178	264 220	.2 .1	.2	-1 42	3 23.9	78 122	
43-4081 43-4111	Hotel, motel, and resort desk clerks	178	220 247	.1	.1	54	23.9	104	
43-4111 43-4121	Library assistants, clerical	120	146	.1	.1	26	21.5	75	
43-4131	Loan interviewers and clerks	170	146	.1	.1	-24	-14.3	23	
43-4141	New accounts clerks	99	110	.1	.1	11	11.2	36	
43-4151	Order clerks	330	311	.2	.2	-19	-5.7	74	
43-4161	Human resources assistants, except payroll and timekeeping	174	207	.1	.1	33	19.3	71	
43-4171	Receptionists and information clerks	1,100	1,425	.8	.9	325	29.5	595	

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	inge	Total job
	2000 standard occupation classification code and title	Num	nber		cent bution			openings due to growth and net
		2002	2012	2002	2012	Number	Percent	replace- ments, 2002-121
43-4181	Reservation and transportation ticket agents and travel clerks	177	199	0.1	0.1	22	12.2	68
43-4999	All other financial, information, and record clerks2	304	306	.2	.2	2	.5	49
43-5000	Material recording, scheduling, dispatching, and distributing occupations	4,005	4,025	2.8	2.4	20	.5	1,306
43-5011	Cargo and freight agents	59	68	.0	.0	9	15.5	22
43-5021	Couriers and Messengers	132	138	.1	.1	5	4.0	36
43-5030 43-5031	Dispatchers	262 92	298 104	.2	.2	36	13.8	92 32
43-5031	Police, fire, and ambulance dispatchers	170	194	.1 .1	.1 .1	24	12.7 14.4	61
43-5041	Meter readers, utilities	54	46	.0	.0	-8	-14.1	17
43-5050	Postal service workers	664	636	.5	.4	-28	-4.3	192
43-5051	Postal service clerks	77	77	.1	.0	0	5	20
43-5052	Postal service mail carriers	334	333	.2	.2	-2	5	105
43-5053	Postal service mail sorters, processors, and processing machine operators	253	226	.2	.1	-26	-10.5	67
43-5061	Production, planning, and expediting clerks	288	328	.2	.2	40	14.1	110
43-5071	Shipping, receiving, and traffic clerks	803	827	.6	.5	24	3.0	189
43-5081 43-5111	Stock clerks and order fillers	1,628 81	1,560 93	1.1 .1	.9 .1	-68 12	-4.2 14.6	602 32
43-5111	All other material recording, scheduling, dispatching, and distributing workers ²	34	32	.0	.0	-2	-6.9	13
43-6000	Secretaries and administrative assistants	4,104	4,288	2.8	2.6	184	4.5	1,026
43-6011	Executive secretaries and administrative assistants	1,526	1,658	1.1	1.0	132	8.7	424
43-6012	Legal secretaries	264	313	.2	.2	50	18.8	100
43-6013	Medical secretaries	339	398	.2	.2	58	17.2	123
43-6014	Secretaries, except legal, medical, and executive	1,975	1,918	1.4	1.2	-57	-2.9	378
43-9000	Other office and administrative support workers	4,858	5,027	3.4	3.0	169	3.5	1,404
43-9011 43-9020	Computer operators	182	151 519	.1 .4	.1	-30 -114	-16.7 -18.1	39
43-9020	Data entry and information processing workers4	633 392	371	.3	.3	-114	-16.1 -5.4	146 93
43-9021	Word processors and typists	241	148	.2	.1	-93	-38.6	53
43-9031	Desktop publishers	35	45	.0	.0	10	29.2	18
43-9041	Insurance claims and policy processing clerks	266	276	.2	.2	10	3.6	53
43-9051	Mail clerks and mail machine operators, except postal service	170	165	.1	.1	-5	-2.9	51
43-9061	Office clerks, general	2,991	3,301	2.1	2.0	310	10.4	972
43-9071	Office machine operators, except computer	96	91	.1	.1	-4	-4.6	24
43-9081 43-9111	Proofreaders and copy markers	27 23	26 22	.0 .0	.0	-1 -2	-4.8 -7.2	6 4
43-9999	All other secretaries, administrative assistants, and other office support	23		.0	.0	-2	-1.2	
.0 0000	workers ²	435	431	.3	.3	-4	9	92
45-0000	Farming, fishing, and forestry occupations	1,072	1,107	.7	.7	35	3.3	335
45-1000	Supervisors, farming, fishing, and forestry workers	52	58	.0	.0	6	11.4	18
45-2000	Agricultural workers	804	840	.6	.5	36	4.5	261
45-2011 45-2021	Agricultural inspectors	16 9	17 10	.0 .0	.0	1 1	6.7 6.1	5 2
45-2021	Graders and sorters, agricultural products	49	52	.0	.0	3	6.7	16
45-2090	Miscellaneous agricultural workers4	731	762	.5	.5	31	4.3	238
45-2091	Agricultural equipment operators	61	65	.0	.0	4	7.3	22
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	617	641	.4	.4	24	4.0	199
45-2093	Farmworkers, farm and ranch animals	53	56	.0	.0	2	4.4	17
45-3000	Fishing and hunting workers	38	28	.0	.0	-10	-25.5	11
45-3011 45-3021	Fishers and related fishing workers	36 1	27 2	.0 .0	.0	-10 0	-26.8 6.5	10
45-4000	Forest, conservation, and logging workers	81	80	.1	.0	-2	-1.9	16
45-4011	Forest and conservation workers	14	15	.0	.0	1	4.5	4
45-4020	Logging workers4	67	65	.0	.0	-2	-3.2	12
45-4021	Fallers	14	14	.0	.0	0	-3.4	3
45-4022	Logging equipment operators	43	41	.0	.0	-2	-3.7	8
45-4023 45-9099	Log graders and scalers	10 96	10 101	.0 .1	.0 .1	0 4	-1.2 4.5	2 28
47-0000	Construction and extraction occupations	7,292	8,388	5.1	5.1	1,096	15.0	2,548
47-1000	Supervisors, construction and extraction workers	633	722	.4	.4	89	14.1	197
47-1011	First-line supervisors/managers of construction trades and extraction workers	633	722	.4	.4	89	14.1	197
47-2000	Construction trades and related workers	5,596	6,452	3.9	3.9	857	15.3	1,887
	Boilermakers	25	25	.0	.0	0	1.7	9

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	Total job	
	2000 standard occupation classification code and title	Nun	nber		cent bution			openings due to growth and net
		2002	2012	2002	2012	Number	Percent	replace- ments, 2002-121
47-2020	Brickmasons, blockmasons, and stonemasons	165	188	0.1	0.1	23	14.2	48
47-2021	Brickmasons and blockmasons		169	.1	.1	21	14.2	43
47-2022	Stonemasons	. 17	19	.0	.0	2	14.1	5
47-2031	Carpenters		1,331	.8	.8	122	10.1	319
47-2040	Carpet, floor, and tile installers and finishers		191	.1	.1	27	16.8	53
47-2041 47-2042	Carpet installersFloor layers, except carpet, wood, and hard tiles		96	.1 .0	.1	14	16.8	27
47-2042	Floor sanders and finishers		35 18	.0	.0	4	13.4 4.2	3
47-2044	Tile and marble setters		42	.0	.0	9	26.5	14
47-2050	Cement masons, concrete finishers, and terrazzo workers		236	.1	.1	48	25.7	86
47-2051	Cement masons and concrete finishers	. 182	229	.1	.1	47	26.1	84
47-2053	Terrazzo workers and finishers	. 6	7	.0	.0	1	15.2	2
47-2061	Construction laborers		1,070	.7	.6	133	14.2	258
47-2070	Construction equipment operators		460	.3	.3	45	10.7	144
47-2071	Paving, surfacing, and tamping equipment operators		65	.0	.0	7	12.6	16
47-2072 47-2073	Pile-driver operators Operating engineers and other construction equipment operators		6 389	.0 .2	.0 .2	0 37	8.2 10.4	1 127
47-2073	Drywall installers, ceiling tile installers, and tapers		214	.1	.1	37	21.3	76
47-2081	Drywall and ceiling tile installers		164	.1	.1	29	21.4	58
47-2082	Tapers		49	.0	.0	8	20.8	17
47-2111	Electricians		814	.5	.5	154	23.4	285
47-2121	Glaziers		57	.0	.0	8	17.2	19
47-2130	Insulation workers		62	.0	.0	8	15.8	25
47-2140	Painters and paperhangers		521	.3	.3	53	11.4	124
47-2141 47-2142	Painters, construction and maintenance		500 21	.3 .0	.3 .0	52 1	11.6 5.9	120 4
47-2142	Paperhangers Pipelayers, plumbers, pipefitters, and steamfitters		649	.4	.4	99	18.0	225
47-2150	Pipelayers		65	.0	.0	7	11.8	20
47-2152	Plumbers, pipefitters, and steamfitters		584	.3	.4	92	18.7	205
47-2161	Plasterers and stucco masons		67	.0	.0	8	13.5	19
47-2171	Reinforcing iron and rebar workers		33	.0	.0	5	16.7	10
47-2181	Roofers		197	.1	.1	31	18.6	70
47-2211	Sheet metal workers		246	.1	.1	41	19.8	90
47-2221 47-3000	Structural iron and steel workers		90 490	.1 .3	.1	12 59	15.9 13.7	28 238
47-3000	Helpers, construction trades		490	.3	.3	59	13.7	238
47-3011	Helpers—Brickmasons, blockmasons, stonemasons, and tile and marble			.0				
	setters	. 59	61	.0	.0	1	2.2	26
47-3012	Helpers—Carpenters		111	.1	.1	14	14.0	54
47-3013	Helpers—Electricians		117	.1	.1	18	17.9	59
47-3014	Helpers—Painters, paperhangers, plasterers, and stucco masons		36	.0	.0	5	15.9	18
47-3015 47-3016	Helpers—Pipelayers, plumbers, pipefitters, and steamfitters Helpers—Roofers		88 25	.1 .0	.1	9 4	10.9 19.3	42 13
47-3010	All other helpers, construction trades		53	.0	.0	9	19.3	27
47-4000	Other construction and related workers ⁴		408	.2	.2	54	15.2	123
47-4011	Construction and building inspectors		95	.1	.1	12	13.8	30
47-4021	Elevator installers and repairers		25	.0	.0	4	17.1	9
47-4031	Fence erectors		31	.0	.0	4	13.4	8
47-4041	Hazardous materials removal workers		54	.0	.0	16	43.1	26
47-4051	Highway maintenance workers		170	.1	.1	16	10.4	38
47-4061 47-4071	Rail-track laying and maintenance equipment operators Septic tank servicers and sewer pipe cleaners		9 22	.0 .0	.0	-1	-11.5 21.2	2 9
47-4090	Miscellaneous construction and related workers ⁴		3	.0	.0	0	16.5	1 1
47-4091	Segmental pavers		3	.0	.0	0	16.5	1
47-4999	All other construction trades and related workers2		146	.1	.1	35	32.0	53
47-5000	Extraction workers		169	.1	.1	2	1.2	51
47-5010	Derrick, rotary drill, and service unit operators, oil, gas, and mining		41	.0	.0	0	.5	12
47-5011	Derrick operators, oil and gas		15	.0	.0	0	.8	4
47-5012 47-5013	Rotary drill operators, oil and gas		14	.0	.0	0 0	1.5	4 4
47-5013 47-5021	Service unit operators, oil, gas, and mining Earth drillers, except oil and gas	. 23	13 25	.0 .0	.0	2	8 7.7	7
47-5021	Explosives workers, ordnance handling experts, and blasters		5	.0	.0		2.0	2
47-5040	Mining machine operators		16	.0	.0	-2	-13.3	5
47-5041	Continuous mining machine operators		7	.0	.0	-2	-18.5	2
47-5042	Mine cutting and channeling machine operators	. 5	5	.0	.0	0	-7.1	1
47-5049	All other mining machine operators	. 4	4	.0	.0	0	-10.8	1

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment		Cha	nge	Total job
	2000 standard occupation classification code and title	Num	nber	Per distril				openings due to growth and net
		2002	2012	2002	2012	Number	Percent	replace- ments, 2002-121
47-5051	Rock splitters, quarry	3	3	0.0	0.0	0	14.3	1
47-5061	Roof bolters, mining	4	3	.0	.0	-1	-27.7	l i
47-5071	Roustabouts, oil and gas	32	34	.0	.0	2	6.4	11
47-5081	Helpers—Extraction workers	29	30	.0	.0	1	3.9	9
47-5099	Extraction workers, all other	12	12	.0	.0	0	8	3
49-0000	Installation, maintenance, and repair occupations	5,696	6,472	4.0	3.9	776	13.6	2,087
49-1000	Supervisors of installation, maintenance, and repair workers	444	512	.3	.3	68	15.4	180
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	444	512	.3	.3	68	15.4	180
49-2000	Electrical and electronic equipment mechanics, installers, and repairers	689	746	.5	.5	57	8.3	193
49-2011	Computer, automated teller, and office machine repairers	156	180	.1	.1	24	15.1	43
49-2020	Radio and telecommunications equipment installers and repairers	226	222	.2	.1	-4	-1.6	47
49-2021	Radio mechanics	7	5	.0	.0	-2	-29.3	2
49-2022	Telecommunications equipment installers and repairers, except line	219	217	.2	1	-1	6	45
49-2090	installers	219	217	.2	.1	-1	0	45
	repairers	284	317	.2	.2	33	11.5	95
49-2091	Avionics technicians	23	24	.0	.0	1	3.4	6
49-2092	Electric motor, power tool, and related repairers	31	33	.0	.0	2	5.3	9
49-2093	Electrical and electronics installers and repairers, transportation equipment	18	19	.0	.0	1	7.1	6
49-2094	Electrical and electronics repairers, commercial and industrial equipment	85	94	.1	.1	9	10.3	27
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	21	21	.0	.0	0	6	5
49-2096	Electronic equipment installers and repairers, motor vehicles	18	21	.0	.0	3	14.8	7
49-2097	Electronic home entertainment equipment installers and repairers	43	46	.0	.0	4	8.6	12
49-2098	Security and fire alarm systems installers	46	60	.0	.0	14	30.2	23
49-2099	All other electrical and electronic equipment mechanics, installers, and	00	00				40.0	
40.0000	repairers ²	22	26	.0	.0	4	19.6	9
49-3000	Vehicle and mobile equipment mechanics, installers, and repairers	1,817	2,043	1.3	1.2	226	12.4	695
49-3011	Aircraft mechanics and service technicians	131	145	.1	.1	14	11.0	45
49-3020	Automotive technicians and repairers	1,038	1,168	.7	.7	130	12.5	392
49-3021	Automotive body and related repairers	198	225	.1	.1	26	13.2	67
49-3022	Automotive glass installers and repairers	22	24	.0	.0	2	10.7	6
49-3023	Automotive service technicians and mechanics	818	919	.6	.6	101	12.4	319
49-3031	Bus and truck mechanics and diesel engine specialists	267	305	.2	.2	38	14.2	107
49-3040	Heavy vehicle and mobile equipment service technicians and mechanics	176	191	.1	.1	15	8.8	54
49-3041	Farm equipment mechanics	35	38	.0	.0	3	7.7	10
49-3042	Mobile heavy equipment mechanics, except engines	126	138	.1	.1	12	9.6	39
49-3043	Rail car repairers	15	15	.0	.0	1	4.5	4
49-3050	Small engine mechanics	67	79	.0	.0	12	18.7	29
49-3051	Motorboat mechanics	22	26	.0	.0	4	18.3	9
49-3052	Motorcycle mechanics	15	18	.0	.0	3	18.7	7
49-3053	Outdoor power equipment and other small engine mechanics	30	36	.0	.0	6	18.9	13
49-3090	Miscellaneous vehicle and mobile equipment mechanics, installers, and	400	440				40.4	
40.2004	repairers	102	113	.1	.1	11	10.4	54
49-3091	Bicycle repairers	7	8	.0	.0		18.8	4
49-3092	Recreational vehicle service technicians	13	15	.0	.0	3	21.8	8
49-3093	Tire repairers and changers	83	89	.1	.1	7	8.0	42
49-3099	All other vehicle and mobile equipment mechanics, installers, and repairers ²	36	41	.0	.0	6	15.4	15
49-9000	Other installation, maintenance, and repair occupations	2,746	3,171	1.9	1.9	424	15.5	1,019
49-9010	Control and valve installers and repairers	49	55	.0	.0	7	14.1	19
49-9011	Mechanical door repairers	11	13	.0	.0	2	21.8	5
49-9012	Control and valve installers and repairers, except mechanical door	38	42	.0	.0	5	12.0	14
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	249	328	.2	.2	79	31.8	112
49-9031	Home appliance repairers	42	44	.0	.0	2	5.5	12
49-9040	Industrial machinery installation, repair, and maintenance workers	1,628	1,855	1.1	1.1	227	13.9	548
49-9041	Industrial machinery mechanics	197	208	.1	.1	11	5.5	51
49-9042	Maintenance and repair workers, general	1,266	1,472	.9	.9	207	16.3	450
49-9043	Maintenance workers, machinery	92	97	.1	.1	5	5.9	26
49-9044	Millwrights	69	73	.0	.0	4	5.3	21
49-9045	Refractory materials repairers, except brickmasons	4	201	.0	.0	0	5.6	1
49-9050	Line installers and repairers	268	301	.2	.2	33	12.3	111
49-9051	Electrical power-line installers and repairers	101	103	.1	.1	2	1.6	34
49-9052	Telecommunications line installers and repairers	167	199	.1	.1	31	18.8	77
49-9060	Precision instrument and equipment repairers	64	69	.0	.0	6	8.6	24
49-9061	Camera and photographic equipment repairers	7	6	.0	.0	0	-7.1	2

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment	Cha	Total job		
	2000 standard occupation classification code and title		Number		Percent distribution			openings due to growth
		2002	2012	2002	2012	Number	Percent	and net replace- ments, 2002-121
49-9062	Medical equipment repairers	29	33	0.0	0.0	4	14.8	12
49-9063	Musical instrument repairers and tuners	6	7	.0	.0	Ö	6.3	2
49-9064	Watch repairers	5	5	.0	.0	0	3.5	2
49-9069	All other precision instrument and equipment repairers	17	18	.0	.0	1	7.0	6
49-9090	Miscellaneous installation, maintenance, and repair workers	447	518	.3	.3	71	15.8	193
49-9091 49-9092	Coin, vending, and amusement machine servicers and repairers	43 4	49	.0 .0	.0	6	15.2	17
49-9092 49-9093	Commercial divers	2	5 2	.0	.0	0	10.6 -2.2	1 1
49-9094	Locksmiths and safe repairers	23	28	.0	.0	5	21.0	12
49-9095	Manufactured building and mobile home installers	18	22	.0	.0	4	23.3	9
49-9096	Riggers	14	16	.0	.0	2	14.3	5
49-9097	Signal and track switch repairers	8	8	.0	.0	0	-3.1	3
49-9098	Helpers—Installation, maintenance, and repair workers	150	181	.1	.1	30	20.3	81
49-9099	Installation, maintenance, and repair workers, all other	185	207	.1	.1	23	12.2	65
51-0000	Production occupations	11,258	11,612	7.8	7.0	354	3.1	3,361
51-1000	Supervisors, production workers	733	803	.5	.5	70	9.5	224
51-1011	First-line supervisors/managers of production and operating workers	733	803	.5	.5	70	9.5	224
51-2000	Assemblers and fabricators	2,122	2,044	1.5	1.2	-77	-3.6	547
51-2011	Aircraft structure, surfaces, rigging, and systems assemblers	27	24	.0	.0	-2	-9.4	7
51-2020	Electrical, electronics, and electromechanical assemblers	377	316	.3	.2	-61	-16.3	89
51-2021 51-2022	Coil winders, tapers, and finishers Electrical and electronic equipment assemblers	36 281	31 230	.0 .2	.0 .1	-5 -51	-13.9 -18.3	9 66
51-2022	Electromechanical equipment assemblers	60	55	.0	.0	-5	-8.3	14
51-2031	Engine and other machine assemblers	50	49	.0	.0	-1	-1.9	14
51-2041	Structural metal fabricators and fitters	89	94	.1	.1	6	6.2	26
51-2090	Miscellaneous assemblers and fabricators	1,579	1,561	1.1	.9	-18	-1.1	410
51-2091	Fiberglass laminators and fabricators	37	39	.0	.0	2	5.6	12
51-2092	Team assemblers	1,174	1,155	.8	.7	-19	-1.6	304
51-2093	Timing device assemblers, adjusters, and calibrators	7	6	.0	.0	0	-3.0	2
51-2099	All other assemblers and fabricators	361	360	.3	.2	-1 79	2	93
51-3000 51-3011	Food processing occupations Bakers	757 173	836 192	.5 .1	.5 .1	19	10.5 11.2	254 59
51-3011	Butchers and other meat, poultry, and fish processing workers	414	459	.3	.3	45	10.9	139
51-3021	Butchers and meat cutters	132	129	.1	.1	-3	-2.5	29
51-3022	Meat, poultry, and fish cutters and trimmers	154	179	.1	.1	25	16.4	59
51-3023	Slaughterers and meat packers	128	151	.1	.1	23	18.1	51
51-3090	Miscellaneous food processing workers	127	137	.1	.1	9	7.2	41
51-3091	Food and tobacco roasting, baking, and drying machine operators and			_				
51-3092	tenders	19 74	20 79	.0 .1	.0	1 5	4.2 7.2	6 23
51-3092	Food cooking machine operators and tenders	34	37	.0	.0 .0	3	8.8	11
51-3099	All other food processing workers2	42	48	.0	.0	6	13.4	15
51-4000	Metal workers and plastic workers ⁴	2,367	2,544	1.6	1.5	177	7.5	754
51-4010	Computer control programmers and operators	151	166	.1	.1	15	9.8	40
51-4011	Computer-controlled machine tool operators, metal and plastic	132	144	.1	.1	12	9.3	34
51-4012	Numerical tool and process control programmers	19	22	.0	.0	3	13.0	6
51-4020	Forming machine setters, operators, and tenders, metal and plastic	188	198	.1	.1	11	5.6	60
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and	00	405		,	_	7.4	40
51-4022	plastic Forging machine setters, operators, and tenders, metal and plastic	98 45	105 48	.1 .0	.0	7 3	7.1 5.9	40
51-4022	Rolling machine setters, operators, and tenders, metal and plastic	43	45	.0	.0	1	2.0	11
51-4030	Machine tool cutting setters, operators, and tenders, metal and plastic	546	569	.4	.3	24	4.3	144
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal							
	and plastic	283	302	.2	.2	19	6.8	85
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	53	54	.0	.0	1	2.1	17
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	104	106	.1	.1	3	2.4	22
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	75	75	.1	.0	1	.8	15
51-4035	Milling and planing machine setters, operators, and tenders, metal and							
51-4041	plastic	31 387	31 419	.0 .3	.0 .3	32	.8 8.2	6 122
51-4050	Metal furnace and kiln operators and tenders	31	30	.3 .0	.0	0	-1.3	7
		0.	ı 👸	.0		1		

Table 2. Continued—Employment by occupation, 2002 and projected 2012

51-4061 51-4062 51-4070 51-4071 51-4072 51-4081 51-4111 51-4120 51-4121 51-4122 51-4190 51-4191 51-4193 51-4193	Metal-refining furnace operators and tenders Pourers and casters, metal Model makers and patternmakers, metal and plastic Model makers, metal and plastic Model makers, metal and plastic Patternmakers, metal and plastic Molders and molding machine setters, operators, and tenders, metal and plastic Foundry mold and coremakers Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic Multiple machine tool setters, operators, and tenders, metal and plastic Tool and die makers Welding, soldering, and brazing workers Welding, soldering, and brazing machine setters, operators, and tenders Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Lay-out workers and plastic workers Miscellaneous metalworkers Misc	2002 18 13 15 9 6 174 23 151 99 109 452 391 61 215 29 13 44 26 104	17 13 16 10 7 189 24 165 107 110 518 457 62 221 29 15		0.0 .0 .0 .0 .0 .0 .1 .1 .1 .1 .1 .3 .3 .0 .1	Number 0 0 0 1 1 1 0 0 14 1 1 1 4 8 0 67 66 1 1 6 0 2 2	-0.8 -2.0 9.8 14.6 3.6 8.2 3.6 8.9 8.3 4.4 14.8 17.0 9 2.6 15.6	openings due to growth and net replace- ments, 2002-121 4 3 6 4 2 58 7 51 35 25 194 177 18 62 9
51-4052 51-4060 51-4061 51-4062 51-4070 51-4071 51-4072 51-4072 51-4111 51-4111 51-4120 51-4121 51-4122 51-4190 51-4191 51-4193 51-4194	Pourers and casters, metal //odel makers and patternmakers, metal and plastic Model makers, metal and plastic //odel makers, metal and plastic //odel makers, metal and plastic //olders and molding machine setters, operators, and tenders, metal and plastic Foundry mold and coremakers //olding, coremaking, and casting machine setters, operators, and tenders, metal and plastic //olding, coremaking, and casting machine setters, operators, and tenders, metal and plastic //ol and die makers //olding, soldering, and brazing workers //olding, soldering, and brazing workers //olding, soldering, and brazing machine setters, operators, and tenders //olscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and plastic workers //olding, soldering, and brazing workers //olding, soldering, and brazing machine setters, operators, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding,	18 13 15 9 6 174 23 151 99 109 452 391 61 215 29 13 44 26 104	17 13 16 10 7 189 24 165 107 110 518 457 62 221 29 15	0.0 .0 .0 .0 .1 .1 .1 .1 .3 .3 .0 .1	0.0 .0 .0 .0 .0 .1 .1 .1 .1 .3 .3 .0 .1	0 0 1 1 1 0 14 1 1 8 0 67 66 1 66	-0.8 -2.0 9.8 14.6 3.6 8.2 3.6 8.9 8.3 .4 14.8 17.0 .9 2.6 6	replacements, 2002-121 4 3 6 4 2 58 7 51 35 25 194 177 18 62
51-4052 51-4060 51-4061 51-4062 51-4070 51-4071 51-4072 51-4072 51-4111 51-4111 51-4120 51-4121 51-4122 51-4190 51-4191 51-4193 51-4194	Pourers and casters, metal //odel makers and patternmakers, metal and plastic Model makers, metal and plastic //odel makers, metal and plastic //odel makers, metal and plastic //olders and molding machine setters, operators, and tenders, metal and plastic Foundry mold and coremakers //olding, coremaking, and casting machine setters, operators, and tenders, metal and plastic //olding, coremaking, and casting machine setters, operators, and tenders, metal and plastic //ol and die makers //olding, soldering, and brazing workers //olding, soldering, and brazing workers //olding, soldering, and brazing machine setters, operators, and tenders //olscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and plastic workers //olding, soldering, and brazing workers //olding, soldering, and brazing machine setters, operators, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding,	13 15 9 6 174 23 151 99 109 452 391 61 215 29 13	13 16 10 7 189 24 165 107 110 518 457 62 221 29 15	.0 .0 .0 .0 .1 .0 .1 .1 .3 .3 .0 .1	.0 .0 .0 .0 .1 .1 .1 .1 .3 .3 .0 .1	0 1 1 0 14 1 14 8 0 67 66 1 66	-2.0 9.8 14.6 3.6 8.2 3.6 8.9 8.3 .4 14.8 17.0 .9 2.6 .6	3 6 4 2 58 7 51 35 25 194 177 18 62
51-4052 51-4060 51-4061 51-4062 51-4070 51-4071 51-4072 51-4072 51-4111 51-4111 51-4120 51-4121 51-4122 51-4190 51-4191 51-4193 51-4194	Pourers and casters, metal //odel makers and patternmakers, metal and plastic Model makers, metal and plastic //odel makers, metal and plastic //odel makers, metal and plastic //olders and molding machine setters, operators, and tenders, metal and plastic Foundry mold and coremakers //olding, coremaking, and casting machine setters, operators, and tenders, metal and plastic //olding, coremaking, and casting machine setters, operators, and tenders, metal and plastic //ol and die makers //olding, soldering, and brazing workers //olding, soldering, and brazing workers //olding, soldering, and brazing machine setters, operators, and tenders //olscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and plastic workers //olding, soldering, and brazing workers //olding, soldering, and brazing machine setters, operators, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding, soldering, and sharpeners //olding, soldering, and tenders, metal and plastic //olding,	13 15 9 6 174 23 151 99 109 452 391 61 215 29 13	13 16 10 7 189 24 165 107 110 518 457 62 221 29 15	.0 .0 .0 .0 .1 .0 .1 .1 .3 .3 .0 .1	.0 .0 .0 .0 .1 .1 .1 .1 .3 .3 .0 .1	0 1 1 0 14 1 14 8 0 67 66 1 66	-2.0 9.8 14.6 3.6 8.2 3.6 8.9 8.3 .4 14.8 17.0 .9 2.6 .6	3 6 4 2 58 7 51 35 25 194 177 18 62
51-4060 51-4061 51-4062 51-4070 51-4070 51-4071 51-4072 51-4081 51-4111 51-4120 51-4121 51-4122 51-4190 51-4191 51-4193 51-4194	Model makers and patternmakers, metal and plastic	15 9 6 174 23 151 99 109 452 391 61 215 29 13 44 26 104	16 10 7 189 24 165 107 110 518 457 62 221 29 15	.0 .0 .0 .1 .0 .1 .1 .3 .3 .0 .1	.0 .0 .0 .1 .0 .1 .1 .1 .3 .3 .3 .0 .1	1 0 14 1 14 8 0 67 66 1 6	9.8 14.6 3.6 8.2 3.6 8.9 8.3 .4 14.8 17.0 .9 2.6 6	6 4 2 58 7 51 35 25 194 177 18 62
51-4062 51-4070 M 51-4071 51-4072 51-4081 M 51-4111 T 51-4120 V 51-4121 51-4122 51-4190 M 51-4191 51-4193 51-4194	Patternmakers, metal and plastic Allolders and molding machine setters, operators, and tenders, metal and plastic Foundry mold and coremakers Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic Allithie machine tool setters, operators, and tenders, metal and plastic Fool and die makers Velding, soldering, and brazing workers Welders, cutters, solderers, and brazers Welding, soldering, and brazing machine setters, operators, and tenders Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers Inting occupations	6 174 23 151 99 109 452 391 61 215 29 13 44 26 104	7 189 24 165 107 110 518 457 62 221 29 15	.0 .1 .0 .1 .1 .1 .3 .3 .0 .1	.0 .1 .0 .1 .1 .1 .3 .3 .0 .1	14 1 14 8 0 67 66 1 6	3.6 8.2 3.6 8.9 8.3 .4 14.8 17.0 9 2.6 6	58 7 51 35 25 194 177 18 62
51-4070 M 51-4071 51-4072 51-4081 M 51-4111 T 51-4120 M 51-4121 51-4122 51-4190 M 51-4191 51-4193 51-4194	Molders and molding machine setters, operators, and tenders, metal and plastic Foundry mold and coremakers Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic Multiple machine tool setters, operators, and tenders, metal and plastic ool and die makers Welding, soldering, and brazing workers Welding, soldering, and brazing machine setters, operators, and tenders Welding, soldering, and brazing machine setters, operators, and tenders Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers Inting occupations	174 23 151 99 109 452 391 61 215 29 13	189 24 165 107 110 518 457 62 221 29 15	.1 .0 .1 .1 .3 .3 .0 .1 .0	.1 .0 .1 .1 .3 .3 .0 .1 .0	14 1 14 8 0 67 66 1 6	8.2 3.6 8.9 8.3 .4 14.8 17.0 .9 2.6 6	58 7 51 35 25 194 177 18 62
51-4071 51-4072 51-4081 M 51-4111 T 51-4120 V 51-4121 51-4122 51-4190 M 51-4191 51-4192 51-4193 51-4194	plastic Foundry mold and coremakers Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic Multiple machine tool setters, operators, and tenders, metal and plastic Tool and die makers Welding, soldering, and brazing workers Welders, cutters, solderers, and brazers Welding, soldering, and brazing machine setters, operators, and tenders Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers tting occupations	23 151 99 109 452 391 61 215 29 13 44 26 104	24 165 107 110 518 457 62 221 29 15	.0 .1 .1 .3 .3 .0 .1	.0 .1 .1 .3 .3 .0 .1 .0	1 14 8 0 67 66 1 6	3.6 8.9 8.3 .4 14.8 17.0 .9 2.6 6	7 51 35 25 194 177 18 62
51-4072 51-4081 51-4111 51-4120 51-4121 51-4122 51-4190 51-4191 51-4193 51-4194	Foundry mold and coremakers Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic Multiple machine tool setters, operators, and tenders, metal and plastic ool and die makers Velding, soldering, and brazing workers Welders, cutters, solderers, and brazers Welding, soldering, and brazing machine setters, operators, and tenders Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers ting occupations	23 151 99 109 452 391 61 215 29 13 44 26 104	24 165 107 110 518 457 62 221 29 15	.0 .1 .1 .3 .3 .0 .1	.0 .1 .1 .3 .3 .0 .1 .0	1 14 8 0 67 66 1 6	3.6 8.9 8.3 .4 14.8 17.0 .9 2.6 6	7 51 35 25 194 177 18 62
51-4072 51-4081 51-4111 51-4120 51-4121 51-4122 51-4190 51-4191 51-4193 51-4194	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic Multiple machine tool setters, operators, and tenders, metal and plastic ool and die makers Velding, soldering, and brazing workers Welders, cutters, solderers, and brazers Welding, soldering, and brazing machine setters, operators, and tenders Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers Inting occupations	151 99 109 452 391 61 215 29 13 44 26 104	165 107 110 518 457 62 221 29 15	.1 .1 .3 .3 .0 .1	.1 .1 .3 .3 .0 .1 .0	14 8 0 67 66 1 6	8.9 8.3 .4 14.8 17.0 .9 2.6 6	51 35 25 194 177 18 62
51-4081 M 51-4111 T 51-4120 V 51-4121 51-4122 51-4190 M 51-4191 51-4192 51-4193	metal and plastic Aultiple machine tool setters, operators, and tenders, metal and plastic ool and die makers Velding, soldering, and brazing workers Welders, cutters, solderers, and brazers Welding, soldering, and brazing machine setters, operators, and tenders Aliscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers tting occupations	99 109 452 391 61 215 29 13 44 26 104	107 110 518 457 62 221 29 15	.1 .3 .3 .0 .1 .0	.1 .3 .3 .0 .1 .0	8 0 67 66 1 6	8.3 .4 14.8 17.0 .9 2.6 6	35 25 194 177 18 62
51-4111 T 51-4120 V 51-4121 5 51-4190 M 51-4191 5 51-4192 5 51-4193 5 51-4194	Multiple machine tool setters, operators, and tenders, metal and plastic	99 109 452 391 61 215 29 13 44 26 104	107 110 518 457 62 221 29 15	.1 .3 .3 .0 .1 .0	.1 .3 .3 .0 .1 .0	8 0 67 66 1 6	8.3 .4 14.8 17.0 .9 2.6 6	35 25 194 177 18 62
51-4111 T 51-4120 V 51-4121 5 51-4190 M 51-4191 5 51-4192 5 51-4193 5 51-4194	ool and die makers	109 452 391 61 215 29 13 44 26 104	110 518 457 62 221 29 15	.1 .3 .0 .1 .0	.1 .3 .3 .0 .1 .0	0 67 66 1 6	.4 14.8 17.0 .9 2.6 6	25 194 177 18 62
51-4120 V 51-4121 51-4122 51-4190 M 51-4191 51-4192 51-4193	Velding, soldering, and brazing workers Welders, cutters, solderers, and brazers Welding, soldering, and brazing machine setters, operators, and tenders Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers ting occupations	452 391 61 215 29 13 44 26 104	518 457 62 221 29 15	.3 .0 .1 .0	.3 .3 .0 .1 .0	67 66 1 6	14.8 17.0 .9 2.6 6	194 177 18 62
51-4121 51-4122 51-4190 M 51-4191 51-4192 51-4193	Welders, cutters, solderers, and brazers Welding, soldering, and brazing machine setters, operators, and tenders Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers hting occupations	391 61 215 29 13 44 26 104	457 62 221 29 15	.3 .0 .1 .0	.3 .0 .1 .0	1 6 0	.9 2.6 6	177 18 62
51-4190 M 51-4191 51-4192 51-4193 51-4194	Miscellaneous metalworkers and plastic workers Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers ting occupations	215 29 13 44 26 104	221 29 15	.1 .0 .0	.1 .0 .0	6 0	2.6 6	62
51-4191 51-4192 51-4193 51-4194	Heat treating equipment setters, operators, and tenders, metal and plastic Lay-out workers, metal and plastic Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers tting occupations	29 13 44 26 104	29 15 42	.0 .0	.0 .0	0	6	
51-4192 51-4193 51-4194	Lay-out workers, metal and plastic	13 44 26 104	15 42	.0	.0	1		9
51-4193 51-4194	Plating and coating machine setters, operators, and tenders, metal and plastic Tool grinders, filers, and sharpeners All other metal workers and plastic workers	44 26 104	42			2	156	
51-4194	plastic	26 104		.0		1	10.0	4
	Tool grinders, filers, and sharpeners	26 104		.0			0.0	40
	All other metal workers and plastic workersting occupations	104	24 1	^	.0	-1	-2.6	10
51 /100	iting occupations		111	.0 .1	.0	-2 7	-7.7 6.6	8 31
51-4199 51-5000 Prir		465	466	.1	.3	1 1	.3	128
		98	93	.5 .1	.1	-5	-4.7	26
51-5011	Bindery workers	91	86	.1	.1	-5	-5.2	24
51-5012	Bookbinders	7	7	.0	.0	0	1.3	2
51-5020 F	Printers	346	350	.2	.2	4	1.2	95
51-5021	Job printers	56	61	.0	.0	5	9.2	18
51-5022	Prepress technicians and workers	91	81	.1	.0	-10	-11.2	21
51-5023	Printing machine operators	199	208	.1	.1	9	4.6	55
	sll other printing workers2	21	23	.0	.0	2	9.3	7
	tile, apparel, and furnishings occupationsaundry and dry-cleaning workers	1,085 231	932 260	.8 .2	.6 .2	-152 29	-14.1 12.3	240 91
	Pressers, textile, garment, and related materials	91	91	.2 .1	.1	0	2	14
	Sewing machine operators	315	216	.2	.1	-99	-31.5	39
	Shoe and leather workers	23	18	.0	.0	-4	-19.0	6
51-6041	Shoe and leather workers and repairers	16	14	.0	.0	-3	-16.1	5
51-6042	Shoe machine operators and tenders	7	5	.0	.0	-2	-26.1	1
51-6050	ailors, dressmakers, and sewers	90	77	.1	.0	-13	-14.0	16
51-6051	Sewers, hand	36	29	.0	.0	-8	-21.2	6
51-6052	Tailors, dressmakers, and custom sewers	53	48	.0	.0	-5	-9.1	9
	extile machine setters, operators, and tenders	179	124	.1	.1	-56	-31.0	33
51-6061 51-6062	Textile bleaching and dyeing machine operators and tenders Textile cutting machine setters, operators, and tenders	27 34	19 26	.0 .0	.0	-8 -8	-28.7 -22.6	7 8
51-6063	Textile knitting and weaving machine setters, operators, and tenders	53	33	.0	.0	-20	-38.6	6
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	66	46	.0	.0	-20	-30.3	12
51-6090 N	discellaneous textile, apparel, and furnishings workers	156	147	.0	.0	-20	-5.9	41
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic	.50	''	• • •	''		5.5	
0.000.	and glass fibers	27	24	.0	.0	-4	-13.1	5
51-6092	Fabric and apparel patternmakers	11	8	.0	.0	-3	-24.6	5
51-6093	Upholsterers	56	51	.0	.0	-5	-8.7	14
51-6099	All other textile, apparel, and furnishings workers	61	63	.0	.0	2	3.3	16
	odworkers	374	393	.3	.2	19	5.1	115
	Cabinetmakers and bench carpenters	147	160	.1	.1	14	9.4	50
	furniture finishers	39	41	.0	.0	1	3.3	9
51-7030 M 51-7031	Model makers and patternmakers, wood	9 4	10 5	.0 .0	.0 .0	1 0	11.1 10.3	3 2
51-7031	Patternmakers, wood	4	5 5	.0	.0		11.8	2
	Voodworking machine setters, operators, and tenders	151	153	.0	.0	3	1.8	44
51-7040 v	Sawing machine setters, operators, and tenders, wood	56	56	.0	.0	0	2	16
51-7042	Woodworking machine setters, operators, and tenders, except sawing	95	98	.1	.1	3	3.0	28
	Il other woodworkers	29	29	.0	.0	0	1.7	9
51-8000 Pla	nt and system operators	346	353	.2	.2	7	2.0	120
	Power plant operators, distributors, and dispatchers	51	51	.0	.0	0	7	14
51-8011	Nuclear power reactor operators	3	3	.0	.0	0	-3.2	1

Table 2. Continued—Employment by occupation, 2002 and projected 2012

			Emplo	yment	Cha	Total job		
	2000 standard occupation classification code and title	Number		Percent distribution				openings due to growth
		2002	2012	2002	2012	Number	Percent	and net replace- ments, 2002-121
51-8012	Power distributors and dispatchers	12	12	0.0	0.0	0	-3.0	3
51-8013	Power plant operators	35	36	.0	.0	0	.3	10
51-8021	Stationary engineers and boiler operators	55	56	.0	.0	0	.3	10
51-8031	Water and liquid waste treatment plant and system operators	99	115	.1	.1	16	16.0	50
51-8090	Miscellaneous plant and system operators	141	132	.1	.1	-9	-6.2	46
51-8091	Chemical plant and system operators	58	51	.0	.0	-7	-12.3	18
51-8092	Gas plant operators	12	13	.0	.0	1	6.7	5
51-8093	Petroleum pump system operators, refinery operators, and gaugers	39	35	.0	.0	-4	-11.0	12
51-8099	All other plant and system operators	32	33	.0	.0	2	5.6	12
51-9000	Other production occupations	3,010	3,240	2.1	2.0	230	7.7	977
51-9010	Chemical processing machine setters, operators, and tenders	94	92	.1	.1	-2	-2.0	30
51-9011	Chemical equipment operators and tenders	58	56	.0	.0	-2	-3.8	19
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters,							
	operators, and tenders	36	36	.0	.0	0	.8	12
51-9020	Crushing, grinding, polishing, mixing, and blending workers	196	192	.1	.1	-4	-2.1	55
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	45	44	.0	.0	-1	-2.8	12
51-9022	Grinding and polishing workers, hand	45	49	.0	.0	4	9.0	16
51-9023	Mixing and blending machine setters, operators, and tenders	106	99	.1	.1	-7	-6.5	28
51-9030	Cutting workers	109	116	.1	.1	7	6.9	30
51-9031	Cutters and trimmers, hand	31	33	.0	.0	2	7.6	9
51-9032 51-9041	Cutting and slicing machine setters, operators, and tenders Extruding, forming, pressing, and compacting machine setters, operators, and	77	83	.1	.0	5	6.6	21
	tenders	73	73	.1	.0	0	1	19
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	31	29	.0	.0	-2	-4.9	7
51-9061	Inspectors, testers, sorters, samplers, and weighers	515	539	.4	.3	24	4.7	141
51-9071	Jewelers and precious stone and metal workers	40	42	.0	.0	2	4.5	10
51-9080	Medical, dental, and ophthalmic laboratory workers	94	101	.1	.1	7	7.4	27
51-9081	Dental laboratory technicians	47	49	.0	.0	2	3.6	12
51-9082	Medical appliance technicians	14	16	.0	.0	2	16.1	5
51-9083	Ophthalmic laboratory technicians	33	36	.0	.0	3	9.2	10
51-9111	Packaging and filling machine operators and tenders	387	468	.3	.3	82	21.1	159
51-9120	Painting workers	187	211	.1	.1	24	13.0	73
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	103	112	.1	.1	10	9.4	36
51-9122	Painters, transportation equipment	50	59 40	.0 .0	.0	9 6	17.5	22
51-9123 51-9130	Painting, coating, and decorating workers	34 82	89	.0	.0	6	17.6 7.9	15 27
51-9130	Photographic process workers and processing machine operators Photographic process workers	28	30	.0	.0	2	7.9 5.4	9
51-9132	Photographic processing machine operators	54	59	.0	.0	5	9.2	18
51-9141	Semiconductor processors	46	42	.0	.0	-5	-10.6	10
51-9190	Miscellaneous production workers	1,155	1,245	.8	.8	90	7.8	388
51-9191	Cementing and gluing machine operators and tenders	27	28	.0	.0	0	1.1	8
51-9192	Cleaning, washing, and metal pickling equipment operators and tenders	18	19	.0	.0	1 1	6.9	7
51-9193	Cooling and freezing equipment operators and tenders	7	8	.0	.0	1	7.1	3
51-9194	Etchers and engravers	10	10	.0	.0	1	6.1	3
51-9195	Molders, shapers, and casters, except metal and plastic	46	49	.0	.0	3	6.4	14
51-9196	Paper goods machine setters, operators, and tenders	117	114	.1	.1	-3	-2.8	25
51-9197	Tire builders	14	15	.0	.0	1	6.6	4
51-9198	Helpers—Production workers	467	503	.3	.3	36	7.7	167
51-9199	All other production workers	449	500	.3	.3	51	11.3	158
53-0000	Transportation and material moving occupations	9,828	11,111	6.8	6.7	1,282	13.0	3,496
53-1000	Supervisors, transportation and material moving workers	364	411	.3	.2	47	12.9	132
53-1011	Aircraft cargo handling supervisors	9	10	.0	.0	1	15.6	3
53-1021	First-line supervisors/managers of helpers, laborers, and material movers,	4.47	400			04	440	
53-1031	handFirst-line supervisors/managers of transportation and material-moving machine	147	168	.1	.1	21	14.0	55
	and vehicle operators	207	232	.1	.1	25	12.1	74
53-2000	Air transportation occupations	144	168	.1	.1	24	17.0	62
53-2010	Aircraft pilots and flight engineers	100	118	.1	.1	18	17.8	45
53-2011	Airline pilots, copilots, and flight engineers	79	94	.1	.1	15	18.5	36
53-2012	Commercial pilots	21	24	.0	.0	3	14.9	9
53-2020	Air traffic controllers and airfield operations specialists	32	36	.0	.0	4	13.5	12
53-2021	Air traffic controllers	26	29	.0	.0	3	12.6	10
53-2022	Airfield operations specialists	6	7	.0	.0	1	17.2	3
53-2099	All other air transportation workers2	12	14	.0	.0	2	19.4	5

Table 2. Continued—Employment by occupation, 2002 and projected 2012

•			Emplo	yment	Cha	Total job		
	2000 standard occupation classification code and title		Number		Percent distribution			openings due to growth
	·	2002	2012	2002	2012	Number	Percent	and net replace- ments, 2002-121
53-3000 53-3011 53-3020 53-3021	Motor vehicle operators	4,136 17 654 202	4,896 22 761 233	2.9 .0 .5 .1	3.0 .0 .5	760 5 106 31	18.4 26.7 16.2 15.2	1,385 6 249 75
53-3022	Bus drivers, school	453	528	.3	.3	76	16.7	174
53-3030		3,221	3,813	2.2	2.3	592	18.4	1,045
53-3031		431	450	.3	.3	19	4.3	89
53-3032	Truck drivers, heavy and tractor-trailer Truck drivers, light or delivery services Taxi drivers and chauffeurs All other motor vehicle operators	1,767	2,104	1.2	1.3	337	19.0	625
53-3033		1,022	1,259	.7	.8	237	23.2	331
53-3041		132	161	.1	.1	29	21.7	41
53-3099		111	139	.1	.1	28	25.2	44
53-4000	Rail transportation occupations Locomotive engineers and firers Railroad brake, signal, and switch operators	101	96	.1	.1	-5	-5.3	28
53-4010		33	31	.1	.0	-2	-7.2	10
53-4021		15	12	.0	.0	-3	-22.8	2
53-4031	Railroad conductors and yardmasters	38	36	.0	.0	-2	-4.2	10
53-4039		15	17	.0	.0	2	13.2	7
53-5000		68	70	.0	.0	2	3.4	25
53-5011 53-5020 53-5021 53-5022	Sailors and marine oilers Ship and boat captains and operators Captains, mates, and pilots of water vessels Motorboat operators	27 29 25 4	28 30 26 4	.0 .0 .0	.0 .0 .0	1 1 1 0	4.0 2.4 2.4 2.7	11 9 8 1
53-5031	Ship engineers	8	9	.0	.0	0	4.5	4
53-5099		4	4	.0	.0	0	5.6	1
53-6000		294	326	.2	.2	32	11.0	135
53-6011 53-6021 53-6031 53-6041	Bridge and lock tenders Parking lot attendants Service station attendants Traffic technicians	4 107 107 6	3 128 111 6	.0 .1 .1	.0 .1 .1	-1 21 4 1	-17.4 19.2 3.3 9.3	1 52 52 2
53-6051	Transportation inspectors	29	32	.0	.0	2	7.7	9
53-6099		40	47	.0	.0	6	15.1	18
53-7000		4,722	5,144	3.3	3.1	422	8.9	1,729
53-7011	Conveyor operators and tenders Crane and tower operators Dredge, excavating, and loading machine operators Dredge operators	58	65	.0	.0	7	12.4	24
53-7021		50	55	.0	.0	5	10.8	16
53-7030		87	94	.1	.1	7	7.5	31
53-7031		3	3	.0	.0	0	.3	1
53-7032	Excavating and loading machine and dragline operators	80	87	.1	.1	7	8.9	29
53-7033		4	3	.0	.0	-1	-14.1	1
53-7041		9	10	.0	.0	1	13.0	4
53-7051	Industrial truck and tractor operators Laborers and material movers, hand Cleaners of vehicles and equipment Laborers and freight, stock, and material movers, hand	594	659	.4	.4	66	11.1	178
53-7060		3,659	3,967	2.5	2.4	308	8.4	1,376
53-7061		344	374	.2	.2	30	8.7	150
53-7062		2,231	2,378	1.5	1.4	147	6.6	876
53-7063	Machine feeders and offbearers Packers and packagers, hand Pumping station operators	164	162	.1	.1	-2	-1.4	45
53-7064		920	1,052	.6	.6	132	14.4	305
53-7070		32	30	.0	.0	-2	-6.0	7
53-7071 53-7072 53-7073 53-7081	Gas compressor and gas pumping station operators Pump operators, except wellhead pumpers Wellhead pumpers Refuse and recyclable material collectors	7 13 11 134	7 13 10 158	.0 .0 .0	.0 .0 .0	0 -1 -1 24	1.0 -5.0 -11.7 17.6	2 3 3 58
53-7081 53-7111 53-7121 53-7199	Shuttle car operators Tank car, truck, and ship loaders Material moving workers, all other	134 3 17 78	158 2 17 86	.1 .0 .0 .1	.1 .0 .0	-1 0 8	-31.3 -2.1 10.0	58 1 5 29

¹ Total job openings represent the sum of employment increases and net replacements. If employment change is negative, job openings due to growth are zero and total job openings equal net replacements.

2 This occupation was created by the OES survey. There is no SOC equivalent.

3 This minor occupation group contains a detailed occupation from another

NOTE: Detail may not equal total or 100 percent due to rounding.

minor occupation group.

4 Information about the detailed residual occupation for this broad occupation is

not included. 5 This occupation contains two or more detailed SOC occupations.