

**Pennsylvania
Occupational Employment
2022-2032 Long-Term Projections**

SOC Code	Occupational Title	Educ. Level	Employment Outlook			Annual Demand			
			Estimated 2022	Projected 2032	Percent Change	Due to Growth ^{1/}	Due to Exits ^{2/}	Due to Transfers ^{3/}	Total Demand ^{4/}
00-0000	Total, All Occupations	N/A	6,311,420	6,468,730	2.5%	15,731	313,774	388,733	718,238
11-0000	Management Occupations	N/A	406,080	426,420	5.0%	2,034	12,446	19,291	33,771
11-1000	Top Executives	N/A	141,340	145,860	3.2%	452	3,648	7,494	11,594
11-1021	General & Operations Managers	BD+	128,890	134,210	4.1%	532	3,276	7,066	10,874
11-2000	Advertising, Marketing, Promotions, Public Relations & Sales Managers	N/A	25,190	26,420	4.9%	123	615	1,307	2,045
11-2011	Advertising & Promotions Managers	BD+	580	590	1.7%	2	12	39	53
11-2021	Marketing Managers	BD+	10,550	11,160	5.8%	61	258	588	907
11-2022	Sales Managers	BD+	11,390	11,870	4.2%	48	283	559	890
11-2032	Public Relations Managers	BD+	1,360	1,430	5.1%	7	32	61	100
11-2033	Fundraising Managers	BD+	1,330	1,380	3.8%	5	30	60	95
11-3000	Operations Specialties Managers	N/A	80,170	88,470	10.4%	830	2,155	3,646	6,631
11-3013	Facilities Managers	BD+	3,950	4,110	4.1%	16	129	173	318
11-3021	Computer & Information Systems Managers	BD+	18,950	21,590	13.9%	264	395	899	1,558
11-3031	Financial Managers	BD+	25,890	29,980	15.8%	410	719	1,140	2,269
11-3051	Industrial Production Managers	BD+	8,090	8,250	2.0%	16	198	349	563
11-3061	Purchasing Managers	BD+	2,590	2,700	4.2%	11	76	116	203
11-3071	Transportation, Storage & Distribution Managers	WK EXP	5,180	5,580	7.7%	40	152	269	461
11-3121	Human Resources Managers	BD+	7,240	7,600	5.0%	36	211	337	584
11-3131	Training & Development Managers	BD+	1,380	1,450	5.1%	7	34	73	114
11-9000	Other Management Occupations	N/A	159,370	165,670	4.0%	629	6,028	6,845	13,502
11-9013	Farmers, Ranchers & Other Agricultural Managers	WK EXP	32,710	30,700	-6.1%	-201	2,215	1,056	3,070
11-9021	Construction Managers	BD+	15,270	15,960	4.5%	68	391	708	1,167
11-9031	Education Admin., Preschool & Childcare Center/Program	BD+	3,180	3,050	-4.1%	-12	85	120	193
11-9032	Education Administrators, Elementary & Secondary School	MD+	8,040	8,130	1.1%	8	221	310	539
11-9033	Education Administrators, Postsecondary	MD+	5,560	5,660	1.8%	10	153	215	378
11-9039	Education Administrators, Other	BD+	1,030	1,060	2.9%	4	28	40	72
11-9041	Architectural & Engineering Managers	BD+	8,420	8,790	4.4%	38	170	367	575
11-9051	Food Service Managers	WK EXP	9,630	9,570	-0.6%	-6	351	707	1,052
11-9072	Entertainment & Recreation Managers	BD+	220	240	9.1%	2	9	15	26
11-9081	Lodging Managers	WK EXP	1,420	1,520	7.0%	10	55	86	151
11-9111	Medical & Health Services Managers	BD+	17,770	22,610	27.2%	484	562	835	1,881
11-9121	Natural Sciences Managers	BD+	6,670	6,950	4.2%	28	163	305	496
11-9131	Postmasters & Mail Superintendents	WK EXP	740	750	1.4%	1	23	31	55

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11-9141	Property, Real Estate & Community Association Managers	WK EXP	6,120	6,460	5.6%	33	264	214	511
11-9151	Social & Community Service Managers	BD+	7,670	8,160	6.4%	49	255	354	658
11-9161	Emergency Management Directors	BD+	410	420	2.4%	1	11	17	29
11-9171	Funeral Home Managers	AD+	1,550	1,590	2.6%	4	48	66	118
11-9179	Personal Service Managers, All Other	WK EXP	320	330	3.1%	1	10	14	25
11-9199	Managers, Other	BD+	32,610	33,670	3.3%	106	1,012	1,385	2,503
13-0000	Business & Financial Operations Occupations	N/A	362,880	380,980	5.0%	1,810	11,346	17,613	30,769
13-1000	Business Operations Specialists	N/A	243,120	255,730	5.2%	1,261	7,710	12,412	21,383
13-1011	Agents & Business Managers of Artists, Performers & Athletes	BD+	120	130	8.3%	1	5	6	12
13-1020	Buyers & Purchasing Agents	BD+	17,980	16,690	-7.2%	-129	642	917	1,430
13-1031	Claims Adjusters, Examiners & Investigators	LT OJT	13,230	12,640	-4.5%	-60	330	533	803
13-1032	Insurance Appraisers, Auto Damage	PS+	160	160	0.0%	0	4	7	11
13-1041	Compliance Officers	BD+	14,200	14,800	4.2%	60	501	599	1,160
13-1051	Cost Estimators	BD+	9,990	9,720	-2.7%	-27	318	488	779
13-1071	Human Resources Specialists	BD	31,400	32,960	5.0%	156	961	1,669	2,786
13-1074	Farm Labor Contractors	ST OJT	60	60	0.0%	1	2	3	6
13-1075	Labor Relations Specialists	BD+	3,850	3,860	0.3%	1	115	200	316
13-1081	Logisticians	BD	8,420	10,070	19.6%	166	250	480	896
13-1082	Project Management Specialists	BD	29,040	30,620	5.4%	158	683	1,373	2,214
13-1111	Management Analysts	BD+	32,190	35,080	9.0%	289	1,158	1,548	2,995
13-1121	Meeting, Convention & Event Planners	BD	3,870	4,150	7.2%	29	164	251	444
13-1131	Fundraisers	BD	5,240	5,470	4.4%	23	160	230	413
13-1141	Compensation, Benefits & Job Analysis Specialists	BD+	5,270	5,720	8.5%	46	162	217	425
13-1151	Training & Development Specialists	BD+	13,220	14,070	6.4%	84	414	716	1,214
13-1161	Market Research Analysts & Marketing Specialists	BD	30,660	34,410	12.2%	374	1,019	1,893	3,286
13-1199	Business Operations Specialists, Other	BD	24,230	25,120	3.7%	90	821	1,280	2,191
13-2000	Financial Specialists	N/A	119,770	125,250	4.6%	548	3,637	5,201	9,386
13-2011	Accountants & Auditors	BD	58,830	61,420	4.4%	258	1,856	2,722	4,836
13-2020	Property Appraisers & Assessors	BD+	2,110	2,210	4.7%	10	105	72	187
13-2031	Budget Analysts	BD	1,500	1,550	3.3%	5	44	55	104
13-2041	Credit Analysts	BD	2,450	2,330	-4.9%	-12	54	110	152
13-2051	Financial Analysts	BD	12,180	12,950	6.3%	76	270	515	861
13-2052	Personal Financial Advisors	BD+	12,830	14,210	10.8%	138	365	466	969

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13-2053	Insurance Underwriters	BD+	6,290	5,980	-4.9%	-31	185	237	391
13-2054	Financial Risk Specialists	BD	1,220	1,310	7.4%	9	29	53	91
13-2061	Financial Examiners	BD+	1,720	2,040	18.6%	32	59	72	163
13-2071	Credit Counselors	BD+	1,170	1,210	3.4%	4	32	48	84
13-2072	Loan Officers	BD+	10,090	10,320	2.3%	23	271	416	710
13-2081	Tax Examiners, Collectors & Revenue Agents	BD+	2,640	2,710	2.7%	6	95	102	203
13-2082	Tax Preparers	MT OJT	3,400	3,490	2.6%	9	192	190	391
13-2099	Financial Specialists, Other	BD	3,340	3,530	5.7%	19	79	143	241
15-0000	Computer & Mathematical Occupations	N/A	179,640	200,770	11.8%	2,114	4,198	6,954	13,266
15-1200	Computer Occupations	N/A	167,990	185,980	10.7%	1,799	3,891	6,504	12,194
15-1211	Computer Systems Analysts	BD	21,840	23,860	9.2%	202	572	759	1,533
15-1212	Information Security Analysts	BD+	4,470	5,720	28.0%	125	111	187	423
15-1221	Computer & Information Research Scientists	MD	710	850	19.7%	14	19	29	62
15-1231	Computer Network Support Specialists	AD+	4,620	4,910	6.3%	29	117	196	342
15-1232	Computer User Support Specialists	PS+	29,560	31,190	5.5%	163	746	1,247	2,156
15-1241	Computer Network Architects	BD+	6,250	6,520	4.3%	28	116	218	362
15-1242	Database Administrators	BD	2,840	3,020	6.3%	18	74	94	186
15-1243	Database Architects	BD+	3,060	3,290	7.5%	24	80	102	206
15-1244	Network & Computer Systems Administrators	BD	10,720	11,000	2.6%	27	222	378	627
15-1251	Computer Programmers	BD	8,110	7,230	-10.9%	-88	189	273	374
15-1252	Software Developers	BD	44,860	53,670	19.6%	881	845	1,762	3,488
15-1253	Software Quality Assurance Analysts & Testers	BD	5,980	7,100	18.7%	112	165	234	511
15-1254	Web Developers	BD	3,550	4,160	17.2%	61	76	161	298
15-1255	Web & Digital Interface Designers	BD	3,720	4,240	14.0%	51	111	169	331
15-1299	Computer Occupations, All Other	BD	17,720	19,240	8.6%	152	447	695	1,294
15-2000	Mathematical Scientists	N/A	11,640	14,790	27.1%	315	307	450	1,072
15-2011	Actuaries	BD+	2,060	2,470	19.9%	41	37	70	148
15-2031	Operations Research Analysts	BD	3,110	3,800	22.2%	69	99	108	276
15-2041	Statisticians	MD	2,590	3,380	30.5%	79	68	108	255
15-2051	Data Scientists	BD	3,810	5,060	32.8%	126	101	161	388
17-0000	Architecture & Engineering Occupations	N/A	98,300	103,940	5.7%	564	2,796	3,729	7,089
17-1000	Architects, Surveyors & Cartographers	N/A	6,480	6,800	4.9%	32	204	214	450
17-1011	Architects	BD+	3,780	4,000	5.8%	22	114	120	256

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17-1012	Landscape Architects	BD+	930	950	2.2%	2	35	37	74
17-1021	Cartographers & Photogrammetrists	BD	150	160	6.7%	0	5	5	10
17-1022	Surveyors	BD+	1,620	1,690	4.3%	7	51	52	110
17-2000	Engineers	N/A	67,310	72,550	7.8%	524	1,602	2,268	4,394
17-2011	Aerospace Engineers	BD	840	900	7.1%	6	20	25	51
17-2031	Biomedical Engineers	BD	950	1,000	5.3%	5	17	37	59
17-2041	Chemical Engineers	BD	1,620	1,740	7.4%	13	37	51	101
17-2051	Civil Engineers	BD	11,910	12,590	5.7%	68	263	453	784
17-2061	Computer Hardware Engineers	BD	1,350	1,410	4.4%	6	27	47	80
17-2071	Electrical Engineers	BD	7,020	7,330	4.4%	31	166	213	410
17-2072	Electronics Engineers	BD	2,340	2,460	5.1%	12	56	71	139
17-2081	Environmental Engineers	BD	1,840	1,940	5.4%	11	57	63	131
17-2111	Health & Safety Engineers	BD	1,240	1,290	4.0%	5	31	38	74
17-2112	Industrial Engineers	BD	11,960	13,430	12.3%	147	309	385	841
17-2121	Marine Engineers & Naval Architects	BD	150	160	6.7%	0	3	4	7
17-2131	Materials Engineers	BD	1,100	1,150	4.5%	6	31	36	73
17-2141	Mechanical Engineers	BD	17,710	19,620	10.8%	190	414	598	1,202
17-2151	Mining & Geological Engineers	BD	290	310	6.9%	1	6	11	18
17-2161	Nuclear Engineers	BD	490	490	0.0%	0	12	16	28
17-2171	Petroleum Engineers	BD	620	630	1.6%	1	12	23	36
17-2199	Engineers, Other	BD	5,860	6,080	3.8%	21	143	195	359
17-3000	Drafters, Engineering & Mapping Technicians	N/A	24,510	24,600	0.4%	9	990	1,247	2,246
17-3011	Architectural & Civil Drafters	AD	5,580	5,630	0.9%	5	232	285	522
17-3012	Electrical & Electronics Drafters	AD	800	810	1.2%	1	28	37	66
17-3013	Mechanical Drafters	AD	2,670	2,500	-6.4%	-17	90	118	191
17-3019	Drafters, Other	AD	310	280	-9.7%	-3	10	13	20
17-3021	Aerospace Engineering & Operations Technicians	AD	90	90	0.0%	0	3	4	7
17-3022	Civil Engineering Technicians	AD	2,000	2,020	1.0%	2	76	104	182
17-3023	Electrical & Electronic Engineering Technicians	AD	3,400	3,380	-0.6%	-2	172	152	322
17-3024	Electro-Mechanical Technicians	AD	790	760	-3.8%	-3	29	40	66
17-3025	Environmental Engineering Technicians	AD	510	520	2.0%	1	20	26	47
17-3026	Industrial Engineering Technicians	AD	2,000	2,070	3.5%	7	78	105	190
17-3027	Mechanical Engineering Technicians	AD	1,760	1,780	1.1%	3	67	92	162

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17-3028	Calibration Technologists & Technicians	AD	460	470	2.2%	2	18	24	44
17-3029	Engineering Technicians, Other	AD	2,940	3,020	2.7%	8	113	154	275
17-3031	Surveying & Mapping Technicians	MT OJT	1,230	1,280	4.1%	4	52	93	149
19-0000	Life, Physical & Social Science Occupations	N/A	65,970	69,820	5.8%	385	1,372	4,266	6,023
19-1000	Life Scientists	N/A	17,430	18,820	8.0%	139	254	867	1,260
19-1012	Food Scientists & Technologists	BD	520	550	5.8%	3	8	33	44
19-1013	Soil & Plant Scientists	BD	140	140	0.0%	0	2	9	11
19-1021	Biochemists & Biophysicists	DOCT	2,270	2,390	5.3%	12	38	130	180
19-1022	Microbiologists	BD	820	860	4.9%	4	14	47	65
19-1023	Zoologists & Wildlife Biologists	BD	350	370	5.7%	1	6	20	27
19-1029	Biological Scientists, Other	BD	3,090	3,220	4.2%	13	51	176	240
19-1031	Conservation Scientists	BD	1,150	1,250	8.7%	9	21	73	103
19-1032	Foresters	BD	340	350	2.9%	1	6	21	28
19-1042	Medical Scientists	DOCT	8,230	9,140	11.1%	90	101	337	528
19-1099	Life Scientists, Other	BD	350	360	2.9%	2	4	14	20
19-2000	Physical Scientists	N/A	11,310	11,930	5.5%	62	178	646	886
19-2012	Physicists	DOCT	420	440	4.8%	1	10	15	26
19-2021	Atmospheric & Space Scientists	BD	430	450	4.7%	1	6	29	36
19-2031	Chemists	BD	5,310	5,640	6.2%	33	84	287	404
19-2032	Materials Scientists	BD	370	390	5.4%	2	6	20	28
19-2041	Environmental Scientists & Specialists	BD	2,880	3,050	5.9%	17	47	182	246
19-2042	Geoscientists	BD	800	840	5.0%	4	11	52	67
19-2043	Hydrologists	BD	290	300	3.4%	1	4	18	23
19-2099	Physical Scientists, Other	BD	800	820	2.5%	2	10	42	54
19-3000	Social Scientists & Related Workers	N/A	13,810	14,260	3.3%	45	292	613	950
19-3011	Economists	MD	590	620	5.1%	2	9	27	38
19-3022	Survey Researchers	MD	2,220	2,080	-6.3%	-14	38	134	158
19-3033	Clinical & Counseling Psychologists	DOCT	3,800	4,160	9.5%	36	83	103	222
19-3034	School Psychologists	MD+	2,200	2,200	0.0%	1	38	102	141
19-3039	Psychologists, Other	MD+	2,010	2,120	5.5%	11	61	68	140
19-3051	Urban & Regional Planners	MD	1,270	1,320	3.9%	5	31	70	106
19-3091	Anthropologists & Archeologists	MD	180	180	0.0%	0	3	11	14
19-3092	Geographers	BD	50	50	0.0%	0	1	3	4

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19-3093	Historians	MD	120	120	0.0%	0	2	8	10
19-3094	Political Scientists	MD	160	160	0.0%	1	3	10	14
19-3099	Social Scientists & Related Workers, Other	BD	1,210	1,230	1.7%	2	22	76	100
19-4000	Life, Physical & Social Science Technicians	N/A	18,600	19,370	4.1%	77	503	1,747	2,327
19-4012	Agricultural Technicians	AD+	380	390	2.6%	1	10	42	53
19-4013	Food Science Technicians	AD+	1,080	1,130	4.6%	5	29	118	152
19-4021	Biological Technicians	BD	5,450	5,720	5.0%	28	180	501	709
19-4031	Chemical Technicians	AD+	3,610	3,740	3.6%	14	76	346	436
19-4042	Environmental Science & Protection Technicians	AD	1,310	1,370	4.6%	6	24	111	141
19-4043	Geological Technicians	AD+	530	540	1.9%	1	9	44	54
19-4044	Hydrologic Technicians	AD+	80	80	0.0%	0	1	7	8
19-4051	Nuclear Technicians	AD+	440	440	0.0%	0	8	36	44
19-4061	Social Science Research Assistants	BD	560	590	5.4%	3	16	54	73
19-4071	Forest & Conservation Technicians	AD	980	1,000	2.0%	1	28	92	121
19-4092	Forensic Science Technicians	BD+	390	440	12.8%	5	12	38	55
19-4099	Life, Physical & Social Science Technicians, Other	AD	3,780	3,930	4.0%	15	109	358	482
19-5000	Occupational Health & Safety Specialists & Technicians	N/A	4,830	5,440	12.6%	62	144	394	600
19-5011	Occupational Health & Safety Specialists	BD	4,230	4,790	13.2%	56	127	346	529
19-5012	Occupational Health & Safety Technicians	MT OJT	600	660	10.0%	6	18	48	72
21-0000	Community & Social Services Occupations	N/A	137,600	146,110	6.2%	851	5,407	6,633	12,891
21-1000	Counselors, Social Workers & Community Service Specialists	N/A	108,150	116,760	8.0%	861	4,072	5,205	10,138
21-1012	Educational, Guidance, School & Vocational Counselors	MD	8,080	8,380	3.7%	30	247	332	609
21-1013	Marriage & Family Therapists	MD+	2,480	2,720	9.7%	25	87	76	188
21-1015	Rehabilitation Counselors	MD	6,790	7,200	6.0%	42	227	308	577
21-1018	Substance Abuse, Behavioral Disorder, & Mental Health Counselors	BD	23,410	26,960	15.2%	355	906	1,162	2,423
21-1019	Counselors, Other	MD	1,380	1,550	12.3%	17	61	74	152
21-1021	Child, Family & School Social Workers	BD	21,400	22,360	4.5%	97	709	950	1,756
21-1022	Healthcare Social Workers	MD+	6,520	7,000	7.4%	49	250	318	617
21-1023	Mental Health & Substance Abuse Social Workers	MD+	7,560	8,160	7.9%	61	292	250	603
21-1029	Social Workers, Other	BD	1,270	1,320	3.9%	5	42	61	108
21-1091	Health Educators	BD	1,960	2,080	6.1%	12	81	118	211
21-1092	Probation Officers & Correctional Treatment Specialists	BD+	4,370	4,530	3.7%	16	137	197	350
21-1093	Social & Human Service Assistants	ST OJT	19,580	20,780	6.1%	121	890	1,152	2,163

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21-1094	Community Health Workers	ST OJT	2,200	2,480	12.7%	28	94	136	258
21-1099	Community & Social Service Specialists, Other	BD	1,180	1,220	3.4%	4	48	70	122
21-2000	Religious Workers	N/A	29,450	29,350	-0.3%	-10	1,335	1,428	2,753
21-2111	Clergy	BD+	14,870	14,870	0.0%	1	594	614	1,209
21-2121	Directors, Religious Activities & Education	BD+	10,000	9,910	-0.9%	-9	418	535	944
21-2099	Religious Workers, Other	BD	4,580	4,570	-0.2%	-2	323	279	600
23-0000	Legal Occupations	N/A	48,970	52,070	6.3%	311	1,444	1,529	3,284
23-1000	Lawyers, Judges & Related Workers	N/A	32,660	35,230	7.9%	256	798	523	1,577
23-1011	Lawyers	DOCT	30,680	33,170	8.1%	249	742	480	1,471
23-1012	Judicial Law Clerks	DOCT	950	990	4.2%	4	31	27	62
23-1021	Administrative Law Judges, Adjudicators & Hearing Officers	DOCT	770	800	3.9%	2	18	12	32
23-2000	Legal Support Workers	N/A	16,300	16,850	3.4%	54	647	1,006	1,707
23-2011	Paralegals & Legal Assistants	AD	11,000	11,530	4.8%	54	424	714	1,192
23-2093	Title Examiners, Abstractors & Searchers	MT OJT	3,960	3,940	-0.5%	-2	160	211	369
23-2099	Legal Support Workers, Other	AD	1,350	1,380	2.2%	3	62	81	146
25-0000	Education, Training & Library Occupations	N/A	328,020	334,530	2.0%	651	14,330	13,704	28,685
25-1000	Postsecondary Teachers	N/A	66,020	69,840	5.8%	381	2,992	2,291	5,664
25-1011	Business Teachers, Postsecondary	DOCT	4,010	4,230	5.5%	22	181	139	342
25-1021	Computer Science Teachers, Postsecondary	DOCT	1,960	2,040	4.1%	8	88	68	164
25-1022	Mathematical Science Teachers, Postsecondary	DOCT	1,970	2,010	2.0%	4	88	67	159
25-1031	Architecture Teachers, Postsecondary	DOCT	660	670	1.5%	1	29	22	52
25-1032	Engineering Teachers, Postsecondary	DOCT	3,760	4,040	7.4%	28	172	132	332
25-1041	Agricultural Sciences Teachers, Postsecondary	DOCT	200	210	5.0%	1	9	7	17
25-1042	Biological Science Teachers, Postsecondary	DOCT	2,560	2,740	7.0%	18	117	89	224
25-1051	Atmospheric, Earth, Marine & Space Sciences Teachers, Postsecondary	DOCT	660	680	3.0%	2	30	23	55
25-1052	Chemistry Teachers, Postsecondary	DOCT	1,660	1,690	1.8%	3	74	57	134
25-1053	Environmental Science Teachers, Postsecondary	DOCT	170	170	0.0%	0	8	6	14
25-1054	Physics Teachers, Postsecondary	DOCT	790	800	1.3%	2	35	27	64
25-1061	Anthropology & Archeology Teachers, Postsecondary	DOCT	350	360	2.9%	1	16	12	29
25-1062	Area, Ethnic & Cultural Studies Teachers, Postsecondary	DOCT	470	480	2.1%	1	21	16	38
25-1063	Economics Teachers, Postsecondary	DOCT	610	630	3.3%	1	27	21	49
25-1064	Geography Teachers, Postsecondary	DOCT	190	200	5.3%	0	8	6	14
25-1065	Political Science Teachers, Postsecondary	DOCT	860	870	1.2%	2	38	29	69

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25-1066	Psychology Teachers, Postsecondary	DOCT	2,620	2,720	3.8%	10	118	90	218
25-1067	Sociology Teachers, Postsecondary	DOCT	510	520	2.0%	1	23	17	41
25-1069	Social Sciences Teachers, Postsecondary, Other	DOCT	560	560	0.0%	1	25	19	45
25-1071	Health Specialties Teachers, Postsecondary	DOCT	10,410	12,170	16.9%	177	497	381	1,055
25-1072	Nursing Instructors & Teachers, Postsecondary	DOCT	4,110	4,790	16.5%	68	196	150	414
25-1081	Education Teachers, Postsecondary	DOCT	2,770	2,820	1.8%	5	123	94	222
25-1082	Library Science Teachers, Postsecondary	DOCT	260	260	0.0%	1	11	9	21
25-1111	Criminal Justice & Law Enforcement Teachers, Postsecondary	DOCT	870	890	2.3%	2	39	30	71
25-1112	Law Teachers, Postsecondary	DOCT	530	540	1.9%	1	24	18	43
25-1113	Social Work Teachers, Postsecondary	DOCT	710	730	2.8%	2	32	24	58
25-1121	Art, Drama & Music Teachers, Postsecondary	MD	5,080	5,170	1.8%	9	226	173	408
25-1122	Communications Teachers, Postsecondary	DOCT	1,230	1,250	1.6%	2	54	42	98
25-1123	English Language & Literature Teachers, Postsecondary	DOCT	3,210	3,200	-0.3%	-1	141	108	248
25-1124	Foreign Language & Literature Teachers, Postsecondary	DOCT	1,490	1,480	-0.7%	-1	66	50	115
25-1125	History Teachers, Postsecondary	DOCT	990	980	-1.0%	0	43	33	76
25-1126	Philosophy & Religion Teachers, Postsecondary	DOCT	1,060	1,060	0.0%	1	47	36	84
25-1192	Home Economics Teachers, Postsecondary	DOCT	130	130	0.0%	0	6	4	10
25-1193	Recreation & Fitness Studies Teachers, Postsecondary	DOCT	770	780	1.3%	2	34	26	62
25-1194	Vocational Education Teachers, Postsecondary	BD+	4,250	4,280	0.7%	3	188	144	335
25-1199	Postsecondary Teachers, Other	DOCT	3,600	3,670	1.9%	7	160	123	290
25-2000	Primary, Secondary & Special Education School Teachers	N/A	168,520	169,990	0.9%	147	5,692	6,081	11,920
25-2011	Preschool Teachers	AD	17,890	18,260	2.1%	37	827	1,066	1,930
25-2012	Kindergarten Teachers	BD	2,850	2,870	0.7%	2	131	169	302
25-2021	Elementary School Teachers	BD	54,510	54,870	0.7%	36	1,836	1,798	3,670
25-2022	Middle School Teachers	BD	21,900	22,090	0.9%	18	739	723	1,480
25-2023	Career/Technical Education Teachers, Middle School	BD+	360	360	0.0%	0	12	12	24
25-2031	Secondary School Teachers	BD	50,140	50,640	1.0%	50	1,462	1,625	3,137
25-2032	Career/Technical Education Teachers, Secondary School	BD+	3,080	3,080	0.0%	-1	89	99	187
25-2051	Special Education Teachers, Preschool	BD	640	650	1.6%	1	22	21	44
25-2052	Special Education Teachers, Kindergarten & Elementary School	BD	5,470	5,470	0.0%	-1	183	181	363
25-2057	Special Education Teachers, Middle School	BD	2,850	2,850	0.0%	0	96	94	190
25-2058	Special Education Teachers, Secondary School	BD	8,610	8,630	0.2%	2	289	285	576
25-2059	Special Education Teachers, Other	BD	200	230	15.0%	2	7	7	16

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25-3000	Other Teachers & Instructors	N/A	27,170	27,970	2.9%	80	1,867	1,674	3,621
25-3011	Adult Basic & Secondary Education & Literacy Teachers	BD	790	700	-11.4%	-9	47	42	80
25-3021	Self-Enrichment Education Teachers	WK EXP	12,780	13,150	2.9%	37	809	736	1,582
25-3031	Substitute Teachers, Short-Term	BD	6,380	6,640	4.1%	26	406	370	802
25-3041	Tutors	PS	5,080	5,300	4.3%	22	471	404	897
25-3099	Teachers & Instructors, Other	BD	2,130	2,170	1.9%	4	134	122	260
25-4000	Librarians, Curators & Archivists	N/A	8,390	8,890	6.0%	50	576	413	1,039
25-4011	Archivists	MD	410	450	9.8%	4	27	24	55
25-4012	Curators	MD	510	560	9.8%	5	33	30	68
25-4013	Museum Technicians & Conservators	BD	610	670	9.8%	6	39	36	81
25-4022	Librarians & Media Collections Specialists	MD	4,890	5,130	4.9%	24	274	190	488
25-4031	Library Technicians	PS	1,970	2,080	5.6%	11	203	133	347
25-9000	Other Education, Training & Library Occupations	N/A	57,920	57,850	-0.1%	-7	3,202	3,244	6,439
25-9031	Instructional Coordinators	MD+	6,080	6,260	3.0%	19	284	242	545
25-9045	Teaching Assistants, Non-Postsecondary	PS	47,830	47,490	-0.7%	-34	2,716	2,818	5,500
25-9099	Education, Training & Library Workers, Other	BD	2,450	2,520	2.9%	7	115	98	220
27-0000	Arts, Design, Entertainment, Sports & Media Occupations	N/A	89,620	92,930	3.7%	331	3,915	5,160	9,406
27-1000	Art & Design Workers	N/A	29,110	29,990	3.0%	88	1,150	1,564	2,802
27-1011	Art Directors	BD+	3,510	3,730	6.3%	22	166	172	360
27-1012	Craft Artists	LT OJT	80	90	12.5%	1	4	4	9
27-1013	Fine Artists	BD+	240	260	8.3%	1	11	12	24
27-1014	Multimedia Artists & Animators	BD	550	590	7.3%	4	26	27	57
27-1019	Artists & Related Workers, Other	LT OJT	220	220	0.0%	0	10	10	20
27-1021	Commercial & Industrial Designers	BD	530	540	1.9%	1	12	24	37
27-1022	Fashion Designers	BD	320	340	6.2%	2	9	20	31
27-1023	Floral Designers	MT OJT	2,340	1,950	-16.7%	-39	135	112	208
27-1024	Graphic Designers	BD	10,920	11,370	4.1%	45	318	570	933
27-1025	Interior Designers	BD	3,930	4,080	3.8%	16	171	184	371
27-1026	Merchandise Displayers & Window Trimmers	ST OJT	5,030	5,300	5.4%	27	248	353	628
27-1027	Set & Exhibit Designers	BD	630	670	6.3%	5	18	34	57
27-1029	Designers, Other	BD	810	850	4.9%	4	22	43	69
27-2000	Entertainers & Performers, Sports & Related Workers	N/A	27,610	29,140	5.5%	153	1,566	1,808	3,527
27-2011	Actors	PS+	3,240	3,330	2.8%	10	175	199	384

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27-2012	Producers & Directors	BD+	4,280	4,510	5.4%	23	125	234	382
27-2021	Athletes & Sports Competitors	LT OJT	810	910	12.3%	9	38	64	111
27-2022	Coaches & Scouts	BD	10,040	10,910	8.7%	86	574	732	1,392
27-2023	Umpires, Referees & Other Sports Officials	MT OJT	1,000	1,060	6.0%	6	136	98	240
27-2031	Dancers	LT OJT	260	270	3.8%	2	16	25	43
27-2041	Music Directors & Composers	BD+	1,780	1,810	1.7%	2	87	87	176
27-2042	Musicians & Singers	LT OJT	5,300	5,390	1.7%	9	371	313	693
27-2099	Entertainers & Performers, Sports & Related Workers, Other	ST OJT	330	360	9.1%	3	18	22	43
27-3000	Media & Communication Workers	N/A	22,790	23,400	2.7%	61	866	1,227	2,154
27-3011	Radio & Television Announcers	BD	1,080	1,080	0.0%	0	53	56	109
27-3023	News Analysts, Reporters & Journalists	BD	1,650	1,640	-0.6%	0	72	105	177
27-3031	Public Relations Specialists	BD	7,360	7,760	5.4%	40	181	411	632
27-3041	Editors	BD+	4,130	4,000	-3.1%	-13	188	222	397
27-3042	Technical Writers	BD+	2,530	2,660	5.1%	14	75	133	222
27-3043	Writers & Authors	BD+	3,930	4,080	3.8%	14	179	208	401
27-3091	Interpreters & Translators	BD	1,030	1,050	1.9%	2	53	50	105
27-3092	Court Reporters & Simultaneous Captioners	PS	1,020	1,060	3.9%	4	62	38	104
27-3099	Media & Communication Workers, Other	ST OJT	70	70	0.0%	0	2	4	6
27-4000	Media & Communication Equipment Workers	N/A	10,110	10,400	2.9%	29	333	560	922
27-4011	Audio & Video Equipment Technicians	PS	2,040	2,150	5.4%	11	62	122	195
27-4012	Broadcast Technicians	AD	930	920	-1.1%	-1	27	54	80
27-4014	Sound Engineering Technicians	PS	260	250	-3.8%	0	8	15	23
27-4015	Lighting Technicians	PS	160	160	0.0%	-1	5	9	13
27-4021	Photographers	MT OJT	4,300	4,390	2.1%	9	162	219	390
27-4031	Camera Operators: TV, Video & Motion Picture	BD	800	790	-1.2%	-2	22	46	66
27-4032	Film & Video Editors	BD	1,360	1,480	8.8%	12	39	82	133
27-4099	Media & Communication Equipment Workers, Other	ST OJT	260	270	3.8%	0	8	15	23
29-0000	Healthcare Practitioners & Technical Occupations	N/A	415,140	443,640	6.9%	2,851	13,512	10,349	26,712
29-1000	Health Diagnosing & Treating Practitioners	N/A	275,880	296,140	7.3%	2,026	8,424	5,228	15,678
29-1011	Chiropractors	DOCT	2,270	2,440	7.5%	17	70	17	104
29-1021	Dentists, General	DOCT	4,650	4,710	1.3%	6	102	28	136
29-1022	Oral & Maxillofacial Surgeons	DOCT	410	420	2.4%	1	9	2	12
29-1023	Orthodontists	DOCT	220	230	4.5%	0	5	1	6

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29-1029	Dentists, Other Specialists	DOCT	90	90	0.0%	0	2	0	2
29-1031	Dietitians & Nutritionists	BD+	3,550	3,780	6.5%	23	132	99	254
29-1041	Optometrists	DOCT	1,740	1,880	8.0%	14	43	11	68
29-1051	Pharmacists	DOCT	15,170	15,510	2.2%	34	354	212	600
29-1071	Physician Assistants	MD	7,240	9,290	28.3%	205	181	226	612
29-1081	Podiatrists	DOCT	540	520	-3.7%	-1	12	2	13
29-1122	Occupational Therapists	MD	7,220	8,060	11.6%	84	223	191	498
29-1123	Physical Therapists	DOCT	12,280	14,130	15.1%	185	304	205	694
29-1124	Radiation Therapists	AD	850	860	1.2%	2	20	14	36
29-1125	Recreational Therapists	BD	770	800	3.9%	3	31	25	59
29-1126	Respiratory Therapists	AD	5,160	5,790	12.2%	63	168	101	332
29-1127	Speech-Language Pathologists	MD+	5,670	6,680	17.8%	101	167	159	427
29-1128	Exercise Physiologists	BD	1,240	1,390	12.1%	15	43	35	93
29-1129	Therapists, Other	BD	960	1,060	10.4%	10	33	27	70
29-1131	Veterinarians	DOCT	3,490	3,970	13.8%	48	86	36	170
29-1141	Registered Nurses	BD	148,790	155,810	4.7%	701	5,056	3,133	8,890
29-1151	Nurse Anesthetists	MD	3,110	3,310	6.4%	20	62	64	146
29-1161	Nurse Midwives	MD	270	290	7.4%	2	6	6	14
29-1171	Nurse Practitioners	MD	8,010	11,430	42.7%	342	215	216	773
29-1181	Audiologists	DOCT	390	420	7.7%	3	13	7	23
29-1211	Anesthesiologists	DOCT	1,530	1,590	3.9%	6	32	9	47
29-1212	Cardiologists	DOCT	420	440	4.8%	2	9	2	13
29-1213	Dermatologists	DOCT	620	640	3.2%	3	13	4	20
29-1214	Emergency Medicine Physicians	DOCT	520	520	0.0%	1	11	3	15
29-1215	Family Medicine Physicians	DOCT	3,990	4,160	4.3%	18	84	24	126
29-1216	General Internal Medicine Physicians	DOCT	1,350	1,380	2.2%	3	28	8	39
29-1218	Obstetricians & Gynecologists	DOCT	440	450	2.3%	1	9	3	13
29-1221	Pediatricians, General	DOCT	1,080	1,090	0.9%	1	22	6	29
29-1223	Psychiatrists	DOCT	920	970	5.4%	6	19	6	31
29-1224	Radiologists	DOCT	1,300	1,330	2.3%	4	27	8	39
29-1241	Ophthalmologists	DOCT	690	730	5.8%	3	12	4	19
29-1242	Orthopedic Surgeons	DOCT	1,020	1,050	2.9%	2	18	6	26
29-1249	Surgeons, All Other	DOCT	410	430	4.9%	2	7	2	11

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29-1291	Acupuncturists	MD	150	160	6.7%	1	8	2	11
29-1292	Dental Hygienists	AD	8,480	8,780	3.5%	30	370	189	589
29-1299	Healthcare Diagnosing or Treating Practitioners, All Other	MD	1,540	1,570	1.9%	3	56	31	90
29-2000	Health Technologists & Technicians	N/A	134,730	142,450	5.7%	772	4,930	4,990	10,692
29-2010	Clinical Laboratory Technologists & Technicians	BD	14,060	14,510	3.2%	45	484	422	951
29-2031	Cardiovascular Technologists & Technicians	AD	3,480	3,580	2.9%	10	116	98	224
29-2032	Diagnostic Medical Sonographers	AD	3,190	3,590	12.5%	40	93	79	212
29-2033	Nuclear Medicine Technologists	AD	840	820	-2.4%	-2	19	18	35
29-2034	Radiologic Technologists	AD	9,660	9,990	3.4%	32	299	212	543
29-2035	Magnetic Resonance Imaging Technologists	AD+	2,280	2,400	5.3%	13	71	52	136
29-2036	Medical Dosimetrists	BD	140	150	7.1%	0	3	3	6
29-2042	Emergency Medical Technicians	PS	9,320	9,730	4.4%	41	243	416	700
29-2043	Paramedics	PS+	4,410	4,610	4.5%	19	91	112	222
29-2051	Dietetic Technicians	AD	750	770	2.7%	2	39	42	83
29-2052	Pharmacy Technicians	MT OJT	20,180	21,430	6.2%	125	814	1,048	1,987
29-2053	Psychiatric Technicians	PS+	2,240	2,310	3.1%	7	88	96	191
29-2055	Surgical Technologists	PS	3,750	3,890	3.7%	14	115	111	240
29-2056	Veterinary Technologists & Technicians	AD	5,300	6,020	13.6%	72	195	317	584
29-2057	Ophthalmic Medical Technicians	PS	1,640	1,850	12.8%	21	89	96	206
29-2061	Licensed Practical & Licensed Vocational Nurses	PS	34,410	36,560	6.2%	215	1,438	1,246	2,899
29-2072	Medical Records Specialists	PS	7,280	7,930	8.9%	64	286	216	566
29-2081	Opticians, Dispensing	LT OJT	2,970	3,020	1.7%	6	124	124	254
29-2091	Orthotists & Prosthetists	MD+	490	550	12.2%	6	18	16	40
29-2092	Hearing Aid Specialists	MT OJT	510	590	15.7%	8	20	17	45
29-2099	Health Technologists & Technicians, Other	PS	7,840	8,170	4.2%	33	284	247	564
29-9000	Other Healthcare Practitioners & Technical Occupations	N/A	4,530	5,050	11.5%	52	158	130	340
29-9021	Health Information Technologists & Medical Registrars	AD	1,130	1,310	15.9%	18	40	33	91
29-9091	Athletic Trainers	MD	1,900	2,150	13.2%	25	67	55	147
29-9092	Genetic Counselors	MD	360	410	13.9%	5	13	10	28
29-9093	Surgical Assistants	PS	460	480	4.3%	2	15	13	30
29-9099	Healthcare Practitioners & Technical Workers, Other	PS	690	700	1.4%	1	23	19	43
31-0000	Healthcare Support Occupations	N/A	340,210	379,850	11.7%	3,964	25,324	26,395	55,683
31-1100	Nursing, Psychiatric, & Home Health Aides	N/A	269,320	301,390	11.9%	3,207	21,422	20,047	44,676

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31-1120	Home Health & Personal Care Aides	ST OJT	188,340	217,220	15.3%	2,888	16,223	13,528	32,639
31-1131	Nursing Assistants	PS	75,670	78,720	4.0%	305	4,885	6,042	11,232
31-1132	Orderlies	ST OJT	3,750	3,870	3.2%	12	222	337	571
31-1133	Psychiatric Aides	ST OJT	1,560	1,580	1.3%	2	92	139	233
31-2000	Occupational & Physical Therapist Assistants & Aides	N/A	9,130	10,970	20.2%	184	488	878	1,550
31-2011	Occupational Therapy Assistants	AD	2,180	2,700	23.9%	52	121	213	386
31-2012	Occupational Therapy Aides	ST OJT	310	320	3.2%	0	16	27	43
31-2021	Physical Therapist Assistants	AD	4,990	6,280	25.9%	128	272	492	892
31-2022	Physical Therapist Aides	ST OJT	1,650	1,680	1.8%	3	80	145	228
31-9000	Other Healthcare Support Occupations	N/A	61,750	67,490	9.3%	574	3,413	5,471	9,458
31-9011	Massage Therapists	PS	4,110	4,840	17.8%	74	294	304	672
31-9091	Dental Assistants	PS	10,720	11,070	3.3%	34	606	886	1,526
31-9092	Medical Assistants	PS	27,920	31,740	13.7%	382	1,400	2,397	4,179
31-9093	Medical Equipment Preparers	MT OJT	2,650	2,730	3.0%	9	151	207	367
31-9094	Medical Transcriptionists	PS	1,620	1,510	-6.8%	-11	98	171	258
31-9095	Pharmacy Aides	ST OJT	2,650	2,630	-0.8%	-2	172	297	467
31-9096	Veterinary Assistants & Laboratory Animal Caretakers	ST OJT	4,200	4,770	13.6%	56	278	586	920
31-9097	Phlebotomists	PS	4,990	5,150	3.2%	16	249	395	660
31-9099	Healthcare Support Workers, Other	ST OJT	2,900	3,050	5.2%	15	167	228	410
33-0000	Protective Service Occupations	N/A	125,910	126,510	0.5%	60	7,542	7,924	15,526
33-1000	Supervisors - Protective Service Workers	N/A	10,200	10,320	1.2%	12	324	432	768
33-1011	Supervisors - Correctional Officers	WK EXP	1,420	1,390	-2.1%	-2	47	64	109
33-1012	Supervisors - Police & Detectives	WK EXP	4,530	4,690	3.5%	16	128	172	316
33-1021	Supervisors - Fire Fighting & Prevention	PS+	1,240	1,280	3.2%	4	31	45	80
33-1091	Supervisors - Security Workers	WK EXP	2,100	2,020	-3.8%	-8	82	105	179
33-1099	Supervisors - Protective Service Workers, Other	WK EXP	910	940	3.3%	3	37	47	87
33-2000	Fire Fighting & Prevention Workers	N/A	5,310	5,500	3.6%	19	143	260	422
33-2011	Firefighters	PS+	5,080	5,270	3.7%	18	135	248	401
33-2021	Fire Inspectors & Investigators	PS+	230	240	4.3%	0	8	11	19
33-3000	Law Enforcement Workers	N/A	47,380	47,260	-0.3%	-12	1,534	2,267	3,789
33-3011	Bailiffs	MT OJT	570	560	-1.8%	-1	57	20	76
33-3012	Correctional Officers & Jailers	MT OJT	16,380	15,280	-6.7%	-110	545	821	1,256
33-3021	Detectives & Criminal Investigators	WK EXP	3,970	4,070	2.5%	10	128	166	304

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33-3041	Parking Enforcement Workers	ST OJT	680	670	-1.5%	-1	37	34	70
33-3051	Police & Sheriff's Patrol Officers	MT OJT	25,640	26,540	3.5%	90	762	1,218	2,070
33-9000	Other Protective Service Workers	N/A	63,030	63,430	0.6%	41	5,540	4,965	10,546
33-9011	Animal Control Workers	MT OJT	120	120	0.0%	0	6	5	11
33-9021	Private Detectives & Investigators	WK EXP	1,590	1,680	5.7%	9	68	80	157
33-9031	Gaming Surveillance Officers & Gaming Investigators	WK EXP	450	450	0.0%	-1	26	33	58
33-9032	Security Guards	ST OJT	41,350	40,960	-0.9%	-39	2,380	3,059	5,400
33-9091	Crossing Guards	ST OJT	7,620	7,900	3.7%	28	1,325	402	1,755
33-9092	Lifeguards, Ski Patrol & Other Recreational Protective Service	ST OJT	5,550	5,880	5.9%	33	910	765	1,708
33-9093	Transportation Security Screeners	ST OJT	1,460	1,460	0.0%	0	63	71	134
33-9094	School Bus Monitors	ST OJT	1,290	1,310	1.6%	2	182	61	245
33-9099	Protective Service Workers, Other	ST OJT	3,610	3,680	1.9%	7	580	488	1,075
35-0000	Food Preparation & Serving Related Occupations	N/A	471,490	481,190	2.1%	971	42,057	50,203	93,231
35-1000	Supervisors - Food Preparation & Serving Workers	N/A	44,200	46,050	4.2%	186	2,215	4,239	6,640
35-1011	Chefs & Head Cooks	WK EXP	4,740	5,010	5.7%	27	189	385	601
35-1012	Supervisors - Food Preparation & Serving Workers	WK EXP	39,450	41,040	4.0%	159	2,026	3,854	6,039
35-2000	Cooks & Food Preparation Workers	N/A	98,390	105,600	7.3%	721	7,392	8,474	16,587
35-2011	Cooks, Fast Food	ST OJT	9,880	8,460	-14.4%	-142	625	747	1,230
35-2012	Cooks, Institution & Cafeteria	ST OJT	14,610	14,910	2.1%	29	1,007	1,203	2,239
35-2014	Cooks, Restaurant	MT OJT	47,000	56,390	20.0%	939	3,526	4,215	8,680
35-2015	Cooks, Short Order	ST OJT	3,690	3,440	-6.8%	-25	243	290	508
35-2021	Food Preparation Workers	ST OJT	21,670	20,900	-3.6%	-76	1,887	1,894	3,705
35-3000	Food & Beverage Serving Workers	N/A	280,620	280,970	0.1%	35	27,294	32,795	60,124
35-3011	Bartenders	ST OJT	25,170	25,600	1.7%	43	1,377	2,960	4,380
35-3023	Fast Food & Counter Workers	ST OJT	162,780	165,070	1.4%	228	18,102	19,322	37,652
35-3031	Waiters & Waitresses	ST OJT	79,160	76,360	-3.5%	-280	6,689	9,396	15,805
35-3041	Food Servers, Nonrestaurant	ST OJT	13,520	13,950	3.2%	44	1,126	1,117	2,287
35-9000	Other Food Preparation & Serving Related Workers	N/A	48,280	48,570	0.6%	29	5,156	4,696	9,881
35-9011	Dining Room & Cafeteria Attendants & Bartender Helpers	ST OJT	13,210	13,840	4.8%	63	1,295	1,218	2,576
35-9021	Dishwashers	ST OJT	18,010	17,670	-1.9%	-35	1,572	1,499	3,036
35-9031	Hosts & Hostesses: Restaurant, Lounge & Coffee Shop	ST OJT	16,630	16,630	0.0%	0	2,236	1,942	4,178
35-9099	Food Preparation & Serving Related Workers, Other	ST OJT	430	440	2.3%	1	53	36	90
37-0000	Building & Grounds Cleaning & Maintenance Occupations	N/A	202,710	206,440	1.8%	373	13,102	14,464	27,939

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37-1000	Supervisors - Building & Grounds Cleaning & Maintenance Workers	N/A	14,180	14,630	3.2%	44	666	896	1,606
37-1011	Supervisors - Housekeeping & Janitorial Workers	WK EXP	7,580	7,840	3.4%	26	400	483	909
37-1012	Supervisors - Landscaping & Groundskeeping Workers	WK EXP	6,600	6,790	2.9%	19	266	413	698
37-2000	Building Cleaning & Pest Control Workers	N/A	142,720	144,570	1.3%	185	10,157	9,924	20,266
37-2011	Janitors & Cleaners	ST OJT	96,220	97,660	1.5%	144	6,751	6,740	13,635
37-2012	Maids & Housekeeping Cleaners	ST OJT	44,620	44,980	0.8%	36	3,337	3,008	6,381
37-2019	Building Cleaning Workers, Other	ST OJT	200	200	0.0%	0	14	14	28
37-2021	Pest Control Workers	MT OJT	1,680	1,730	3.0%	6	55	162	223
37-3000	Grounds Maintenance Workers	N/A	45,810	47,250	3.1%	143	2,279	3,644	6,066
37-3011	Landscaping & Groundskeeping Workers	ST OJT	43,500	44,860	3.1%	137	2,196	3,430	5,763
37-3012	Pesticide Handlers, Sprayers & Applicators, Vegetation	MT OJT	360	370	2.8%	1	12	34	47
37-3013	Tree Trimmers & Pruners	ST OJT	1,710	1,760	2.9%	5	63	157	225
37-3019	Grounds Maintenance Workers, Other	ST OJT	250	260	4.0%	0	8	24	32
39-0000	Personal Care & Service Occupations	N/A	184,610	196,100	6.2%	1,149	12,681	18,752	32,582
39-1000	Supervisors - Personal Care & Service Workers	N/A	17,140	18,480	7.8%	134	751	1,159	2,044
39-1013	Supervisors - Gambling Services Workers	WK EXP	850	870	2.4%	2	36	56	94
39-1014	Supervisors - Entertainment & Recreation Workers	WK EXP	4,960	5,320	7.3%	36	217	335	588
39-1022	Supervisors - Personal Service Workers	WK EXP	11,330	12,290	8.5%	96	498	768	1,362
39-2000	Animal Care & Service Workers	N/A	13,470	15,880	17.9%	241	910	1,641	2,792
39-2011	Animal Trainers	MT OJT	1,910	2,270	18.8%	36	93	196	325
39-2021	Nonfarm Animal Caretakers	ST OJT	11,560	13,610	17.7%	205	817	1,445	2,467
39-3000	Entertainment Attendants & Related Workers	N/A	20,250	20,720	2.3%	47	2,223	3,182	5,452
39-3011	Gaming Dealers	ST OJT	2,820	2,800	-0.7%	-3	147	299	443
39-3012	Gaming & Sports Book Writers & Runners	ST OJT	200	200	0.0%	0	10	21	31
39-3021	Motion Picture Projectionists	ST OJT	90	100	11.1%	0	11	16	27
39-3031	Ushers, Lobby Attendants & Ticket Takers	ST OJT	4,110	4,200	2.2%	9	577	634	1,220
39-3091	Amusement & Recreation Attendants	ST OJT	12,520	12,910	3.1%	38	1,422	2,128	3,588
39-3092	Costume Attendants	ST OJT	230	230	0.0%	0	25	38	63
39-3093	Locker Room, Coatroom & Dressing Room Attendants	ST OJT	240	250	4.2%	1	28	42	71
39-4000	Funeral Service Workers	N/A	3,070	3,160	2.9%	9	147	266	422
39-4021	Funeral Attendants	ST OJT	1,700	1,740	2.4%	5	80	167	252
39-4031	Morticians, Undertakers & Funeral Directors	AD+	1,270	1,320	3.9%	5	61	90	156
39-5000	Personal Appearance Workers	N/A	51,410	56,200	9.3%	480	3,042	4,003	7,525

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39-5011	Barbers	PS	2,470	2,660	7.7%	19	92	179	290
39-5012	Hairdressers, Hairstylists & Cosmetologists	PS	37,200	40,650	9.3%	345	2,320	2,924	5,589
39-5092	Manicurists & Pedicurists	PS	8,880	9,730	9.6%	85	460	617	1,162
39-5093	Shampooers	ST OJT	1,410	1,580	12.1%	17	93	151	261
39-5094	Skincare Specialists	PS	1,410	1,550	9.9%	14	74	127	215
39-6000	Transportation, Tourism & Lodging Attendants	N/A	2,170	2,310	6.5%	14	123	228	365
39-6011	Baggage Porters & Bellhops	ST OJT	680	720	5.9%	4	39	71	114
39-6012	Concierges	MT OJT	1,490	1,580	6.0%	9	85	157	251
39-7000	Tour & Travel Guides	N/A	2,060	2,250	9.2%	19	198	255	472
39-7010	Tour & Travel Guides	MT OJT	2,060	2,250	9.2%	19	198	255	472
39-9000	Other Personal Care & Service Workers	N/A	75,050	77,110	2.7%	206	5,288	8,018	13,512
39-9011	Childcare Workers	ST OJT	45,060	44,850	-0.5%	-21	3,246	4,191	7,416
39-9031	Fitness Trainers & Aerobics Instructors	ST OJT	10,990	12,160	10.6%	117	703	1,419	2,239
39-9032	Recreation Workers	ST OJT	11,190	11,590	3.6%	40	835	1,488	2,363
39-9041	Residential Advisors	ST OJT	5,230	5,450	4.2%	22	299	622	943
39-9099	Personal Care & Service Workers, Other	ST OJT	2,590	3,060	18.1%	47	206	298	551
41-0000	Sales & Related Occupations	N/A	534,980	525,920	-1.7%	-906	31,345	38,379	68,818
41-1000	Supervisors - Sales Workers	N/A	63,820	61,210	-4.1%	-260	2,372	3,536	5,648
41-1011	Supervisors - Retail Sales Workers	WK EXP	51,250	48,870	-4.6%	-238	1,951	2,954	4,667
41-1012	Supervisors - Non-Retail Sales Workers	WK EXP	12,560	12,350	-1.7%	-22	421	582	981
41-2000	Retail Sales Workers	N/A	303,660	293,030	-3.5%	-1,063	23,075	25,490	47,502
41-2011	Cashiers	ST OJT	127,410	117,940	-7.4%	-947	11,798	11,888	22,739
41-2012	Gaming Change Persons & Booth Cashiers	ST OJT	420	390	-7.1%	-2	39	39	76
41-2021	Counter & Rental Clerks	ST OJT	9,570	9,750	1.9%	18	547	572	1,137
41-2022	Parts Salespersons	MT OJT	10,460	10,530	0.7%	7	509	711	1,227
41-2031	Retail Salespersons	ST OJT	155,820	154,420	-0.9%	-139	10,182	12,281	22,324
41-3000	Sales Representatives, Services	N/A	72,110	75,060	4.1%	294	2,243	4,164	6,701
41-3011	Advertising Sales Agents	MT OJT	4,790	4,490	-6.3%	-30	163	323	456
41-3021	Insurance Sales Agents	MT OJT	18,860	20,020	6.2%	116	727	807	1,650
41-3031	Securities, Commodities & Financial Services Sales Agents	BD+	13,290	14,180	6.7%	89	381	623	1,093
41-3041	Travel Agents	MT OJT	1,400	1,440	2.9%	4	91	85	180
41-3091	Sales Representatives - Services	MT OJT	33,780	34,930	3.4%	115	881	2,326	3,322
41-4000	Sales Representatives, Wholesale & Manufacturing	N/A	67,040	68,360	2.0%	132	2,252	3,700	6,084

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41-4011	Sales Representatives, Technical & Scientific Products	BD+	7,810	8,180	4.7%	37	266	437	740
41-4012	Sales Representatives	MT OJT	59,230	60,180	1.6%	95	1,986	3,263	5,344
41-9000	Other Sales & Related Workers	N/A	28,350	28,260	-0.3%	-9	1,402	1,490	2,883
41-9011	Demonstrators & Product Promoters	ST OJT	970	1,000	3.1%	4	109	70	183
41-9021	Real Estate Brokers	WK EXP	3,370	3,510	4.2%	14	160	125	299
41-9022	Real Estate Sales Agents	MT OJT	12,370	12,840	3.8%	47	588	457	1,092
41-9031	Sales Engineers	BD+	2,610	2,700	3.4%	10	82	157	249
41-9041	Telemarketers	ST OJT	4,820	3,880	-19.5%	-93	217	368	492
41-9099	Sales & Related Workers, Other	ST OJT	3,770	3,930	4.2%	16	213	289	518
43-0000	Office & Administrative Support Occupations	N/A	815,400	762,620	-6.5%	-5,278	42,642	47,044	84,408
43-1000	Supervisors - Office & Administrative Support Workers	N/A	69,240	65,780	-5.0%	-346	2,825	3,618	6,097
43-1011	Supervisors - Office & Administrative Support Workers	WK EXP	69,240	65,780	-5.0%	-346	2,825	3,618	6,097
43-2000	Communications Equipment Operators	N/A	1,990	1,490	-25.1%	-50	81	96	127
43-2011	Switchboard Operators	ST OJT	1,750	1,320	-24.6%	-43	68	82	107
43-3000	Financial Clerks	N/A	121,450	112,640	-7.3%	-881	6,581	6,230	11,930
43-3011	Bill & Account Collectors	MT OJT	7,410	6,750	-8.9%	-66	344	407	685
43-3021	Billing & Posting Clerks	MT OJT	17,870	17,780	-0.5%	-8	844	979	1,815
43-3031	Bookkeeping, Accounting & Auditing Clerks	PS+	65,690	61,710	-6.1%	-397	4,130	3,247	6,980
43-3041	Gaming Cage Workers	ST OJT	140	130	-7.1%	-1	5	9	13
43-3051	Payroll & Timekeeping Clerks	MT OJT	7,070	5,930	-16.1%	-114	315	337	538
43-3061	Procurement Clerks	MT OJT	2,390	2,230	-6.7%	-17	70	145	198
43-3071	Tellers	ST OJT	20,560	17,780	-13.5%	-277	861	1,086	1,670
43-3099	Financial Clerks, Other	ST OJT	320	330	3.1%	0	12	21	33
43-4000	Information & Record Clerks	N/A	214,910	205,600	-4.3%	-931	11,781	15,354	26,204
43-4011	Brokerage Clerks	MT OJT	1,830	1,640	-10.4%	-19	90	106	177
43-4021	Correspondence Clerks	ST OJT	250	240	-4.0%	-1	12	16	27
43-4031	Court, Municipal & License Clerks	LT OJT	2,050	2,130	3.9%	7	108	100	215
43-4041	Credit Authorizers, Checkers & Clerks	MT OJT	390	380	-2.6%	0	14	18	32
43-4051	Customer Service Representatives	ST OJT	121,440	114,830	-5.4%	-661	6,603	9,264	15,206
43-4061	Eligibility Interviewers, Government Programs	MT OJT	8,460	8,750	3.4%	30	338	404	772
43-4071	File Clerks	ST OJT	2,730	2,290	-16.1%	-44	155	151	262
43-4081	Hotel, Motel & Resort Desk Clerks	ST OJT	7,810	7,710	-1.3%	-10	490	744	1,224
43-4111	Interviewers	ST OJT	4,880	4,240	-13.1%	-64	239	308	483

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43-4121	Library Assistants, Clerical	ST OJT	4,450	4,570	2.7%	12	446	336	794
43-4131	Loan Interviewers & Clerks	ST OJT	7,190	7,040	-2.1%	-15	240	345	570
43-4141	New Accounts Clerks	MT OJT	2,040	1,760	-13.7%	-28	60	112	144
43-4151	Order Clerks	PS	4,240	3,480	-17.9%	-76	186	251	361
43-4161	Human Resources Assistants	AD	4,330	4,150	-4.2%	-18	184	284	450
43-4171	Receptionists & Information Clerks	ST OJT	37,050	36,490	-1.5%	-56	2,327	2,556	4,827
43-4181	Reservation & Transportation Ticket Agents & Travel Clerks	ST OJT	2,930	3,000	2.4%	7	141	184	332
43-4199	Information & Record Clerks, Other	ST OJT	2,850	2,910	2.1%	6	149	176	331
43-5000	Material Recording, Scheduling, Dispatching & Distributing Workers	N/A	86,060	83,740	-2.7%	-232	3,632	4,455	7,855
43-5011	Cargo & Freight Agents	ST OJT	1,690	1,800	6.5%	12	69	106	187
43-5021	Couriers & Messengers	ST OJT	5,620	5,670	0.9%	4	272	330	606
43-5031	Police, Fire & Ambulance Dispatchers	MT OJT	3,360	3,480	3.6%	12	158	182	352
43-5032	Dispatchers	MT OJT	6,830	6,710	-1.8%	-12	270	363	621
43-5051	Postal Service Clerks	ST OJT	3,530	3,570	1.1%	3	174	127	304
43-5052	Postal Service Mail Carriers	ST OJT	13,230	13,350	0.9%	13	539	453	1,005
43-5061	Production, Planning & Expediting Clerks	MT OJT	11,330	11,670	3.0%	34	447	717	1,198
43-5071	Shipping, Receiving & Traffic Clerks	ST OJT	31,460	28,840	-8.3%	-262	1,243	1,795	2,776
43-5111	Weighers, Measurers, Checkers & Samplers, Recordkeeping	ST OJT	2,040	1,970	-3.4%	-7	108	137	238
43-6000	Secretaries & Administrative Assistants	N/A	139,450	125,630	-9.9%	-1,383	7,428	6,982	13,027
43-6011	Executive Secretaries & Executive Administrative Assistants	WK EXP	13,050	10,340	-20.8%	-271	528	659	916
43-6012	Legal Secretaries	MT OJT	7,100	5,600	-21.1%	-150	367	348	565
43-6013	Medical Secretaries	MT OJT	25,010	26,440	5.7%	143	1,364	1,303	2,810
43-6014	Secretaries	ST OJT	94,300	83,250	-11.7%	-1,105	5,168	4,672	8,735
43-9000	Other Office & Administrative Support Workers	N/A	182,300	167,740	-8.0%	-1,456	10,313	10,307	19,164
43-9021	Data Entry Keyers	ST OJT	7,640	5,710	-25.3%	-193	334	437	578
43-9022	Word Processors & Typists	ST OJT	5,070	3,150	-37.9%	-193	320	222	349
43-9031	Desktop Publishers	AD	120	100	-16.7%	-1	4	7	10
43-9041	Insurance Claims & Policy Processing Clerks	MT OJT	8,680	8,170	-5.9%	-51	339	420	708
43-9051	Mail Clerks & Mail Machine Operators	ST OJT	4,100	3,960	-3.4%	-14	266	256	508
43-9061	Office Clerks, General	ST OJT	149,060	139,740	-6.3%	-932	8,726	8,489	16,283
43-9071	Office Machine Operators	ST OJT	1,300	1,120	-13.8%	-18	71	91	144
43-9081	Proofreaders & Copy Markers	BD	260	250	-3.8%	-1	20	16	35
43-9111	Statistical Assistants	BD	340	330	-2.9%	-1	10	19	28

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			Estimated 2022	Projected 2032	Percent Change	Due to Growth ^{1/}	Due to Exits ^{2/}	Due to Transfers ^{3/}	Total Demand ^{4/}
43-9199	Office & Administrative Support Workers, Other	ST OJT	5,730	5,210	-9.1%	-52	222	350	520
45-0000	Farming, Fishing & Forestry Occupations	N/A	47,090	46,830	-0.6%	-26	2,634	4,233	6,841
45-1000	Supervisors - Farming, Fishing & Forestry Workers	N/A	2,570	2,690	4.7%	12	138	206	356
45-1011	Supervisors - Farm & Forestry Worker	WK EXP	2,570	2,690	4.7%	12	138	206	356
45-2000	Agricultural Workers	N/A	42,980	42,630	-0.8%	-35	2,420	3,880	6,265
45-2011	Agricultural Inspectors	BD+	410	420	2.4%	1	20	46	67
45-2021	Animal Breeders	ST OJT	490	510	4.1%	2	28	45	75
45-2041	Graders & Sorters, Agricultural Products	ST OJT	1,170	1,140	-2.6%	-4	63	103	162
45-2091	Agricultural Equipment Operators	MT OJT	2,850	3,160	10.9%	31	170	272	473
45-2092	Farmworkers & Laborers, Crop, Nursery & Greenhouse	ST OJT	24,470	24,260	-0.9%	-21	1,381	2,205	3,565
45-2093	Farmworkers, Farm, Ranch & Aquacultural Animals	ST OJT	13,150	12,700	-3.4%	-45	732	1,169	1,856
45-2099	Agricultural Workers, Other	ST OJT	430	440	2.3%	1	25	40	66
45-4000	Forest, Conservation & Logging Workers	N/A	1,490	1,470	-1.3%	-3	75	144	216
45-4011	Forest & Conservation Workers	MT OJT	220	210	-4.5%	-2	12	26	36
45-4022	Logging Equipment Operators	MT OJT	720	730	1.4%	0	36	67	103
45-4023	Log Graders & Scalers	MT OJT	300	290	-3.3%	0	15	27	42
47-0000	Construction & Extraction Occupations	N/A	251,960	259,950	3.2%	800	8,878	12,799	22,477
47-1000	Supervisors - Construction & Extraction Workers	N/A	28,850	29,680	2.9%	83	973	1,330	2,386
47-1011	Supervisors - Construction Trades & Extraction Workers	WK EXP	28,850	29,680	2.9%	83	973	1,330	2,386
47-2000	Construction Trades Workers	N/A	187,420	193,750	3.4%	633	6,337	9,479	16,449
47-2011	Boilermakers	LT OJT	130	120	-7.7%	-1	4	6	9
47-2021	Brickmasons & Blockmasons	LT OJT	3,800	3,850	1.3%	5	136	169	310
47-2031	Carpenters	LT OJT	37,440	37,940	1.3%	50	1,312	1,774	3,136
47-2041	Carpet Installers	ST OJT	1,240	1,100	-11.3%	-14	38	52	76
47-2042	Floor Layers	MT OJT	740	800	8.1%	6	25	35	66
47-2044	Tile & Marble Setters	LT OJT	1,130	1,230	8.8%	10	38	53	101
47-2051	Cement Masons & Concrete Finishers	MT OJT	5,120	5,020	-2.0%	-10	128	250	368
47-2061	Construction Laborers	ST OJT	48,830	51,190	4.8%	236	1,728	2,524	4,488
47-2071	Paving, Surfacing & Tamping Equipment Operators	MT OJT	500	520	4.0%	2	17	26	45
47-2072	Pile-Driver Operators	MT OJT	60	70	16.7%	0	2	3	5
47-2073	Operating Engineers & Other Construction Equipment Operators	MT OJT	23,760	24,540	3.3%	77	801	1,217	2,095
47-2081	Drywall & Ceiling Tile Installers	MT OJT	2,940	3,050	3.7%	11	72	125	208
47-2111	Electricians	LT OJT	22,620	24,200	7.0%	159	778	1,261	2,198

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47-2121	Glaziers	LT OJT	1,120	1,160	3.6%	4	47	64	115
47-2131	Insulation Workers, Floor, Ceiling & Wall	ST OJT	200	200	0.0%	1	6	9	16
47-2132	Insulation Workers, Mechanical	LT OJT	1,060	1,090	2.8%	3	31	50	84
47-2141	Painters, Construction & Maintenance	MT OJT	10,090	10,380	2.9%	30	348	437	815
47-2142	Paperhangers	LT OJT	110	110	0.0%	0	4	5	9
47-2151	Pipelayers	ST OJT	590	580	-1.7%	-1	13	30	42
47-2152	Plumbers, Pipefitters & Steamfitters	LT OJT	16,220	16,680	2.8%	46	518	882	1,446
47-2161	Plasterers & Stucco Masons	LT OJT	380	390	2.6%	2	12	15	29
47-2171	Reinforcing Iron & Rebar Workers	LT OJT	250	250	0.0%	0	9	11	20
47-2181	Roofers	MT OJT	4,610	4,740	2.8%	13	126	230	369
47-2211	Sheet Metal Workers	LT OJT	2,540	2,540	0.0%	0	93	137	230
47-2221	Structural Iron & Steel Workers	LT OJT	1,680	1,730	3.0%	4	43	102	149
47-3000	Helpers, Construction Trades	N/A	4,900	4,790	-2.2%	-11	173	358	520
47-3011	Helpers--Brick, Block, Stonemasons, Tile & Marble Setters	ST OJT	230	200	-13.0%	-3	8	16	21
47-3012	Helpers--Carpenters	ST OJT	880	830	-5.7%	-5	30	63	88
47-3013	Helpers--Electricians	ST OJT	2,050	1,980	-3.4%	-8	72	149	213
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters & Steamfitters	ST OJT	1,170	1,200	2.6%	3	42	88	133
47-3016	Helpers--Roofers	ST OJT	90	90	0.0%	0	3	7	10
47-3019	Helpers, Construction Trades, Other	ST OJT	460	480	4.3%	1	17	35	53
47-4000	Other Construction & Related Workers	N/A	22,700	23,660	4.2%	97	1,093	1,112	2,302
47-4011	Construction & Building Inspectors	WK EXP	5,880	5,820	-1.0%	-6	381	280	655
47-4021	Elevator Installers & Repairers	LT OJT	630	640	1.6%	1	18	32	51
47-4031	Fence Erectors	MT OJT	1,240	1,230	-0.8%	-1	33	68	100
47-4041	Hazardous Materials Removal Workers	MT OJT	1,730	1,690	-2.3%	-4	76	106	178
47-4051	Highway Maintenance Workers	MT OJT	10,700	11,660	9.0%	96	500	496	1,092
47-4061	Rail-Track Laying & Maintenance Equipment Operators	MT OJT	840	840	0.0%	0	21	37	58
47-4071	Septic Tank Servicers & Sewer Pipe Cleaners	MT OJT	1,310	1,390	6.1%	8	49	72	129
47-4090	Miscellaneous Construction & Related Workers	MT OJT	390	400	2.6%	1	14	21	36
47-5000	Extraction Workers	N/A	8,090	8,060	-0.4%	-2	302	519	819
47-5012	Rotary Drill Operators, Oil & Gas	MT OJT	70	70	0.0%	0	2	5	7
47-5013	Service Unit Operators, Oil, Gas & Mining	MT OJT	1,690	1,650	-2.4%	-3	50	119	166
47-5022	Excavating/Loading/Dragline Machine Oprs, Surface Mining	WK EXP	1,820	1,800	-1.1%	-2	84	97	179
47-5023	Earth Drillers	WK EXP	870	890	2.3%	2	41	47	90

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47-5032	Explosives Workers, Ordnance Handling Experts, & Blasters	WK EXP	230	230	0.0%	0	9	11	20
47-5041	Continuous Mining Machine Operators	MT OJT	530	540	1.9%	2	22	35	59
47-5044	Loading & Moving Machine Operators, Underground Mining	ST OJT	470	430	-8.5%	-4	18	30	44
47-5051	Rock Splitters, Quarry	ST OJT	280	290	3.6%	1	10	22	33
47-5071	Roustabouts, Oil & Gas	MT OJT	1,870	1,890	1.1%	2	56	134	192
49-0000	Installation, Maintenance & Repair Occupations	N/A	246,050	256,200	4.1%	1,015	9,563	12,106	22,684
49-1000	Supervisors - Installation, Maintenance & Repair Workers	N/A	22,630	23,240	2.7%	62	884	996	1,942
49-1011	Supervisors - Mechanics, Installers & Repairers	WK EXP	22,630	23,240	2.7%	62	884	996	1,942
49-2000	Electrical & Electronic Equipment Mechanics, Installers & Repairers	N/A	17,050	17,090	0.2%	5	602	1,024	1,631
49-2011	Computer, Automated Teller & Office Machine Repairers	PS	2,890	2,570	-11.1%	-32	94	168	230
49-2021	Radio, Cellular & Tower Equipment Installers & Repairers	AD+	350	370	5.7%	2	13	23	38
49-2022	Telecommunications Equipment Installers & Repairers	PS+	5,730	6,090	6.3%	36	210	383	629
49-2091	Avionics Technicians	AD	270	280	3.7%	1	14	10	25
49-2092	Electric Motor, Power Tool & Related Repairers	WK EXP	420	420	0.0%	1	14	18	33
49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equipment	PS+	2,310	2,300	-0.4%	-1	77	116	192
49-2095	Electrical & Electronics Repairers, Powerhouse, Substation & Relay	PS+	1,690	1,630	-3.6%	-6	55	84	133
49-2097	Electronic Home Entertainment Equipment Installers & Repairers	PS	330	320	-3.0%	-1	8	23	30
49-2098	Security & Fire Alarm Systems Installers	MT OJT	2,830	2,900	2.5%	7	109	187	303
49-3000	Vehicle & Mobile Equipment Mechanics, Installers	N/A	76,460	78,120	2.2%	165	2,772	3,781	6,718
49-3011	Aircraft Mechanics & Service Technicians	PS	2,850	2,960	3.9%	11	86	124	221
49-3021	Automotive Body & Related Repairers	LT OJT	6,340	6,430	1.4%	9	274	272	555
49-3022	Automotive Glass Installers & Repairers	MT OJT	560	570	1.8%	2	15	29	46
49-3023	Automotive Service Technicians & Mechanics	PS	35,970	36,780	2.3%	81	1,263	1,798	3,142
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	LT OJT	13,810	14,000	1.4%	20	497	647	1,164
49-3041	Farm Equipment Mechanics & Service Technicians	LT OJT	1,690	1,870	10.7%	18	58	88	164
49-3042	Mobile Heavy Equipment Mechanics	LT OJT	7,650	7,780	1.7%	14	250	383	647
49-3043	Rail Car Repairers	LT OJT	1,280	1,280	0.0%	0	42	64	106
49-3051	Motorboat Mechanics & Service Technicians	LT OJT	230	240	4.3%	1	12	11	24
49-3052	Motorcycle Mechanics	PS	680	680	0.0%	0	34	32	66
49-3053	Outdoor Power Equipment & Other Small Engine Mechanics	MT OJT	2,330	2,370	1.7%	4	119	112	235
49-3091	Bicycle Repairers	MT OJT	490	490	0.0%	0	19	35	54
49-3092	Recreational Vehicle Service Technicians	LT OJT	400	450	12.5%	4	17	30	51
49-3093	Tire Repairers & Changers	ST OJT	2,190	2,210	0.9%	2	87	156	245

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49-9000	Other Installation, Maintenance & Repair Occupations	N/A	129,920	137,750	6.0%	784	5,305	6,305	12,394
49-9011	Mechanical Door Repairers	MT OJT	1,340	1,490	11.2%	14	48	55	117
49-9012	Control & Valve Installers & Repairers	MT OJT	1,420	1,460	2.8%	4	49	56	109
49-9021	Heating, A/C & Refrigeration Mechanics & Installers	PS+	18,910	19,970	5.6%	107	609	1,003	1,719
49-9031	Home Appliance Repairers	MT OJT	1,110	1,090	-1.8%	-2	42	50	90
49-9041	Industrial Machinery Mechanics	LT OJT	18,720	21,940	17.2%	322	722	842	1,886
49-9043	Maintenance Workers, Machinery	LT OJT	2,530	2,730	7.9%	20	127	116	263
49-9044	Millwrights	LT OJT	1,120	1,170	4.5%	5	38	52	95
49-9051	Electrical Power-Line Installers & Repairers	LT OJT	4,240	4,460	5.2%	22	118	209	349
49-9052	Telecommunications Line Installers & Repairers	LT OJT	5,030	5,340	6.2%	30	160	297	487
49-9062	Medical Equipment Repairers	AD+	2,280	2,560	12.3%	28	93	126	247
49-9063	Musical Instrument Repairers & Tuners	LT OJT	310	310	0.0%	0	12	16	28
49-9069	Precision Instrument & Equipment Repairers, Other	LT OJT	550	550	0.0%	0	21	29	50
49-9071	Maintenance & Repair Workers, General	MT OJT	61,470	63,780	3.8%	231	2,758	2,858	5,847
49-9081	Wind Turbine Service Technicians	PS+	160	210	31.2%	5	7	10	22
49-9091	Coin, Vending & Amusement Machine Servicers & Repairers	ST OJT	2,620	2,550	-2.7%	-8	135	149	276
49-9094	Locksmiths & Safe Repairers	LT OJT	560	490	-12.5%	-6	31	26	51
49-9095	Manufactured Building & Mobile Home Installers	ST OJT	120	100	-16.7%	-3	4	6	7
49-9096	Riggers	MT OJT	260	260	0.0%	0	12	14	26
49-9097	Signal & Track Switch Repairers	MT OJT	80	80	0.0%	0	3	4	7
49-9098	Helpers--Installation, Maintenance & Repair Workers	ST OJT	1,780	1,830	2.8%	4	110	90	204
49-9099	Installation, Maintenance & Repair Workers, Other	MT OJT	5,210	5,330	2.3%	12	203	293	508
51-0000	Production Occupations	N/A	373,880	364,650	-2.5%	-923	16,169	23,286	38,532
51-1000	Supervisors - Production Workers	N/A	27,810	28,190	1.4%	38	1,009	1,581	2,628
51-1011	Supervisors - Production & Operating Workers	WK EXP	27,810	28,190	1.4%	38	1,009	1,581	2,628
51-2000	Assemblers & Fabricators	N/A	74,240	69,920	-5.8%	-432	3,165	4,444	7,177
51-2011	Aircraft Structure, Surfaces, Rigging & Systems Assemblers	MT OJT	710	600	-15.5%	-11	28	41	58
51-2028	Electrical, Electronic, & Electromechanical Assemblers	MT OJT	15,410	15,810	2.6%	40	774	872	1,686
51-2031	Engine & Other Machine Assemblers	MT OJT	290	270	-6.9%	-3	16	18	31
51-2041	Structural Metal Fabricators & Fitters	MT OJT	2,320	1,970	-15.1%	-35	80	140	185
51-2051	Fiberglass Laminators & Fabricators	MT OJT	650	660	1.5%	1	28	41	70
51-2090	Misc. Assemblers & Fabricators	MT OJT	54,680	50,460	-7.7%	-422	2,231	3,322	5,131
51-3000	Food Processing Workers	N/A	29,100	30,270	4.0%	117	1,804	2,258	4,179

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51-3011	Bakers	MT OJT	10,050	10,470	4.2%	42	725	771	1,538
51-3021	Butchers & Meat Cutters	LT OJT	3,460	3,490	0.9%	3	172	238	413
51-3022	Meat, Poultry & Fish Cutters & Trimmers	ST OJT	2,260	2,340	3.5%	7	114	157	278
51-3023	Slaughterers & Meat Packers	ST OJT	2,710	2,720	0.4%	1	134	186	321
51-3091	Food & Tobacco Roasting, Baking & Drying Machine Operators	MT OJT	960	990	3.1%	3	50	79	132
51-3092	Food Batchmakers	MT OJT	8,060	8,640	7.2%	58	537	702	1,297
51-3093	Food Cooking Machine Operators	MT OJT	900	910	1.1%	1	40	86	127
51-3099	Food Processing Workers, Other	MT OJT	700	720	2.9%	2	31	41	74
51-4000	Metal Workers & Plastic Workers	N/A	79,670	78,100	-2.0%	-157	2,905	4,773	7,521
51-4021	Extruding & Drawing Machine Operators	MT OJT	4,000	3,890	-2.8%	-11	153	249	391
51-4022	Forging Machine Operators	MT OJT	440	370	-15.9%	-7	16	25	34
51-4023	Rolling Machine Operators	MT OJT	1,590	1,400	-11.9%	-19	58	94	133
51-4031	Cutting, Punching & Press Machine Operators	MT OJT	6,450	5,930	-8.1%	-52	216	383	547
51-4032	Drilling & Boring Machine Tool Operators	MT OJT	210	180	-14.3%	-4	13	11	20
51-4033	Grinding, Lapping, Polishing & Buffing Machine Tool Operators	MT OJT	4,320	3,980	-7.9%	-34	165	270	401
51-4034	Lathe & Turning Machine Tool Operators	MT OJT	720	660	-8.3%	-6	47	40	81
51-4035	Milling & Planing Machine Operators	MT OJT	320	290	-9.4%	-4	21	18	35
51-4041	Machinists	LT OJT	12,930	13,360	3.3%	43	525	747	1,315
51-4051	Metal-Refining Furnace Operators	MT OJT	1,740	1,630	-6.3%	-11	51	114	154
51-4052	Pourers & Casters, Metal	MT OJT	1,060	1,010	-4.7%	-5	32	70	97
51-4062	Patternmakers	MT OJT	150	130	-13.3%	-2	4	8	10
51-4071	Foundry Mold & Coremakers	MT OJT	1,070	870	-18.7%	-20	31	55	66
51-4072	Molding, Coremaking & Casting Machine Operators	MT OJT	6,890	6,730	-2.3%	-16	216	386	586
51-4081	Multiple Machine Tool Operators	MT OJT	11,260	11,410	1.3%	14	447	644	1,105
51-4111	Tool & Die Makers	PS+	3,690	3,500	-5.1%	-18	181	188	351
51-4121	Welders, Cutters, Solderers & Brazers	MT OJT	17,220	17,640	2.4%	41	528	1,155	1,724
51-4122	Welding, Soldering & Brazing Machine Operators	MT OJT	1,010	960	-5.0%	-5	30	65	90
51-4191	Heat Treating Equipment Operators	MT OJT	1,490	1,350	-9.4%	-14	56	81	123
51-4192	Layout Workers	MT OJT	170	180	5.9%	0	7	10	17
51-4193	Plating & Coating Machine Operators	MT OJT	1,750	1,580	-9.7%	-18	66	95	143
51-4194	Tool Grinders, Filers & Sharpeners	MT OJT	150	140	-6.7%	-1	6	8	13
51-4199	Metal Workers & Plastic Workers, Other	MT OJT	990	920	-7.1%	-8	38	54	84
51-5100	Printing Workers	N/A	10,980	10,120	-7.8%	-86	482	628	1,024

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51-5111	Prepress Technician & Workers	PS	1,050	910	-13.3%	-13	58	63	108
51-5112	Printing Press Operators	MT OJT	8,180	7,720	-5.6%	-46	352	488	794
51-5113	Print Binding & Finishing Workers	MT OJT	1,750	1,490	-14.9%	-26	72	77	123
51-6000	Textile, Apparel & Furnishings Workers	N/A	14,790	13,960	-5.6%	-83	993	773	1,683
51-6011	Laundry & Dry-Cleaning Workers	ST OJT	5,340	5,330	-0.2%	-1	406	314	719
51-6021	Pressers: Textile, Garment & Related Materials	ST OJT	920	750	-18.5%	-17	61	44	88
51-6031	Sewing Machine Operators	ST OJT	4,180	3,840	-8.1%	-34	261	189	416
51-6041	Shoe & Leather Workers & Repairers	MT OJT	100	90	-10.0%	-1	6	5	10
51-6051	Sewers, Hand	MT OJT	250	220	-12.0%	-2	20	12	30
51-6052	Tailors, Dressmakers & Custom Sewers	MT OJT	1,100	970	-11.8%	-13	89	51	127
51-6061	Textile Bleaching & Dyeing Machine Operators	ST OJT	300	280	-6.7%	-2	15	16	29
51-6062	Textile Cutting Machine Operators	MT OJT	250	240	-4.0%	-1	13	14	26
51-6063	Textile Knitting & Weaving Machine Operators	ST OJT	760	740	-2.6%	-2	40	43	81
51-6064	Textile Winding, Twisting & Drawing Out Machine Operators	MT OJT	560	510	-8.9%	-5	28	30	53
51-6091	Extruding & Forming Machine Operators, Synthetic & Glass Fibers	MT OJT	200	190	-5.0%	-1	11	11	21
51-6093	Upholsterers	MT OJT	350	350	0.0%	0	15	17	32
51-6099	Textile, Apparel & Furnishings Workers, Other	ST OJT	210	210	0.0%	0	12	12	24
51-7000	Woodworkers	N/A	11,430	11,380	-0.4%	-5	471	668	1,134
51-7011	Cabinetmakers & Bench Carpenters	MT OJT	5,040	4,990	-1.0%	-6	207	274	475
51-7021	Furniture Finishers	ST OJT	940	940	0.0%	0	55	52	107
51-7041	Sawing Machine Operators, Wood	MT OJT	2,390	2,410	0.8%	2	105	161	268
51-7042	Woodworking Machine Operators	MT OJT	2,940	2,940	0.0%	-1	97	176	272
51-8000	Plant & System Operators	N/A	12,500	11,950	-4.4%	-54	456	675	1,077
51-8012	Power Distributors & Dispatchers	LT OJT	540	530	-1.9%	-1	16	28	43
51-8013	Power Plant Operators	LT OJT	1,100	970	-11.8%	-14	30	54	70
51-8021	Stationary Engineers & Boiler Operators	LT OJT	1,990	2,050	3.0%	6	92	116	214
51-8031	Water & Wastewater Treatment Plant & System Operators	LT OJT	6,160	5,800	-5.8%	-36	249	308	521
51-8092	Gas Plant Operators	LT OJT	1,020	960	-5.9%	-6	25	64	83
51-8093	Petroleum Pump System Operators, Refinery Operators & Gaugers	MT OJT	1,000	970	-3.0%	-3	25	64	86
51-8099	Plant & System Operators, Other	MT OJT	220	230	4.5%	1	6	15	22
51-9000	Other Production Occupations	N/A	113,370	110,760	-2.3%	-262	4,885	7,486	12,109
51-9011	Chemical Equipment Operators	MT OJT	5,700	5,380	-5.6%	-32	175	339	482
51-9012	Separating, Filtering, Clarifying, Precipitating & Still Machine Operators	MT OJT	2,310	2,340	1.3%	3	73	142	218

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			Estimated 2022	Projected 2032	Percent Change	Due to Growth ^{1/}	Due to Exits ^{2/}	Due to Transfers ^{3/}	Total Demand ^{4/}
51-9021	Crushing, Grinding & Polishing Machine Operators	MT OJT	1,480	1,460	-1.4%	-2	53	96	147
51-9022	Grinding & Polishing Workers, Hand	MT OJT	450	360	-20.0%	-9	15	26	32
51-9023	Mixing & Blending Machine Operators	MT OJT	4,630	4,630	0.0%	0	167	303	470
51-9031	Cutters & Trimmers, Hand	ST OJT	220	170	-22.7%	-5	9	12	16
51-9032	Cutting & Slicing Machine Operators	MT OJT	1,950	1,840	-5.6%	-11	89	114	192
51-9041	Extruding, Forming, Pressing & Compacting Machine Operators	MT OJT	2,420	2,450	1.2%	3	101	139	243
51-9051	Furnace, Kiln, Oven, Drier & Kettle Operators	MT OJT	540	550	1.9%	1	23	36	60
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	MT OJT	22,670	21,700	-4.3%	-98	930	1,600	2,432
51-9071	Jewelers & Precious Stone & Metal Workers	LT OJT	1,250	1,220	-2.4%	-4	94	71	161
51-9081	Dental Laboratory Technicians	MT OJT	1,070	1,020	-4.7%	-5	47	74	116
51-9082	Medical Appliance Technicians	MT OJT	670	690	3.0%	2	31	48	81
51-9083	Ophthalmic Laboratory Technicians	MT OJT	330	330	0.0%	1	15	23	39
51-9111	Packaging & Filling Machine Operators	MT OJT	20,020	20,770	3.7%	75	972	1,201	2,248
51-9123	Painting, Coating & Decorating Workers	MT OJT	90	90	0.0%	0	3	6	9
51-9124	Coating, Painting & Spraying Machine Setters/Oprs/Tenders	MT OJT	7,100	7,180	1.1%	9	215	422	646
51-9141	Semiconductor Processors	MT OJT	350	390	11.4%	3	15	24	42
51-9151	Photographic Process Workers & Processing Machine Operators	ST OJT	420	380	-9.5%	-4	15	37	48
51-9161	CNC Tool Operators	MT OJT	11,770	10,960	-6.9%	-81	355	671	945
51-9162	CNC Tool Programmers	PS+	980	1,150	17.3%	16	33	63	112
51-9191	Adhesive Bonding Machine Operators	MT OJT	560	570	1.8%	0	18	31	49
51-9192	Cleaning, Washing & Metal Pickling Equipment Operators	MT OJT	790	800	1.3%	1	33	52	86
51-9193	Cooling & Freezing Equipment Operators	MT OJT	180	200	11.1%	2	8	12	22
51-9194	Etchers & Engravers	MT OJT	220	210	-4.5%	0	22	11	33
51-9195	Molders, Shapers & Casters	LT OJT	2,500	2,610	4.4%	11	140	183	334
51-9196	Paper Goods Machine Operators	MT OJT	5,220	4,930	-5.6%	-29	214	358	543
51-9197	Tire Builders	MT OJT	380	380	0.0%	-1	14	24	37
51-9198	Helpers--Production Workers	ST OJT	12,870	11,710	-9.0%	-117	828	1,087	1,798
51-9199	Production Workers, Other	MT OJT	4,240	4,340	2.4%	10	178	281	469
53-0000	Transportation & Material Moving Occupations	N/A	584,940	611,250	4.5%	2,631	31,073	43,921	77,625
53-1000	Supervisors - Transportation & Material Moving Workers	N/A	24,310	25,380	4.4%	107	841	1,626	2,574
53-1041	Aircraft Cargo Handling Supervisors	WK EXP	450	470	4.4%	2	15	30	47
53-1047	Supervisors - Transportation & Material Moving Workers	WK EXP	23,870	24,910	4.4%	105	825	1,596	2,526
53-2000	Air Transportation Workers	N/A	4,890	5,170	5.7%	28	204	356	588

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53-2011	Airline Pilots, Copilots & Flight Engineers	BD+	1,760	1,820	3.4%	6	62	138	206
53-2012	Commercial Pilots	PS+	700	730	4.3%	3	25	55	83
53-2021	Air Traffic Controllers	AD+	690	710	2.9%	2	18	43	63
53-3000	Motor Vehicle Operators	N/A	199,640	209,660	5.0%	1,002	11,289	11,532	23,823
53-3011	Ambulance Drivers & Attendants	MT OJT	630	610	-3.2%	-2	26	60	84
53-3031	Driver/Sales Workers	ST OJT	16,900	17,760	5.1%	86	785	1,015	1,886
53-3032	Heavy & Tractor-Trailer Truck Drivers	PS	93,810	97,180	3.6%	338	4,323	5,594	10,255
53-3033	Light Truck or Delivery Services Drivers	ST OJT	45,480	47,780	5.1%	230	2,111	2,731	5,072
53-3051	Bus Drivers, School	ST OJT	20,610	21,920	6.4%	131	2,248	974	3,353
53-3052	Bus Drivers, Transit & Intercity	MT OJT	4,970	5,240	5.4%	27	407	239	673
53-3053	Shuttle Drivers & Chauffeurs	ST OJT	11,130	12,000	7.8%	86	990	583	1,659
53-3054	Taxi Drivers	ST OJT	4,420	5,360	21.3%	94	248	231	573
53-3099	Motor Vehicle Operators, Other	ST OJT	1,700	1,820	7.1%	12	151	105	268
53-4000	Rail Transportation Workers	N/A	5,530	5,530	0.0%	-1	144	300	443
53-4011	Locomotive Engineers	WK EXP	1,670	1,670	0.0%	0	48	83	131
53-4013	Rail Yard Engineers, Dinkey Operators & Hostlers	MT OJT	70	70	0.0%	0	2	3	5
53-4022	Railroad Brake/Signal/Switch Oprs & Locomotive Firers	MT OJT	390	390	0.0%	0	13	24	37
53-4031	Railroad Conductors & Yardmasters	MT OJT	3,340	3,340	0.0%	-1	79	185	263
53-5000	Water Transportation Workers	N/A	1,140	1,150	0.9%	1	44	74	119
53-5011	Sailors & Marine Oilers	MT OJT	310	310	0.0%	0	12	21	33
53-5021	Captains, Mates & Pilots of Water Vessels	PS+	700	710	1.4%	1	28	44	73
53-6000	Other Transportation Workers	N/A	6,760	6,950	2.8%	19	369	578	966
53-6021	Parking Lot Attendants	ST OJT	3,830	3,940	2.9%	11	212	342	565
53-6031	Automotive & Watercraft Service Attendants	ST OJT	1,550	1,580	1.9%	3	82	145	230
53-6032	Aircraft Service Attendants	ST OJT	220	230	4.5%	1	12	20	33
53-6051	Transportation Inspectors	MT OJT	490	500	2.0%	2	17	27	46
53-6061	Transportation Attendants	ST OJT	280	290	3.6%	2	31	16	49
53-6099	Transportation Workers, Other	ST OJT	210	210	0.0%	0	8	14	22
53-7000	Material Moving Workers	N/A	342,670	357,430	4.3%	1,476	18,183	29,456	49,115
53-7011	Conveyor Operators	ST OJT	810	840	3.7%	3	31	50	84
53-7021	Crane & Tower Operators	WK EXP	2,020	2,020	0.0%	0	67	119	186
53-7051	Industrial Truck & Tractor Operators	ST OJT	35,050	35,060	0.0%	0	1,124	2,240	3,364
53-7061	Cleaners of Vehicles & Equipment	ST OJT	12,860	13,380	4.0%	52	711	1,014	1,777

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53-7062	Laborers & Freight, Stock & Material Movers	ST OJT	150,410	156,080	3.8%	567	7,317	12,452	20,336
53-7063	Machine Feeders & Offbearers	ST OJT	2,920	3,140	7.5%	22	238	232	492
53-7064	Packers & Packers, Hand	ST OJT	30,500	31,290	2.6%	79	1,855	2,553	4,487
53-7065	Stockers & Order Fillers	ST OJT	101,890	109,260	7.2%	737	6,568	10,336	17,641
53-7071	Gas Compressor & Gas Pumping Station Operators	MT OJT	270	270	0.0%	0	9	18	27
53-7072	Pump Operators	MT OJT	470	480	2.1%	1	16	31	48
53-7073	Wellhead Pumpers	WK EXP	690	670	-2.9%	-2	24	45	67
53-7081	Refuse & Recyclable Material Collectors	ST OJT	4,460	4,620	3.6%	17	208	347	572
53-7121	Tank Car, Truck & Ship Loaders	ST OJT	100	100	0.0%	0	5	7	12
53-7199	Material Moving Workers, Other	ST OJT	160	160	0.0%	0	8	10	18

FOOTNOTES:

Data may not add to totals due to rounding. Confidential data and occupations with employment less than 50 are not shown but are included in all sub-total and total employment values.

1/ Demand due to employment growth measures the numerical change in projected number of job gains or losses.

2/ Demand due to exits measure the projected number of workers leaving an occupation and exiting the workforce entirely.

3/ Demand due to transfers are the projected number of workers leaving an occupation and transferring to a different occupation.

4/ Total demand is the projected number of openings (positions) for workers entering the occupation. Defined as the sum of the demand due to growth, exits, and transfers.