600		БТ	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
00-0000	Total, All Occupations	N/A	5,923,090	6,374,810	7.6%	45,172		401,647	712,098
11-0000	Management Occupations	N/A	329,650	358,770	8.8%	2,913	8,993	18,306	30,212
11-1000	Top Executives	N/A	95,660	102,520	7.2%	686	2,057	5,906	8,649
11-1011	Chief Executives	BD+	10,070	9,490	-5.8%	-59	267	394	602
11-1021	General & Operations Managers	BD+	83,640	90,970	8.8%	734	1,744	5,413	7,891
11-1031	Legislators	BD+	1,950	2,060	5.6%	11	46	98	155
11-2000	Advertising, Marketing, Promotions, Public Relations & Sales Managers	N/A	21,560	23,440	8.7%	188	460	1,415	2,063
11-2021	Marketing Managers	BD+	9,180	10,040	9.4%	87	192	606	885
11-2022	Sales Managers	BD+	9,930	10,730	8.1%	79	206	651	936
11-3000	Operations Specialties Managers	N/A	70,200	78,580	11.9%	838	1,522	3,924	6,284
11-3010	Administrative Services & Facilities Managers	BD+	8,610	9,280	7.8%	67	254	447	768
11-3021	Computer & Information Systems Managers	BD+	17,410	19,340	11.1%	193	298	1,044	1,535
11-3031	Financial Managers	BD+	21,700	25,660	18.2%	396	485	1,190	2,071
11-3051	Industrial Production Managers	BD+	7,180	7,600	5.8%	41	143	349	533
11-3061	Purchasing Managers	BD+	2,390	2,560	7.1%	17	54	134	205
11-3071	Transportation, Storage & Distribution Managers	WK EXP	5,310	5,870	10.5%	56	107	308	471
11-3111	Compensation & Benefits Managers	BD+	600	640	6.7%	4	13	32	49
11-3121	Human Resources Managers	BD+	5,840	6,380	9.2%	54	142	341	537
11-3131	Training & Development Managers	BD+	1,150	1,260	9.6%	11	26	80	117
11-9000	Other Management Occupations	N/A	142,230	154,230	8.4%	1,200	4,955	7,061	13,216
11-9013	Farmers, Ranchers & Other Agricultural Managers	WK EXP	34,260		-1.1%	-38	2,102	1,184	3,248
11-9021	Construction Managers	BD+	12,380	13,860	12.0%	148	270	664	1,082
11-9031	Education Admin., Preschool & Childcare Center/Program	BD+	2,650	2,910	9.8%	26	69	129	224
11-9032	Education Administrators, Elementary & Secondary School	MD+	8,080	8,530		44		386	635
11-9033	Education Administrators, Postsecondary	MD+	4,950	5,160	4.2%	20		235	380
11-9039	Education Administrators, Other	BD+	1,310	1,450	10.7%	14	34	64	112
11-9041	Architectural & Engineering Managers	BD+	6,470	6,730	4.0%	26	119	335	480
11-9051	Food Service Managers	WK EXP	7,670	8,790	14.6%	112	252	657	1,021
11-9071	Gaming Managers	WK EXP	60	80	33.3%	2	2	3	7
11-9081	Lodging Managers	WK EXP	1,190	1,250	5.0%	5	47	84	136
11-9111	Medical & Health Services Managers	BD+	17,890	23,830	33.2%	594	521	1,060	2,175
11-9121	Natural Sciences Managers	BD+	5,250	5,550	5.7%	30	106	265	401
11-9131	Postmasters & Mail Superintendents	WK EXP	760	700	-7.9%	-6	17	36	47
11-9141	Property, Real Estate & Community Association Managers	WK EXP	5,450	5,690	4.4%	25		210	
11-9151	Social & Community Service Managers	BD+	8,500	9,280	9.2%	77	267	476	820

600		БТ	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
11-9161	Emergency Management Directors	BD+	450		4.4%	2	17	22	41
11-9171	Funeral Home Managers	AD+	930		3.2%	3		46	71
11-9198	Misc. Personal Svc, Entertainment & Other Managers	BD+	24,000	25,140	4.8%	114	570	1,205	1,889
13-0000	Business & Financial Operations Occupations	N/A	307,330		7.7%	2,369	8,466	18,899	29,734
13-1000	Business Operations Specialists	N/A	191,990		8.8%	1,697	5,446	12,236	19,379
13-1020	Buyers & Purchasing Agents	BD+	15,510	14,770		-74		970	1,410
13-1031	Claims Adjusters, Examiners & Investigators	LT OJT	13,630	· · · · ·	-3.0%	-41	316	698	973
13-1032	Insurance Appraisers, Auto Damage	PS+	170		0.0%	0		9	13
13-1041	Compliance Officers	BD+	13,980	14,780	5.7%	80	347	766	1,193
13-1051	Cost Estimators	BD+	8,250	8,410	1.9%	16		503	754
13-1071	Human Resources Specialists	BD	25,550	28,020	9.7%	247	725	1,780	2,752
13-1075	Labor Relations Specialists	BD+	4,030	3,900	-3.2%	-13	107	263	357
13-1081	Logisticians	BD	7,170	8,490	18.4%	132	164	509	805
13-1111	Management Analysts	BD+	29,600	33,710	13.9%	411	1,018	1,821	3,250
13-1121	Meeting, Convention & Event Planners	BD	4,970	5,680	14.3%	71	159	391	621
13-1131	Fundraisers	BD	4,600	4,930	7.2%	32		303	483
13-1141	Compensation, Benefits & Job Analysis Specialists	BD+	3,950	4,430	12.2%	49	125	245	419
13-1151	Training & Development Specialists	BD+	9,760	10,700	9.6%	95	308	627	1,030
13-1161	Market Research Analysts & Marketing Specialists	BD	25,780	31,250	21.2%	547	676	2,084	3,307
13-1198	Project Mgmt & Other Business Oprs Specialists	BD	24,940	26,350	5.7%	141	595	1,258	1,994
13-2000	Financial Specialists	N/A	115,340	122,060	5.8%	672	3,020	6,663	10,355
13-2011	Accountants & Auditors	BD	55,210	59,120	7.1%	391	1,593	3,386	5,370
13-2020	Property Appraisers & Assessors	BD+	1,580	1,670	5.7%	9	-	59	130
13-2031	Budget Analysts	BD	1,890	1,990	5.3%	10		101	157
13-2041	Credit Analysts	BD	2,460	2,370	-3.7%	-9	41	162	194
13-2052	Personal Financial Advisors	BD+	11,980	12,710	6.1%	72	280	606	958
13-2053	Insurance Underwriters	BD+	4,600	4,440	-3.5%	-16		235	311
13-2061	Financial Examiners	BD+	1,790	2,150	20.1%	35	52	92	179
13-2071	Credit Counselors	BD+	1,180	1,250	5.9%	8	26	66	100
13-2072	Loan Officers	BD+	11,070	11,350	2.5%	27	241	610	878
13-2081	Tax Examiners, Collectors & Revenue Agents	BD+	2,910	2,920	0.3%	1	113	130	244
13-2082	Tax Preparers	MT OJT	2,610	2,700	3.4%	10	145	146	301
13-2098	Financial, Investment & Risk Specialists, All Other	BD	18,070	19,410	7.4%	133	329	1,070	1,532
15-0000	Computer & Mathematical Occupations	N/A	168,390	191,020	13.4%	2,263	3,682	8,852	14,797
15-1200	Computer Occupations	N/A	159,730	179,820	12.6%	2,010	3,483	8,401	13,894

GOG			Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	-	Level	2020	2030	Change		Exits ^{2/}		Demand ^{4/}
15-1211	Computer Systems Analysts	BD	22,030	,	7.6%	168			1,739
15-1212	Information Security Analysts	BD+	3,260		32.5%	105			372
15-1221	Computer & Information Research Scientists	MD	640		17.2%	12			59
15-1231	Computer Network Support Specialists	AD	8,060		8.9%	72			676
15-1232	Computer User Support Specialists	PS	25,070	27,530	9.8%	245	494	1,392	2,131
15-1241	Computer Network Architects	BD+	7,060	7,550	6.9%	49	101	332	482
15-1244	Network & Computer Systems Administrators	BD	11,610	12,220	5.3%	61	200	563	824
15-1245	Database Administrators & Architects	BD	7,640	8,280	8.4%	64	184	390	638
15-1251	Computer Programmers	BD	12,290	11,350	-7.6%	-94	236	540	682
15-1256	Software Developers & QA Analysts	BD	39,220	50,170	27.9%	1,095	1,036	2,192	4,323
15-1257	Web & Digital Interface Designers	BD	5,670	6,310	11.3%	64	139	294	497
15-1299	Computer Occupations, All Other	BD	17,180	18,860	9.8%	168	418	884	1,470
15-2000	Mathematical Scientists	N/A	8,670		29.2%	254		451	904
15-2011	Actuaries	BD+	1,520	1,900	25.0%	38	27	67	132
15-2021	Mathematicians	MD	110	120	9.1%	0	2	6	8
15-2031	Operations Research Analysts	BD	3,690	4,650	26.0%	96			368
15-2041	Statisticians	MD	3,000	4,120	37.3%	112	72	178	362
15-2098	Data Scientists & Math Science Workers, All Other	BD	340	410	20.6%	7	8	19	34
17-0000	Architecture & Engineering Occupations	N/A	102,710	,	5.9%	608	,	5,093	8,214
17-1000	Architects, Surveyors & Cartographers	N/A	7,480		2.4%	18		336	576
17-1011	Architects	BD+	4,480		4.0%	18		194	337
17-1012	Landscape Architects	BD+	930		-1.1%	-1	_	39	
17-1021	Cartographers & Photogrammetrists	BD	160		0.0%	0	-	•	14
17-1022	Surveyors	BD+	1,900	,	1.1%	2			163
17-2000	Engineers	N/A	68,260		7.8%	532	,	3,020	5,009
17-2011	Aerospace Engineers	BD	860		11.6%	10			60
17-2031	Biomedical Engineers	BD	1,170	,	5.1%	6	-		80
17-2041	Chemical Engineers	BD	930	1,020	9.7%	9	1		
17-2051	Civil Engineers	BD	11,750	12,780	8.8%	102	244	611	957
17-2061	Computer Hardware Engineers	BD	2,400	2,490	3.8%	10		115	171
17-2071	Electrical Engineers	BD	8,920		8.4%	75		372	668
17-2072	Electronics Engineers	BD	3,550	3,910	10.1%	36		149	274
17-2081	Environmental Engineers	BD	2,460		4.1%	10			191
17-2111	Health & Safety Engineers	BD	1,210		6.6%	9			
17-2112	Industrial Engineers	BD	10,250	11,550	12.7%	131	238	436	805

000		БТ	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
17-2121	Marine Engineers & Naval Architects	BD	100		0.0%	0	1	4	5
17-2131	Materials Engineers	BD	1,670	1,850	10.8%	18			123
17-2141	Mechanical Engineers	BD	15,600	16,700	7.1%	110	278		1,053
17-2151	Mining & Geological Engineers	BD	220	220	0.0%	0	-	- •	
17-2161	Nuclear Engineers	BD	900	760	-15.6%	-14			38
17-2171	Petroleum Engineers	BD	780	790	1.3%	1	15		51
17-2199	Engineers, Other	BD	5,460	5,680	4.0%	21	118		369
17-3000	Drafters, Engineering & Mapping Technicians	N/A	26,970	27,550	2.2%	58		1,737	2,629
17-3011	Architectural & Civil Drafters	AD	5,050		2.2%	11	157	324	492
17-3012	Electrical & Electronics Drafters	AD	1,120	1,190	6.2%	6			114
17-3013	Mechanical Drafters	AD	2,910	2,800	-3.8%	-11	88	181	258
17-3022	Civil Engineering Technicians	AD	2,010	2,030	1.0%	2	61	124	187
17-3023	Electrical & Electronic Engineering Technicians	AD	4,180	4,190	0.2%	0	126	257	383
17-3024	Electro-Mechanical Technicians	AD	650	670	3.1%	1	20	41	62
17-3025	Environmental Engineering Technicians	AD	450	480	6.7%	3	14	28	45
17-3026	Industrial Engineering Technicians	AD	1,940	2,050	5.7%	11	60	123	194
17-3027	Mechanical Engineering Technicians	AD	2,300	2,430	5.7%	13	71	145	229
17-3031	Surveying & Mapping Technicians	MT OJT	1,620	1,660	2.5%	4	58	142	204
17-3098	Calibration & Engineering Techs, All Other	AD	4,390	4,570	4.1%	18	135	276	429
19-0000	Life, Physical & Social Science Occupations	N/A	56,570	61,040	7.9%	448	1,189	4,118	5,755
19-1000	Life Scientists	N/A	14,250		11.9%	170			1,360
19-1011	Animal Scientists	BD	220	230	4.5%	1	5	-	24
19-1012	Food Scientists & Technologists	BD	410	440	7.3%	2	9		46
19-1013	Soil & Plant Scientists	BD	300	330	10.0%	2		-	
19-1021	Biochemists & Biophysicists	DOCT	1,810	1,880	3.9%	7	30		
19-1022	Microbiologists	BD	710		4.2%	4	12	51	67
19-1023	Zoologists & Wildlife Biologists	BD	280	280	0.0%	0	4	20	24
19-1029	Biological Scientists, Other	BD	1,080	1,090	0.9%	2	18	76	
19-1031	Conservation Scientists	BD	910	950	4.4%	4	18	66	88
19-1032	Foresters	BD	390	410	5.1%	2	8	28	38
19-1041	Epidemiologists	MD	120	160	33.3%	4	2	8	14
19-1042	Medical Scientists	DOCT	7,860	9,270	17.9%	141	114	493	748
19-1099	Life Scientists, Other	BD	170	180	5.9%	1	2	10	13
19-2000	Physical Scientists	N/A	10,090	10,820	7.2%	73	161	772	1,006
19-2012	Physicists	DOCT	420	460	9.5%	4	8	21	33

600		БТ	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
19-2021	Atmospheric & Space Scientists	BD	300		10.0%	3	5		29
19-2031	Chemists	BD	5,130	5,470	6.6%	34	78	393	505
19-2032	Materials Scientists	BD	290	300	3.4%	2			28
19-2041	Environmental Scientists & Specialists	BD	2,060	2,240	8.7%	18			225
19-2042	Geoscientists	BD	1,150	1,250	8.7%	10	20	96	126
19-2099	Physical Scientists, Other	BD	630	650	3.2%	2	8	40	50
19-3000	Social Scientists & Related Workers	N/A	11,080	11,880	7.2%	80	265		943
19-3011	Economists	MD	530	560	5.7%	4	10		42
19-3022	Survey Researchers	MD	2,230	,	12.1%	27	52	155	234
19-3031	Clinical, Counseling & School Psychologists	DOCT	4,830	5,210	7.9%	38	131	196	365
19-3032	Industrial-Organizational Psychologists	MD+	170	170	0.0%	1	4	7	12
19-3039	Psychologists, Other	MD+	550	560	1.8%	1	14		37
19-3051	Urban & Regional Planners	MD	1,380	1,460	5.8%	8	22	98	128
19-3091	Anthropologists & Archeologists	MD	140	140	0.0%	0	3	9	12
19-3092	Geographers	BD	50	50	0.0%	0	1	4	5
19-3093	Historians	MD	140	150	7.1%	1	3	10	14
19-3094	Political Scientists	MD	200	210	5.0%	1	4	14	19
19-3099	Social Scientists & Related Workers, Other	BD	850	850	0.0%	0	-		74
19-4000	Life, Physical & Social Science Technicians	N/A	15,810	16,620	5.1%	81	384	1,548	2,013
19-4010	Agricultural & Food Science Technicians	AD+	980	1,050	7.1%	7	22		135
19-4021	Biological Technicians	BD	4,420		5.0%	22			583
19-4031	Chemical Technicians	AD+	3,230	3,380	4.6%	15			371
19-4042	Environmental Science & Protection Technicians	AD	1,340	1,440	7.5%	11	37	130	
19-4045	Geological & Hydrologic Technicians	AD+	420	430	2.4%	1	11	40	
19-4051	Nuclear Technicians	AD+	450	380	-15.6%	-7	11	39	43
19-4061	Social Science Research Assistants	BD	1,260	1,340	6.3%	8			165
19-4071	Forest & Conservation Technicians	AD	1,070	1,080	0.9%	1	29	101	131
19-4092	Forensic Science Technicians	BD+	280	330	17.9%	4	8	29	41
19-4099	Life, Physical & Social Science Technicians, Other	AD	2,360	2,550	8.1%	19	66	231	316
19-5000	Occupational Health & Safety Specialists & Technicians	N/A	5,330	5,770	8.3%	44	152	239	435
19-5011	Occupational Health & Safety Specialists	BD	4,680	5,070	8.3%	39	133	210	382
19-5012	Occupational Health & Safety Technicians	MT OJT	650	700	7.7%	5	18	29	52
21-0000	Community & Social Services Occupations	N/A	129,510	142,510	10.0%	1,300	4,553	8,687	14,540
21-1000	Counselors, Social Workers & Community Service Specialists	N/A	108,860	121,550	11.7%	1,270	3,655	7,349	12,274
21-1012	Educational, Guidance, School & Vocational Counselors	MD	7,860	8,460	7.6%	60	266	483	809

and		E.L	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030			Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
21-1013	Marriage & Family Therapists	MD+	2,300	,	12.6%	29	80	145	254
21-1015	Rehabilitation Counselors	MD	7,160		6.8%	49	241	439	729
21-1018	Substance Abuse, Behavioral Disorder, & Mental Health Counselors	BD	23,260	27,640	18.8%	438	828	1,508	2,774
21-1019	Counselors, Other	MD	940	/	6.4%	6		57	95
21-1021	Child, Family & School Social Workers	BD	20,600	22,440	8.9%	184	603	1,360	2,147
21-1022	Healthcare Social Workers	MD+	7,530	8,380	11.3%	85	223	503	811
21-1023	Mental Health & Substance Abuse Social Workers	MD+	9,670	10,890	12.6%	123	288	650	1,061
21-1029	Social Workers, Other	BD	1,820	1,880	3.3%	6	52	117	175
21-1091	Health Educators	BD	2,340	2,570	9.8%	23	83	169	275
21-1092	Probation Officers & Correctional Treatment Specialists	BD	4,290	4,520	5.4%	22	95	265	382
21-1093	Social & Human Service Assistants	ST OJT	16,970	18,800	10.8%	183	713	1,349	2,245
21-1094	Community Health Workers	ST OJT	2,620	3,130	19.5%	51	98	198	347
21-1099	Community & Social Service Specialists, Other	BD	1,510	1,620	7.3%	11	53	108	172
21-2000	Religious Workers	N/A	20,650	20,960	1.5%	31	898	1,338	2,267
21-2011	Clergy	BD+	11,260	11,460	1.8%	21	466	656	1,143
21-2021	Directors, Religious Activities & Education	BD+	6,610	6,690	1.2%	8	265	484	757
21-2099	Religious Workers, Other	BD	2,790		0.7%	2	167	197	366
23-0000	Legal Occupations	N/A	48,600			482	1,386	1,946	3,814
23-1000	Lawyers, Judges & Related Workers	N/A	32,900	/	9.7%	319	755	862	1,936
23-1011	Lawyers	DOCT	30,730	· · · · · · · · · · · · · · · · · · ·	10.1%	309	698	795	1,802
23-1012	Judicial Law Clerks	DOCT	970		5.2%	6	31	38	75
23-1021	Administrative Law Judges, Adjudicators & Hearing Officers	DOCT	810		3.7%	3	18	20	41
23-1022	Arbitrators, Mediators & Conciliators	BD+	170			1	4	4	9
23-1023	Judges, Magistrate Judges & Magistrates	DOCT	220			1	5	6	12
23-2000	Legal Support Workers	N/A	15,700			163	630	1,083	1,876
23-2011	Paralegals & Legal Assistants	AD	12,110		13.5%	164	500	872	1,536
23-2093	Title Examiners, Abstractors & Searchers	MT OJT	2,430		-0.4%	-1	88	142	229
23-2099	Legal Support Workers, Other	AD	1,170	,	0.0%	0		68	110
25-0000	Education, Training & Library Occupations	N/A	322,980	347,680	7.6%	2,469	13,334	15,198	31,001
25-1000	Postsecondary Teachers	N/A	63,460		7.9%	499	2,950	3,082	6,531
25-1011	Business Teachers, Postsecondary	DOCT	4,870		3.3%	16		231	469
25-1021	Computer Science Teachers, Postsecondary	DOCT	1,760	,		7	80	84	171
25-1022	Mathematical Science Teachers, Postsecondary	DOCT	2,070		4.3%	9		99	202
25-1031	Architecture Teachers, Postsecondary	DOCT	340			1	15	16	32
25-1032	Engineering Teachers, Postsecondary	DOCT	3,320	3,600	8.4%	28	155	162	345

co.c		Educe Employment Outlook						Annual Demand					
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total				
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}				
25-1042	Biological Science Teachers, Postsecondary	DOCT	2,690			26	126	132	284				
25-1051	Atmospheric, Earth, Marine & Space Sciences Teachers, Postsecondary	DOCT	830	860	3.6%	3	38		81				
25-1052	Chemistry Teachers, Postsecondary	DOCT	1,510	1,580	4.6%	7	69	72	148				
25-1053	Environmental Science Teachers, Postsecondary	DOCT	200	210	5.0%	1	9	-					
25-1054	Physics Teachers, Postsecondary	DOCT	830	870	4.8%	4	38	40					
25-1061	Anthropology & Archeology Teachers, Postsecondary	DOCT	300	310	3.3%	1	14	14	29				
25-1062	Area, Ethnic & Cultural Studies Teachers, Postsecondary	DOCT	540	560	3.7%	3	25						
25-1063	Economics Teachers, Postsecondary	DOCT	730	760	4.1%	4	33	35					
25-1064	Geography Teachers, Postsecondary	DOCT	230	230	0.0%	0	10	11	21				
25-1065	Political Science Teachers, Postsecondary	DOCT	850	890	4.7%	4	39		84				
25-1066	Psychology Teachers, Postsecondary	DOCT	2,200	2,360	7.3%	15	102	106	223				
25-1067	Sociology Teachers, Postsecondary	DOCT	580	610	5.2%	3	26	28	57				
25-1069	Social Sciences Teachers, Postsecondary, Other	DOCT	430	450	4.7%	1	20	21	42				
25-1071	Health Specialties Teachers, Postsecondary	DOCT	9,040	10,850	20.0%	181	445	465	1,091				
25-1072	Nursing Instructors & Teachers, Postsecondary	DOCT	2,840	3,410	20.1%	57	140	146	343				
25-1081	Education Teachers, Postsecondary	DOCT	2,500	2,600	4.0%	10	114	119	243				
25-1082	Library Science Teachers, Postsecondary	DOCT	240	240	0.0%	0	11	11	22				
25-1111	Criminal Justice & Law Enforcement Teachers, Postsecondary	DOCT	800	880	10.0%	8	38	39	85				
25-1112	Law Teachers, Postsecondary	DOCT	580	620	6.9%	4	27	28	59				
25-1113	Social Work Teachers, Postsecondary	DOCT	670	700	4.5%	3	30	32	65				
25-1121	Art, Drama & Music Teachers, Postsecondary	MD	4,120	4,430	7.5%	31	191	200					
25-1122	Communications Teachers, Postsecondary	DOCT	1,480	1,540	4.1%	6	67	70	143				
25-1123	English Language & Literature Teachers, Postsecondary	DOCT	3,500	3,650	4.3%	15	160	167	342				
25-1124	Foreign Language & Literature Teachers, Postsecondary	DOCT	1,350	1,420	5.2%	7	62	65	134				
25-1125	History Teachers, Postsecondary	DOCT	990	1,040	5.1%	5	45	47	97				
25-1126	Philosophy & Religion Teachers, Postsecondary	DOCT	940	1,010	7.4%	6	44	45	95				
25-1193	Recreation & Fitness Studies Teachers, Postsecondary	DOCT	660	690	4.5%	3	30	31	64				
25-1194	Vocational Education Teachers, Postsecondary	BD+	4,170	4,330	3.8%	17	190	199	406				
25-1199	Postsecondary Teachers, Other	DOCT	5,050	5,190	2.8%	14	229	239	482				
25-2000	Primary, Secondary & Special Education School Teachers	N/A	162,340	172,810	6.4%	1,047	5,161	7,115	13,323				
25-2011	Preschool Teachers	AD	16,140	18,810	16.5%	267	716	1,019	2,002				
25-2012	Kindergarten Teachers	BD	3,160	3,340	5.7%	18	133	190	341				
25-2021	Elementary School Teachers	BD	50,980	53,590	5.1%	261	1,605	2,095	3,961				
25-2022	Middle School Teachers	BD	22,000	23,140	5.2%	114	693	904	1,711				
25-2023	Career/Technical Education Teachers, Middle School	BD+	420	440	4.8%	2	13	17	32				

and		E I	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	•	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
25-2031	Secondary School Teachers	BD	49,250	51,990	5.6%	274	1,343	2,053	3,670
25-2032	Career/Technical Education Teachers, Secondary School	BD+	3,850	4,040	4.9%	19	105	160	284
25-2051	Special Education Teachers, Preschool	BD	420	470	11.9%	6		18	38
25-2052	Special Education Teachers, Kindergarten & Elementary School	BD	5,570	5,870	5.4%	30	186	228	444
25-2057	Special Education Teachers, Middle School	BD	2,590	2,720	5.0%	13	86	106	205
25-2058	Special Education Teachers, Secondary School	BD	7,660	8,070	5.4%	42	256	313	611
25-2059	Special Education Teachers, Other	BD	300	330	10.0%	3	10	13	26
25-3000	Other Teachers & Instructors	N/A	33,190	38,250	15.2%	506	2,132	1,914	4,552
25-3011	Adult Basic & Secondary Education & Literacy Teachers	BD	920	870	-5.4%	-5	54	48	97
25-3021	Self-Enrichment Education Teachers	WK EXP	12,430	14,950	20.3%	252	817	734	1,803
25-3031	Substitute Teachers, Short-Term	BD	12,460	13,810	10.8%	135	784	704	1,623
25-3097	Teachers & Instructors, Other	BD	7,380	8,620		124	477	429	1,030
25-4000	Librarians, Curators & Archivists	N/A	8,400	8,820	5.0%	42	479	430	951
25-4011	Archivists	MD	280	290	3.6%	1	14	17	32
25-4012	Curators	MD	540	560	3.7%	2		33	63
25-4013	Museum Technicians & Conservators	BD	630	660	4.8%	4	32	39	75
25-4022	Librarians & Media Collections Specialists	MD	5,320	5,670	6.6%	35	271	240	546
25-4031	Library Technicians	PS	1,630	1,630	0.0%	0	134	100	234
25-9000	Other Education, Training & Library Occupations	N/A	55,600	59,340	6.7%	374	2,612	2,658	5,644
25-9031	Instructional Coordinators	MD+	6,020	6,530	8.5%	51	309	274	634
25-9045	Teaching Assistants, Non-Postsecondary	PS	45,550		6.9%	315	2,108	2,202	4,625
25-9099	Education, Training & Library Workers, Other	BD	1,880	2,000	6.4%	12	96	85	193
27-0000	Arts, Design, Entertainment, Sports & Media Occupations	N/A	76,840	84,960	10.6%	812	3,068	5,085	8,965
27-1000	Art & Design Workers	N/A	23,880		4.8%	115	847	1,413	2,375
27-1011	Art Directors	BD+	2,490	2,770	11.2%	28	127	137	292
27-1013	Fine Artists	BD+	890	1,040	16.9%	15	47	50	112
27-1014	Multimedia Artists & Animators	BD	1,320	1,540	16.7%	22	69	74	165
27-1019	Artists & Related Workers, Other	LT OJT	330	340	3.0%	1	16	17	34
27-1021	Commercial & Industrial Designers	BD	890	960	7.9%	7	28	55	90
27-1023	Floral Designers	MT OJT	1,500	1,380	-8.0%	-12	44	86	118
27-1024	Graphic Designers	BD	8,910	9,200	3.3%	28	276	538	842
27-1025	Interior Designers	BD	1,850	1,890	2.2%	3	57	111	171
27-1026	Merchandise Displayers & Window Trimmers	ST OJT	4,420	4,570	3.4%	15	137	267	419
27-1027	Set & Exhibit Designers	BD	250	270	8.0%	3	8	16	
27-1029	Designers, Other	BD	300	310	3.3%	0	9	18	27

GOG		E I	Emplo	yment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
27-2000	Entertainers & Performers, Sports & Related Workers	N/A	21,410	24,860	16.1%	346	1,188	1,582	3,116
27-2011	Actors	PS+	1,380	1,810	31.2%	43	67	106	216
27-2012	Producers & Directors	BD+	3,040	3,560	17.1%	52		208	332
27-2021	Athletes & Sports Competitors	LT OJT	960	1,220	27.1%	27	62	88	177
27-2022	Coaches & Scouts	BD	7,580	9,130	20.4%	155	475	672	1,302
27-2023	Umpires, Referees & Other Sports Officials	MT OJT	290	380	31.0%	10	19	27	56
27-2031	Dancers	LT OJT	90	110	22.2%	2	6	10	
27-2032	Choreographers	WK EXP	60	70	16.7%	1	4	7	12
27-2041	Music Directors & Composers	BD+	2,060	2,160	4.9%	10		118	252
27-2042	Musicians & Singers	LT OJT	5,770	6,180	7.1%	41	351	335	727
27-2090	Entertainers, Performers, Sports & Related Workers	ST OJT	180	230	27.8%	5	8	11	24
27-3000	Media & Communication Workers	N/A	22,330	24,180	8.3%	185	732	1,438	2,355
27-3011	Radio & Television Announcers	BD	910	960	5.5%	5	36	51	92
27-3023	News Analysts, Reporters & Journalists	BD	1,330	1,330	0.0%	0		102	142
27-3031	Public Relations Specialists	BD	7,690	8,380	9.0%	70		528	799
27-3041	Editors	BD+	3,240	3,280	1.2%	4	107	204	315
27-3042	Technical Writers	BD+	2,320	2,590	11.6%	27	64	153	244
27-3043	Writers & Authors	BD+	4,370	4,700	7.6%	33	182	249	464
27-3091	Interpreters & Translators	BD	1,190	1,460	22.7%	27	51	72	150
27-3092	Court Reporters & Simultaneous Captioners	PS	860	920	7.0%	6		52	90
27-3099	Media & Communication Workers, Other	ST OJT	420	560	33.3%	14	19	27	60
27-4000	Media & Communication Equipment Workers	N/A	9,240	10,900	18.0%	166	302	651	1,119
27-4011	Audio & Video Equipment Technicians	PS	2,530	3,200	26.5%	67	75	210	
27-4012	Broadcast Technicians	AD	800	860	7.5%	5	22	61	88
27-4021	Photographers	MT OJT	3,720	4,330	16.4%	61	136	226	423
27-4031	Camera Operators: TV, Video & Motion Picture	BD	1,040	1,230	18.3%	18		71	125
27-4032	Film & Video Editors	BD	410	510	24.4%	10		28	52
29-0000	Healthcare Practitioners & Technical Occupations	N/A	410,120	452,590	10.4%	4,247	10,884	12,915	28,046
29-1000	Health Diagnosing & Treating Practitioners	N/A	271,750	301,380	10.9%	2,962	6,792	6,800	16,554
29-1011	Chiropractors	DOCT	1,940	2,110	8.8%	16		16	
29-1021	Dentists, General	DOCT	4,000	4,440	11.0%	44	78	35	157
29-1022	Oral & Maxillofacial Surgeons	DOCT	330	370	12.1%	4	6	3	
29-1023	Orthodontists	DOCT	320	360	12.5%	4	6	3	13
29-1031	Dietitians & Nutritionists	BD+	3,980	4,440	11.6%	47	136	146	329
29-1041	Optometrists	DOCT	1,660	1,770	6.6%	11	30	21	62

0.00		E I	Emplo	oyment Out	look		Annual Demand				
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total		
Code	•	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}		
29-1051	Pharmacists	DOCT	15,440		0.4%	6	285	297	588		
29-1071	Physician Assistants	MD	7,370	9,840	33.5%	247	134	339	720		
29-1081	Podiatrists	DOCT	660	650	-1.5%	-1	18	28	45		
29-1122	Occupational Therapists	MD	7,590	8,930	17.7%	134		270	582		
29-1123	Physical Therapists	DOCT	11,970	14,320	19.6%	235	260	273	768		
29-1124	Radiation Therapists	AD	600	650	8.3%	4		20	36		
29-1125	Recreational Therapists	BD	970	1,030	6.2%	6		44	81		
29-1126	Respiratory Therapists	AD	6,160	7,520	22.1%	136	146	172	454		
29-1127	Speech-Language Pathologists	MD+	6,230	7,900	26.8%	167	164	253	584		
29-1128	Exercise Physiologists	BD	740	840	13.5%	10	24	27	61		
29-1129	Therapists, Other	BD	560	650	16.1%	9	18	21	48		
29-1131	Veterinarians	DOCT	3,770	4,320	14.6%	55	64	63	182		
29-1141	Registered Nurses	BD	147,280	160,380	8.9%	1,310	4,104	3,870	9,284		
29-1151	Nurse Anesthetists	MD	2,240	2,530	12.9%	29	47	72	148		
29-1161	Nurse Midwives	MD	350	400	14.3%	5	8	12	25		
29-1171	Nurse Practitioners	MD	6,210	8,240	32.7%	203	151	227	581		
29-1181	Audiologists	DOCT	530	590	11.3%	6	12	11	29		
29-1211	Anesthesiologists	DOCT	1,060	1,080	1.9%	3	17	12	32		
29-1215	Family Medicine Physicians	DOCT	3,710	3,970	7.0%	26		43	131		
29-1216	General Internal Medicine Physicians	DOCT	1,280	1,250	-2.3%	-3	20	14	31		
29-1218	Obstetricians & Gynecologists	DOCT	410	410	0.0%	0	7	5	12		
29-1221	Pediatricians, General	DOCT	410	420	2.4%	1	7	5	13		
29-1223	Psychiatrists	DOCT	1,350	1,530	13.3%	18		16			
29-1228	Physicians & Ophthalmologists, All Other	DOCT	23,230	24,570	5.8%	133	384	269	786		
29-1292	Dental Hygienists	AD	6,510	7,440	14.3%	93	250	175	518		
29-1298	Acupuncturists & Other Healthcare Practitioners	MD	1,140	1,170	2.6%	2	50	18	70		
29-2000	Health Technologists & Technicians	N/A	135,380	147,810	9.2%	1,243	4,005	5,978	11,226		
29-2010	Clinical Laboratory Technologists & Technicians	BD	13,860	15,040	8.5%	118	373	536	1,027		
29-2031	Cardiovascular Technologists & Technicians	AD	3,760	4,100	9.0%	34	107	169	310		
29-2032	Diagnostic Medical Sonographers	AD	2,960	3,470	17.2%	50	88	138	276		
29-2033	Nuclear Medicine Technologists	AD	920	970	5.4%	6	26	40	72		
29-2034	Radiologic Technologists	AD	10,170	10,890	7.1%	72	287	452	811		
29-2035	Magnetic Resonance Imaging Technologists	AD+	1,600	1,690	5.6%	9	45	71	125		
29-2040	Emergency Medical Technicians & Paramedics	PS	14,310	15,130	5.7%	82	273	682	1,037		
29-2051	Dietetic Technicians	AD	800	870	8.8%	8	23	36	67		

0.00		БТ	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	•	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
29-2052	Pharmacy Technicians	MT OJT	19,460	20,990	7.9%	153	552	869	1,574
29-2053	Psychiatric Technicians	PS+	2,590	2,750	6.2%	16		115	204
29-2055	Surgical Technologists	PS	4,230	4,560	7.8%	33	120	189	342
29-2056	Veterinary Technologists & Technicians	AD	4,520	5,080	12.4%	56	131	206	393
29-2057	Ophthalmic Medical Technicians	PS	1,380	1,590	15.2%	21	40	64	125
29-2061	Licensed Practical & Licensed Vocational Nurses	PS	37,620	41,950	11.5%	433	1,342	1,661	3,436
29-2081	Opticians, Dispensing	LT OJT	2,420	2,590	7.0%	17	104	86	207
29-2091	Orthotists & Prosthetists	MD+	530	650	22.6%	11	16	25	52
29-2092	Hearing Aid Specialists	MT OJT	260	300	15.4%	3	8	12	23
29-2098	Medical Dosimetrists, Records Specialists & Other Techs	PS	13,980	15,190	8.7%	121	398	627	1,146
29-9000	Other Healthcare Practitioners & Technical Occupations	N/A	2,990	3,400	13.7%	41	87	137	265
29-9091	Athletic Trainers	BD	1,570	1,840	17.2%	27	46	73	146
31-0000	Healthcare Support Occupations	N/A	323,520	383,090	18.4%	5,957	21,206	21,284	48,447
31-1100	Nursing, Psychiatric, & Home Health Aides	N/A	254,670	301,880	18.5%	4,720	17,815	15,756	38,291
31-1120	Home Health & Personal Care Aides	ST OJT	175,140	214,740	22.6%	3,960	12,480	11,038	27,478
31-1131	Nursing Assistants	PS	74,810	82,140	9.8%	733	5,024	4,443	10,200
31-1132	Orderlies	ST OJT	2,590	2,750	6.2%	16	171	151	338
31-1133	Psychiatric Aides	ST OJT	2,130	2,250	5.6%	12	140	124	276
31-2000	Occupational & Physical Therapist Assistants & Aides	N/A	9,310	12,200	31.0%	289	482	805	1,576
31-2011	Occupational Therapy Assistants	AD	2,230	2,960	32.7%	74	129	190	393
31-2012	Occupational Therapy Aides	ST OJT	460	540	17.4%	8	25	36	
31-2021	Physical Therapist Assistants	AD	4,710	6,370	35.2%	166	237	418	821
31-2022	Physical Therapist Aides	ST OJT	1,910	2,320	21.5%	41	91	160	292
31-9000	Other Healthcare Support Occupations	N/A	59,540	69,020	15.9%	948	2,909	4,723	8,580
31-9011	Massage Therapists	PS	4,430	6,100	37.7%	166	309	275	750
31-9091	Dental Assistants	PS	10,940	12,460	13.9%	152	533	822	1,507
31-9092	Medical Assistants	PS	27,980	33,160	18.5%	518	1,254	2,284	4,056
31-9093	Medical Equipment Preparers	MT OJT	2,290	2,440	6.6%	15	131	156	302
31-9094	Medical Transcriptionists	PS	2,050	1,770	-13.7%	-28	100	164	236
31-9095	Pharmacy Aides	ST OJT	1,470	1,270	-13.6%	-20	71	106	157
31-9096	Veterinary Assistants & Laboratory Animal Caretakers	ST OJT	2,930	3,270	11.6%	33	152	342	527
31-9097	Phlebotomists	PS	6,260	7,300	16.6%	104	292	493	889
31-9099	Healthcare Support Workers, Other	ST OJT	1,200	1,260	5.0%	7	68	81	156
33-0000	Protective Service Occupations	N/A	123,720	130,350	5.4%	663	6,682	8,142	15,487
33-1000	Supervisors - Protective Service Workers	N/A	8,230	8,650	5.1%	42	238	399	679

000			Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	•	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
33-1011	Supervisors - Correctional Officers	WK EXP		640	-1.5%	0		30	
33-1012	Supervisors - Police & Detectives	WK EXP	3,840	4,030	4.9%	19		162	
33-1021	Supervisors - Fire Fighting & Prevention	PS+	950	1,000	5.3%	5		39	
33-1090	Supervisors - Protective Service Workers	WK EXP	2,800	2,970	6.1%	18		168	292
33-2000	Fire Fighting & Prevention Workers	N/A	4,780	5,040		26		253	
33-2011	Firefighters	PS+	4,540	4,780	5.3%	24		240	367
33-3000	Law Enforcement Workers	N/A	51,270	51,530		26	/	2,651	4,206
33-3011	Bailiffs	MT OJT	330	330	0.0%	0	12	18	30
33-3012	Correctional Officers & Jailers	MT OJT	18,290	17,180	-6.1%	-111	668	959	1,516
33-3021	Detectives & Criminal Investigators	WK EXP	3,700	3,800	2.7%	9	96	173	278
33-3031	Fish & Game Wardens	BD+	80	90	12.5%	0		4	8
33-3041	Parking Enforcement Workers	ST OJT	530	340	-35.8%	-19		21	24
33-3051	Police & Sheriff's Patrol Officers	MT OJT	28,290	29,760	5.2%	147	725	1,474	2,346
33-9000	Other Protective Service Workers	N/A	59,450	65,130		569	4,800	4,839	10,208
33-9011	Animal Control Workers	MT OJT	140	150	7.1%	1	4	8	13
33-9021	Private Detectives & Investigators	WK EXP	2,010	2,200	9.5%	19	58	123	200
33-9031	Gaming Surveillance Officers & Gaming Investigators	WK EXP		300	25.0%	6		21	41
33-9032	Security Guards	ST OJT	38,990	41,340	6.0%	235	2,127	3,111	5,473
33-9091	Crossing Guards	ST OJT	7,880	8,880	12.7%	100	1,220	432	1,752
33-9092	Lifeguards, Ski Patrol & Other Recreational Protective Service	ST OJT	4,420	6,030	36.4%	161	720	580	1,461
33-9093	Transportation Security Screeners	ST OJT	1,670	1,660	-0.6%	-1	60	83	142
33-9098	School Bus Monitors & Other Protective Svc Workers	ST OJT	4,100	4,580	11.7%	48		481	1,126
35-0000	Food Preparation & Serving Related Occupations	N/A	403,000	484,750	20.3%	8,175	34,079	45,409	87,663
35-1000	Supervisors, Food Preparation & Serving Workers	N/A	36,840	44,350	20.4%	751	1,768	4,126	6,645
35-1011	Chefs & Head Cooks	WK EXP	2,570	3,230	25.7%	67	87	284	438
35-1012	Supervisors - Food Preparation & Serving Workers	WK EXP	,	41,120	20.0%	685	1,682	3,841	6,208
35-2000	Cooks & Food Preparation Workers	N/A	83,760	105,750	26.3%	2,199	5,925	8,223	16,347
35-2011	Cooks, Fast Food	ST OJT	7,600	7,400	-2.6%	-20	441	642	1,063
35-2012	Cooks, Institution & Cafeteria	ST OJT	14,270	15,240	6.8%	97	868	1,263	2,228
35-2013	Cooks, Private Household	PS+	860	890	3.5%	3	51	75	129
35-2014	Cooks, Restaurant	MT OJT	40,280	60,080	49.2%	1,980	2,953	4,295	9,228
35-2015	Cooks, Short Order	ST OJT	3,380	3,590	6.2%	21	205	298	524
35-2019	Cooks, Other	MT OJT	230	260	13.0%	3	14	21	38
35-2021	Food Preparation Workers	ST OJT	17,140	18,300	6.8%	116	1,392	1,629	3,137
35-3000	Food & Beverage Serving Workers	N/A	241,930	285,050	17.8%	4,312	22,259	28,864	55,435

GOG			Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	ľ	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
35-3011	Bartenders	ST OJT	22,100	,		695	1,159	3,099	4,953
35-3023	Fast Food & Counter Workers	ST OJT	140,080	161,790	15.5%	2,171	14,634	15,957	32,762
35-3031	Waiters & Waitresses	ST OJT	66,680	,		1,265	5,360	8,718	15,343
35-3041	Food Servers, Nonrestaurant	ST OJT	13,060	14,870		181	1,105	1,090	2,376
35-9000	Other Food Preparation & Serving Related Workers	N/A	40,490	49,610	22.5%	913	4,126	4,197	9,236
35-9011	Dining Room & Cafeteria Attendants & Bartender Helpers	ST OJT	11,920	15,130	26.9%	321	1,167	1,170	2,658
35-9021	Dishwashers	ST OJT	15,890	18,800	18.3%	290	1,305	1,450	3,045
35-9031	Hosts & Hostesses: Restaurant, Lounge & Coffee Shop	ST OJT	11,960	14,830	24.0%	287	1,587	1,508	3,382
35-9099	Food Preparation & Serving Related Workers, Other	ST OJT	720	860	19.4%	14	68	68	150
37-0000	Building & Grounds Cleaning & Maintenance Occupations	N/A	185,730	199,580	7.5%	1,385	11,032	13,983	26,400
37-1000	Supervisors of Building & Grounds Cleaning & Maintenance Workers	N/A	13,730	14,460	5.3%	73	537	989	1,599
37-1011	Supervisors - Housekeeping & Janitorial Workers	WK EXP	8,200	8,620	5.1%	42	361	581	984
37-1012	Supervisors - Landscaping & Groundskeeping Workers	WK EXP	5,530	5,840	5.6%	31	176	408	615
37-2000	Building Cleaning & Pest Control Workers	N/A	131,400	140,690	7.1%	928	8,665	9,349	18,942
37-2011	Janitors & Cleaners	ST OJT	87,360	92,830	6.3%	547	5,623	6,315	12,485
37-2012	Maids & Housekeeping Cleaners	ST OJT	41,880	45,470	8.6%	359	2,967	2,810	6,136
37-3000	Grounds Maintenance Workers	N/A	40,600	44,440	9.5%	384	1,829	3,645	5,858
37-3011	Landscaping & Groundskeeping Workers	ST OJT	36,970	40,550	9.7%	358	1,668	3,323	5,349
37-3012	Pesticide Handlers, Sprayers & Applicators, Vegetation	MT OJT	670	730	9.0%	7	30	60	97
37-3013	Tree Trimmers & Pruners	ST OJT	2,820	3,020	7.1%	20	126	250	396
37-3019	Grounds Maintenance Workers, Other	ST OJT	140	130		0	6	12	18
39-0000	Personal Care & Service Occupations	N/A	159,270	196,050	23.1%	3,678	10,702	13,348	27,728
39-1000	Supervisors, Personal Care & Service Workers	N/A	11,970	14,470	20.9%	250	482	916	1,648
39-1013	Supervisors - Gambling Services Workers	WK EXP	730	1,040	42.5%	31	32	61	124
39-1098	Supervisors - Personal Svc/Entertain't/Recr'n Workers	WK EXP	11,240	13,430	19.5%	219	450	855	1,524
39-2000	Animal Care & Service Workers	N/A	11,910	15,230		332	847	1,112	2,291
39-2011	Animal Trainers	MT OJT	1,260	1,480	17.5%	22	64	99	185
39-2021	Nonfarm Animal Caretakers	ST OJT	10,650	13,750	29.1%	310	783	1,013	2,106
39-3000	Entertainment Attendants & Related Workers	N/A	13,620	20,450	50.1%	683	1,623	1,809	4,115
39-3011	Gaming Dealers	ST OJT	2,220	3,140	41.4%	91	146	242	479
39-3031	Ushers, Lobby Attendants & Ticket Takers	ST OJT	2,410	3,940	63.5%	153	402	323	878
39-3091	Amusement & Recreation Attendants	ST OJT	7,820	11,880	51.9%	406	961	1,103	2,470
39-3092	Costume Attendants	ST OJT	110	160	45.5%	4	13	15	32
39-3093	Locker Room, Coatroom & Dressing Room Attendants	ST OJT	700	860	22.9%	16		87	179
39-4000	Funeral Service Workers	N/A	4,010	4,140	3.2%	13	219	297	529

and			Emple	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	-	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
39-4021	Funeral Attendants	ST OJT	2,730	· · · · ·	2.9%	8		209	373
39-4031	Morticians, Undertakers & Funeral Directors	AD+	1,270	1,320	3.9%	5	62	88	155
39-5000	Personal Appearance Workers	N/A	44,070	56,930	29.2%	1,287	2,610	2,778	6,675
39-5011	Barbers	PS	2,480	3,020	21.8%	55	106	156	317
39-5012	Hairdressers, Hairstylists & Cosmetologists	PS	31,840	40,330	26.7%	849	1,911	2,005	4,765
39-5092	Manicurists & Pedicurists	PS	6,890	9,740	41.4%	285	423	440	1,148
39-5093	Shampooers	ST OJT	790	1,070	35.4%	29	47	49	125
39-5094	Skincare Specialists	PS	2,060	2,740	33.0%	68	122	127	317
39-6000	Transportation, Tourism & Lodging Attendants	N/A	1,810	2,070	14.4%	26	101	148	275
39-6011	Baggage Porters & Bellhops	ST OJT	920	1,050	14.1%	12	51	75	138
39-6012	Concierges	MT OJT	880	1,020	15.9%	14	50	73	137
39-7000	Tour & Travel Guides	N/A	1,590	1,740	9.4%	16	107	155	278
39-7010	Tour & Travel Guides	MT OJT	1,590	1,740	9.4%	16	107	155	278
39-9000	Other Personal Care & Service Workers	N/A	70,300	81,020	15.2%	1,072	4,714	6,133	11,919
39-9011	Childcare Workers	ST OJT	37,900	40,820	7.7%	292	2,649	2,750	5,691
39-9031	Fitness Trainers & Aerobics Instructors	ST OJT	11,970	16,800	40.4%	483	842	1,365	2,690
39-9032	Recreation Workers	ST OJT	12,460	14,420	15.7%	196	787	1,276	2,259
39-9041	Residential Advisors	ST OJT	6,760	7,410	9.6%	65	357	636	1,058
39-9098	Crematory Oprs & Other Personal Service Workers	ST OJT	1,210	1,570	29.8%	36	79	105	220
41-0000	Sales & Related Occupations	N/A	525,290	532,430	1.4%	714	27,343	41,786	69,843
41-1000	Supervisors - Sales Workers	N/A	71,040	69,470	-2.2%	-158	2,375	4,701	6,918
41-1011	Supervisors - Retail Sales Workers	WK EXP	53,970	52,830	-2.1%	-114	1,887	3,700	5,473
41-1012	Supervisors - Non-Retail Sales Workers	WK EXP	17,080	16,640	-2.6%	-44	488	1,002	1,446
41-2000	Retail Sales Workers	N/A	288,980	287,880	-0.4%	-110	19,550	25,281	44,721
41-2011	Cashiers	ST OJT	128,680	122,750	-4.6%	-593	10,695	12,036	22,138
41-2012	Gaming Change Persons & Booth Cashiers	ST OJT	370	510	37.8%	15	37	42	94
41-2021	Counter & Rental Clerks	ST OJT	9,370	10,150	8.3%	78	438	670	1,186
41-2022	Parts Salespersons	MT OJT	10,350	10,880	5.1%	53	447	813	1,313
41-2031	Retail Salespersons	ST OJT	140,210	143,580	2.4%	337	7,933	11,720	19,990
41-3000	Sales Representatives, Services	N/A	67,250	73,520	9.3%	627	1,945	5,240	7,812
41-3011	Advertising Sales Agents	MT OJT	3,610	3,650	1.1%	4	111	337	452
41-3021	Insurance Sales Agents	MT OJT	18,230			152	632	1,062	1,846
41-3031	Securities, Commodities & Financial Services Sales Agents	BD+	12,610	13,320	5.6%	71	287	817	1,175
41-3041	Travel Agents	MT OJT	1,700		4.1%	8	85	115	208

000		E I	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change		Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
41-3091	Sales Representatives - Services	MT OJT	31,110	· · · · · · · · · · · · · · · · · · ·	12.6%	392	830	2,908	4,130
41-4000	Sales Representatives, Wholesale & Manufacturing	N/A	67,770	71,090	4.9%	332	2,052	4,691	7,075
41-4011	Sales Representatives, Technical & Scientific Products	BD+	11,390			63	346	791	1,200
41-4012	Sales Representatives	MT OJT	56,370	59,060	4.8%	269	1,706	3,900	5,875
41-9000	Other Sales & Related Workers	N/A	30,250			22	1,420	1,873	3,315
41-9011	Demonstrators & Product Promoters	ST OJT	2,330	2,450	5.2%	12		158	434
41-9021	Real Estate Brokers	WK EXP	1,890	2,000	5.8%	12	81	86	179
41-9022	Real Estate Sales Agents	MT OJT	14,610	15,410	5.5%	81	624	660	1,365
41-9031	Sales Engineers	BD+	3,120	3,360	7.7%	24	65	266	355
41-9041	Telemarketers	ST OJT	5,060	4,170	-17.6%	-89	213	471	595
41-9091	Door-to-Door Sales Workers, News & Street Vendors & Related Workers	ST OJT	1,120	840	-25.0%	-28	71	53	96
43-0000	Office & Administrative Support Occupations	N/A	811,460	785,610	-3.2%	-2,586	38,349	49,372	85,135
43-1000	Supervisors - Office & Administrative Support Workers	N/A	66,650		-1.2%	-79		4,048	6,427
43-1011	Supervisors - Office & Administrative Support Workers	WK EXP	66,650	65,850	-1.2%	-79	1	4,048	6,427
43-2000	Communications Equipment Operators	N/A	2,400		-22.9%	-54		126	180
43-2011	Switchboard Operators	ST OJT	2,160	1,660	-23.1%	-50	99	111	160
43-3000	Financial Clerks	N/A	116,760	111,230	-4.7%	-553	5,644	6,474	11,565
43-3011	Bill & Account Collectors	MT OJT	7,660	7,200	-6.0%	-46	272	527	753
43-3021	Billing & Posting Clerks	MT OJT	20,210	20,640	2.1%	42	838	1,253	2,133
43-3031	Bookkeeping, Accounting & Auditing Clerks	PS+	58,520	56,900	-2.8%	-162	3,382	2,947	6,167
43-3051	Payroll & Timekeeping Clerks	MT OJT	6,010	5,270	-12.3%	-75	267	308	500
43-3061	Procurement Clerks	MT OJT	2,810	2,720	-3.2%	-10		175	241
43-3071	Tellers	ST OJT	20,970	17,860	-14.8%	-310	788	1,220	1,698
43-4000	Information & Record Clerks	N/A	221,250	/	-0.1%	-21	10,787	16,233	26,999
43-4011	Brokerage Clerks	MT OJT	2,530	2,300	-9.1%	-23	98	159	234
43-4021	Correspondence Clerks	ST OJT	170			-1	7	10	16
43-4031	Court, Municipal & License Clerks	LT OJT	1,550	1,630	5.2%	8		80	165
43-4041	Credit Authorizers, Checkers & Clerks	MT OJT	1,180	1,140	-3.4%	-4	42	71	109
43-4051	Customer Service Representatives	ST OJT	121,580	120,300	-1.1%	-128	5,685	9,510	15,067
43-4061	Eligibility Interviewers, Government Programs	MT OJT	8,730	9,100	4.2%	37	330	461	828
43-4071	File Clerks	ST OJT	4,580	4,000	-12.7%	-58		265	439
43-4081	Hotel, Motel & Resort Desk Clerks	ST OJT	6,090	6,730	10.5%	64	371	679	1,114
43-4111	Interviewers	ST OJT	7,260	6,700	-7.7%	-56	403	451	798
43-4121	Library Assistants, Clerical	ST OJT	5,270	5,200	-1.3%	-8	466	335	793

6 G G			Emple	oyment Out	look		Annua	al Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	•	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
43-4131	Loan Interviewers & Clerks	ST OJT	6,800			-5	195	398	588
43-4141	New Accounts Clerks	MT OJT	760	650	-14.5%	-11	22		55
43-4151	Order Clerks	PS	5,160			-96	199		397
43-4161	Human Resources Assistants	AD	4,710	4,620	-1.9%	-9	179	283	453
43-4171	Receptionists & Information Clerks	ST OJT	39,030	41,490		246	2,247	2,782	5,275
43-4181	Reservation & Transportation Ticket Agents & Travel Clerks	ST OJT	3,060	3,230	5.6%	18	119	224	361
43-4199	Information & Record Clerks, Other	ST OJT	2,790	2,840	1.8%	5	115	186	306
43-5000	Material Recording, Scheduling, Dispatching & Distributing Workers	N/A	82,890	81,200	-2.0%	-169	3,100	4,302	7,233
43-5011	Cargo & Freight Agents	ST OJT	2,080	2,290	10.1%	21	83	130	234
43-5021	Couriers & Messengers	ST OJT	5,280	4,870	-7.8%	-42	208	276	442
43-5031	Police, Fire & Ambulance Dispatchers	MT OJT	3,480	3,660	5.2%	18	126	200	344
43-5032	Dispatchers	MT OJT	7,140	7,370	3.2%	23	255	406	684
43-5041	Meter Readers, Utilities	ST OJT	1,020	930	-8.8%	-9	29	43	63
43-5051	Postal Service Clerks	ST OJT	3,800	3,490	-8.2%	-32	166	130	264
43-5052	Postal Service Mail Carriers	ST OJT	13,570	12,450	-8.3%	-113	452	467	806
43-5053	Postal Service Mail Sorters, Processors & Processing Machine Operators	ST OJT	5,500	4,910	-10.7%	-59	284	169	394
43-5061	Production, Planning & Expediting Clerks	MT OJT	11,080	11,950	7.9%	87	411	748	1,246
43-5071	Shipping, Receiving & Traffic Clerks	ST OJT	27,380	26,350	-3.8%	-103	981	1,579	2,457
43-5111	Weighers, Measurers, Checkers & Samplers, Recordkeeping	ST OJT	2,560	2,950	15.2%	39	104	156	299
43-6000	Secretaries & Administrative Assistants	N/A	135,050	125,400	-7.1%	-965	6,626	7,272	12,933
43-6011	Executive Secretaries & Executive Administrative Assistants	WK EXP	14,800	12,070	-18.4%	-273	684	750	1,161
43-6012	Legal Secretaries	MT OJT	6,290	5,020	-20.2%	-126	288	316	478
43-6013	Medical Secretaries	MT OJT	22,410	24,860	10.9%	245	1,202	1,320	2,767
43-6014	Secretaries	ST OJT	91,550	83,450	-8.8%	-810	4,452	4,886	8,528
43-9000	Other Office & Administrative Support Workers	N/A	186,470	179,040	-4.0%	-744	9,625	10,917	19,798
43-9021	Data Entry Keyers	ST OJT	7,010	5,370	-23.4%	-164	276	392	504
43-9022	Word Processors & Typists	ST OJT	6,500	4,120	-36.6%	-238	319	288	369
43-9031	Desktop Publishers	AD	360	290	-19.4%	-7	13	22	28
43-9041	Insurance Claims & Policy Processing Clerks	MT OJT	10,850	10,720	-1.2%	-14	380	632	998
43-9051	Mail Clerks & Mail Machine Operators	ST OJT	3,690			-20	182	225	387
43-9061	Office Clerks, General	ST OJT	150,220	,		-308	8,113	8,817	16,622
43-9071	Office Machine Operators	ST OJT	1,830			-25	89		166
43-9081	Proofreaders & Copy Markers	BD	470			3	30	32	65
43-9111	Statistical Assistants	BD	590			4	14		

		E I	Emple	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030					Demand ^{4/}
43-9199	Office & Administrative Support Workers, Other	ST OJT	4,960		4.8%	24			586
45-0000	Farming, Fishing & Forestry Occupations	N/A	42,050	, ,	2.5%	107	1,784	4,832	6,723
45-1000	Supervisors - Farming, Fishing & Forestry Workers	N/A	2,150		7.0%	15		231	328
45-1011	Farm & Forestry Worker Supervisors	WK EXP	2,150	2,300	7.0%	15		231	328
45-2000	Agricultural Workers	N/A	38,340		2.3%	88	1,640	4,425	6,153
45-2011	Agricultural Inspectors	BD+	400	410	2.5%	1	10	-	66
45-2021	Animal Breeders	ST OJT	550	570	3.6%	2	24	64	90
45-2041	Graders & Sorters, Agricultural Products	ST OJT	1,200	1,150	-4.2%	-6		127	167
45-2091	Agricultural Equipment Operators	MT OJT	2,490	2,770	11.2%	29	111	301	441
45-2092	Farmworkers & Laborers, Crop, Nursery & Greenhouse	ST OJT	22,080	22,670	2.7%	59	948	2,557	3,564
45-2093	Farmworkers, Farm, Ranch & Aquacultural Animals	ST OJT	11,300	11,300	0.0%	0	479	1,292	1,771
45-2099	Agricultural Workers, Other	ST OJT	330	350	6.1%	2	14	39	55
45-4000	Forest, Conservation & Logging Workers	N/A	1,440	1,460	1.4%	2	55	163	220
45-4011	Forest & Conservation Workers	MT OJT	330	310	-6.1%	-2	14	34	46
45-4022	Logging Equipment Operators	MT OJT	510	540	5.9%	3	19	60	82
45-4023	Log Graders & Scalers	MT OJT	140	140	0.0%	1	5	16	22
47-0000	Construction & Extraction Occupations	N/A	244,620	258,590	5.7%	1,397	7,632	17,132	26,161
47-1000	Supervisors - Construction & Extraction Workers	N/A	23,260	24,690	6.1%	144	678	1,552	2,374
47-1011	Supervisors - Construction Trades & Extraction Workers	WK EXP	23,260		6.1%	144	678	1,552	2,374
47-2000	Construction Trades Workers	N/A	180,720		6.1%	1,104	5,462	12,496	19,062
47-2011	Boilermakers	LT OJT	340	330	-2.9%	-2	6	24	
47-2021	Brickmasons & Blockmasons	LT OJT	3,630	3,610	-0.6%	-2	115	223	336
47-2022	Stonemasons	LT OJT	290	300	3.4%	1	9	18	28
47-2031	Carpenters	LT OJT	37,620	38,520	2.4%	90	1,111	2,375	3,576
47-2041	Carpet Installers	ST OJT	1,910	1,800	-5.8%	-12	49	108	145
47-2042	Floor Layers	MT OJT	450		13.3%	6	13		
47-2043	Floor Sanders & Finishers	MT OJT	340	360	5.9%	2	9	-	
47-2044	Tile & Marble Setters	LT OJT	1,190	1,340	12.6%	14	33	73	120
47-2051	Cement Masons & Concrete Finishers	MT OJT	3,780	3,850	1.9%	8	92	251	351
47-2053	Terrazzo Workers & Finishers	LT OJT	150	140	-6.7%	-1	4	9	12
47-2061	Construction Laborers	ST OJT	47,620	52,000	9.2%	438	1,472	3,364	5,274
47-2071	Paving, Surfacing & Tamping Equipment Operators	MT OJT	1,170		5.1%	6	39	86	131
47-2073	Operating Engineers & Other Construction Equipment Operators	MT OJT	21,070	22,120	5.0%	105	706	1,548	2,359
47-2081	Drywall & Ceiling Tile Installers	MT OJT	2,390	2,520	5.4%	13	61	139	213

600		БТ	Emplo	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
47-2082	Tapers	MT OJT	340	350	2.9%	0	9	-	29
47-2111	Electricians	LT OJT	21,360	23,390	9.5%	203	650	1,643	2,496
47-2121	Glaziers	LT OJT	940	1,040	10.6%	10	26	76	112
47-2131	Insulation Workers, Floor, Ceiling & Wall	ST OJT	490	520	6.1%	3	12		
47-2132	Insulation Workers, Mechanical	LT OJT	520	550	5.8%	3	13	36	
47-2141	Painters, Construction & Maintenance	MT OJT	8,700	9,210	5.9%	51	271	496	818
47-2142	Paperhangers	LT OJT	230	250	8.7%	2	7	13	
47-2151	Pipelayers	ST OJT	450	460	2.2%	1	13	33	47
47-2152	Plumbers, Pipefitters & Steamfitters	LT OJT	15,250	16,060	5.3%	82	456	1,126	1,664
47-2161	Plasterers & Stucco Masons	LT OJT	490	520	6.1%	3	14	26	43
47-2171	Reinforcing Iron & Rebar Workers	LT OJT	260	280	7.7%	2	9	17	28
47-2181	Roofers	MT OJT	4,480	4,860	8.5%	38	116	326	480
47-2211	Sheet Metal Workers	LT OJT	2,970	3,080	3.7%	11	82	196	289
47-2221	Structural Iron & Steel Workers	LT OJT	2,120	2,310	9.0%	19	57	170	246
47-3000	Helpers, Construction Trades	N/A	5,830	6,010	3.1%	17	174	518	709
47-3011	HelpersBrick, Block, Stonemasons, Tile & Marble Setters	ST OJT	580	600	3.4%	2	17	52	71
47-3012	HelpersCarpenters	ST OJT	1,200	1,200	0.0%	1	35	105	141
47-3013	HelpersElectricians	ST OJT	2,040	2,050	0.5%	1	60	179	240
47-3015	HelpersPipelayers, Plumbers, Pipefitters & Steamfitters	ST OJT	870	920	5.7%	5	26	79	110
47-3019	Helpers, Construction Trades, Other	ST OJT	650	690	6.2%	4	20	59	83
47-4000	Other Construction & Related Workers	N/A	25,260	26,600	5.3%	134	1,066	1,702	2,902
47-4011	Construction & Building Inspectors	WK EXP	7,010	7,150	2.0%	13	385	428	826
47-4021	Elevator Installers & Repairers	LT OJT	730	780	6.8%	4	17	52	
47-4031	Fence Erectors	MT OJT	680	710	4.4%	4	17		
47-4041	Hazardous Materials Removal Workers	MT OJT	1,510	1,610	6.6%	11	59	127	197
47-4051	Highway Maintenance Workers	MT OJT	12,530	13,230	5.6%	70	505	808	1,383
47-4061	Rail-Track Laying & Maintenance Equipment Operators	MT OJT	750	780	4.0%	3	13	53	69
47-4071	Septic Tank Servicers & Sewer Pipe Cleaners	MT OJT	1,570	1,830	16.6%	25	54	141	220
47-4090	Miscellaneous Construction & Related Workers	MT OJT	480	520	8.3%	4	16	41	61
47-5000	Extraction Workers	N/A	9,550	9,520	-0.3%	-2	252	864	1,114
47-5011	Derrick Operators, Oil & Gas	ST OJT	110	100	-9.1%	0	2	10	12
47-5012	Rotary Drill Operators, Oil & Gas	MT OJT	590	570	-3.4%	-2			
47-5013	Service Unit Operators, Oil, Gas & Mining	MT OJT	1,720	1,650	-4.1%	-6			
47-5022	Excavating/Loading/Dragline Machine Oprs, Surface Mining	WK EXP	1,360	1,380	1.5%	2	42	117	161

GOG			Emple	oyment Out	look		Annua	al Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	-	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
47-5041	Continuous Mining Machine Operators	MT OJT	570		0.0%	0			
47-5051	Rock Splitters, Quarry	ST OJT	790		1.3%	0			
47-5071	Roustabouts, Oil & Gas	MT OJT	1,770	,	1.1%	2	36		210
47-5081	HelpersExtraction Workers	MT OJT	920		4.3%	4	29		113
47-5097	Earth Drillers, Explosives Workers & Ordnance Handlers	WK EXP	820		3.7%	3		71	100
49-0000	Installation, Maintenance & Repair Occupations	N/A	232,680	250,670	7.7%	1,799	7,557	15,274	24,630
49-1000	Supervisors - Installation, Maintenance & Repair Workers	N/A	19,750	21,150	7.1%	140	593		1,949
49-1011	Supervisors - Mechanics, Installers & Repairers	WK EXP	19,750	21,150	7.1%	140	593	1,216	1,949
49-2000	Electrical & Electronic Equipment Mechanics, Installers & Repairers	N/A	19,990	21,230	6.2%	124	633	1,441	2,198
49-2011	Computer, Automated Teller & Office Machine Repairers	PS	4,740	4,890	3.2%	15	145	366	526
49-2021	Radio, Cellular & Tower Equipment Installers & Repairers	AD+	630	690	9.5%	6	23	51	80
49-2022	Telecommunications Equipment Installers & Repairers	PS+	5,850	6,400	9.4%	54	213	470	737
49-2091	Avionics Technicians	AD	250	260	4.0%	2	6	11	19
49-2092	Electric Motor, Power Tool & Related Repairers	WK EXP	770	810	5.2%	4	30	46	
49-2093	Electrical & Electronics Installers & Repairers, Transportation Equipment	PS+	400	410	2.5%	1	11	20	32
49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equipment	PS+	2,470	2,610	5.7%	14	70	126	210
49-2095	Electrical & Electronics Repairers, Powerhouse, Substation & Relay	PS+	990	1,020	3.0%	3	28	50	81
49-2097	Electronic Home Entertainment Equipment Installers & Repairers	PS	1,280	1,320	3.1%	5	42	94	141
49-2098	Security & Fire Alarm Systems Installers	MT OJT	2,530	2,770	9.5%	24	63	204	291
49-3000	Vehicle & Mobile Equipment Mechanics, Installers	N/A	68,650	71,780	4.6%	313	2,121	4,634	7,068
49-3011	Aircraft Mechanics & Service Technicians	PS	2,330	2,540	9.0%	21	70	127	218
49-3021	Automotive Body & Related Repairers	LT OJT	7,640	8,070	5.6%	43	249	467	759
49-3022	Automotive Glass Installers & Repairers	MT OJT	680	750	10.3%	7	23	51	81
49-3023	Automotive Service Technicians & Mechanics	PS	32,230	32,480	0.8%	24	962	2,195	3,181
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	LT OJT	12,250	13,260	8.2%	101	361	795	1,257
49-3041	Farm Equipment Mechanics & Service Technicians	LT OJT	1,450	1,620	11.7%	16	46	104	166
49-3042	Mobile Heavy Equipment Mechanics	LT OJT	6,040	6,700	10.9%	66	190	430	686
49-3043	Rail Car Repairers	LT OJT	690	700	1.4%	1	21	47	69
49-3051	Motorboat Mechanics & Service Technicians	LT OJT	390	440	12.8%	5	18	27	50
49-3052	Motorcycle Mechanics	PS	570	610	7.0%	4	26	39	69
49-3053	Outdoor Power Equipment & Other Small Engine Mechanics	MT OJT	1,340	1,420	6.0%	8	60	91	159
49-3091	Bicycle Repairers	MT OJT	390		7.7%	3	13	34	50
49-3092	Recreational Vehicle Service Technicians	LT OJT	380		18.4%	7	13	34	54
49-3093	Tire Repairers & Changers	ST OJT	2,270		2.6%	7	71	191	269

000		D 1	Emplo	oyment Out	look		Annua	l Demand	
SOC Code	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
49-9000	Other Installation, Maintenance & Repair Occupations	N/A	124,290	136,500	9.8%	1,222	4,209	7,983	13,414
49-9011	Mechanical Door Repairers	MT OJT	590	640	8.5%	5	14	35	54
49-9012	Control & Valve Installers & Repairers	MT OJT	1,660	1,700	2.4%	4	38	96	138
49-9021	Heating, A/C & Refrigeration Mechanics & Installers	PS+	16,240	17,040	4.9%	79	427	1,135	1,641
49-9031	Home Appliance Repairers	MT OJT	1,440	1,480	2.8%	5	55	85	145
49-9041	Industrial Machinery Mechanics	LT OJT	19,640	24,010	22.3%	437	671	1,179	2,287
49-9043	Maintenance Workers, Machinery	LT OJT	2,980	3,320	11.4%	34		172	310
49-9044	Millwrights	LT OJT	1,900	2,090	10.0%	18	58	113	189
49-9051	Electrical Power-Line Installers & Repairers	LT OJT	3,910	4,150	6.1%	24	76	271	371
49-9052	Telecommunications Line Installers & Repairers	LT OJT	5,350	5,840	9.2%	48	124	472	644
49-9061	Camera & Photographic Equipment Repairers	LT OJT	110	120	9.1%	1	5	7	13
49-9062	Medical Equipment Repairers	AD+	2,260	2,380	5.3%	13	102	139	254
49-9063	Musical Instrument Repairers & Tuners	LT OJT	610	590	-3.3%	-2	26	36	
49-9069	Precision Instrument & Equipment Repairers, Other	LT OJT	300	320	6.7%	1	14	18	33
49-9071	Maintenance & Repair Workers, General	MT OJT	57,830	62,780	8.6%	495	2,125	3,518	6,138
49-9081	Wind Turbine Service Technicians	PS+	310	450	45.2%	14	13	25	52
49-9091	Coin, Vending & Amusement Machine Servicers & Repairers	ST OJT	920	1,070	16.3%	14	44	72	130
49-9094	Locksmiths & Safe Repairers	LT OJT	540	490	-9.3%	-5	20	32	47
49-9095	Manufactured Building & Mobile Home Installers	ST OJT	160	130	-18.8%	-3	5	9	11
49-9096	Riggers	MT OJT	380	400	5.3%	2	8	30	40
49-9098	HelpersInstallation, Maintenance & Repair Workers	ST OJT	2,730	2,920	7.0%	19	121	237	377
49-9099	Installation, Maintenance & Repair Workers, Other	MT OJT	3,880	4,070	4.9%	18	140	265	423
51-0000	Production Occupations	N/A	361,760	362,070	0.1%	31	13,467	25,736	39,234
51-1000	Supervisors - Production Workers	N/A	26,960	28,170		121	829	1,854	2,804
51-1011	Supervisors - Production & Operating Workers	WK EXP	26,960	28,170	4.5%	121	829	1,854	2,804
51-2000	Assemblers & Fabricators	N/A	64,930			-446	2,377	4,403	6,334
51-2011	Aircraft Structure, Surfaces, Rigging & Systems Assemblers	MT OJT	1,170	1,060	-9.4%	-11	42	80	
51-2028	Electrical, Electronic, & Electromechanical Assemblers	MT OJT	12,430	12,890	3.7%	46	509	811	1,366
51-2031	Engine & Other Machine Assemblers	MT OJT	1,100	960	-12.7%	-15		76	97
51-2041	Structural Metal Fabricators & Fitters	MT OJT	2,600	2,310	-11.2%	-30		196	221
51-2051	Fiberglass Laminators & Fabricators	MT OJT	530	580	9.4%	5	21	39	65
51-2090	Misc. Assemblers & Fabricators	MT OJT	46,610	42,270	-9.3%	-434	1,696	3,172	4,434
51-3000	Food Processing Workers	N/A	26,520	27,910	5.2%	139	1,308	2,045	3,492
51-3011	Bakers	LT OJT	9,090	9,840	8.3%	74	527	708	1,309

GOG		E.I.	Emple	oyment Out	look		Annua	al Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
51-3021	Butchers & Meat Cutters	LT OJT	3,830		0.5%	2			443
51-3022	Meat, Poultry & Fish Cutters & Trimmers	ST OJT	3,150		4.4%	15		239	
51-3023	Slaughterers & Meat Packers	ST OJT	2,330		4.7%	11			285
51-3091	Food & Tobacco Roasting, Baking & Drying Machine Operators	MT OJT	710	740	4.2%	3			
51-3092	Food Batchmakers	MT OJT	6,180	6,460	4.5%	28	294	471	793
51-3093	Food Cooking Machine Operators	MT OJT	830		3.6%	3			147
51-3099	Food Processing Workers, Other	MT OJT	410	430	4.9%	2	15	27	44
51-4000	Metal Workers & Plastic Workers	N/A	81,970	83,290	1.6%	131	2,620	5,786	8,537
51-4021	Extruding & Drawing Machine Operators	MT OJT	4,070	3,880	-4.7%	-19	138	245	364
51-4022	Forging Machine Operators	MT OJT	780	650	-16.7%	-13	25	44	56
51-4023	Rolling Machine Operators	MT OJT	1,280	1,190	-7.0%	-9	43	76	110
51-4031	Cutting, Punching & Press Machine Operators	MT OJT	6,910	6,660	-3.6%	-25	215	467	657
51-4033	Grinding, Lapping, Polishing & Buffing Machine Tool Operators	MT OJT	3,620	3,460	-4.4%	-16	159	243	386
51-4034	Lathe & Turning Machine Tool Operators	MT OJT	950	890	-6.3%	-6	30	62	86
51-4035	Milling & Planing Machine Operators	MT OJT	610	510	-16.4%	-10	18	38	46
51-4041	Machinists	LT OJT	15,330	16,410	7.0%	109	531	1,079	1,719
51-4051	Metal-Refining Furnace Operators	MT OJT	1,430	1,460	2.1%	3	32	99	134
51-4052	Pourers & Casters, Metal	MT OJT	910	860	-5.5%	-4	20	61	77
51-4062	Patternmakers	MT OJT	170	170	0.0%	0	6	12	18
51-4071	Foundry Mold & Coremakers	MT OJT	550	530	-3.6%	-2	18	37	53
51-4072	Molding, Coremaking & Casting Machine Operators	MT OJT	6,960	6,670	-4.2%	-29	222	461	654
51-4081	Multiple Machine Tool Operators	MT OJT	9,850	10,390	5.5%	54	329	685	1,068
51-4111	Tool & Die Makers	PS+	3,750	3,730	-0.5%	-2	138	236	372
51-4121	Welders, Cutters, Solderers & Brazers	MT OJT	18,250	19,560	7.2%	131	497	1,491	2,119
51-4122	Welding, Soldering & Brazing Machine Operators	MT OJT	1,510	1,430	-5.3%	-8	39	116	147
51-4191	Heat Treating Equipment Operators	MT OJT	1,190	1,130	-5.0%	-6	38	78	110
51-4192	Layout Workers	MT OJT	300	310	3.3%	1	10	20	31
51-4193	Plating & Coating Machine Operators	MT OJT	1,570	1,520	-3.2%	-5	50	104	149
51-4194	Tool Grinders, Filers & Sharpeners	MT OJT	180	170	-5.6%	-1	6	12	17
51-4199	Metal Workers & Plastic Workers, Other	MT OJT	1,090	1,080	-0.9%	-1	35	73	107
51-5100	Printing Workers	N/A	10,630	10,420	-2.0%	-21	404	750	1,133
51-5111	Prepress Technician & Workers	PS	920	810	-12.0%	-12	33	83	104
51-5112	Printing Press Operators	MT OJT	8,030	8,070	0.5%	3	292	567	862
51-5113	Print Binding & Finishing Workers	MT OJT	1,670	1,550	-7.2%	-13	79	101	167

GOG		E I	Emple	oyment Out	look		Annua	l Demand	
SOC Code	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
51-6000	Textile, Apparel & Furnishings Workers	N/A	16,420	16,810		39		1,012	2,053
51-6011	Laundry & Dry-Cleaning Workers	ST OJT	5,940	6,630	11.6%	69	407	422	898
51-6021	Pressers: Textile, Garment & Related Materials	ST OJT	1,240	1,150	-7.3%	-10		72	114
51-6031	Sewing Machine Operators	ST OJT	4,310	4,190	-2.8%	-12	257	224	469
51-6041	Shoe & Leather Workers & Repairers	MT OJT	70	70	0.0%	0	4	4	8
51-6042	Shoe Machine Operators	ST OJT	260	250	-3.8%	0	14	16	30
51-6051	Sewers, Hand	MT OJT	190	190	0.0%	0		10	
51-6052	Tailors, Dressmakers & Custom Sewers	MT OJT	1,160	1,060	-8.6%	-10	88	56	134
51-6061	Textile Bleaching & Dyeing Machine Operators	ST OJT	160	170	6.2%	0	9	11	20
51-6062	Textile Cutting Machine Operators	MT OJT	370	380	2.7%	0	20	24	
51-6063	Textile Knitting & Weaving Machine Operators	ST OJT	740	730	-1.4%	-1	40	48	87
51-6064	Textile Winding, Twisting & Drawing Out Machine Operators	MT OJT	730	720	-1.4%	-1	39	47	85
51-6091	Extruding & Forming Machine Operators, Synthetic & Glass Fibers	MT OJT	390	390	0.0%	0	21	25	46
51-6092	Fabric & Apparel Patternmakers	MT OJT	70	70	0.0%	0	4	4	8
51-6093	Upholsterers	MT OJT	400	430	7.5%	3	12	23	38
51-6099	Textile, Apparel & Furnishings Workers, Other	ST OJT	380	400	5.3%	1	21	25	47
51-7000	Woodworkers	N/A	11,790	12,790	8.5%	101	446	817	1,364
51-7011	Cabinetmakers & Bench Carpenters	MT OJT	4,610	5,030	9.1%	42	181	267	490
51-7021	Furniture Finishers	ST OJT	960	1,030	7.3%	7	59	75	141
51-7041	Sawing Machine Operators, Wood	MT OJT	2,210	2,320	5.0%	11	80	172	263
51-7042	Woodworking Machine Operators	MT OJT	3,930	4,320	9.9%	39	122	298	459
51-8000	Plant & System Operators	N/A	13,040	12,670	-2.8%	-37	382	873	1,218
51-8011	Nuclear Power Reactor Operators	LT OJT	330	230	-30.3%	-10	7	18	15
51-8012	Power Distributors & Dispatchers	LT OJT	480	470	-2.1%	-1	12	32	43
51-8013	Power Plant Operators	LT OJT	1,450	1,330	-8.3%	-12	36	93	117
51-8021	Stationary Engineers & Boiler Operators	LT OJT	1,910	2,000	4.7%	9	94	139	242
51-8031	Water & Wastewater Treatment Plant & System Operators	LT OJT	5,800	5,570	-4.0%	-23	160	352	489
51-8092	Gas Plant Operators	LT OJT	770	790	2.6%	2	18	61	81
51-8093	Petroleum Pump System Operators, Refinery Operators & Gaugers	MT OJT	1,290	1,300	0.8%	1	30	100	131
51-9000	Other Production Occupations	N/A	109,500		0.0%	4	4,099	8,197	12,300
51-9011	Chemical Equipment Operators	MT OJT	5,100	4,840	-5.1%	-27	109	385	467
51-9012	Separating, Filtering, Clarifying, Precipitating & Still Machine Operators	MT OJT	2,180	2,230	2.3%	5	48	171	224
51-9021	Crushing, Grinding & Polishing Machine Operators	MT OJT	1,260	1,230		-3		93	132
51-9022	Grinding & Polishing Workers, Hand	MT OJT	1,340	1,160	-13.4%	-18	42	93	117

GOG			Emple	oyment Out	look		Annua	l Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030		Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
51-9023	Mixing & Blending Machine Operators	MT OJT	4,140		4.3%	18			
51-9031	Cutters & Trimmers, Hand	ST OJT	390		-23.1%	-9			
51-9032	Cutting & Slicing Machine Operators	MT OJT	2,240	2,210	-1.3%	-2		169	
51-9041	Extruding, Forming, Pressing & Compacting Machine Operators	MT OJT	2,870		4.2%	12		216	
51-9051	Furnace, Kiln, Oven, Drier & Kettle Operators	MT OJT	540	560	3.7%	2		34	55
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	MT OJT	19,550	17,250	-11.8%	-230		1,461	1,938
51-9071	Jewelers & Precious Stone & Metal Workers	LT OJT	720	710	-1.4%	-2	38	48	84
51-9081	Dental Laboratory Technicians	MT OJT	1,460	1,660	13.7%	20	70	127	217
51-9082	Medical Appliance Technicians	MT OJT	660	750	13.6%	9	32	58	99
51-9083	Ophthalmic Laboratory Technicians	MT OJT	710	790	11.3%	8	34	61	103
51-9111	Packaging & Filling Machine Operators	MT OJT	19,530	20,530	5.1%	100	826	1,329	2,255
51-9124	Coating, Painting & Spraying Machine Setters/Oprs/Tenders	MT OJT	6,720	7,220	7.4%	50	192	500	742
51-9141	Semiconductor Processors	MT OJT	690	680	-1.4%	-1	24	51	74
51-9151	Photographic Process Workers & Processing Machine Operators	ST OJT	510	410	-19.6%	-10	21	48	59
51-9161	CNC Tool Operators	MT OJT	11,060	11,160	0.9%	9	380	821	1,210
51-9162	CNC Tool Programmers	PS+	790	1,010	27.8%	21	31	66	118
51-9191	Adhesive Bonding Machine Operators	MT OJT	500	510	2.0%	0	28	34	
51-9192	Cleaning, Washing & Metal Pickling Equipment Operators	MT OJT	660	690	4.5%	4	23	50	77
51-9193	Cooling & Freezing Equipment Operators	MT OJT	370	380	2.7%	1	13	27	41
51-9195	Molders, Shapers & Casters	LT OJT	2,980	3,560	19.5%	58	117	214	389
51-9196	Paper Goods Machine Operators	MT OJT	6,920	6,800	-1.7%	-12	309	455	752
51-9197	Tire Builders	MT OJT	350	370	5.7%	2	7	28	37
51-9198	HelpersProduction Workers	ST OJT	9,780	9,240	-5.5%	-54	446	896	1,288
51-9199	Production Workers, Other	MT OJT	5,070	5,570	9.9%	49	182	393	624
53-0000	Transportation & Material Moving Occupations	N/A	557,300	616,710	10.7%	5,942	27,379	46,249	79,570
53-1000	Supervisors - Transportation & Material Moving Workers	N/A	22,230	24,120	8.5%	189	846	1,606	2,641
53-1041	Aircraft Cargo Handling Supervisors	WK EXP	410	460	12.2%	4	16	30	50
53-1047	Supervisors - Transportation & Material Moving Workers	WK EXP	21,810	23,670	8.5%	185	830	1,576	2,591
53-2000	Air Transportation Workers	N/A	5,830	6,560	12.5%	73		416	770
53-2012	Commercial Pilots	MT OJT	570	620	8.8%	5		42	69
53-2021	Air Traffic Controllers	AD+	740		4.1%	2	20		74
53-2022	Airfield Operations Specialists	LT OJT	240	250	4.2%	2	6	17	25
53-3000	Motor Vehicle Operators	N/A	190,560	213,350	12.0%	2,279	9,513	12,848	24,640
53-3011	Ambulance Drivers & Attendants	MT OJT	1,150	1,210	5.2%	6	46	83	135

GOG			Emplo	oyment Out	look		<u>Annu</u>	al Demand	
SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	•	Level	2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
53-3031	Driver/Sales Workers	ST OJT	14,290	16,280	13.9%	199			1,861
53-3032	Heavy & Tractor-Trailer Truck Drivers	PS	88,100	93,620	6.3%	552	3,721	6,161	10,434
53-3033	Light Truck or Delivery Services Drivers	ST OJT	44,880	48,900	9.0%	403	1,920	3,180	5,503
53-3052	Bus Drivers, Transit & Intercity	MT OJT	5,750	6,720	16.9%	96	410	310	816
53-3058	Passenger Vehicle Drivers	ST OJT	34,830	44,930	29.0%	1,011	2,626	1,983	5,620
53-3099	Motor Vehicle Operators, Other	ST OJT	1,560	1,680	7.7%	12	164	95	271
53-4000	Rail Transportation Workers	N/A	4,800	4,840	0.8%	4	108	313	425
53-4011	Locomotive Engineers	WK EXP	1,090	1,100	0.9%	1	24	71	96
53-4013	Rail Yard Engineers, Dinkey Operators & Hostlers	MT OJT	410	420	2.4%	1	9	27	37
53-4022	Railroad Brake/Signal/Switch Oprs & Locomotive Firers	MT OJT	950	940	-1.1%	-2	21	61	80
53-4031	Railroad Conductors & Yardmasters	MT OJT	2,280	2,310	1.3%	3	51	149	203
53-4041	Subway & Streetcar Operators	MT OJT	60	70	16.7%	0		4	5
53-5000	Water Transportation Workers	N/A	1,200	1,290	7.5%	9	36	99	144
53-5011	Sailors & Marine Oilers	MT OJT	350	390	11.4%	4	11	32	47
53-5021	Captains, Mates & Pilots of Water Vessels	PS+	540	580	7.4%	4	16	40	60
53-6000	Other Transportation Workers	N/A	9,650	10,300	6.7%	65	487	915	1,467
53-6011	Bridge & Lock Tenders	ST OJT	50	50		0	2	5	7
53-6021	Parking Lot Attendants	ST OJT	4,820	5,130	6.4%	31	242	515	788
53-6031	Automotive & Watercraft Service Attendants	ST OJT	2,530	2,750	8.7%	23	122	234	379
53-6041	Traffic Technicians	MT OJT	150	160	6.7%	0	7	14	21
53-6051	Transportation Inspectors	MT OJT	1,150	1,160	0.9%	1	38	84	123
53-6061	Transportation Attendants	ST OJT	670	750	11.9%	8	63	38	109
53-6098	Aircraft Service Attendants & Other Transport'n Workers	ST OJT	270	290	7.4%	2	13	25	40
53-7000	Material Moving Workers	N/A	323,040	356,270		3,322	16,109	30,052	49,483
53-7011	Conveyor Operators	ST OJT	1,890	2,020	6.9%	14		168	243
53-7021	Crane & Tower Operators	WK EXP	2,280	2,400	5.3%	12			
53-7051	Industrial Truck & Tractor Operators	ST OJT	34,070	37,840	11.1%	377	1,082	2,760	4,219
53-7061	Cleaners of Vehicles & Equipment	ST OJT	12,030	13,140	9.2%	110	616	1,120	1,846
53-7062	Laborers & Freight, Stock & Material Movers	ST OJT	137,610	151,530	10.1%	1,392	6,326	12,579	20,297
53-7063	Machine Feeders & Offbearers	ST OJT	6,020	6,950	15.4%	93	369	475	937
53-7064	Packers & Packagers, Hand	ST OJT	23,910	25,490	6.6%	158	1,407	2,000	3,565
53-7065	Stockers & Order Fillers	ST OJT	98,450	109,490	11.2%	1,104	5,918	10,141	17,163
53-7071	Gas Compressor & Gas Pumping Station Operators	MT OJT	550	550	0.0%	0	13	46	
53-7072	Pump Operators	MT OJT	510	520	2.0%	1	12	44	57

SOC Code	Occupational Title	Educ. Level	Employment Outlook			Annual Demand			
			Estimated	Projected	Percent	Due to	Due to	Due to	Total
			2020	2030	Change	Growth ^{1/}	Exits ^{2/}	Transfers ^{3/}	Demand ^{4/}
53-7073	Wellhead Pumpers	WK EXP	450	450	0.0%	0	11	38	49
53-7081	Refuse & Recyclable Material Collectors	ST OJT	4,750	5,340	12.4%	59	214	455	728
53-7121	Tank Car, Truck & Ship Loaders	ST OJT	260	270	3.8%	1	8	23	32

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.