500		E.L.	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 <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
00-0000	Total, All Occupations	N/A	184,210	198,270	7.6%	1,407	8,227		22,434
11-0000	Management Occupations	N/A	8,640	9,380	8.6%	74			786
11-1000	Top Executives	N/A	2,720	2,920	7.4%	20			249
11-1021	General & Operations Managers	BD+	2,500	2,710	8.4%	21	52	162	235
11-2000	Advertising, Marketing, Promotions, Public Relations & Sales Managers	N/A	400	430	7.5%	3	8	26	37
11-2021	Marketing Managers	BD+	140	140	0.0%	0	3	9	12
11-2022	Sales Managers	BD+	220	220	0.0%	0	4	14	18
11-3000	Operations Specialties Managers	N/A	1,930	2,110	9.3%	19	41	106	166
11-3010	Administrative Services & Facilities Managers	BD+	190	200	5.3%	1	6	10	
11-3021	Computer & Information Systems Managers	BD+	380		7.9%	3	6		31
11-3031	Financial Managers	BD+	510		17.6%	8	11	28	47
11-3051	Industrial Production Managers	BD+	310		3.2%	2	6	15	23
11-3061	Purchasing Managers	BD+	80	90	12.5%	1	2	5	8
11-3071	Transportation, Storage & Distribution Managers	WK EXP	220	250	13.6%	3	4	13	20
11-3121	Human Resources Managers	BD+	180	190	5.6%	1	4	10	15
11-9000	Other Management Occupations	N/A	3,590	3,910	8.9%	32	121	181	334
11-9021	Construction Managers	BD+	600	650	8.3%	6	13	32	51
11-9031	Education Admin., Preschool & Childcare Center/Program	BD+	60	70	16.7%	0	2	3	5
11-9032	Education Administrators, Elementary & Secondary School	MD+	290	310	6.9%	2	8	14	24
11-9033	Education Administrators, Postsecondary	MD+	50	50	0.0%	0	1	2	3
11-9041	Architectural & Engineering Managers	BD+	310	320	3.2%	1	6	16	
11-9051	Food Service Managers	WK EXP	230	250	8.7%	2	7	19	28
11-9081	Lodging Managers	WK EXP	40		0.0%	0			5
11-9111	Medical & Health Services Managers	BD+	360	490	36.1%	14	11	22	47
11-9121	Natural Sciences Managers	BD+	40	40	0.0%	0	1	2	3
11-9131	Postmasters & Mail Superintendents	WK EXP	20	20	0.0%	0	0	1	1
11-9141	Property, Real Estate & Community Association Managers	WK EXP	200	200	0.0%	0	8	8	16
11-9151	Social & Community Service Managers	BD+	220	270	22.7%	4	7	13	24
11-9198	Misc. Personal Svc, Entertainment & Other Managers	BD+	320	350	9.4%	3	8	17	28
13-0000	Business & Financial Operations Occupations	N/A	8,030	8,490	5.7%	46	223	487	756
13-1000	Business Operations Specialists	N/A	5,260	5,610	6.7%	35	147	328	510
13-1020	Buyers & Purchasing Agents	BD+	690	680	-1.4%	-1	23	44	66
13-1031	Claims Adjusters, Examiners & Investigators	LT OJT	230	220	-4.3%	0	5	12	17
13-1041	Compliance Officers	BD+	270	290	7.4%	2	7	15	24
13-1051	Cost Estimators	BD+	410	410	0.0%	0	12	25	37

500		E da a	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 <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/	
13-1071	Human Resources Specialists	BD	810			4	22	55	81	
13-1075	Labor Relations Specialists	BD+	80			0	2	5	7	
13-1081	Logisticians	BD	220	280	27.3%	6	5	16	27	
13-1111	Management Analysts	BD+	450	510	13.3%	6	15	28	49	
13-1121	Meeting, Convention & Event Planners	BD	80	90	12.5%	1	2	6	9	
13-1131	Fundraisers	BD	80	90	12.5%	1	2	5	8	
13-1151	Training & Development Specialists	BD+	230	260	13.0%	3	8	15	26	
13-1161	Market Research Analysts & Marketing Specialists	BD	510	610	19.6%	10	13	41	64	
13-1198	Project Mgmt & Other Business Oprs Specialists	BD	1,140	1,170	2.6%	2	27	56	85	
13-2000	Financial Specialists	N/A	2,770	2,880	4.0%	11	76	159	246	
13-2011	Accountants & Auditors	BD	1,540	1,600	3.9%	6	44	93	143	
13-2031	Budget Analysts	BD	40	40	0.0%	0	1	2	3	
13-2041	Credit Analysts	BD	50	40	-20.0%	0	1	3	4	
13-2052	Personal Financial Advisors	BD+	180	200	11.1%	2	4	10	16	
13-2053	Insurance Underwriters	BD+	140	140	0.0%	0	3	7	10	
13-2061	Financial Examiners	BD+	30	30	0.0%	0	1	1	2	
13-2072	Loan Officers	BD+	270	290	7.4%	2	6	16	24	
13-2081	Tax Examiners, Collectors & Revenue Agents	BD+	80	80	0.0%	0	3	4	7	
13-2098	Financial, Investment & Risk Specialists, All Other	BD	240	260	8.3%	2	4	14	20	
15-0000	Computer & Mathematical Occupations	N/A	2,870	3,110	8.4%	24	61	148	233	
15-1200	Computer Occupations	N/A	2,820	3,040	7.8%	22	60	146	228	
15-1211	Computer Systems Analysts	BD	290	300	3.4%	1	6	15	22	
15-1231	Computer Network Support Specialists	AD	110	120		1	2	6	9	
15-1232	Computer User Support Specialists	PS	620	640	3.2%	2	12	33	47	
15-1241	Computer Network Architects	BD+	90	90	0.0%	0	1	4	5	
15-1244	Network & Computer Systems Administrators	BD	270	290	7.4%	2	5	13	20	
15-1245	Database Administrators & Architects	BD	120	130	8.3%	1	3	6	10	
15-1251	Computer Programmers	BD	120	110	-8.3%	-1	2	5	6	
15-1256	Software Developers & QA Analysts	BD	680	800	17.6%	13	17	36	66	
15-1257	Web & Digital Interface Designers	BD	60	70	16.7%	0	2	3	5	
15-1299	Computer Occupations, All Other	BD	390	420	7.7%	3	9	20	32	
15-2000	Mathematical Scientists	N/A	50	60	20.0%	1	1	2	4	
17-0000	Architecture & Engineering Occupations	N/A	4,730	5,010	5.9%	28	112	230	370	
17-1000	Architects, Surveyors & Cartographers	N/A	170	170		0		7	12	
17-1011	Architects	BD+	120	120	0.0%	0	3	5	8	

SOC		Educ		yment Out			Annua	l Demand	
Code	Occupational Title	Educ. Level	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Coue		Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand <sup>4/</sup>
17-1022	Surveyors	BD+	40		0.0%	0	-	2	3
17-2000	Engineers	N/A	3,430	3,690	7.6%	26	72	151	249
17-2011	Aerospace Engineers	BD	20		0.0%	0	0	1	1
17-2041	Chemical Engineers	BD	30	30		0		1	2
17-2051	Civil Engineers	BD	560	600	7.1%	4	12	29	45
17-2071	Electrical Engineers	BD	430	460	7.0%	3	10	18	31
17-2072	Electronics Engineers	BD	150	180	20.0%	2	4	7	13
17-2112	Industrial Engineers	BD	610	690	13.1%	8		26	48
17-2141	Mechanical Engineers	BD	1,080	1,180	9.3%	10	19	47	76
17-2199	Engineers, Other	BD	200	200	0.0%	0	4	8	12
17-3000	Drafters, Engineering & Mapping Technicians	N/A	1,130	1,150	1.8%	2	35	72	109
17-3011	Architectural & Civil Drafters	AD	180			0	6	12	18
17-3012	Electrical & Electronics Drafters	AD	50	50		0	2	3	5
17-3013	Mechanical Drafters	AD	160	150		-1	5	10	14
17-3022	Civil Engineering Technicians	AD	60			0	2	4	6
17-3023	Electrical & Electronic Engineering Technicians	AD	240	240	0.0%	0	7	15	22
17-3024	Electro-Mechanical Technicians	AD	20	10	-50.0%	0	0	1	1
17-3026	Industrial Engineering Technicians	AD	70		14.3%	0	2	5	7
17-3027	Mechanical Engineering Technicians	AD	70	70	0.0%	0	2	4	6
17-3031	Surveying & Mapping Technicians	MT OJT	50			0	2	4	6
17-3098	Calibration & Engineering Techs, All Other	AD	240		8.3%	2		15	24
19-0000	Life, Physical & Social Science Occupations	N/A	1,290	1,350		6	29	93	128
19-1000	Life Scientists	N/A	200	220	10.0%	1	4	15	20
19-1012	Food Scientists & Technologists	BD	20		0.0%	0	0	2	2
19-1023	Zoologists & Wildlife Biologists	BD	10			0	0	0	0
19-2000	Physical Scientists	N/A	260	270	3.8%	1	4	19	24
19-2021	Atmospheric & Space Scientists	BD	10			0	0	0	0
19-2031	Chemists	BD	100	110	10.0%	1	2	8	11
19-2041	Environmental Scientists & Specialists	BD	100	100	0.0%	0	2	8	10
19-3000	Social Scientists & Related Workers	N/A	260	270	3.8%	1	6	13	20
19-3031	Clinical, Counseling & School Psychologists	DOCT	90	100	11.1%	1	2	4	7
19-3051	Urban & Regional Planners	MD	40	40	0.0%	0	1	3	4
19-3099	Social Scientists & Related Workers, Other	BD	50			1	1	3	5
19-4000	Life, Physical & Social Science Technicians	N/A	390		5.1%	2	10	38	50
19-4010	Agricultural & Food Science Technicians	AD+	30	30	0.0%	0	1	3	4

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Code		Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
19-4031	Chemical Technicians	AD+	70	70	0.0%	0		6	7
19-5000	Occupational Health & Safety Specialists & Technicians	N/A	180	180	0.0%	1	5	8	14
19-5011	Occupational Health & Safety Specialists	BD	160	170	6.2%	1	5	7	13
19-5012	Occupational Health & Safety Technicians	MT OJT	10	10	0.0%	0	0	0	0
21-0000	Community & Social Services Occupations	N/A	3,610	4,090	13.3%	48	130	247	425
21-1000	Counselors, Social Workers & Community Service Specialists	N/A	2,780		16.5%	46		193	
21-1012	Educational, Guidance, School & Vocational Counselors	MD	190	220	15.8%	3	7	12	
21-1013	Marriage & Family Therapists	MD+	40		0.0%	0	-	2	-
21-1015	Rehabilitation Counselors	MD	270		0.0%	0	w		
21-1018	Substance Abuse, Behavioral Disorder, & Mental Health Counselors	BD	310		16.1%	5		20	
21-1021	Child, Family & School Social Workers	BD	570		17.5%	10	17	39	
21-1022	Healthcare Social Workers	MD+	130	160	23.1%	3		-	10
21-1023	Mental Health & Substance Abuse Social Workers	MD+	390	450	15.4%	6	12	26	
21-1029	Social Workers, Other	BD	160	190	18.8%	3	5	11	19
21-1093	Social & Human Service Assistants	ST OJT	380	470	23.7%	9	17	32	
21-1099	Community & Social Service Specialists, Other	BD	110	140	27.3%	3	4	8	
21-2000	Religious Workers	N/A	830	850	2.4%	2	36	54	
21-2011	Clergy	BD+	450	470	4.4%	1	19		
23-0000	Legal Occupations	N/A	840	890	6.0%	5	26	38	
23-1000	Lawyers, Judges & Related Workers	N/A	440	470	6.8%	3	10	12	
23-1011	Lawyers	DOCT	410		4.9%	2		-	
23-2000	Legal Support Workers	N/A	400		5.0%	3			
23-2011	Paralegals & Legal Assistants	AD	290	320	10.3%	3	12	21	36
25-0000	Education, Training & Library Occupations	N/A	8,380	9,020	7.6%	64		386	
25-1000	Postsecondary Teachers	N/A	570	590	3.5%	2			
25-2000	Primary, Secondary & Special Education School Teachers	N/A	5,170	5,530	7.0%	37	165	225	427
25-2011	Preschool Teachers	AD	430		18.6%	8		27	
25-2021	Elementary School Teachers	BD	1,960	2,080	6.1%	12	62	81	155
25-2031	Secondary School Teachers	BD	1,370	1,450	5.8%	9	37	57	103
25-2058	Special Education Teachers, Secondary School	BD	300	310	3.3%	2	10		
25-3000	Other Teachers & Instructors	N/A	680		8.8%	7	42	38	
25-3021	Self-Enrichment Education Teachers	WK EXP			6.1%	2	- *		
25-3031	Substitute Teachers, Short-Term	BD	230	270	17.4%	4	15	13	
25-4000	Librarians, Curators & Archivists	N/A	130	170	30.8%	5	8	7	20
25-4022	Librarians & Media Collections Specialists	MD	90	120	33.3%	3	5	5	13

SOC		E I	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 <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
25-4031	Library Technicians	PS	10		100.0%	1	1	1	3
25-9000	Other Education, Training & Library Occupations	N/A	1,840	1,990		14	86	89	189
25-9031	Instructional Coordinators	MD+	150	160		1	7	7	15
25-9045	Teaching Assistants, Non-Postsecondary	PS	1,680	1,810		13	78	81	172
25-9099	Education, Training & Library Workers, Other	BD	20	20	0.0%	0	1	1	2
27-0000	Arts, Design, Entertainment, Sports & Media Occupations	N/A	1,760	1,920	9.1%	16	74	113	203
27-1000	Art & Design Workers	N/A	580		0.0%	0	20	33	53
27-1023	Floral Designers	MT OJT	40			0		2	3
27-1024	Graphic Designers	BD	240			0	7	14	21
27-1026	Merchandise Displayers & Window Trimmers	ST OJT	40			0		2	3
27-2000	Entertainers & Performers, Sports & Related Workers	N/A	570			9	34	41	84
27-2011	Actors	PS+	10			0	0	0	0
27-2012	Producers & Directors	BD+	50			1	1	4	6
27-2022	Coaches & Scouts	BD	160	200		4	10		28
27-2042	Musicians & Singers	LT OJT	240			1	15		30
27-3000	Media & Communication Workers	N/A	430	470	9.3%	4	14	27	45
27-3031	Public Relations Specialists	BD	120	130	8.3%	2	3	8	13
27-3041	Editors	BD+	40			0	1	2	3
27-3042	Technical Writers	BD+	70			0	2	4	6
27-3043	Writers & Authors	BD+	90			0	4	5	9
27-3091	Interpreters & Translators	BD	60		33.3%	2	3	4	9
27-4000	Media & Communication Equipment Workers	N/A	180			2	6	12	20
27-4021	Photographers	MT OJT	110	120		1	4	6	11
29-0000	Healthcare Practitioners & Technical Occupations	N/A	11,370	12,680		131	296	353	780
29-1000	Health Diagnosing & Treating Practitioners	N/A	7,660	/		95	188	189	472
29-1021	Dentists, General	DOCT	170			1	3	1	5
29-1031	Dietitians & Nutritionists	BD+	100	120	20.0%	2	4	4	10
29-1041	Optometrists	DOCT	50	50		0	1	1	2
29-1051	Pharmacists	DOCT	410	390		-2	7	8	13
29-1071	Physician Assistants	MD	200	280		8	4	10	22
29-1081	Podiatrists	DOCT	30			0		1	2
29-1122	Occupational Therapists	MD	200	240	20.0%	4	5	7	16
29-1123	Physical Therapists	DOCT	300	350	16.7%	5	6	7	18
29-1127	Speech-Language Pathologists	MD+	170		23.5%	4	4	7	15
29-1131	Veterinarians	DOCT	140	180	28.6%	4	2	2	8

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SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
29-1141	Registered Nurses	BD	3,580	3,960	10.6%	38	100	95	233
29-1171	Nurse Practitioners	MD	140	240	71.4%	10	4	6	20
29-1181	Audiologists	DOCT	50	60	20.0%	1	1	1	3
29-1223	Psychiatrists	DOCT	20	20	0.0%	0	0	0	0
29-1292	Dental Hygienists	AD	200	210	5.0%	2	7	5	14
29-2000	Health Technologists & Technicians	N/A	3,620	3,970	9.7%	35	106	160	301
29-2010	Clinical Laboratory Technologists & Technicians	BD	480	560	16.7%	8	13	19	40
29-2032	Diagnostic Medical Sonographers	AD	40	50	25.0%	0	1	2	3
29-2034	Radiologic Technologists	AD	250	270	8.0%	2	7	11	20
29-2040	Emergency Medical Technicians & Paramedics	PS	500	540	8.0%	4	10	24	38
29-2052	Pharmacy Technicians	MT OJT	380	370	-2.6%	0	10	16	26
29-2056	Veterinary Technologists & Technicians	AD	120	160	33.3%	3	4	6	13
29-2061	Licensed Practical & Licensed Vocational Nurses	PS	860	970	12.8%	11	31	38	80
29-2081	Opticians, Dispensing	LT OJT	110	110	0.0%	0	5	4	9
29-2098	Medical Dosimetrists, Records Specialists & Other Techs	PS	390	420	7.7%	4	11	18	33
29-9000	Other Healthcare Practitioners & Technical Occupations	N/A	90	100	11.1%	1	3	4	8
31-0000	Healthcare Support Occupations	N/A	8,430	10,590	25.6%	215	557	584	1,356
31-1100	Nursing, Psychiatric, & Home Health Aides	N/A	5,900	7,520	27.5%	162	430	380	972
31-1120	Home Health & Personal Care Aides	ST OJT	3,690	5,050	36.9%	135	280	248	663
31-2000	Occupational & Physical Therapist Assistants & Aides	N/A	270	340	25.9%	8	14	23	45
31-2021	Physical Therapist Assistants	AD	140	190	35.7%	5	7	12	24
31-2022	Physical Therapist Aides	ST OJT	60	70	16.7%	1	3	5	9
31-9000	Other Healthcare Support Occupations	N/A	2,260	2,730	20.8%	46	114	181	341
31-9091	Dental Assistants	PS	350	380	8.6%	3	17	26	46
31-9092	Medical Assistants	PS	990	1,230	24.2%	24	46	83	153
31-9094	Medical Transcriptionists	PS	100	80	-20.0%	-2	5	8	11
31-9095	Pharmacy Aides	ST OJT	80	60	-25.0%	-2	4	6	8
31-9097	Phlebotomists	PS	310	430	38.7%	12	16	27	55
31-9099	Healthcare Support Workers, Other	ST OJT	40	40	0.0%	0	2	3	5
33-0000	Protective Service Occupations	N/A	2,600	2,660	2.3%	6	134	175	315
33-1000	Supervisors - Protective Service Workers	N/A	210	210	0.0%	1	6	10	17
33-1012	Supervisors - Police & Detectives	WK EXP	70	70	0.0%	0	2	3	5
33-1090	Supervisors - Protective Service Workers	WK EXP	60	60	0.0%	0	2	4	6
33-2000	Fire Fighting & Prevention Workers	N/A	140	150	7.1%	1	3	8	12
33-2011	Firefighters	PS+	140	150	7.1%	1	3		12

SOC		Educ		oyment Out			Annua	l Demand	
Code	Occupational Title	Educ. Level	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
33-3000	Law Enforcement Workers	N/A	1,080	1,090	0.9%	1	33	56	90
33-3021	Detectives & Criminal Investigators	WK EXP	110		0.0%	0	3	5	8
33-3051	Police & Sheriff's Patrol Officers	MT OJT	510		5.9%	3		27	43
33-9000	Other Protective Service Workers	N/A	1,180		2.5%	3		102	197
33-9032	Security Guards	ST OJT	750	730	-2.7%	-2	39	58	95
33-9093	Transportation Security Screeners	ST OJT	80	80	0.0%	0	-	4	7
33-9098	School Bus Monitors & Other Protective Svc Workers	ST OJT	230	260	13.0%	3	34	27	64
35-0000	Food Preparation & Serving Related Occupations	N/A	12,720	14,890	17.1%	217	1,037	1,399	2,653
35-1000	Supervisors, Food Preparation & Serving Workers	N/A	1,140	1,310	14.9%	18	54	125	197
35-1011	Chefs & Head Cooks	WK EXP	20	30	50.0%	0		3	4
35-1012	Supervisors - Food Preparation & Serving Workers	WK EXP	1,110	1,290		18		122	194
35-2000	Cooks & Food Preparation Workers	N/A	3,430			73		328	635
35-2012	Cooks, Institution & Cafeteria	ST OJT	500	550	10.0%	5	31	45	81
35-2014	Cooks, Restaurant	MT OJT	1,610	2,310		70	115	168	353
35-2021	Food Preparation Workers	ST OJT	510	530	3.9%	2	41	48	91
35-3000	Food & Beverage Serving Workers	N/A	6,970	8,000	14.8%	103	629	825	1,557
35-3011	Bartenders	ST OJT	610	730	19.7%	12	30	81	123
35-3023	Fast Food & Counter Workers	ST OJT	3,820	4,360	14.1%	54	397	433	884
35-3031	Waiters & Waitresses	ST OJT	2,220	2,550	14.9%	33	175	285	493
35-3041	Food Servers, Nonrestaurant	ST OJT	320	360	12.5%	4	27	26	57
35-9000	Other Food Preparation & Serving Related Workers	N/A	1,180	1,420	20.3%	24		121	265
35-9011	Dining Room & Cafeteria Attendants & Bartender Helpers	ST OJT	430	530	23.3%	9		41	91
35-9021	Dishwashers	ST OJT	390	460	17.9%	7	32	36	75
37-0000	Building & Grounds Cleaning & Maintenance Occupations	N/A	5,260	5,810	10.5%	54		406	772
37-1000	Supervisors of Building & Grounds Cleaning & Maintenance Workers	N/A	380	390	2.6%	2	15	27	44
37-1011	Supervisors - Housekeeping & Janitorial Workers	WK EXP	260	260	0.0%	0	11	18	29
37-1012	Supervisors - Landscaping & Groundskeeping Workers	WK EXP	120	130	8.3%	1	4	9	14
37-2000	Building Cleaning & Pest Control Workers	N/A	3,580	3,890	8.7%	31	236	258	525
37-2011	Janitors & Cleaners	ST OJT	2,160	2,380	10.2%	22	142	159	323
37-3000	Grounds Maintenance Workers	N/A	1,310	1,530	16.8%	22	61	122	205
37-3011	Landscaping & Groundskeeping Workers	ST OJT	1,230	1,440	17.1%	21	57	114	192
39-0000	Personal Care & Service Occupations	N/A	4,880	5,780	18.4%	90	316	389	795
39-1000	Supervisors, Personal Care & Service Workers	N/A	280	320	14.3%	5	11	21	37
39-1098	Supervisors - Personal Svc/Entertain't/Recr'n Workers	WK EXP	280	320	14.3%	5	11	21	37
39-2000	Animal Care & Service Workers	N/A	450	630	40.0%	18	34	44	96

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SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change		Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
39-3000	Entertainment Attendants & Related Workers	N/A	250			10	29	33	72
39-3091	Amusement & Recreation Attendants	ST OJT	210			8		29	62
39-4000	Funeral Service Workers	N/A	230			1	13	18	32
39-5000	Personal Appearance Workers	N/A	1,470			31	80	90	201
39-5012	Hairdressers, Hairstylists & Cosmetologists	PS	870	,		18		53	122
39-9000	Other Personal Care & Service Workers	N/A	2,170	2,420		25		180	352
39-9011	Childcare Workers	ST OJT	1,430	1,530		10		103	213
39-9031	Fitness Trainers & Aerobics Instructors	ST OJT	360	460	27.8%	10	24	39	73
39-9032	Recreation Workers	ST OJT	280	310	10.7%	2	17	28	47
41-0000	Sales & Related Occupations	N/A	17,860	17,980	0.7%	12	973	1,438	2,423
41-1000	Supervisors - Sales Workers	N/A	2,560	2,460		-10		170	246
41-1011	Supervisors - Retail Sales Workers	WK EXP	2,170	2,100	-3.2%	-8	75	148	215
41-1012	Supervisors - Non-Retail Sales Workers	WK EXP	390	360	-7.7%	-2	11	22	31
41-2000	Retail Sales Workers	N/A	11,180	11,150	-0.3%	-3	754	977	1,728
41-2011	Cashiers	ST OJT	4,870	4,690	-3.7%	-18	406	457	845
41-2022	Parts Salespersons	MT OJT	380	400	5.3%	2	16	30	48
41-2031	Retail Salespersons	ST OJT	5,560	5,650	1.6%	9	313	463	785
41-3000	Sales Representatives, Services	N/A	1,560	1,730	10.9%	18	46	121	185
41-3011	Advertising Sales Agents	MT OJT	70	70	0.0%	0	2	6	8
41-3021	Insurance Sales Agents	MT OJT	420	450	7.1%	4	14	24	42
41-3031	Securities, Commodities & Financial Services Sales Agents	BD+	320	360	12.5%	4	7	21	32
41-3041	Travel Agents	MT OJT	60	60	0.0%	0	-	4	7
41-3091	Sales Representatives - Services	MT OJT	690	790	14.5%	10	19	65	94
41-4000	Sales Representatives, Wholesale & Manufacturing	N/A	1,810	1,870	3.3%	6	54	124	184
41-4011	Sales Representatives, Technical & Scientific Products	BD+	90	100	11.1%	1	3	6	10
41-4012	Sales Representatives	MT OJT	1,720	1,770	2.9%	6	52	118	176
41-9000	Other Sales & Related Workers	N/A	750		1.3%	1	33	45	79
41-9011	Demonstrators & Product Promoters	ST OJT	30	30		0	4	2	6
41-9022	Real Estate Sales Agents	MT OJT	380	390	2.6%	1	16	17	34
41-9031	Sales Engineers	BD+	110	110	0.0%	1	2	9	12
41-9041	Telemarketers	ST OJT	20	20	0.0%	0	1	2	3
43-0000	Office & Administrative Support Occupations	N/A	21,300	20,910	-1.8%	-38	1,010	1,288	2,260
43-1000	Supervisors - Office & Administrative Support Workers	N/A	1,740	1,740	0.0%	1	65	106	172
43-1011	Supervisors - Office & Administrative Support Workers	WK EXP	1,740	1,740	0.0%	1	65	106	172
43-2000	Communications Equipment Operators	N/A	100	70	-30.0%	-2	4	5	7

SOC		Edua		oyment Out				al Demand	
Code	Occupational Title	Educ. Level	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Coue		Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
43-2011	Switchboard Operators	ST OJT	90			-2	4	5	7
43-3000	Financial Clerks	N/A	3,370	3,250		-12	167	185	340
43-3011	Bill & Account Collectors	MT OJT	160		-6.2%	-1	6		16
43-3021	Billing & Posting Clerks	MT OJT	540			1	22	34	57
43-3031	Bookkeeping, Accounting & Auditing Clerks	PS+	1,890	1,820	-3.7%	-7	108	95	196
43-3051	Payroll & Timekeeping Clerks	MT OJT	180	160	-11.1%	-2	8	9	15
43-3071	Tellers	ST OJT	500	460	-8.0%	-4	19	30	45
43-4000	Information & Record Clerks	N/A	4,840	4,870	0.6%	3	242	353	598
43-4031	Court, Municipal & License Clerks	LT OJT	60		16.7%	0	3	3	6
43-4051	Customer Service Representatives	ST OJT	2,320	2,280	-1.7%	-4	108	181	285
43-4061	Eligibility Interviewers, Government Programs	MT OJT	220			1	8	12	21
43-4071	File Clerks	ST OJT	70			0	4	4	8
43-4081	Hotel, Motel & Resort Desk Clerks	ST OJT	150	140	-6.7%	-1	8	15	22
43-4111	Interviewers	ST OJT	160	150	-6.2%	-1	9	10	18
43-4131	Loan Interviewers & Clerks	ST OJT	50		0.0%	0	2	3	5
43-4151	Order Clerks	PS	170	140	-17.6%	-2	6	10	14
43-4161	Human Resources Assistants	AD	130	120	-7.7%	0	5	8	13
43-4171	Receptionists & Information Clerks	ST OJT	1,230	1,330	8.1%	10	72	88	170
43-4199	Information & Record Clerks, Other	ST OJT	130	130	0.0%	0	5	8	13
43-5000	Material Recording, Scheduling, Dispatching & Distributing Workers	N/A	3,230	3,220	-0.3%	-1	119	179	297
43-5011	Cargo & Freight Agents	ST OJT	180		11.1%	2		11	20
43-5021	Couriers & Messengers	ST OJT	210	180	-14.3%	-3	8	11	16
43-5031	Police, Fire & Ambulance Dispatchers	MT OJT	80	80	0.0%	0	3	4	7
43-5032	Dispatchers	MT OJT	120	120		0	4	6	10
43-5051	Postal Service Clerks	ST OJT	80	70	-12.5%	-1	3	3	5
43-5052	Postal Service Mail Carriers	ST OJT	440	410	-6.8%	-3	15	15	27
43-5053	Postal Service Mail Sorters, Processors & Processing Machine Operators	ST OJT	30	30		0	2	1	3
43-5061	Production, Planning & Expediting Clerks	MT OJT	590	620	5.1%	4	22	39	65
43-5071	Shipping, Receiving & Traffic Clerks	ST OJT	1,420	1,410	-0.7%	-1	52	83	134
43-6000	Secretaries & Administrative Assistants	N/A	3,380	3,200	-5.3%	-19	167	184	332
43-6011	Executive Secretaries & Executive Administrative Assistants	WK EXP	340	280	-17.6%	-6	16	18	28
43-6012	Legal Secretaries	MT OJT	50	40	-20.0%	-1	2	3	4
43-6013	Medical Secretaries	MT OJT	590	650	10.2%	7	32	35	74
43-6014	Secretaries	ST OJT	2,400	2,220	-7.5%	-18	118		229
43-9000	Other Office & Administrative Support Workers	N/A	4,650		-1.9%	-8	246		514

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SOC Code	Occupational Title	Educ. Level	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
43-9021	Data Entry Keyers	ST OJT	150			-4	6	8	10
43-9022	Word Processors & Typists	ST OJT	70			-2		3	4
43-9031	Desktop Publishers	AD	10			0	0	1	1
43-9041	Insurance Claims & Policy Processing Clerks	MT OJT	70	70	0.0%	0	2	4	6
43-9051	Mail Clerks & Mail Machine Operators	ST OJT	50	40	-20.0%	0	2	3	5
43-9061	Office Clerks, General	ST OJT	3,990	3,940	-1.3%	-5	216	235	446
43-9071	Office Machine Operators	ST OJT	50	60	20.0%	1	3	3	7
45-0000	Farming, Fishing & Forestry Occupations	N/A	1,360	1,410	3.7%	5		158	221
45-2000	Agricultural Workers	N/A	1,280	1,330	3.9%	5	55	149	209
45-2011	Agricultural Inspectors	BD+	20	20	0.0%	0	1	2	3
45-2041	Graders & Sorters, Agricultural Products	ST OJT	20			0	1	2	3
45-2091	Agricultural Equipment Operators	MT OJT	80	100		1	4	10	15
47-0000	Construction & Extraction Occupations	N/A	8,680	9,140		46	264	604	914
47-1000	Supervisors - Construction & Extraction Workers	N/A	1,150			6		76	115
47-1011	Supervisors - Construction Trades & Extraction Workers	WK EXP	1,150	1,210	5.2%	6	33	76	115
47-2000	Construction Trades Workers	N/A	6,750	7,110	5.3%	36	201	470	707
47-2021	Brickmasons & Blockmasons	LT OJT	120	120	0.0%	0	4	7	11
47-2031	Carpenters	LT OJT	1,180	1,180	0.0%	0	34	74	108
47-2051	Cement Masons & Concrete Finishers	MT OJT	160	160	0.0%	0	4	11	15
47-2061	Construction Laborers	ST OJT	2,070			16		145	225
47-2073	Operating Engineers & Other Construction Equipment Operators	MT OJT	670	700	4.5%	3		49	74
47-2111	Electricians	LT OJT	970	,		9	30	75	114
47-2132	Insulation Workers, Mechanical	LT OJT	30			0	1	2	3
47-2141	Painters, Construction & Maintenance	MT OJT	210	220		1	6	12	19
47-2152	Plumbers, Pipefitters & Steamfitters	LT OJT	360	380	5.6%	2	11	26	39
47-2181	Roofers	MT OJT	330			2	8	24	34
47-2211	Sheet Metal Workers	LT OJT	150	160	6.7%	1	4	10	15
47-2221	Structural Iron & Steel Workers	LT OJT	180	190	5.6%	2	5	14	21
47-3000	Helpers, Construction Trades	N/A	110			0	3	9	12
47-3012	HelpersCarpenters	ST OJT	30	30	0.0%	0	1	2	3
47-4000	Other Construction & Related Workers	N/A	520	550	5.8%	3	22	35	60
47-4011	Construction & Building Inspectors	WK EXP	160		6.2%	0	9	10	19
47-4041	Hazardous Materials Removal Workers	MT OJT	20		0.0%	0	1	2	3
47-4051	Highway Maintenance Workers	MT OJT	220			1	9	14	24
47-4061	Rail-Track Laying & Maintenance Equipment Operators	MT OJT	10	10	0.0%	0	0	1	1

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SOC Code	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code		Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
47-4071	Septic Tank Servicers & Sewer Pipe Cleaners	MT OJT	50			1	2	4	7
47-4090	Miscellaneous Construction & Related Workers	MT OJT	20			0	1	2	3
47-5000	Extraction Workers	N/A	160		0.0%	0	-	14	19
49-0000	Installation, Maintenance & Repair Occupations	N/A	8,790	/		93	287	579	959
49-1000	Supervisors - Installation, Maintenance & Repair Workers	N/A	720			6		45	73
49-1011	Supervisors - Mechanics, Installers & Repairers	WK EXP	720			6		45	73
49-2000	Electrical & Electronic Equipment Mechanics, Installers & Repairers	N/A	1,110	1,280	15.3%	17	38	81	136
49-2011	Computer, Automated Teller & Office Machine Repairers	PS	430			4	13	34	51
49-2022	Telecommunications Equipment Installers & Repairers	PS+	210		47.6%	10		20	39
49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equipment	PS+	160	170		1	5	8	14
49-3000	Vehicle & Mobile Equipment Mechanics, Installers	N/A	2,560			12	80	173	265
49-3011	Aircraft Mechanics & Service Technicians	PS	60			0		3	5
49-3021	Automotive Body & Related Repairers	LT OJT	300			2	10	18	30
49-3023	Automotive Service Technicians & Mechanics	PS	1,220	1,220	0.0%	0	36	83	119
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	LT OJT	460	510	10.9%	5	14	30	49
49-3042	Mobile Heavy Equipment Mechanics	LT OJT	270	290	7.4%	3	8	19	30
49-3043	Rail Car Repairers	LT OJT	10	20	100.0%	0	0	1	1
49-3052	Motorcycle Mechanics	PS	20	20	0.0%	0		2	3
49-9000	Other Installation, Maintenance & Repair Occupations	N/A	4,390	4,970	13.2%	58	148	280	486
49-9021	Heating, A/C & Refrigeration Mechanics & Installers	PS+	490	510		3		34	50
49-9041	Industrial Machinery Mechanics	LT OJT	1,150	1,440	25.2%	29	40	70	139
49-9043	Maintenance Workers, Machinery	LT OJT	100	120	20.0%	2	4	6	12
49-9044	Millwrights	LT OJT	200		10.0%	2	6	12	20
49-9051	Electrical Power-Line Installers & Repairers	LT OJT	250	280	12.0%	3		18	26
49-9071	Maintenance & Repair Workers, General	MT OJT	1,670	1,830	9.6%	16	62	102	180
49-9091	Coin, Vending & Amusement Machine Servicers & Repairers	ST OJT	20			0	1	1	2
49-9094	Locksmiths & Safe Repairers	LT OJT	60	50	-16.7%	-1	2	4	5
49-9098	HelpersInstallation, Maintenance & Repair Workers	ST OJT	100	100	0.0%	1	4	8	13
51-0000	Production Occupations	N/A	18,130	18,250	0.7%	12	660	1,298	1,970
51-1000	Supervisors - Production Workers	N/A	1,420	1,490	4.9%	6	44	98	148
51-1011	Supervisors - Production & Operating Workers	WK EXP	1,420	1,490	4.9%	6	44	98	148
51-2000	Assemblers & Fabricators	N/A	4,260	4,170	-2.1%	-9	158	297	446
51-2028	Electrical, Electronic, & Electromechanical Assemblers	MT OJT	700	720	2.9%	3	28	45	76
51-2041	Structural Metal Fabricators & Fitters	MT OJT	240	220	-8.3%	-2	5	18	21
51-2090	Misc. Assemblers & Fabricators	MT OJT	3,270	3,180	-2.8%	-9	123	230	344

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SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	·	Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
51-3000	Food Processing Workers	N/A	1,020	1,060	3.9%	4	51		
51-3011	Bakers	LT OJT	260	280	7.7%	2	15	20	37
51-3021	Butchers & Meat Cutters	LT OJT	60	60	0.0%	0	2	5	7
51-3091	Food & Tobacco Roasting, Baking & Drying Machine Operators	MT OJT	40	40	0.0%	0	2	3	5
51-3092	Food Batchmakers	MT OJT	550	570	3.6%	2	26	42	70
51-3093	Food Cooking Machine Operators	MT OJT	70	70	0.0%	0	5	7	12
51-4000	Metal Workers & Plastic Workers	N/A	4,240	4,430	4.5%	19	134	310	463
51-4021	Extruding & Drawing Machine Operators	MT OJT	110	100	-9.1%	0	4	6	10
51-4031	Cutting, Punching & Press Machine Operators	MT OJT	430	410	-4.7%	-2	13	29	40
51-4032	Drilling & Boring Machine Tool Operators	MT OJT	10	10	0.0%	0	0	1	1
51-4033	Grinding, Lapping, Polishing & Buffing Machine Tool Operators	MT OJT	140	130	-7.1%	0	6	9	15
51-4034	Lathe & Turning Machine Tool Operators	MT OJT	20	10	-50.0%	0	0	1	1
51-4041	Machinists	LT OJT	800	850	6.2%	5	28	56	89
51-4051	Metal-Refining Furnace Operators	MT OJT	30	30	0.0%	0	1	2	3
51-4062	Patternmakers	MT OJT	10	10	0.0%	0	0	1	1
51-4071	Foundry Mold & Coremakers	MT OJT	10	10	0.0%	0	0	1	1
51-4072	Molding, Coremaking & Casting Machine Operators	MT OJT	320	300	-6.2%	-1	10	21	30
51-4081	Multiple Machine Tool Operators	MT OJT	550	580	5.5%	3	18	38	59
51-4111	Tool & Die Makers	PS+	190	190	0.0%	0	7	12	19
51-4121	Welders, Cutters, Solderers & Brazers	MT OJT	1,370	1,530	11.7%	16	38	114	168
51-4122	Welding, Soldering & Brazing Machine Operators	MT OJT	80	70	-12.5%	-1	2	6	7
51-4193	Plating & Coating Machine Operators	MT OJT	80	90	12.5%	0	3	6	9
51-4199	Metal Workers & Plastic Workers, Other	MT OJT	60	60	0.0%	0	2	4	6
51-5100	Printing Workers	N/A	620	580	-6.5%	-4	24	43	63
51-5111	Prepress Technician & Workers	PS	100	90	-10.0%	-2	4	9	11
51-5112	Printing Press Operators	MT OJT	370	360	-2.7%	-1	13	26	38
51-5113	Print Binding & Finishing Workers	MT OJT	150	130	-13.3%	-1	7	9	15
51-6000	Textile, Apparel & Furnishings Workers	N/A	530	530	0.0%	-1	31	32	62
51-6011	Laundry & Dry-Cleaning Workers	ST OJT	170	180	5.9%	1	11	12	24
51-6021	Pressers: Textile, Garment & Related Materials	ST OJT	70	60	-14.3%	-1	3	4	6
51-6031	Sewing Machine Operators	ST OJT	190	180	-5.3%	-1	11	10	20
51-7000	Woodworkers	N/A	330	360	9.1%	3	13	23	
51-7011	Cabinetmakers & Bench Carpenters	MT OJT	140	150	7.1%	1	6		
51-7041	Sawing Machine Operators, Wood	MT OJT	70	80	14.3%	1	2	6	
51-7042	Woodworking Machine Operators	MT OJT	90	100	11.1%	1	3		11

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SOC	Occupational Title	Educ.	Estimated	Projected	Percent	Due to	Due to	Due to	Total
Code	•	Level	2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
51-8000	Plant & System Operators	N/A	610	570	-6.6%	-5	17	39	51
51-8013	Power Plant Operators	LT OJT	90	80	-11.1%	-1	2	6	7
51-8021	Stationary Engineers & Boiler Operators	LT OJT	50	50	0.0%	0	2	3	5
51-8031	Water & Wastewater Treatment Plant & System Operators	LT OJT	330	320	-3.0%	-1	9	20	28
51-9000	Other Production Occupations	N/A	5,100	5,080	-0.4%	-2	189	378	565
51-9011	Chemical Equipment Operators	MT OJT	200	190	-5.0%	-1	4	15	18
51-9012	Separating, Filtering, Clarifying, Precipitating & Still Machine Operators	MT OJT	110	110	0.0%	0	2	8	10
51-9021	Crushing, Grinding & Polishing Machine Operators	MT OJT	30	30		0	1	2	3
51-9022	Grinding & Polishing Workers, Hand	MT OJT	60	50	-16.7%	0			6
51-9023	Mixing & Blending Machine Operators	MT OJT	100	100	0.0%	0	3		10
51-9032	Cutting & Slicing Machine Operators	MT OJT	150	150		0			
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	MT OJT	1,000	900	-10.0%	-10	36	75	101
51-9081	Dental Laboratory Technicians	MT OJT	20	20	0.0%	0	1	1	2
51-9083	Ophthalmic Laboratory Technicians	MT OJT	30	30	0.0%	0	1	3	4
51-9111	Packaging & Filling Machine Operators	MT OJT	670	710	6.0%	4	28	46	78
51-9124	Coating, Painting & Spraying Machine Setters/Oprs/Tenders	MT OJT	450	480	6.7%	2	13	33	48
51-9161	CNC Tool Operators	MT OJT	680	650	-4.4%	-3	23	49	69
51-9162	CNC Tool Programmers	PS+	40	50	25.0%	1	2	4	7
51-9196	Paper Goods Machine Operators	MT OJT	590	570	-3.4%	-2	26	39	63
51-9198	HelpersProduction Workers	ST OJT	350	330	-5.7%	-2	16	32	46
53-0000	Transportation & Material Moving Occupations	N/A	22,680	25,210	11.2%	253	1,112	1,902	3,267
53-1000	Supervisors - Transportation & Material Moving Workers	N/A	850	890	4.7%	5	32		-
53-3000	Motor Vehicle Operators	N/A	6,900	7,710	11.7%	81	337		
53-3032	Heavy & Tractor-Trailer Truck Drivers	PS	3,340	3,560	6.6%	22	141	234	
53-3033	Light Truck or Delivery Services Drivers	ST OJT	1,430	1,520	6.3%	9	60		
53-3052	Bus Drivers, Transit & Intercity	MT OJT	240	280	16.7%	4	17		
53-3058	Passenger Vehicle Drivers	ST OJT	1,010	1,350	33.7%	34	78	58	170
53-3099	Motor Vehicle Operators, Other	ST OJT	30	30		0	3	2	5
53-4000	Rail Transportation Workers	N/A	100	110	10.0%	1	2	7	10
53-4011	Locomotive Engineers	WK EXP	30	30	0.0%	0	1	2	3
53-4031	Railroad Conductors & Yardmasters	MT OJT	50	60	20.0%	0	1	4	5
53-6000	Other Transportation Workers	N/A	270	300	11.1%	3	15	23	41
53-6021	Parking Lot Attendants	ST OJT	40	50		0	2		7
53-6051	Transportation Inspectors	MT OJT	60	60	0.0%	0	2		6
53-7000	Material Moving Workers	N/A	14,490	16,120	11.2%	164	724	1,338	2,226

SOC Code	Occupational Title	Educ. Level	Employment Outlook			Annual Demand			
			Estimated	Projected	Percent	Due to	Due to	Due to	Total
			2020	2030	Change	Growth <sup>1/</sup>	Exits <sup>2/</sup>	Transfers <sup>3/</sup>	Demand 4/
53-7011	Conveyor Operators	ST OJT	80	80	0.0%	0	2	7	9
53-7051	Industrial Truck & Tractor Operators	ST OJT	2,250	2,520	12.0%	26	72	183	281
53-7061	Cleaners of Vehicles & Equipment	ST OJT	370	420	13.5%	4	19	35	58
53-7062	Laborers & Freight, Stock & Material Movers	ST OJT	5,060	5,580	10.3%	52	233	463	748
53-7064	Packers & Packagers, Hand	ST OJT	1,730	1,870	8.1%	14	102	146	262
53-7065	Stockers & Order Fillers	ST OJT	4,170	4,750	13.9%	57	254	435	746

### FOOTNOTES:

Data may not add to totals due to rounding. Confidential data and occupations with employment less than 10 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.