

**NORTH CENTRAL WORKFORCE INVESTMENT AREA OCCUPATIONAL OUTLOOK, 2006-2016**

Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
00-0000	Total, All Occupations	103,920	110,570	6,650	6.40%	31,490	\$15.17	
11-1011	Chief Executives	660	670	10	1.52%	180	\$54.44	Bachelor's or higher degree, plus work experience
11-1021	General and Operations Managers	1,540	1,510	-30	-1.95%	370	\$34.94	Bachelor's or higher degree, plus work experience
11-1031	Legislators	70	70	0	0.00%	0	N/A	Bachelor's or higher degree, plus work experience
11-2011	Advertising and Promotions Managers	20	20	0	0.00%	0	\$24.93	Bachelor's or higher degree, plus work experience
11-2021	Marketing Managers	80	80	0	0.00%	20	\$35.54	Bachelor's or higher degree, plus work experience
11-2022	Sales Managers	80	80	0	0.00%	20	\$36.32	Bachelor's or higher degree, plus work experience
11-2031	Public Relations Managers	30	30	0	0.00%	10	\$28.02	Bachelor's or higher degree, plus work experience
11-3021	Computer and Information Systems Managers	80	90	10	12.50%	20	\$31.34	Bachelor's or higher degree, plus work experience
11-3031	Financial Managers	290	310	20	6.90%	60	\$35.67	Bachelor's or higher degree, plus work experience
11-3041	Compensation and Benefits Managers	40	40	0	0.00%	10	\$38.12	Bachelor's or higher degree, plus work experience
11-3042	Training and Development Managers	30	30	0	0.00%	10	\$21.00	Bachelor's or higher degree, plus work experience
11-3051	Industrial Production Managers	210	230	20	9.52%	90	\$32.84	Work experience in a related occupation
11-3061	Purchasing Managers	50	50	0	0.00%	20	\$37.21	Bachelor's or higher degree, plus work experience
11-3071	Transportation, Storage, and Distribution Managers	50	50	0	0.00%	20	\$31.40	Work experience in a related occupation
11-9021	Construction Managers	220	260	40	18.18%	70	\$30.27	Bachelor's degree
11-9032	Education Administrators, Elementary and Secondary School	170	180	10	5.88%	50	N/A	Bachelor's or higher degree, plus work experience
11-9041	Engineering Managers	110	130	20	18.18%	40	\$47.26	Bachelor's or higher degree, plus work experience
11-9051	Food Service Managers	230	210	-20	-8.70%	50	\$19.41	Work experience in a related occupation
11-9111	Medical and Health Services Managers	230	230	0	0.00%	50	\$30.08	Bachelor's or higher degree, plus work experience
11-9131	Postmasters and Mail Superintendents	80	70	-10	-12.50%	20	\$24.87	Work experience in a related occupation
11-9141	Property, Real Estate, and Community Association Managers	190	240	50	26.32%	80	\$16.13	Bachelor's degree
11-9151	Social and Community Service Managers	70	80	10	14.29%	30	\$15.28	Bachelor's degree
11-9199	Managers, All Other	230	250	20	8.70%	70	\$39.40	Work experience in a related occupation
13-1022	Wholesale and Retail Buyers, Except Farm Products	90	90	0	0.00%	20	\$28.40	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	170	170	0	0.00%	40	\$22.28	Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Health and	180	190	10	5.56%	40	\$20.14	Long-term on-the-job training
13-1051	Cost Estimators	80	100	20	25.00%	40	\$18.53	Bachelor's degree
13-1071	Employment, Recruitment, and Placement Specialists	110	120	10	9.09%	30	\$11.20	Bachelor's degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	40	50	10	25.00%	10	\$18.61	Bachelor's degree
13-1073	Training and Development Specialists	160	180	20	12.50%	50	\$17.83	Bachelor's or higher degree, plus work experience
13-1079	Human Resources, Training, and Labor Relations Specialists, All	30	40	10	33.33%	10	\$23.83	Bachelor's degree
13-1111	Management Analysts	330	360	30	9.09%	80	\$34.42	Bachelor's or higher degree, plus work experience
13-1199	Business Operations Specialists, All Other	270	290	20	7.41%	50	\$24.66	Bachelor's degree
13-2011	Accountants and Auditors	740	930	190	25.68%	320	\$24.24	Bachelor's degree
13-2041	Credit Analysts	50	50	0	0.00%	20	\$21.51	Bachelor's degree
13-2051	Financial Analysts	50	60	10	20.00%	10	\$38.13	Bachelor's degree
13-2052	Personal Financial Advisors	50	60	10	20.00%	10	\$19.70	Bachelor's degree
13-2072	Loan Officers	260	280	20	7.69%	50	\$26.13	Bachelor's degree
15-1021	Computer Programmers	140	110	-30	-21.43%	30	\$23.37	Bachelor's degree
15-1031	Computer Software Engineers, Applications	150	230	80	53.33%	100	\$21.07	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	70	90	20	28.57%	30	\$29.10	Bachelor's degree
15-1041	Computer Support Specialists	670	700	30	4.48%	240	\$18.40	Associate degree
15-1051	Computer Systems Analysts	190	220	30	15.79%	80	\$27.42	Bachelor's degree
15-1061	Database Administrators	30	30	0	0.00%	10	\$29.78	Bachelor's degree
15-1071	Network and Computer Systems Administrators	100	130	30	30.00%	50	\$23.69	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	130	200	70	53.85%	100	\$24.56	Bachelor's degree
15-2031	Operations Research Analysts	80	90	10	12.50%	30	N/A	Master's degree
17-1022	Surveyors	40	60	20	50.00%	30	\$20.25	Bachelor's degree
17-2041	Chemical Engineers	60	70	10	16.67%	20	\$43.89	Bachelor's degree
17-2051	Civil Engineers	110	130	20	18.18%	50	\$37.57	Bachelor's degree
17-2061	Computer Hardware Engineers	20	30	10	50.00%	10	\$28.28	Bachelor's degree
17-2071	Electrical Engineers	80	90	10	12.50%	30	\$31.52	Bachelor's degree
17-2072	Electronics Engineers, Except Computer	40	40	0	0.00%	10	\$35.89	Bachelor's degree

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17-2111	Health and Safety Engineers, Except Mining Safety Engineers and	20	20	0	0.00%	10	\$35.55	Bachelor's degree
17-2112	Industrial Engineers	90	120	30	33.33%	50	\$43.67	Bachelor's degree
17-2141	Mechanical Engineers	200	220	20	10.00%	60	\$34.41	Bachelor's degree
17-2171	Petroleum Engineers	290	360	70	24.14%	140	\$52.78	Bachelor's degree
17-3011	Architectural and Civil Drafters	20	30	10	50.00%	10	\$19.43	Postsecondary vocational training
17-3012	Electrical and Electronics Drafters	40	40	0	0.00%	10	\$24.59	Postsecondary vocational training
17-3013	Mechanical Drafters	140	180	40	28.57%	70	\$16.28	Postsecondary vocational training
17-3022	Civil Engineering Technicians	40	40	0	0.00%	10	\$20.17	Associate degree
17-3023	Electrical and Electronic Engineering Technicians	50	50	0	0.00%	10	\$25.01	Associate degree
17-3026	Industrial Engineering Technicians	30	40	10	33.33%	10	\$25.95	Associate degree
17-3027	Mechanical Engineering Technicians	40	40	0	0.00%	10	N/A	Associate degree
17-3029	Engineering Technicians, Except Drafters, All Other	20	20	0	0.00%	0	\$20.07	Associate degree
17-3031	Surveying and Mapping Technicians	40	50	10	25.00%	10	\$13.01	Moderate-term on-the-job training
19-1031	Conservation Scientists	80	80	0	0.00%	20	\$32.51	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	40	50	10	25.00%	10	\$33.25	Master's degree
19-3021	Market Research Analysts	140	160	20	14.29%	30	\$32.16	Bachelor's degree
19-3031	Clinical, Counseling, and School Psychologists	150	160	10	6.67%	30	\$21.08	Doctoral degree
19-4041	Geological and Petroleum Technicians	100	120	20	20.00%	50	\$14.78	Associate degree
21-1011	Substance Abuse and Behavioral Disorder Counselors	160	190	30	18.75%	70	\$15.86	Bachelor's degree
21-1012	Educational, Vocational, and School Counselors	530	560	30	5.66%	140	\$18.18	Master's degree
21-1014	Mental Health Counselors	80	90	10	12.50%	30	\$14.33	Master's degree
21-1021	Child, Family, and School Social Workers	200	210	10	5.00%	50	\$12.54	Bachelor's degree
21-1022	Medical and Public Health Social Workers	60	70	10	16.67%	20	\$20.17	Bachelor's degree
21-1023	Mental Health and Substance Abuse Social Workers	30	30	0	0.00%	10	\$16.05	Master's degree
21-1093	Social and Human Service Assistants	80	90	10	12.50%	10	\$12.86	Moderate-term on-the-job training
23-1011	Lawyers	190	220	30	15.79%	60	\$41.30	First professional degree
23-2011	Paralegals and Legal Assistants	50	60	10	20.00%	20	\$17.97	Associate degree
23-2093	Title Examiners, Abstractors, and Searchers	60	70	10	16.67%	20	\$15.92	Moderate-term on-the-job training
25-1194	Vocational Education Teachers, Postsecondary	70	90	20	28.57%	30	\$13.10	Bachelor's or higher degree, plus work experience
25-2011	Preschool Teachers, Except Special Education	360	410	50	13.89%	110	\$12.59	Postsecondary vocational training
25-2012	Kindergarten Teachers, Except Special Education	150	160	10	6.67%	40	N/A	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	900	980	80	8.89%	280	N/A	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Education	710	760	50	7.04%	210	N/A	Bachelor's degree
25-2023	Vocational Education Teachers, Middle School	60	60	0	0.00%	10	N/A	Bachelor's or higher degree, plus work experience
25-2031	Secondary School Teachers, Except Special and Vocational Education	760	770	10	1.32%	240	N/A	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	90	80	-10	-11.11%	30	N/A	Bachelor's or higher degree, plus work experience
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary	130	150	20	15.38%	50	N/A	Bachelor's degree
25-2042	Special Education Teachers, Middle School	70	80	10	14.29%	30	N/A	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	110	110	0	0.00%	30	N/A	Bachelor's degree
25-3021	Self-Enrichment Education Teachers	60	70	10	16.67%	20	\$11.89	Work experience in a related occupation
25-3099	Teachers and Instructors, All Other	540	560	20	3.70%	80	N/A	Bachelor's degree
25-4031	Library Technicians	200	210	10	5.00%	110	\$9.93	Postsecondary vocational training
25-9031	Instructional Coordinators	360	420	60	16.67%	110	\$23.06	Master's degree
25-9041	Teacher Assistants	980	1,010	30	3.06%	200	N/A	Short-term on-the-job training
27-1023	Floral Designers	110	100	-10	-9.09%	30	\$8.44	Moderate-term on-the-job training
27-1024	Graphic Designers	110	130	20	18.18%	40	\$13.89	Bachelor's degree
27-1026	Merchandise Displayers and Window Trimmers	20	20	0	0.00%	10	\$11.77	Moderate-term on-the-job training
27-2012	Producers and Directors	50	50	0	0.00%	10	\$9.19	Bachelor's or higher degree, plus work experience
27-2022	Coaches and Scouts	110	120	10	9.09%	40	N/A	Long-term on-the-job training
27-3011	Radio and Television Announcers	50	40	-10	-20.00%	20	\$8.84	Long-term on-the-job training
27-3031	Public Relations Specialists	60	60	0	0.00%	10	\$20.89	Bachelor's degree
27-3041	Editors	50	50	0	0.00%	20	\$14.78	Bachelor's degree
27-3042	Technical Writers	20	30	10	50.00%	10	\$23.46	Bachelor's degree
27-3043	Writers and Authors	70	80	10	14.29%	20	\$16.06	Bachelor's degree

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27-3091	Interpreters and Translators	60	70	10	16.67%	20	\$10.37	Long-term on-the-job training
27-4021	Photographers	130	150	20	15.38%	50	\$10.65	Long-term on-the-job training
29-1031	Dietitians and Nutritionists	40	30	-10	-25.00%	10	\$21.83	Bachelor's degree
29-1041	Optometrists	40	40	0	0.00%	10	N/A	First professional degree
29-1051	Pharmacists	170	190	20	11.76%	50	\$45.02	First professional degree
29-1062	Family and General Practitioners	80	80	0	0.00%	10	\$96.09	First professional degree
29-1067	Surgeons	20	20	0	0.00%	0	\$105.67	First professional degree
29-1069	Physicians and Surgeons, All Other	300	310	10	3.33%	60	\$33.74	First professional degree
29-1071	Physician Assistants	70	70	0	0.00%	20	\$37.92	Master's degree
29-1111	Registered Nurses	1,280	1,380	100	7.81%	310	\$24.05	Associate degree
29-1122	Occupational Therapists	40	40	0	0.00%	10	\$28.20	Master's degree
29-1123	Physical Therapists	110	130	20	18.18%	30	\$34.20	Master's degree
29-1126	Respiratory Therapists	70	80	10	14.29%	20	\$21.58	Associate degree
29-1127	Speech-Language Pathologists	80	80	0	0.00%	20	\$24.08	Master's degree
29-2011	Medical and Clinical Laboratory Technologists	80	80	0	0.00%	10	\$23.61	Bachelor's degree
29-2012	Medical and Clinical Laboratory Technicians	50	50	0	0.00%	10	\$14.09	Associate degree
29-2021	Dental Hygienists	50	60	10	20.00%	20	\$31.60	Associate degree
29-2031	Cardiovascular Technologists and Technicians	20	20	0	0.00%	10	\$15.74	Associate degree
29-2034	Radiologic Technologists and Technicians	110	110	0	0.00%	20	\$20.71	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	140	160	20	14.29%	30	\$12.89	Postsecondary vocational training
29-2051	Dietetic Technicians	70	70	0	0.00%	20	\$8.90	Postsecondary vocational training
29-2052	Pharmacy Technicians	200	240	40	20.00%	100	\$10.73	Moderate-term on-the-job training
29-2054	Respiratory Therapy Technicians	20	20	0	0.00%	10	\$17.27	Associate degree
29-2055	Surgical Technologists	60	70	10	16.67%	20	\$15.45	Postsecondary vocational training
29-2061	Licensed Practical and Licensed Vocational Nurses	820	820	0	0.00%	230	\$15.44	Postsecondary vocational training
29-2071	Medical Records and Health Information Technicians	120	120	0	0.00%	30	\$11.99	Associate degree
29-2081	Opticians, Dispensing	50	50	0	0.00%	20	\$12.15	Long-term on-the-job training
29-9011	Occupational Health and Safety Specialists	70	70	0	0.00%	10	\$35.19	Bachelor's degree
29-9012	Occupational Health and Safety Technicians	20	20	0	0.00%	0	\$21.29	Bachelor's degree
31-1011	Home Health Aides	290	390	100	34.48%	120	\$8.94	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	1,350	1,390	40	2.96%	170	\$8.97	Postsecondary vocational training
31-2011	Occupational Therapist Assistants	20	20	0	0.00%	10	\$17.28	Associate degree
31-2021	Physical Therapist Assistants	30	40	10	33.33%	10	\$18.03	Associate degree
31-2022	Physical Therapist Aides	20	20	0	0.00%	0	\$10.33	Short-term on-the-job training
31-9011	Massage Therapists	80	100	20	25.00%	20	\$7.47	Postsecondary vocational training
31-9091	Dental Assistants	220	250	30	13.64%	70	\$14.95	Moderate-term on-the-job training
31-9092	Medical Assistants	400	460	60	15.00%	110	\$10.54	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	20	20	0	0.00%	0	\$12.11	Short-term on-the-job training
31-9094	Medical Transcriptionists	80	70	-10	-12.50%	10	\$13.21	Postsecondary vocational training
31-9099	Healthcare Support Workers, All Other	90	90	0	0.00%	10	\$9.89	Short-term on-the-job training
33-1012	First-Line Supervisors/Managers of Police and Detectives	100	110	10	10.00%	40	\$24.22	Work experience in a related occupation
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention V	80	90	10	12.50%	40	\$20.05	Work experience in a related occupation
33-2011	Fire Fighters	290	340	50	17.24%	150	\$14.33	Long-term on-the-job training
33-3012	Correctional Officers and Jailers	610	740	130	21.31%	270	\$12.05	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	50	60	10	20.00%	20	\$26.56	Work experience in a related occupation
33-3051	Police and Sheriff's Patrol Officers	640	700	60	9.38%	230	\$16.99	Long-term on-the-job training
33-9011	Animal Control Workers	30	40	10	33.33%	10	\$10.88	Moderate-term on-the-job training
33-9032	Security Guards	340	370	30	8.82%	100	\$11.32	Short-term on-the-job training
33-9091	Crossing Guards	30	20	-10	-33.33%	10	\$7.41	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service	50	60	10	20.00%	40	\$7.31	Short-term on-the-job training
35-1011	Chefs and Head Cooks	40	40	0	0.00%	10	\$11.32	Work experience in a related occupation
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving	490	490	0	0.00%	40	\$12.15	Work experience in a related occupation
35-2011	Cooks, Fast Food	1,420	1,370	-50	-3.52%	380	\$7.15	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	440	440	0	0.00%	120	\$7.94	Moderate-term on-the-job training

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35-2014	Cooks, Restaurant	520	510	-10	-1.92%	140	\$8.24	Long-term on-the-job training
35-2015	Cooks, Short Order	140	130	-10	-7.14%	40	\$7.72	Short-term on-the-job training
35-2021	Food Preparation Workers	400	430	30	7.50%	170	\$7.47	Short-term on-the-job training
35-3011	Bartenders	170	170	0	0.00%	60	\$7.45	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast	1,240	1,310	70	5.65%	300	\$7.20	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Sho	230	240	10	4.35%	170	\$7.39	Short-term on-the-job training
35-3031	Waiters and Waitresses	1,610	1,580	-30	-1.86%	870	\$7.75	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	170	170	0	0.00%	30	\$7.91	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	80	70	-10	-12.50%	30	\$8.21	Short-term on-the-job training
35-9021	Dishwashers	260	260	0	0.00%	110	\$7.42	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	160	150	-10	-6.25%	110	\$6.86	Short-term on-the-job training
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial W	150	160	10	6.67%	30	\$14.36	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, a	260	300	40	15.38%	50	\$12.13	Work experience in a related occupation
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1,660	1,790	130	7.83%	450	\$9.16	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	700	750	50	7.14%	180	\$8.40	Short-term on-the-job training
37-2021	Pest Control Workers	30	40	10	33.33%	10	\$12.32	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	560	600	40	7.14%	120	\$8.82	Short-term on-the-job training
39-1011	Gaming Supervisors	50	50	0	0.00%	20	\$19.27	Work experience in a related occupation
39-1012	Slot Key Persons	60	60	0	0.00%	10	\$9.90	Postsecondary vocational training
39-1021	First-Line Supervisors/Managers of Personal Service Workers	50	50	0	0.00%	10	\$17.81	Work experience in a related occupation
39-3012	Gaming and Sports Book Writers and Runners	40	50	10	25.00%	20	\$9.68	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	40	40	0	0.00%	30	\$7.79	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	70	80	10	14.29%	40	\$9.16	Short-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	560	630	70	12.50%	140	\$8.04	Postsecondary vocational training
39-9011	Child Care Workers	400	470	70	17.50%	190	\$7.99	Short-term on-the-job training
39-9021	Personal and Home Care Aides	280	380	100	35.71%	140	\$8.35	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	160	180	20	12.50%	60	\$9.92	Postsecondary vocational training
39-9032	Recreation Workers	360	380	20	5.56%	90	\$8.56	Short-term on-the-job training
39-9041	Residential Advisors	80	90	10	12.50%	30	\$12.00	Short-term on-the-job training
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	1,510	1,490	-20	-1.32%	320	\$15.06	Work experience in a related occupation
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	190	180	-10	-5.26%	30	\$25.69	Work experience in a related occupation
41-2011	Cashiers	3,410	3,130	-280	-8.21%	1,620	\$7.79	Short-term on-the-job training
41-2021	Counter and Rental Clerks	300	400	100	33.33%	210	\$8.85	Short-term on-the-job training
41-2022	Parts Salespersons	240	220	-20	-8.33%	30	\$13.88	Moderate-term on-the-job training
41-2031	Retail Salespersons	3,340	3,530	190	5.69%	1,210	\$9.41	Short-term on-the-job training
41-3011	Advertising Sales Agents	70	80	10	14.29%	20	\$16.01	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	60	70	10	16.67%	20	\$22.92	Bachelor's degree
41-3031	Securities, Commodities, and Financial Services Sales Agents	60	70	10	16.67%	30	\$45.84	Bachelor's degree
41-3041	Travel Agents	20	10	-10	-50.00%	0	\$11.00	Postsecondary vocational training
41-3099	Sales Representatives, Services, All Other	60	70	10	16.67%	30	\$26.40	Work experience in a related occupation
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical S	180	200	20	11.11%	60	\$22.45	Work experience in a related occupation
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Tex	480	520	40	8.33%	140	\$21.68	Work experience in a related occupation
41-9021	Real Estate Brokers	60	80	20	33.33%	40	\$19.84	Work experience in a related occupation
41-9022	Real Estate Sales Agents	170	240	70	41.18%	90	\$14.30	Postsecondary vocational training
41-9031	Sales Engineers	30	30	0	0.00%	10	\$27.03	Bachelor's degree
41-9041	Telemarketers	300	230	-70	-23.33%	110	\$9.35	Short-term on-the-job training
43-1011	First-Line Supervisors/Managers of Office and Administrative Sup	880	900	20	2.27%	200	\$18.94	Work experience in a related occupation
43-2011	Switchboard Operators, Including Answering Service	180	160	-20	-11.11%	40	\$9.74	Short-term on-the-job training
43-3011	Bill and Account Collectors	260	280	20	7.69%	60	\$12.12	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	380	370	-10	-2.63%	50	\$11.32	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,760	1,890	130	7.39%	410	\$11.74	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	140	140	0	0.00%	40	\$13.98	Moderate-term on-the-job training
43-3061	Procurement Clerks	70	70	0	0.00%	10	\$12.25	Moderate-term on-the-job training
43-3071	Tellers	510	570	60	11.76%	280	\$9.64	Short-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
43-4031	Court, Municipal, and License Clerks	180	200	20	11.11%	70	\$12.67	Short-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	30	30	0	0.00%	10	\$19.54	Short-term on-the-job training
43-4051	Customer Service Representatives	1,130	1,310	180	15.93%	490	\$11.85	Moderate-term on-the-job training
43-4071	File Clerks	130	70	-60	-46.15%	30	\$8.84	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	110	110	0	0.00%	30	\$11.06	Short-term on-the-job training
43-4121	Library Assistants, Clerical	50	60	10	20.00%	20	\$10.73	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	160	160	0	0.00%	30	\$13.69	Short-term on-the-job training
43-4141	New Accounts Clerks	110	90	-20	-18.18%	30	\$12.52	Work experience in a related occupation
43-4151	Order Clerks	80	70	-10	-12.50%	20	\$13.62	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,060	1,120	60	5.66%	140	\$15.40	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	630	700	70	11.11%	220	\$9.74	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	60	50	-10	-16.67%	10	\$14.59	Short-term on-the-job training
43-5021	Couriers and Messengers	90	80	-10	-11.11%	20	\$9.42	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	110	130	20	18.18%	40	\$11.30	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	140	140	0	0.00%	40	\$12.58	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	60	50	-10	-16.67%	20	\$10.68	Short-term on-the-job training
43-5051	Postal Service Clerks	40	40	0	0.00%	10	\$26.24	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	360	340	-20	-5.56%	110	\$23.18	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine	90	80	-10	-11.11%	10	\$18.06	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	230	240	10	4.35%	80	\$23.08	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	360	380	20	5.56%	100	\$11.39	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	1,080	960	-120	-11.11%	260	\$9.31	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	1,590	1,730	140	8.81%	390	\$15.99	Work experience in a related occupation
43-6012	Legal Secretaries	200	230	30	15.00%	60	\$12.62	Associate degree
43-6013	Medical Secretaries	170	170	0	0.00%	30	\$11.88	Moderate-term on-the-job training
43-6014	Secretaries, Except Legal, Medical, and Executive	1,490	1,500	10	0.67%	250	\$11.02	Moderate-term on-the-job training
43-9021	Data Entry Keyers	80	80	0	0.00%	20	\$11.40	Moderate-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	200	200	0	0.00%	20	\$12.45	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	70	60	-10	-14.29%	20	\$8.76	Short-term on-the-job training
43-9061	Office Clerks, General	1,760	1,900	140	7.95%	460	\$7.91	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	30	30	0	0.00%	10	\$9.19	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	30	30	0	0.00%	10	\$11.08	Moderate-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and Extr	630	680	50	7.94%	140	\$25.38	Work experience in a related occupation
47-2031	Carpenters	670	760	90	13.43%	180	\$12.41	Long-term on-the-job training
47-2041	Carpet Installers	100	100	0	0.00%	20	\$9.23	Moderate-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	260	280	20	7.69%	100	\$14.26	Moderate-term on-the-job training
47-2061	Construction Laborers	730	800	70	9.59%	120	\$11.10	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	170	190	20	11.76%	50	\$13.46	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operator	430	470	40	9.30%	120	\$16.82	Moderate-term on-the-job training
47-2111	Electricians	430	480	50	11.63%	160	\$17.21	Long-term on-the-job training
47-2141	Painters, Construction and Maintenance	140	170	30	21.43%	50	\$13.93	Moderate-term on-the-job training
47-2151	Pipelayers	60	70	10	16.67%	20	\$10.64	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	490	530	40	8.16%	140	\$17.63	Long-term on-the-job training
47-2181	Roofers	50	60	10	20.00%	20	\$10.91	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	130	150	20	15.38%	50	\$14.28	Long-term on-the-job training
47-3012	Helpers--Carpenters	90	100	10	11.11%	40	\$11.34	Short-term on-the-job training
47-3013	Helpers--Electricians	80	80	0	0.00%	20	\$12.59	Short-term on-the-job training
47-4011	Construction and Building Inspectors	30	40	10	33.33%	10	\$22.69	Work experience in a related occupation
47-4051	Highway Maintenance Workers	100	110	10	10.00%	30	\$11.80	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	180	180	0	0.00%	20	\$20.12	Moderate-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	430	440	10	2.33%	50	\$23.46	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	130	130	0	0.00%	20	\$31.93	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	210	210	0	0.00%	60	\$13.98	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	350	370	20	5.71%	130	\$23.68	Short-term on-the-job training

**NORTH CENTRAL WORKFORCE INVESTMENT AREA OCCUPATIONAL OUTLOOK, 2006-2016**

Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Re	320	350	30	9.38%	100	\$26.10	Work experience in a related occupation
49-2011	Computer, Automated Teller, and Office Machine Repairers	100	80	-20	-20.00%	10	\$18.95	Postsecondary vocational training
49-2022	Telecommunications Equipment Installers and Repairers, Except I	80	70	-10	-12.50%	20	\$21.74	Postsecondary vocational training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial E	100	120	20	20.00%	50	\$20.18	Postsecondary vocational training
49-3021	Automotive Body and Related Repairers	120	130	10	8.33%	40	\$12.74	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	580	640	60	10.34%	170	\$13.31	Postsecondary vocational training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	240	280	40	16.67%	90	\$15.42	Postsecondary vocational training
49-3041	Farm Equipment Mechanics	70	70	0	0.00%	10	\$14.23	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	130	170	40	30.77%	70	\$18.71	Long-term on-the-job training
49-3052	Motorcycle Mechanics	30	30	0	0.00%	10	\$11.40	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	110	100	-10	-9.09%	20	\$14.35	Moderate-term on-the-job training
49-3093	Tire Repairers and Changers	60	60	0	0.00%	20	\$9.98	Short-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Dc	100	90	-10	-10.00%	20	\$22.09	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Install	250	290	40	16.00%	80	\$16.07	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	260	320	60	23.08%	100	\$17.33	Long-term on-the-job training
49-9042	Maintenance and Repair Workers, General	960	1,070	110	11.46%	140	\$13.92	Moderate-term on-the-job training
49-9043	Maintenance Workers, Machinery	80	80	0	0.00%	10	\$18.09	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	180	180	0	0.00%	60	\$20.42	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	130	120	-10	-7.69%	40	\$12.82	Long-term on-the-job training
49-9062	Medical Equipment Repairers	60	70	10	16.67%	30	\$15.07	Associate degree
49-9098	Helpers--Installation, Maintenance, and Repair Workers	160	200	40	25.00%	80	\$10.13	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	50	60	10	20.00%	10	\$21.92	Moderate-term on-the-job training
51-1011	First-Line Supervisors/Managers of Production and Operating Wo	550	580	30	5.45%	130	\$25.09	Work experience in a related occupation
51-2022	Electrical and Electronic Equipment Assemblers	60	50	-10	-16.67%	10	\$13.24	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	70	80	10	14.29%	20	N/A	Moderate-term on-the-job training
51-2092	Team Assemblers	860	930	70	8.14%	240	\$13.09	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	110	110	0	0.00%	20	\$9.97	Moderate-term on-the-job training
51-3011	Bakers	110	130	20	18.18%	40	\$8.86	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	80	80	0	0.00%	20	\$11.77	Long-term on-the-job training
51-3092	Food Batchmakers	50	60	10	20.00%	20	\$11.21	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	250	280	30	12.00%	60	\$14.33	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	30	30	0	0.00%	0	\$26.11	Work experience in a related occupation
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Te	180	170	-10	-5.56%	40	\$12.57	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders	50	40	-10	-20.00%	10	\$12.13	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, C	30	30	0	0.00%	0	\$10.91	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders	170	150	-20	-11.76%	30	\$14.33	Moderate-term on-the-job training
51-4041	Machinists	400	440	40	10.00%	100	\$14.02	Long-term on-the-job training
51-4062	Patternmakers, Metal and Plastic	30	40	10	33.33%	10	\$12.47	Long-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, a	70	70	0	0.00%	20	\$12.71	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal anc	30	30	0	0.00%	10	\$14.52	Moderate-term on-the-job training
51-4111	Tool and Die Makers	30	30	0	0.00%	0	\$20.77	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	1,060	1,220	160	15.09%	390	\$15.03	Postsecondary vocational training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and	30	40	10	33.33%	10	\$12.90	Postsecondary vocational training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal	50	40	-10	-20.00%	10	\$15.82	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	20	20	0	0.00%	0	\$15.06	Moderate-term on-the-job training
51-5023	Printing Machine Operators	60	50	-10	-16.67%	10	\$8.65	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	180	180	0	0.00%	40	\$7.40	Moderate-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	40	40	0	0.00%	0	\$8.69	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	20	20	0	0.00%	0	\$8.77	Long-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	20	20	0	0.00%	10	\$11.11	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except S	20	20	0	0.00%	10	\$12.21	Moderate-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	200	240	40	20.00%	80	\$14.26	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gau	600	590	-10	-1.67%	170	\$26.64	Long-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, an	110	100	-10	-9.09%	20	\$11.06	Moderate-term on-the-job training

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		2006	2016	Numeric	Percent			
51-9022	Grinding and Polishing Workers, Hand	70	70	0	0.00%	20	\$9.05	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	90	100	10	11.11%	20	\$13.11	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	350	380	30	8.57%	80	\$20.90	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	110	110	0	0.00%	20	\$9.59	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and	50	50	0	0.00%	10	\$13.40	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	50	50	0	0.00%	20	\$15.10	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	340	350	10	2.94%	100	\$10.08	Short-term on-the-job training
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Materi	60	60	0	0.00%	20	\$19.70	Work experience in a related occupation
53-1031	First-Line Supervisors/Managers of Transportation and Material-M	140	150	10	7.14%	40	\$23.44	Work experience in a related occupation
53-2012	Commercial Pilots	30	40	10	33.33%	20	N/A	Postsecondary vocational training
53-2021	Air Traffic Controllers	30	30	0	0.00%	10	\$30.95	Long-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	30	30	0	0.00%	10	\$13.39	Moderate-term on-the-job training
53-3022	Bus Drivers, School	300	310	10	3.33%	50	\$8.96	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	330	290	-40	-12.12%	60	\$9.79	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	2,070	2,310	240	11.59%	600	\$16.24	Moderate-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	550	590	40	7.27%	140	\$12.61	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	40	50	10	25.00%	10	\$8.11	Short-term on-the-job training
53-6031	Service Station Attendants	90	90	0	0.00%	50	\$10.94	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	50	50	0	0.00%	10	\$10.93	Short-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	300	330	30	10.00%	80	\$14.31	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	570	540	-30	-5.26%	140	\$12.37	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	380	420	40	10.53%	180	\$10.18	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,160	1,130	-30	-2.59%	370	\$8.95	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	320	280	-40	-12.50%	40	\$8.91	Short-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	50	50	0	0.00%	20	\$32.26	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	260	250	-10	-3.85%	100	\$21.16	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	140	140	0	0.00%	40	\$12.53	Short-term on-the-job training