

2008-2018 REGION 5 OCCUPATIONAL PROJECTIONS, LISTED BY MAJOR OCCUPATIONAL GROUPS WITH WAGES AND TOP SKILLS

Standard Occupational Classification (SOC)	Occupational Title	2008 Estimated Employment	2011 Projected Employment	2008 to 2011 Change	Annual Growth Rate (%)	Annual New Jobs	Annual Replacements	Total Annual Openings	2011 Mean Hourly Wage	2011 Mean Annual Salary	2011 Entry Wage	2011 Entry Annual Salary	2011 Median Wage	2011 Median Annual Salary	2011 Experienced Wage	2011 Experienced Annual Salary	Education/Training Levels**	Top Skills***
00-0000	Total, All Occupations	66,255	70,050	3,795	0.6	495	1,420	1,915										
11-0000	Management Occupations	8,640	8,625	-15	0.0	15	95	105										
11-1021	General and Operations Managers	350	340	-10	-0.3	0	10	10	\$39.43	\$82,025	\$23.52	\$48,921	\$35.31	\$73,426	\$47.40	\$98,576	4	B2, B7, B9, B3, B6
11-9012	Farmers and Ranchers	6,340	6,210	-130	-0.2	0	40	40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	9	T4, T5, SY1, B3, T1, B6, T8, T11
11-9199	Managers, All Other	245	265	20	0.8	*	*	10	29.50	61,374	13.09	27,223	30.48	63,395	37.71	78,448	8	
13-0000	Business and Financial Operations Occupations	1,635	1,830	195	1.2	20	30	50										
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	245	265	20	0.8	*	*	10	22.64	47,093	14.76	30,707	21.55	44,813	26.58	55,286	5	
13-2011	Accountants and Auditors	365	420	55	1.5	5	5	10	24.56	51,068	16.95	35,252	23.05	47,958	28.36	58,975	5	B2, B5, B7, B10, B9
15-0000	Computer and Mathematical Occupations	320	400	80	2.5	10	5	15										
17-0000	Architecture and Engineering Occupations	485	515	30	0.6	5	10	15										
19-0000	Life, Physical, and Social Science Occupations	1,065	1,155	90	0.8	10	10	35										
21-0000	Community and Social Services Occupations	780	870	90	1.2	10	15	25										
25-0000	Education, Training, and Library Occupations	3,845	4,340	495	1.3	50	90	140										
25-2021	Elementary School Teachers, Except Special Education	580	670	90	1.6	10	15	20	N.A.	45,945	N.A.	33,918	N.A.	46,625	N.A.	51,958	5	SO2, B9, B4, B2, B1, B6, SO6
25-2022	Middle School Teachers, Except Special and Vocational Education	245	280	35	1.4	5	5	10	N.A.	42,302	N.A.	31,578	N.A.	41,349	N.A.	47,664	5	SO2, B2, B7, B4, SO6, B10
25-2031	Secondary School Teachers, Except Special and Vocational Education	835	910	75	0.9	5	25	30	N.A.	39,978	N.A.	28,883	N.A.	39,365	N.A.	45,525	5	SO2, B4, B9, B2, SO1, B3
25-4031	Library Technicians	170	180	10	0.6	*	*	10	10.39	21,617	8.60	17,876	9.58	19,910	11.30	23,488	7	B6, B9, B2, SO5, B3, SO6
25-9041	Teacher Assistants	460	515	55	1.2	5	10	15	N.A.	20,788	N.A.	17,685	N.A.	20,726	N.A.	22,340	11	B2, B9, SO1, B6, SO5, SO6
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	870	960	90	1.0	10	20	30										
27-3031	Public Relations Specialists	290	325	35	1.2	5	5	10	20.64	42,929	12.76	26,543	18.31	38,070	24.58	51,123	5	B9, B2, B3, B7, B10
29-0000	Healthcare Practitioners and Technical Occupations	2,660	3,060	400	1.5	40	55	95										
29-1111	Registered Nurses	1,145	1,360	215	1.9	20	20	40	23.62	49,121	18.91	39,326	23.30	48,465	25.97	54,018	6	SO6, B2, SO1, B9, B3, B7, SO5
29-2061	Licensed Practical and Licensed Vocational Nurses	290	335	45	1.6	5	10	15	16.94	35,239	13.94	29,005	16.34	34,005	18.44	38,356	7	B2, B9, B3, B7, SO1, SO5
31-0000	Healthcare Support Occupations	2,270	2,735	465	2.0	45	25	70										
31-1012	Nursing Aides, Orderlies, and Attendants	1,235	1,450	215	1.7	20	10	35	11.68	24,309	10.52	21,881	11.30	23,497	12.27	25,523	7	SO6, SO5, B2, B6, SO1
33-0000	Protective Service Occupations	880	935	60	0.7	5	25	35										
33-3012	Correctional Officers and Jailers	325	335	10	0.3	*	*	10	20.23	42,086	14.03	29,175	20.70	43,047	23.34	48,541	10	B2, SO6, B9, B3, B6
35-0000	Food Preparation and Serving Related Occupations	4,930	5,315	385	0.8	40	175	215										
35-2012	Cooks, Institution and Cafeteria	540	575	35	0.6	5	15	20	10.17	21,159	8.23	17,111	10.05	20,919	11.15	23,184	10	R4, B2, B3, B6, B7, SO5
35-2014	Cooks, Restaurant	345	375	30	0.9	5	10	10	9.34	19,426	8.25	17,151	9.16	19,046	9.89	20,563	9	SO1, B6, B2, B3, SY1, T8, B9
35-2021	Food Preparation Workers	465	475	10	0.2	*	*	20	8.63	17,948	8.04	16,724	8.39	17,446	8.93	18,560	11	B2, B6, B9, SO1, R4
35-3011	Barenders	195	215	20	1.0	*	*	10	8.37	17,402	7.85	16,327	8.10	16,847	8.62	17,940	11	B2, SO5, SO6, B9, B3
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	760	865	105	1.4	10	15	25	8.27	17,189	7.93	16,514	8.15	16,947	8.43	17,527	11	B2, SO5, B9, SO1, B6, SO6
35-3031	Waiters and Waitresses	855	920	65	0.8	5	45	55	8.96	18,639	8.00	16,633	8.72	18,147	9.44	19,641	11	B2, SO5, SO6, B9, SO1
35-9021	Dishwashers	220	250	30	1.4	5	10	10	8.62	17,930	8.39	17,446	8.57	17,838	8.73	18,172	11	R4, B2, SO1, B6, B3, T4, T5, T8, SO6
35-9099	Food Preparation and Serving Related Workers, All Other	225	210	-15	-0.7	0	10	10	8.30	17,264	7.95	16,546	8.25	17,147	8.47	17,623	11	
37-0000	Building and Grounds Cleaning and Maintenance Occupations	1,910	2,050	140	0.7	15	30	45										
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	860	880	15	0.2	*	*	20	11.23	23,345	8.18	17,001	10.78	22,416	12.75	26,515	11	B3, B2, SO1, SO6, B9, R4
37-2012	Maids and Housekeeping Cleaners	570	600	25	0.4	5	10	15	9.99	20,775	8.38	17,422	9.47	19,714	10.79	22,452	11	B2, SO5, SO6, R4, B3, B6, B9
37-3011	Landscaping and Groundskeeping Workers	315	390	75	2.4	10	5	10	11.53	23,981	8.55	17,787	10.35	21,517	13.02	27,079	11	T4, B2, B3, B9, T5, R4
39-0000	Personal Care and Service Occupations	1,560	1,755	195	1.3	20	40	60										
39-9011	Child Care Workers	710	800	90	1.3	10	20	30	10.63	22,108	8.08	16,812	9.29	19,333	11.90	24,758	11	B6, SO5, B9, B3, SO6
41-0000	Sales and Related Occupations	5,780	5,985	205	0.4	25	175	195										
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	870	890	20	0.2	*	*	20	17.16	35,694	10.58	22,020	15.21	31,635	20.45	42,531	8	B2, SO1, B3, B6, B6, SO5, B9
41-2011	Cashiers	1,440	1,460	15	0.1	*	*	65	8.62	17,940	7.81	16,232	8.33	17,318	9.04	18,794	11	B2, SO5, B9, B5, SO6
41-2022	Parts Salespersons	210	215	5	0.2	0	10	10	19.69	40,962	14.50	30,151	20.25	42,133	22.30	46,366	10	B2, B9, SO5, B7, SO6
41-2031	Retail Salespersons	1,465	1,535	70	0.5	5	40	50	10.86	22,581	8.02	16,675	9.18	19,090	12.28	25,535	11	B2, SO4, B9, SO6, SO3, SO6
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	465	480	15	0.4	*	*	15	26.93	56,018	13.63	28,366	22.56	46,919	33.58	69,845	8	B9, B2, SO4, SO6, B3, SO3
43-0000	Office and Administrative Support Occupations	8,610	8,895	285	0.3	45	165	210										
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	255	270	15	0.6	*	*	10	20.08	41,770	15.07	31,344	18.15	37,750	22.59	46,984	8	B2, B9, SO1, SO6, B3, B3, R3
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,130	1,205	80	0.7	10	15	20	13.71	28,512	9.84	20,459	13.01	27,050	15.64	32,540	10	B2, B7, B9, B3, B5, B6, R4, B10
43-3071	Tellers	230	250	20	0.9	*	*	10	11.87	24,689	10.00	20,800	12.14	25,260	12.81	26,634	11	B2, B9, B3, B5, B7, SO5
43-4051	Customer Service Representatives	380	415	35	0.9	5	10	15	11.37	23,648	7.96	16,569	9.17	19,058	13.07	27,188	10	B2, B9, SO5, SO4, B7
43-4171	Receptionists and Information Clerks	350	375	25	0.7	5	10	10	11.70	24,344	9.03	18,788	11.45	23,809	13.04	27,121	11	B9, B2, SO5, B7, SO1, SO6
43-5081	Stock Clerks and Order Fillers	555	560	5	0.1	*	*	15	9.81	20,395	8.18	17,010	9.00	18,719	10.62	22,087	11	B9, B2, SO5, SO6, SO1, R4
43-6011	Executive Secretaries and Administrative Assistants	425	460	35	0.8	5	5	10	16.28	33,876	12.53	26,073	15.90	33,072	18.16	37,778	8	B2, B7, B9, SO5, B10
43-6014	Secretaries, Except Legal, Medical, and Executive	1,020	1,040	20	0.2	*	*	15	13.02	27,071	9.36	19,468	12.56	26,132	14.84	30,872	10	B9, B2, R4, SO5, B10
43-9061	Office Clerks, General	1,600	1,715	115	0.7	10	20	35	12.83	26,669	9.54	19,839	12.67	26,350	14.47	30,085	11	B2, B7, B9, SO6, R4, B10
45-0000	Farming, Fishing, and Forestry Occupations	1,175	1,210	40	0.3	5	30	35										
45-2093	Farmworkers, Farm and Ranch Animals	435	435	0	0.0	0	10	10	10.63	22,099	9.61	20,008	10.65	22,155	11.12	23,143	11	B2, B7, B6, T4, T5

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Standard Occupational Classification (SOC)	Occupational Title	2008 Estimated Employment	2011 Projected Employment	2008-11 Employment Change	Annual Growth Rate (%)	Annual New Jobs	Annual Replacements	Total Annual Openings	2011 Mean Hourly Wage	2011 Mean Annual Salary	2011 Entry Wage	2011 Entry Annual Salary	2011 Median Wage	2011 Median Salary	2011 Experienced Wage	2011 Experienced Annual Salary	Education/Training Level**	Top Skills***
47-0000	Construction and Extraction Occupations	2,755	3,060	300	1.1	30	45	75										
47-2031	Carpenters	630	685	55	0.9	5	10	15	17.43	36,270	12.78	26,571	16.19	33,674	19.77	41,120	9	B3, T2, T5, B2, S01, SY1, B5, B6, T8, R4
47-2061	Construction Laborers	490	580	85	1.7	10	5	10	13.73	28,556	9.96	20,719	13.18	27,423	15.62	32,474	10	B9, S01, B2, B3, T4, T5, S06
47-4051	Highway Maintenance Workers	240	250	10	0.4	*	*	10	17.45	36,313	14.85	30,885	17.64	36,682	18.76	39,026	10	T4, T5, B2, T1, B6, B9, T11
49-0000	Installation, Maintenance, and Repair Occupations	2,585	2,735	150	0.6	15	50	70										
51-0000	Production Occupations	7,985	7,595	-390	-0.5	30	170	200										
51-2092	Team Assemblers	925	855	-70	-0.8	0	20	20	13.95	29,021	10.36	21,539	13.78	28,646	15.75	32,763	10	S01, B2, B3, B9, B6, B7
51-4121	Welders, Cutters, Solderers, and Brazers	315	335	20	0.6	*	*	10	14.83	30,837	11.63	24,184	14.32	29,789	16.42	34,164	7	B3, B2, B6, SY1, T4, T5
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	280	325	40	1.4	5	5	10	17.72	36,861	14.23	29,595	17.19	35,754	19.47	40,494	11	B3, B6, B2, S06, B7, B9, R4
53-0000	Transportation and Material Moving Occupations	5,190	5,690	495	1.0	55	110	170										
53-3032	Truck Drivers, Heavy and Tractor-Trailer	2,300	2,740	435	1.9	45	40	85	20.78	43,225	12.20	25,364	20.72	43,087	25.07	52,157	11	T4, T5, B6, B2, B3, T8
53-3033	Truck Drivers, Light or Delivery Services	345	360	15	0.4	*	*	10	14.85	30,890	9.00	18,728	12.54	26,090	17.78	36,969	11	B2, B9, B3, B6, T4, S06
53-7051	Industrial Truck and Tractor Operators	380	430	50	1.3	5	10	15	14.65	30,469	10.95	22,795	14.47	30,090	16.49	34,305	11	T4, T5, S01, T1, B2, B3, B6
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	715	735	20	0.3	*	*	25	11.81	24,573	9.40	19,536	11.60	24,112	13.02	27,090	11	B2, B3, T5, S01, B6, B7, B9

Legend:

Entry Wage = Average of the lowest third of reported wages for the occupation; **Experienced Wage** = Average of the upper two-thirds of reported wages for the occupation; **Mean Wage** = Average wage computed by dividing the estimated total wage for an occupation by its weighted employment; **Median Wage** = The point at which 50% of the employment was below this wage and 50% was above; **N.A.** = Not Available; Compensation data based on 2011 Iowa Wage Survey unless otherwise noted; Wages for *Middle School Teachers, Except Special and Vocational Education; Correctional Officers and Jailers; and Child Care Workers* based on 2010 OES data; Missing compensation data may be derived from calculation or proration of reported wage/salary data if available.

***Employment Data Suppression** (Occupational employment data may not add up or equal occupational group totals due to rounding and/or suppression of occupations with less than ten total annual openings.)

****Education/Training Level** provides categorically the most significant education or training pathway to employment for each occupation according to the U.S. Department of Labor's Bureau of Labor Statistics (BLS). There may be alternative pathways into an occupation, however, as well as additional educational, training, or licensing requirements. Iowa Workforce Development (IWD) will use Iowa requirements when available. The levels are as follows: 1 = First Professional degree; 2 = Doctoral degree; 3 = Master's degree; 4 = Bachelor's or higher degree, plus work experience; 5 = Bachelor's degree; 6 = Associate degree; 7 = Postsecondary vocational training; 8 = Work experience in a related occupation; 9 = Long-term on-the-job training; 10 = Moderate-term on-the-job training; 11 = Short-term on-the-job training.

*****Top Skills** refers to those skills identified through questionnaire responses by sampled workers and occupational experts by the U.S. Department of Labor's Occupational Information Network (O*NET) as being the top five (or more if tied) most important for a particular occupation. These include: **Basic Skills:** B1 = Active Learning; B2 = Active Listening; B3 = Critical Thinking; B4 = Learning Strategies; B5 = Mathematics; B6 = Monitoring; B7 = Reading Comprehension; B8 = Science; B9 = Speaking; B10 = Writing;

Complex Problem Solving Skills: C1 = Complex Problem Solving; **Resource Management Skills:** R1 = Management of Financial Resources; R2 = Management of Material Resources; R3 = Management of Personnel Resources; R4 = Time Management;

Social Skills: S01 = Coordination; S02 = Instructing; S03 = Negotiation; S04 = Persuasion; S05 = Service Orientation; S06 = Social Perceptiveness; **Systems Skills:** SY1 = Judgment and Decision Making; SY2 = Systems Analysis; SY3 = Systems Evaluation; and **Technical Skills:** T1 = Equipment Maintenance; T2 = Equipment Selection; T3 = Installation; T4 = Operation and Control; T5 = Operation Monitoring; T6 = Operations Analysis; T7 = Programming; T8 = Quality Control Analysis; T9 = Repairing; T10 = Technology Design; T11 = Troubleshooting.

Sources:

Education/Training Level: Bureau of Labor Statistics, U.S. Department of Labor; **Employment:** 2008-2018 Occupational Projections (based on 2008 annual employment data), Labor Market and Workforce Information Division, Iowa Workforce Development; **Skills:** Occupational Information Network (O*NET), Employment and Training Administration, U.S. Department of Labor; **Wages:** 2011 Iowa Wage Survey estimates, Labor Market and Workforce Information Division, Iowa Workforce Development. Estimates developed from the May 2010 Occupational Employment Statistics (OES) Wage Survey updated to the second quarter of 2011 using the Employment Cost Index.

This publication was produced by the Labor Market and Workforce Information Division of Iowa Workforce Development. Inquiries may be directed to Brent Paulson at 515.281.3439 or Brent.Paulson@iwd.iowa.gov. Visit <http://iwin.iowaworkforce.org/> to obtain the latest workforce data and trends including this document under the **Publications** tab. Published 12/2011.