

2006-2016 REGION 3-4 OCCUPATIONAL PROJECTIONS, LISTED BY MAJOR OCCUPATIONAL GROUPS WITH WAGES AND TOP SKILLS

Standard Occupational Classification (SOC)	Occupational Title	2006 Estimated Employment	2016 Projected Employment	2006-2016 Employment Change	Annual Growth Rate (%)	Annual New Jobs	Annual Replacements	Total Annual Openings	2007 Mean Hourly Wage	2007 Mean Annual Salary	2007 Entry Wage	2007 Entry Annual Salary	2007 Median Wage	2007 Median Annual Salary	2007 Experienced Wage	2007 Experienced Annual Salary	Education/Training Level**	Top Skills***
00-0000	Total, All Occupations	80,925	87,485	6,560	0.8	770	1,690	2,460										
11-0000	Management Occupations	10,840	10,430	-410	-0.4	20	130	155										
11-1021	General and Operations Managers	540	540	-5	-0.1	0	15	15	\$36.26	\$75,421	\$17.86	\$37,146	\$31.88	\$66,306	\$45.46	\$94,559	2	B1, R3, R4, SY1, B6, B7
11-9012	Farmers and Ranchers	8,155	7,525	-625	-0.8	0	75	75	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	3	T1, T9, R1, B2, T2, SY1, R2
13-0000	Business and Financial Operations Occupations	2,085	2,390	305	1.5	30	35	65										
13-1199	Business Operations Specialists, All Other	480	575	95	2.0	10	5	15	17.03	35,425	8.87	18,449	13.84	28,793	21.11	43,914	2	
13-2011	Accountants and Auditors	335	400	65	1.9	5	5	15	24.80	51,573	15.66	32,581	20.50	42,649	29.36	61,069	2	B5, B2, B3, B6, SY1
15-0000	Computer and Mathematical Occupations	415	480	65	1.6	5	10	15										
17-0000	Architecture and Engineering Occupations	445	525	85	1.9	10	10	20										
19-0000	Life, Physical, and Social Science Occupations	515	585	70	1.4	5	15	20										
21-0000	Community and Social Services Occupations	810	970	160	2.0	15	15	30										
23-0000	Legal Occupations	245	275	30	1.2	5	5	5										
25-0000	Education, Training, and Library Occupations	4,815	5,355	545	1.1	55	100	155										
25-2021	Elementary School Teachers, Except Special Education	675	760	85	1.3	10	15	25	N.A.	37,880	N.A.	26,043	N.A.	35,808	N.A.	43,798	2	SO2, B7, B9, B4, B2
25-2022	Middle School Teachers, Except Special and Vocational Education	420	465	45	1.1	5	10	15	N.A.	39,691	N.A.	27,461	N.A.	40,159	N.A.	45,806	2	SO2, B9, B4, B2, B7
25-2031	Secondary School Teachers, Except Special and Vocational Education	610	640	30	0.5	5	20	20	N.A.	38,568	N.A.	26,246	N.A.	38,315	N.A.	44,729	2	SO2, B4, B6, B9, R4
25-9041	Teacher Assistants	1,110	1,190	80	0.7	10	20	25	N.A.	19,888	N.A.	15,656	N.A.	20,071	N.A.	22,003	5	B2, SO2, B7, B4, B9
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	970	1,025	55	0.6	5	25	30										
29-0000	Healthcare Practitioners and Technical Occupations	3,065	3,665	595	1.9	60	55	120										
29-1111	Registered Nurses	1,205	1,515	310	2.6	30	20	50	21.00	43,683	17.16	35,696	20.75	43,159	22.92	47,676	3	B2, B7, B3, SO2, B9
29-1131	Veterinarians	135	180	45	3.3	5	5	10	29.64	61,656	26.42	54,947	28.75	59,794	31.26	65,011	2	B2, B7, B3, C1, B9
29-2061	Licensed Practical and Licensed Vocational Nurses	310	350	40	1.3	5	10	10	15.48	32,212	13.11	27,264	14.73	30,646	16.68	34,686	3	B2, B7, R4, B10, B6
31-0000	Healthcare Support Occupations	2,895	3,685	790	2.7	80	30	105										
31-1011	Home Health Aides	1,160	1,630	470	4.1	45	10	55	9.05	18,832	7.81	16,237	8.99	18,694	9.68	20,130	5	B2, B7, B10, SO1, SO5
31-1012	Nursing Aides, Orderlies, and Attendants	1,285	1,510	225	1.8	25	10	35	10.58	22,013	9.42	19,596	10.53	21,911	11.16	23,221	3	B2, SO2, B9, SO1, R4
33-0000	Protective Service Occupations	545	605	60	1.1	5	20	25										
33-3051	Police and Sheriff's Patrol Officers	205	235	30	1.5	5	5	10	19.25	40,035	15.03	31,262	18.54	38,563	21.35	44,420	3	SY1, B2, B3, B10, B9
35-0000	Food Preparation and Serving Related Occupations	6,065	6,740	680	1.1	70	200	270										
35-2011	Cooks, Fast Food	380	405	25	0.7	5	10	15	7.03	14,621	6.35	13,210	6.91	14,382	7.37	15,328	5	B2, B9, B7, SO2, SO5
35-2012	Cooks, Institution and Cafeteria	525	575	55	1.0	5	15	20	9.65	20,069	8.11	16,874	9.66	20,083	10.42	21,667	4	B7, B2, SO2, SO5, B3, B4
35-2014	Cooks, Restaurant	410	445	35	0.9	5	10	15	9.24	19,227	6.84	14,230	8.85	18,399	10.45	21,727	3	B2, B7, B9, B1, SO2
35-3011	Bartenders	255	275	20	0.8	*	*	10	6.99	14,527	6.48	13,469	6.79	14,128	7.23	15,057	5	B2, B9, SO6, B5, SO5
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	1,160	1,355	195	1.7	20	20	40	7.08	14,715	6.42	13,358	6.84	14,226	7.40	15,394	5	B2, B9, SO2, B5, SO5, SO6
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	255	275	20	0.8	*	*	20	7.30	15,175	6.29	13,090	6.84	14,237	7.80	16,218	5	B9, SO2, B2, B7, SO6
35-3031	Waiters and Waitresses	930	1,000	70	0.8	5	50	60	6.87	14,291	6.36	13,242	6.74	14,003	7.12	14,816	5	B9, B2, SO5, SO6, SO1
35-9021	Dishwashers	240	265	20	0.8	*	*	10	6.94	14,438	6.35	13,203	6.80	14,140	7.23	15,056	5	B4, B9, B2, T1, So2
37-0000	Building and Grounds Cleaning and Maintenance Occupations	2,810	3,185	370	1.3	35	45	85										
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	930	1,030	100	1.1	10	20	30	11.02	22,914	8.02	16,692	10.85	22,563	12.52	26,026	5	B7, B2, B9, SO1, T2
37-2012	Maids and Housekeeping Cleaners	755	855	100	1.3	10	15	25	8.94	18,603	7.36	15,298	8.70	18,095	9.74	20,255	5	B7, R4, B9, B2, SO2
37-3011	Landscaping and Groundskeeping Workers	870	1,010	140	1.6	15	10	25	10.02	20,848	7.82	16,268	9.27	19,296	11.12	23,138	5	T1, B2, B9, B7, T2
39-0000	Personal Care and Service Occupations	2,000	2,220	215	1.1	20	45	65										
39-5012	Hairdressers, Hairstylists, and Cosmetologists	380	405	25	0.7	5	5	10	10.31	21,459	6.85	14,254	8.63	17,935	12.05	25,061	3	B2, B9, R4, SO1, SO6
39-9011	Child Care Workers	535	620	85	1.6	10	15	25	8.06	16,761	6.24	12,964	8.32	17,293	8.97	18,659	5	B2, B4, SO6, SO2, B9
39-9032	Recreation Workers	405	455	55	1.4	5	10	15	8.44	17,550	6.51	13,534	7.54	15,676	9.41	19,558	5	SO5, B2, B9, SO2, SY1
41-0000	Sales and Related Occupations	7,575	8,165	590	0.8	60	230	295										
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	810	860	50	0.6	5	15	20	16.23	33,757	10.50	21,848	14.12	29,353	19.10	39,713	3	R3, B2, SO5, R4, SO2
41-2011	Cashiers	1,795	1,795	0	0.0	0	85	85	7.42	15,432	6.37	13,234	7.12	14,817	7.95	16,531	5	B2, B5, B9, SO2, SO6
41-2021	Counter and Rental Clerks	220	245	30	1.4	5	10	10	8.17	17,001	6.30	13,121	6.79	14,112	9.11	18,942	5	B2, B7, B9, B5, SO5

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41-2031	Retail Salespersons	2,165	2,460	290	1.3	30	65	95	10.73	22,312	6.98	14,523	8.98	18,690	12.60	26,206	5	B2, B5, B9, SO6, B3
41-3021	Insurance Sales Agents	295	355	60	2.0	5	5	10	14.61	30,388	9.56	19,878	11.16	23,214	17.13	35,642	2	B2, B9, R4, B7, SO4
41-4012	Sales Reps, Wholesale and Manufacturing, Except Technical and Scientific Products	940	995	55	0.6	5	20	25	22.21	46,199	11.90	24,746	21.02	43,710	27.37	56,925	3	B2, B9, R4, B7, SO4
43-0000	Office and Administrative Support Occupations	8,790	9,380	590	0.7	70	190	265										
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,245	1,380	135	1.1	15	20	35	12.59	26,181	8.82	18,344	11.96	24,869	14.47	30,100	4	B5, B7, R4, B2, B3
43-3071	Tellers	420	475	55	1.3	5	20	25	11.04	22,967	10.14	21,087	11.01	22,885	11.49	23,906	5	B5, B2, SO5, SO6, B7
43-4051	Customer Service Reps	635	775	140	2.2	15	20	30	12.48	25,976	9.07	18,860	12.33	25,637	14.20	29,533	4	B2, B7, B6, B9, R4
43-4081	Hotel, Motel, and Resort Desk Clerks	210	240	25	1.2	5	10	10	9.19	19,113	6.43	13,391	8.31	17,269	10.56	21,975	5	B2, B9, SO5, SO6, B3
43-4171	Receptionists and Information Clerks	440	500	65	1.5	5	10	15	9.95	20,697	7.41	15,395	10.08	20,983	11.22	23,347	5	B2, B9, B7, B10, SO5
43-5081	Stock Clerks and Order Fillers	775	715	-60	-0.8	0	20	20	9.39	19,541	6.56	13,638	9.08	18,900	10.81	22,493	5	B9, B2, B1, B5, B3
43-6011	Executive Secretaries and Administrative Assistants	355	405	50	1.4	5	5	10	14.70	30,578	10.81	22,478	13.96	29,042	16.65	34,629	3	B2, B7, R4, B9, B10
43-6014	Secretaries, Except Legal, Medical, and Executive	1,100	1,125	20	0.2	*	*	20	11.19	23,278	8.79	18,290	10.93	22,735	12.39	25,772	4	B2, B7, R4, B9, B10
43-9061	Office Clerks, General	1,145	1,275	130	1.1	15	20	35	11.84	24,639	8.05	16,740	10.88	22,626	13.75	28,588	5	B2, B7, B9, B10, SO6
45-0000	Farming, Fishing, and Forestry Occupations	2,390	2,480	90	0.4	10	60	70										
47-0000	Construction and Extraction Occupations	3,855	4,245	390	1.0	40	70	105										
47-2031	Carpenters	870	940	70	0.8	5	10	20	14.19	29,524	10.35	21,538	13.18	27,421	16.12	33,518	3	B5, R4, B2, B3, SY1
47-2051	Cement Masons and Concrete Finishers	475	540	60	1.3	5	15	20	14.72	30,618	11.01	22,891	14.31	29,763	16.58	34,481	4	SO1, B5, B2, B3, B1
47-2061	Construction Laborers	625	675	55	0.9	5	5	10	11.90	24,744	8.63	17,961	11.59	24,106	13.53	28,136	4	B2, SO1, T2, B9, SO2
47-2111	Electricians	285	315	30	1.1	5	5	10	17.61	36,634	13.15	27,353	17.16	35,682	19.84	41,274	3	T3, B2, B7, T11, T2
47-4051	Highway Maintenance Workers	355	395	40	1.1	5	5	10	16.48	34,292	13.88	28,866	16.93	35,201	17.79	37,005	4	T1, T2, SO1, B9, B2, B3, SY1
49-0000	Installation, Maintenance, and Repair Occupations	3,220	3,540	320	1.0	35	55	90										
49-3023	Automotive Service Technicians and Mechanics	390	435	45	1.2	5	10	10	14.86	30,912	10.21	21,250	14.69	30,545	17.19	35,743	3	T11, T9, T2, B1, B7
49-9041	Industrial Machinery Mechanics	210	250	40	1.9	5	5	10	15.27	31,770	10.94	22,758	15.23	31,678	17.45	36,276	3	T9, T11, T1, T2, T3
49-9042	Maintenance and Repair Workers, General	710	780	65	0.9	*	*	10	16.97	35,315	10.24	21,283	15.34	31,911	20.35	42,330	4	T1, T9, T11, B2, T3
49-9051	Electrical Power-Line Installers and Repairers	200	225	25	1.3	5	5	10	24.98	51,959	21.15	43,997	25.53	53,086	26.89	55,941	3	B2, T2, SO1, T1, B7
51-0000	Production Occupations	10,955	11,605	650	0.6	80	230	310										
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	520	545	30	0.6	5	10	10	20.60	42,835	13.97	29,065	19.22	39,965	23.90	49,720	3	B2, B7, R3, SO2, B6
51-2092	Team Assemblers	1,415	1,520	105	0.7	10	30	40	12.13	25,232	9.25	19,252	12.31	25,601	13.56	28,221	4	B4, B2, T8, B1, SO2
51-3021	Butchers and Meat Cutters	495	525	35	0.7	5	15	20	10.85	22,563	8.70	18,109	10.41	21,649	11.92	24,789	3	B2, SO5, B9, SO2, SY1
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	275	295	25	0.9	*	*	10	10.36	21,552	9.22	19,175	10.44	21,725	10.93	22,741	5	B2, R4, SO1, B4, B1, B6, B9
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	440	470	25	0.6	5	5	10	14.64	30,451	11.56	24,041	14.62	30,400	16.18	33,658	4	T5, T4, T8, B2, B5
51-4121	Welders, Cutters, Solderers, and Brazers	525	620	95	1.8	10	10	20	13.92	28,955	9.96	20,713	13.02	27,088	15.90	33,075	3	B2, B5, T2, R4, B3, B7
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	220	245	25	1.1	5	5	10	15.35	31,917	12.59	26,183	15.83	32,925	16.73	34,785	3	B2, B7, B1, T1, SO2
51-9198	Helpers--Production Workers	305	320	15	0.5	*	*	10	12.50	26,007	9.46	19,679	11.99	24,939	14.02	29,172	5	T2, B2, SO1, SO2, B7, B9
51-9199	Production Workers, All Other	425	450	20	0.5	*	*	10	13.07	27,195	10.24	21,286	12.28	25,549	14.50	30,149	4	
53-0000	Transportation and Material Moving Occupations	5,625	5,935	315	0.6	45	120	165										
53-3032	Truck Drivers, Heavy and Tractor-Trailer	2,340	2,690	350	1.5	35	40	75	14.52	30,221	9.34	19,437	13.57	28,230	17.12	35,612	4	T1, B2, R4, SO1, SY1, B7
53-7051	Industrial Truck and Tractor Operators	330	325	-5	-0.2	0	10	10	12.27	25,528	10.39	21,607	11.96	24,888	13.22	27,489	5	B5, B2, B7, T1, T4
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,190	1,150	-35	-0.3	0	40	40	11.78	24,488	8.86	18,412	11.14	23,164	13.23	27,526	5	B2, B7, SO2, SO1, B4, R4

* = Suppressed employment data.

Note: 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.

N.A. = Wage data not available.N.A. = Wage data not available.

Definitions: Mean Wage = Average wage computed by dividing the estimated total wage for an occupation by its weighted employment; Entry Wage = Average of the lowest third of reported wages for the occupation; Median Wage = The point at which 50% of the employment was below this wage and 50% was above; Experienced Wage = Average of the upper two-thirds of reported wages for the occupation.

****Education/Training Level** provides a general indication of the education and/or training typically required nationally for an occupation. There may be alternative pathways into an occupation, however, as well as additional educational, training, or licensing requirements (IWD will use Iowa requirements when available). A modified model adopted for this publication from the U.S. Department of Labor's Bureau of Labor Statistics (BLS) features the following education/training levels: 1 = Master's degree or higher; 2 = Bachelor's degree; 3 = Postsecondary education/training; 4 = High school education or G.E.D.; 5 = Less than high school education or G.E.D.

*****Top Skills** refers to those skills identified through employer sampling 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: SO1 = Coordination; SO2 = Instructing; SO3 = Negotiation; SO4 = Persuasion; SO5 = Service Orientation; SO6 = Social Perceptiveness;

Systems Skills: SY1 = Judgment and Decision Making; SY2 = Systems Analysis; SY3 = Systems Evaluation;

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 and Wages: 2007 Iowa Wage Survey estimates, Labor Market and Workforce Information Division, Iowa Workforce Development (Employment and wage estimates developed from the May 2006 Occupational Employment Statistics Wage Survey with the wage estimates updated to the second quarter of 2007 using the Employment Cost Index.).

Occupational Projections: Labor Market and Workforce Information Division, Iowa Workforce Development.

Skills: Occupational Information Network (O*NET), U.S. Department of Labor.