

Appendix 1: Ten Largest Opportunity Occupations in Each Metro

AREA_NAME	RANK	SOC code	Occupation title	Employment	Location quotient	Estimated Annual median wage	Percent less than a bachelors (ONET)	Percent less than a bachelors (BGT)
Akron, OH	1	29-1141	Registered Nurses	7400	1.16	63939	76.8%	65.1%
Akron, OH	2	53-3032	Heavy and Tractor-Trailer Truck Drivers	4830	1.25	39749	94.5%	81.0%
Akron, OH	3	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	4770	0.91	33322	96.9%	84.7%
Akron, OH	4	11-1021	General and Operations Managers	4090	0.84	109184	62.1%	29.6%
Akron, OH	5	43-3031	Bookkeeping, Accounting, and Auditing Clerks	4010	1.07	34133	81.8%	74.0%
Akron, OH	6	43-1011	First-Line Supervisors of Office and Administrative Support Workers	2960	0.89	45822	60.1%	38.7%
Akron, OH	7	49-9071	Maintenance and Repair Workers, General	2940	0.96	35818	99.9%	96.6%
Akron, OH	8	43-6013	Medical Secretaries	2720	2.22	31949	100.0%	86.1%
Akron, OH	9	41-1011	First-Line Supervisors of Retail Sales Workers	2660	0.94	36795	92.5%	63.2%
Akron, OH	10	29-2061	Licensed Practical and Licensed Vocational Nurses	2150	1.3	39458	98.7%	88.3%
Canton-Massillon, OH	1	29-1141	Registered Nurses	3950	1.2	57450	76.8%	74.7%
Canton-Massillon, OH	2	53-3032	Heavy and Tractor-Trailer Truck Drivers	2590	1.3	35838	94.5%	85.3%
Canton-Massillon, OH	3	11-1021	General and Operations Managers	2130	0.85	86463	62.1%	40.2%
Canton-Massillon, OH	4	49-9071	Maintenance and Repair Workers, General	1660	1.05	32573	99.9%	92.8%
Canton-Massillon, OH	5	41-1011	First-Line Supervisors of Retail Sales Workers	1600	1.09	34507	92.5%	66.7%
Canton-Massillon, OH	6	29-2061	Licensed Practical and Licensed Vocational Nurses	1520	1.79	36234	98.7%	NA
Canton-Massillon, OH	7	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1460	0.85	48256	23.4%	63.6%
Canton-Massillon, OH	8	43-1011	First-Line Supervisors of Office and Administrative Support Workers	1230	0.71	43846	60.1%	54.0%
Canton-Massillon, OH	9	51-1011	First-Line Supervisors of Production and Operating Workers	1220	1.67	50918	76.4%	57.1%
Canton-Massillon, OH	10	51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1020	4.36	33675	100.0%	NA
Cincinnati-Middletown, OH-KY-IN	1	29-1141	Registered Nurses	23570	1.17	61818	76.8%	60.3%
Cincinnati-Middletown, OH-KY-IN	2	11-1021	General and Operations Managers	13190	0.86	102398	62.1%	24.5%
Cincinnati-Middletown, OH-KY-IN	3	43-3031	Bookkeeping, Accounting, and Auditing Clerks	12050	1.02	36026	81.8%	80.1%
Cincinnati-Middletown, OH-KY-IN	4	53-3032	Heavy and Tractor-Trailer Truck Drivers	11470	0.94	41621	94.5%	86.6%
Cincinnati-Middletown, OH-KY-IN	5	49-9071	Maintenance and Repair Workers, General	9310	0.97	39811	99.9%	94.5%
Cincinnati-Middletown, OH-KY-IN	6	43-1011	First-Line Supervisors of Office and Administrative Support Workers	9280	0.88	47840	60.1%	44.6%
Cincinnati-Middletown, OH-KY-IN	7	41-1011	First-Line Supervisors of Retail Sales Workers	7550	0.84	36754	92.5%	69.4%
Cincinnati-Middletown, OH-KY-IN	8	29-2061	Licensed Practical and Licensed Vocational Nurses	6640	1.27	42931	98.7%	87.6%
Cincinnati-Middletown, OH-KY-IN	9	15-1121	Computer Systems Analysts	5850	1.48	83450	57.3%	10.4%
Cincinnati-Middletown, OH-KY-IN	10	43-6011	Executive Secretaries and Executive Administrative Assistants	5580	1.04	47674	95.8%	62.2%
Cleveland-Elyria-Mentor, OH	1	29-1141	Registered Nurses	29080	1.44	65270	76.8%	50.1%
Cleveland-Elyria-Mentor, OH	2	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	14730	0.89	34008	96.9%	82.0%
Cleveland-Elyria-Mentor, OH	3	11-1021	General and Operations Managers	13820	0.9	104551	62.1%	24.4%
Cleveland-Elyria-Mentor, OH	4	43-4051	Customer Service Representatives	13360	0.71	33530	84.1%	80.3%
Cleveland-Elyria-Mentor, OH	5	43-3031	Bookkeeping, Accounting, and Auditing Clerks	11120	0.94	36067	81.8%	74.2%
Cleveland-Elyria-Mentor, OH	6	49-9071	Maintenance and Repair Workers, General	9870	1.03	37586	99.9%	94.8%
Cleveland-Elyria-Mentor, OH	7	53-3032	Heavy and Tractor-Trailer Truck Drivers	9070	0.74	42765	94.5%	73.2%
Cleveland-Elyria-Mentor, OH	8	43-1011	First-Line Supervisors of Office and Administrative Support Workers	8490	0.81	50003	60.1%	35.5%
Cleveland-Elyria-Mentor, OH	9	41-1011	First-Line Supervisors of Retail Sales Workers	7580	0.84	36338	92.5%	62.6%
Cleveland-Elyria-Mentor, OH	10	29-2061	Licensed Practical and Licensed Vocational Nurses	7530	1.44	44117	98.7%	86.8%
Columbus, OH	1	29-1141	Registered Nurses	23390	1.21	62442	76.8%	65.7%
Columbus, OH	2	43-3031	Bookkeeping, Accounting, and Auditing Clerks	14160	1.25	39166	81.8%	66.1%
Columbus, OH	3	11-1021	General and Operations Managers	11820	0.8	108365	62.1%	21.1%
Columbus, OH	4	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	11580	0.73	34195	96.9%	76.6%
Columbus, OH	5	53-3032	Heavy and Tractor-Trailer Truck Drivers	11090	0.95	40269	94.5%	81.0%
Columbus, OH	6	43-1011	First-Line Supervisors of Office and Administrative Support Workers	9430	0.94	48942	60.1%	43.2%
Columbus, OH	7	15-1121	Computer Systems Analysts	9110	2.41	79643	57.3%	9.0%
Columbus, OH	8	49-9071	Maintenance and Repair Workers, General	8020	0.87	38896	99.9%	94.1%
Columbus, OH	9	43-6011	Executive Secretaries and Executive Administrative Assistants	7620	1.49	49296	95.8%	46.3%
Columbus, OH	10	41-1011	First-Line Supervisors of Retail Sales Workers	7380	0.86	34819	92.5%	61.1%
Dayton, OH	1	29-1141	Registered Nurses	10210	1.39	59363	76.8%	59.4%
Dayton, OH	2	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	5440	0.9	33363	96.9%	83.2%
Dayton, OH	3	11-1021	General and Operations Managers	4330	0.77	111173	62.1%	26.2%
Dayton, OH	4	43-3031	Bookkeeping, Accounting, and Auditing Clerks	3870	0.9	35901	81.8%	80.3%
Dayton, OH	5	53-3032	Heavy and Tractor-Trailer Truck Drivers	3730	0.84	38189	94.5%	70.4%
Dayton, OH	6	41-1011	First-Line Supervisors of Retail Sales Workers	3360	1.02	33966	92.5%	76.0%
Dayton, OH	7	49-9071	Maintenance and Repair Workers, General	3060	0.87	36483	99.9%	94.0%
Dayton, OH	8	29-2061	Licensed Practical and Licensed Vocational Nurses	2870	1.51	41142	98.7%	98.8%
Dayton, OH	9	43-1011	First-Line Supervisors of Office and Administrative Support Workers	2610	0.68	50731	60.1%	56.7%
Dayton, OH	10	41-3099	Sales Representatives, Services, All Other	2420	1.07	45864	26.0%	55.7%
Toledo, OH	1	29-1141	Registered Nurses	7870	1.3	58656	76.8%	70.4%
Toledo, OH	2	53-3032	Heavy and Tractor-Trailer Truck Drivers	4180	1.14	44845	94.5%	88.6%
Toledo, OH	3	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	3710	0.75	32219	96.9%	85.8%
Toledo, OH	4	49-9071	Maintenance and Repair Workers, General	3650	1.26	38854	99.9%	97.0%
Toledo, OH	5	11-1021	General and Operations Managers	3390	0.73	99169	62.1%	26.5%
Toledo, OH	6	43-3031	Bookkeeping, Accounting, and Auditing Clerks	3300	0.93	34050	81.8%	79.2%
Toledo, OH	7	51-4041	Machinists	2600	2.95	55557	95.3%	NA
Toledo, OH	8	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2430	0.78	50378	23.4%	50.5%
Toledo, OH	9	53-7051	Industrial Truck and Tractor Operators	2340	2	33134	100.0%	100.0%
Toledo, OH	10	43-1011	First-Line Supervisors of Office and Administrative Support Workers	2300	0.73	47466	60.1%	53.5%
Youngstown-Warren-Boardman, OH-PA	1	29-1141	Registered Nurses	4670	1.08	55557	76.8%	77.5%
Youngstown-Warren-Boardman, OH-PA	2	53-3032	Heavy and Tractor-Trailer Truck Drivers	3900	1.49	39894	94.5%	86.9%
Youngstown-Warren-Boardman, OH-PA	3	11-1021	General and Operations Managers	2530	0.77	90090	62.1%	48.2%
Youngstown-Warren-Boardman, OH-PA	4	49-9071	Maintenance and Repair Workers, General	2480	1.2	34174	99.9%	96.3%
Youngstown-Warren-Boardman, OH-PA	5	43-3031	Bookkeeping, Accounting, and Auditing Clerks	2430	0.96	32240	81.8%	75.5%
Youngstown-Warren-Boardman, OH-PA	6	41-1011	First-Line Supervisors of Retail Sales Workers	2290	1.18	33259	92.5%	74.0%
Youngstown-Warren-Boardman, OH-PA	7	29-2061	Licensed Practical and Licensed Vocational Nurses	2210	1.96	36338	98.7%	NA

Youngstown-Warren-Boardman, OH-PA	8	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1910	0.85	45386	23.4%	61.6%
Youngstown-Warren-Boardman, OH-PA	9	43-1011	First-Line Supervisors of Office and Administrative Support Workers	1680	0.74	43181	60.1%	60.2%
Youngstown-Warren-Boardman, OH-PA	10	51-1011	First-Line Supervisors of Production and Operating Workers	1340	1.4	51563	76.4%	68.4%

Notes: To be included in the table, the occupation had to be identified as an opportunity occupation in either the O*NET or BGT data set. BGT values are based on the online job ads from the MSA only. NA in the table indicates there were too few job ads (< 50) with a minimum education specified, and therefore estimates are not reported.

Sources: Bureau of Labor Statistics, Bureau of Economic Analysis, O*NET, Burning Glass Technologies, and authors' calculations

Appendix 1 for *Opportunity Occupations in Ohio: Identification, Online Postings, and Employer Education Preferences* report, produced in January 2016 by the Community Development Department at the Federal Reserve Bank of Cleveland