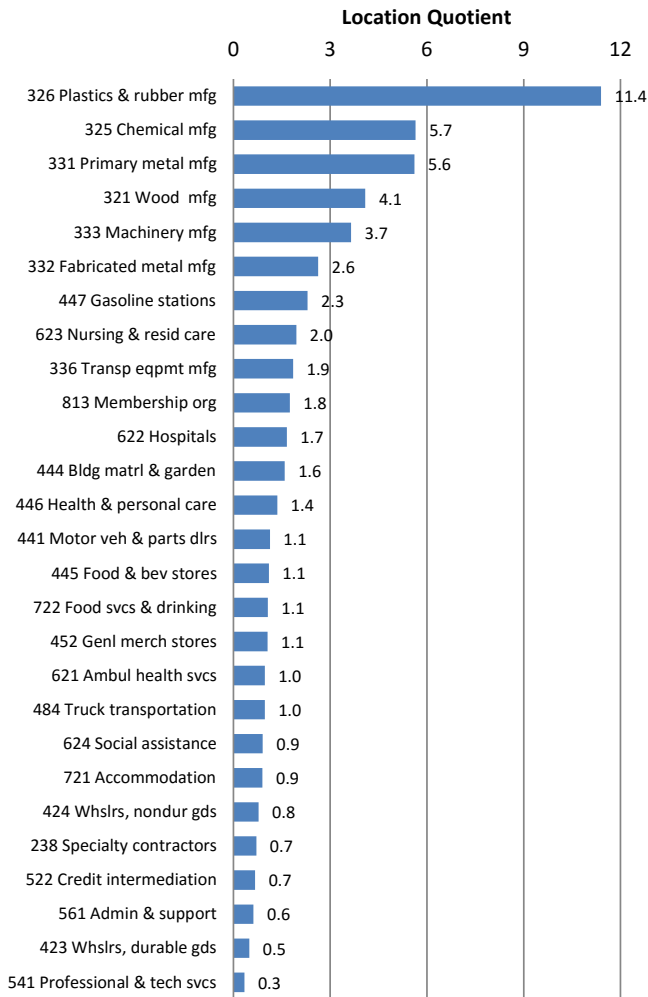


Summary

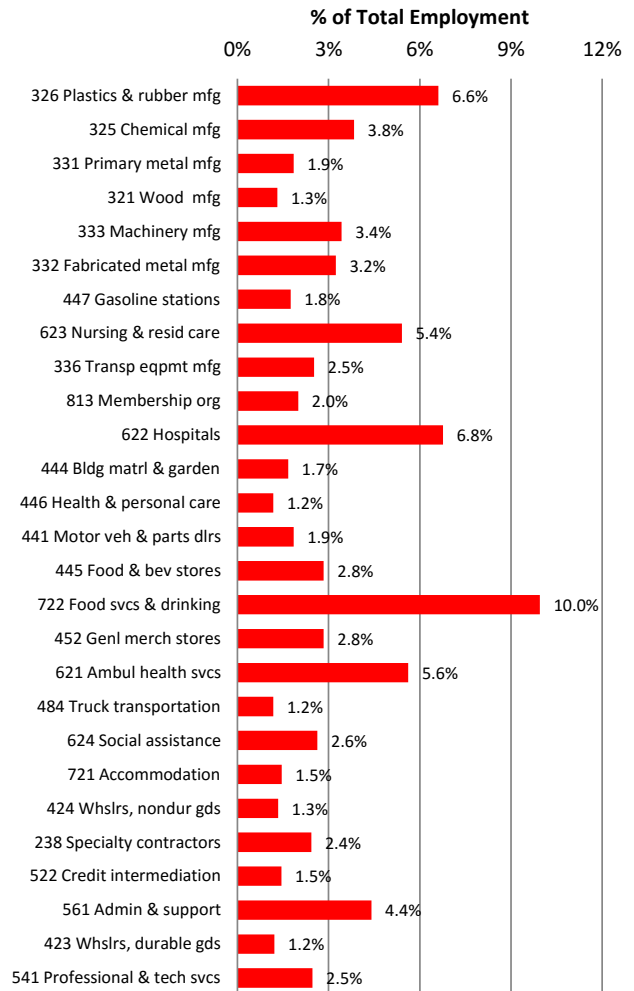
Ashtabula County had 27 industries with over 300 employees which comprised over 80% of the county's employment base. Five large manufacturing industries were key export components of the county's economic base: Plastics & Rubber, Chemicals, Primary Metals, Machinery and Fabricated Metals. The location quotient of the five largest manufacturing industries in the county increased from 2001 to 2015, indicating that Ashtabula County's specialization in manufacturing increased slightly. The county lost 8% of its employment from 2001 to 2015 and as a result, many of the county's top industries lost employment.

**Large Employer Location Quotients
(27 Industries With Over 300 Employees)**



Source: BLS, QCEW

**Ashtabula Co. % of Total Employment
27 Industries Had 83% of Total Employment**



Source: BLS, QCEW

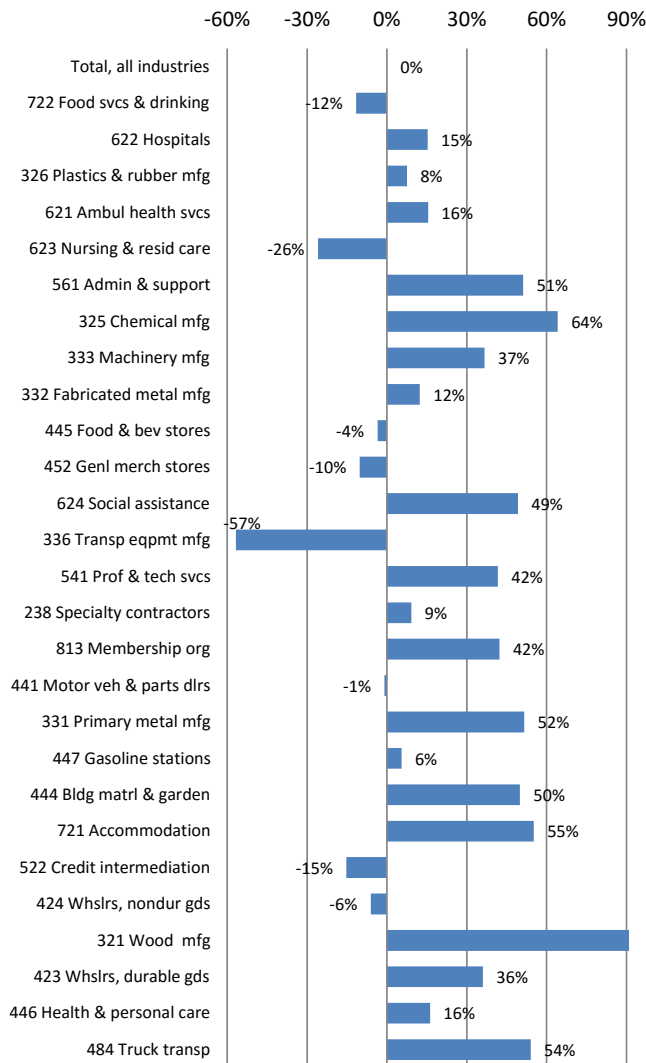
Note on Location Quotients

The Bureau of Labor Statistics (BLS) provides location quotients for state and county areas based on data in the Quarterly Census of Employment and Wages (QCEW). Data for some local industries is not disclosed due to confidentiality concerns. Location quotients are a method of quantifying how concentrated particular industries are in Ashtabula County compared to the nation as a whole. An industry with a local location quotient of 2.0 has twice the percentage of total employment in the industry as the nation as a whole. An industry with location quotient less than one has a lower percentage of local employment than the nation as a whole. Industries with high location quotients are generally more dependent on serving customers outside the immediate area and therefore regarded as export-oriented for the area. An industry with a high location quotient and large employment is often regarded as a key economic sector and its expansion or contraction is an indicator of the area's economic health.

The location quotient of the four largest industries in the county increased from 2001 to 2015, indicating that Ashtabula County's specialization increased slightly. Despite the increase in location quotient, four of the top five industries lost employment, however. Location quotients and employment in health and social service industries increased.

2001-15 % Change in Location Quotients (Ranked By Employment)

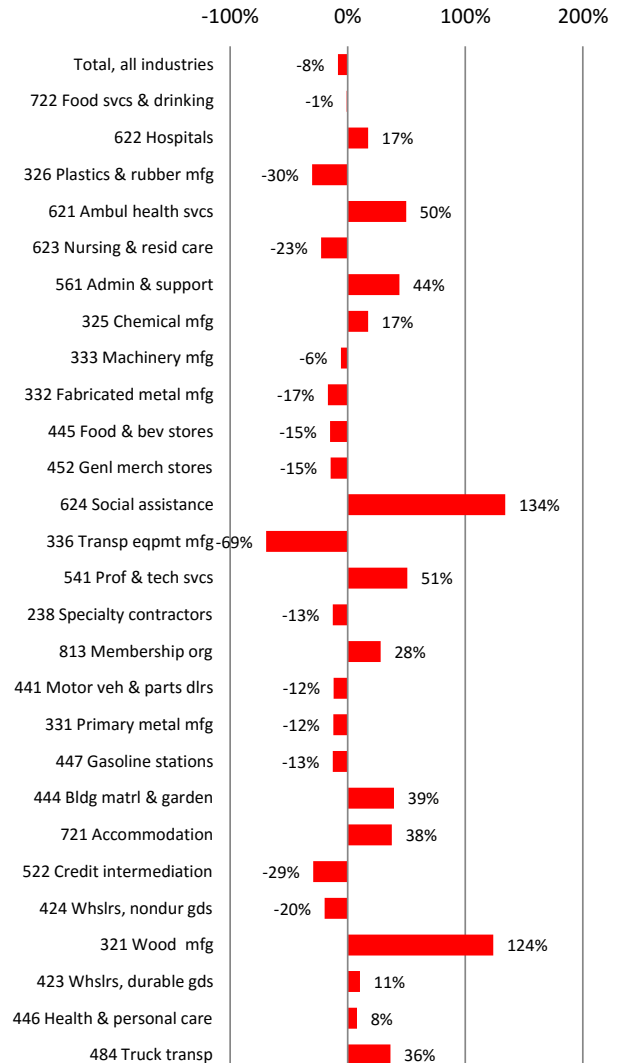
Location Quotients of Many Large Manufacturing Companies Increased



Source: BLS, QCEW. An increase in location quotient indicates an increase in local specialization in an industry, relative to the nation.

2001-15 % Change in Employment (Ranked By Employment)

Employment In Many Manufacturing Industries Decreased



Source: BLS, QCEW

Ashtabula County Location Quotients and Employment (Industries with 300 or More Employees)

Industry	2015 Ashtabula Co. Empl	2015 Ashtabula Co. % of Tot Empl	2015 Ashtabula Co. LQ	2001-15 %Chg Ashtab Co. LQ	2001-15 %Chg Ashtab Co. Empl
Total, all industries	25,809	100.00%	1.00	0%	-8%
722 Food svcs & drinking	2,569	9.95%	1.07	-12%	-1%
622 Hospitals	1,745	6.76%	1.66	15%	17%
326 Plastics & rubber mfg	1,705	6.61%	11.40	8%	-30%
621 Ambul health svcs	1,451	5.62%	0.97	16%	50%
623 Nursing & resid care	1,396	5.41%	1.95	-26%	-23%
561 Admin & support	1,137	4.41%	0.62	51%	44%
325 Chemical mfg	992	3.84%	5.65	64%	17%
333 Machinery mfg	884	3.43%	3.65	37%	-6%
332 Fabricated metal mfg	837	3.24%	2.63	12%	-17%
445 Food & bev stores	733	2.84%	1.10	-4%	-15%
452 Genl merch stores	733	2.84%	1.06	-10%	-15%
624 Social assistance	679	2.63%	0.91	49%	134%
336 Transp eqpmt mfg	650	2.52%	1.85	-57%	-69%
541 Prof & tech svcs	638	2.47%	0.34	42%	51%
238 Specialty contractors	627	2.43%	0.71	9%	-13%
813 Membership org	517	2.00%	1.75	42%	28%
441 Motor veh & parts dlrs	478	1.85%	1.13	-1%	-12%
331 Primary metal mfg	477	1.85%	5.61	52%	-12%
447 Gasoline stations	452	1.75%	2.30	6%	-13%
444 Bldg matrl & garden	432	1.67%	1.59	50%	39%
721 Accommodation	377	1.46%	0.90	55%	38%
522 Credit intermediation	374	1.45%	0.67	-15%	-29%
424 Whslrs, nondur gds	347	1.34%	0.78	-6%	-20%
321 Wood mfg	338	1.31%	4.09	297%	124%
423 Whslrs, durable gds	316	1.22%	0.49	36%	11%
446 Health & personal care	304	1.18%	1.36	16%	8%
484 Truck transp	304	1.18%	0.97	54%	36%

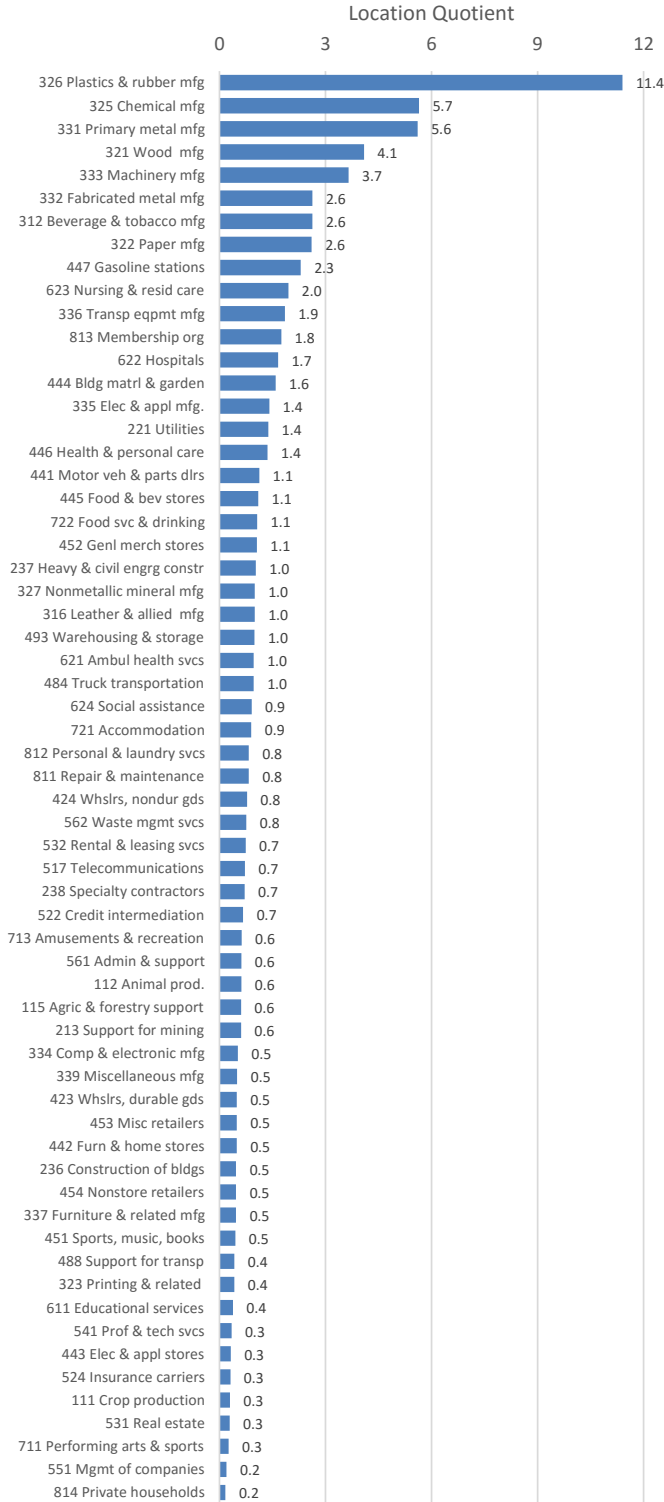
Source: BLS, QCEW. 2014 employment for 327, 335, 336 is estimated. 2001 employment for 213, 312, 523, 541, 551 is estimated.

Note: Location Quotient: Percentage of local industry employment divided by the percentage of industry employment in the base area. A location quotient of greater than 1 indicates a higher share of employment locally compared to the base area, while a location quotient of less than 1 indicates a smaller share of local employment.

Appendix: Location Quotients and % of Total Employment

Ashtabula Co. Location Quotients

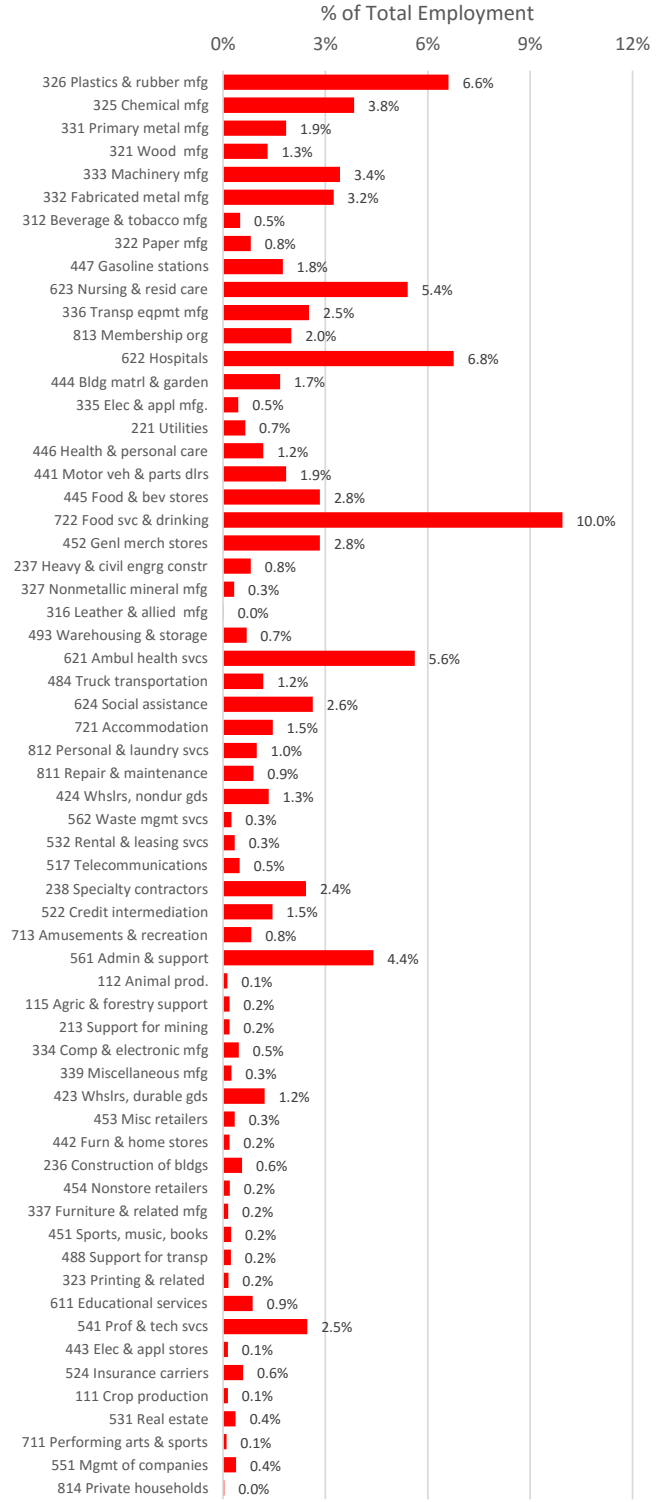
8 Manufacturing Industries Have LQ Over 2.5 Indicating High Concentration in County



Source: BLS, QCEW

Ashtabula Co. % of Total Employment

Top 8 Industries Represent 20% of Total Employment and Key Export Industries



Source: BLS, QCEW

Note: Data was available or estimated for 66 of 93 industries. Local employment was zero or not disclosed for other industries in Ashtabula Co.