



2024

MANUFACTURING SCORECARD AND BRIEF



Allegheny Conference
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STRATEGY & RESEARCH

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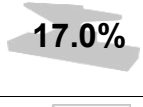



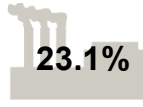







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Summary

Southwestern Pennsylvania Manufacturing Scorecard: 2024		
2022 Gross Domestic Product		
 5 th	...largest industry in the Pittsburgh MSA in terms of gross regional product (\$12.3B). Between 2021 and 2022, Pittsburgh manufacturing gross product increased ...	 3.6%
 \$193,643	...gross domestic product per manufacturing employee for SWPA is slightly below the Pennsylvania GDP per manufacturing employee. Since 2021, gross regional product per manufacturing employee has increased ...	 7.6%
2022 Employment		
 89,028	...manufacturing employees. This accounts for 7.5% of total employment. Though long term manufacturing employment has declined, between 2021 and 2022, employment in manufacturing increased ...	 3.8%
 17.0%	...of manufacturing employment is in Fabricated Metals. In addition, the concentration of Primary Metals employment is nearly ...	4x the national average
 2.62	... jobs are supported directly or indirectly by each manufacturing job in the region, which is approximately ...	233,000+ jobs
2022 Establishments		
 2,808	...manufacturing establishments. This ranks the SWPA 23rd among all metropolitan areas. The concentration of manufacturing establishments in the region exceeds the nation by...	 22.4%
 23.1%	...of establishments manufacture Fabricated Metal, the largest sub-sector by establishments. While still small, Beverage and Tobacco Product manufacturers has the largest increase in establishments in 2022, increasing by 8 locations, for a growth rate of...	 8.8%
2022 Wages		
 \$91,676	...average annual wage for manufacturing employees. This is 3.74% higher than the average job in Southwestern Pennsylvania. Manufacturing wage growth in the region was comparable to the nation with an increase of...	 3.7%
2022 Exports		
 \$11+ B	...billion in exports. Chemicals was the largest manufacturing export from the region, valued at...	 \$2+ B
2022 Expansions		
 49	...announced manufacturing investments. These announcements are expected to generate an average of 43 jobs each, including new and retained jobs. In all, manufacturing expansions in 2022 expected to create 1,679 new jobs.	 1,679

Introduction

This brief report provides a quantitative overview of the state of manufacturing in Southwestern Pennsylvania (SWPA) for the year 2022.¹ The intention is to provide readers with a detailed overview of how the manufacturing sector is performing, and whether we are on the right growth trajectory. The report evaluates the sector across five key domains: (i) regional productivity or gross regional product; (ii) employment or jobs; (iii) establishments; (iv) wages; and (v) exports. Where possible, the report delves deeper into the sector to provide an assessment at the sub-sector level.

Methodology

To conduct this analysis, the ACCD leveraged *Lightcast.io* as a data aggregator. The underlying data came from the following sources:

- Gross Regional Product: *Bureau of Economic Analysis* (www.bea.gov)
- Employment: *Bureau of Labor Statistics* (www.bls.gov)
- Establishments: *Bureau of Labor Statistics* (www.bls.gov)
- Wages: *Bureau of Labor Statistics* (www.bls.gov)
- Exports: *International Trade Administration* (www.trade.gov)
- Investments and Downsizings: *Allegheny Conference on Community Development*

While release dates of data often vary depending on the source, in all cases, the most recent available data was used. Comparisons include the most recent year-over-year change and the change from 2018.

For the computation of the multiplier for manufacturing jobs in SWPA, *Lightcast.io* provides a detailed methodology, which was followed. The methodology is available at: [How to Aggregate I-O Multipliers | Lightcast Knowledge Base](#)

ACCD maintains a live database of all business investments and downsizings in the region, which was also used in this brief report.

¹ Southwestern Pennsylvania comprises ten counties - Allegheny, Armstrong, Beaver, Butler, Fayette, Greene, Indiana, Lawrence, Washington and Westmoreland – that create the Pittsburgh metropolitan region.

Findings

Gross Regional Product (GRP)

Manufacturing stands as the 5th largest regional industry in terms of GRP, contributing \$12.3 Billion to the total gross regional product in 2022. GRP saw a decline during the COVID-19 pandemic but has since been on a gradual path of recovery, with the 4th highest growth rate across the region's sectors.

Compared to the national (12%) and the State of Pennsylvania's (7.3%) year-over-year growth rate in Manufacturing productivity, the region underperformed with a growth rate of only 3.6%.

Table 1: Gross Regional Product by sector for SWPA

GRP by Sector (in millions)	2017	2018	2019	2020	2021	2022	1-Year Change	5-Year Change
Finance, insurance, real estate, rental, and leasing	\$31,900.8	\$31,544.1	\$32,012.3	\$31,289.5	\$32,177.1	\$32,021.0	-0.5%	1.5%
Professional and business services	\$22,671.4	\$23,528.7	\$24,204.2	\$23,331.2	\$25,912.0	\$27,738.2	7.0%	17.9%
Educational services, health care, and social assistance	\$19,068.0	\$19,791.4	\$20,344.8	\$19,809.8	\$19,581.7	\$20,046.9	2.4%	1.3%
Government and government enterprises	\$13,097.3	\$13,082.9	\$13,063.8	\$12,454.4	\$12,466.8	\$12,510.1	0.3%	-4.4%
Manufacturing	\$13,662.6	\$13,888.5	\$13,817.1	\$12,364.2	\$11,909.9	\$12,340.8	3.6%	-11.1%
Information	\$7,077.0	\$7,596.3	\$8,398.6	\$8,329.2	\$10,407.0	\$10,813.3	3.9%	42.3%
Retail trade	\$10,548.4	\$10,808.5	\$11,130.4	\$11,123.7	\$11,078.4	\$10,805.3	-2.5%	0.0%
Wholesale trade	\$10,135.1	\$10,294.1	\$10,111.2	\$10,030.3	\$9,999.3	\$9,379.5	-6.2%	-8.9%
Transportation and warehousing	\$6,839.4	\$7,683.7	\$6,363.9	\$5,577.2	\$5,937.2	\$5,976.0	0.7%	-22.2%
Construction	\$6,848.2	\$7,336.7	\$7,594.1	\$6,552.1	\$6,710.0	\$5,789.8	-13.7%	-21.1%
Arts, entertainment, recreation, accommodation, and food services	\$6,178.3	\$6,267.5	\$6,310.8	\$4,421.2	\$5,255.4	\$5,675.6	8.0%	-9.4%
Mining, quarrying, and oil and gas extraction	\$5,177.7	\$5,294.7	\$5,788.8	\$5,460.2	\$5,287.1	\$5,101.4	-3.5%	-3.7%
Utilities	\$3,773.2	\$3,406.2	\$3,305.4	\$3,129.9	\$3,097.2	\$2,856.9	-7.8%	-16.1%
Agriculture, forestry, fishing and hunting	\$158.1	\$125.4	\$195.4	\$167.4	\$168.9	\$78.3	-53.7%	-37.6%

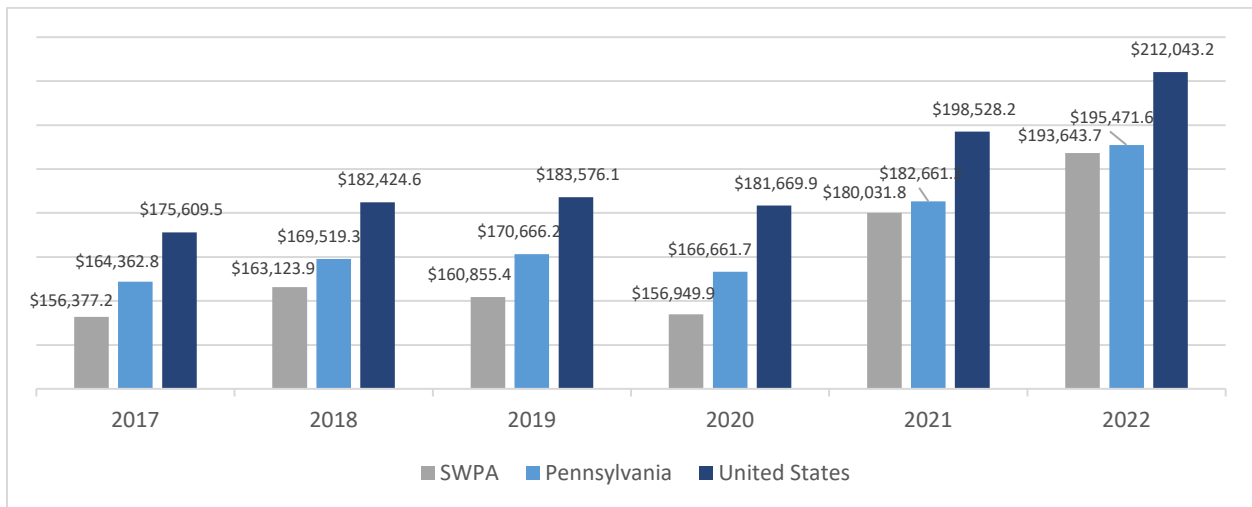
Looking at the productivity of workers in the manufacturing sector, SWPA workers are underperforming in comparison to the state and national worker productivity on average. However, the rate at which worker productivity is increasing is higher for SWPA (19%) than the same rate for the state (15%) and the country (16%) over a 5-year period.

Table 2: Productivity per worker in the manufacturing sector – Regional, State and National

Productivity per Worker	2017	2018	2019	2020	2021	2022	1-Year Change	5-Year Change
SWPA	\$156,377.2	\$163,123.9	\$160,855.4	\$156,949.9	\$180,031.8	\$193,643.7	7.6%	18.7%
Pennsylvania	\$164,362.8	\$169,519.3	\$170,666.2	\$166,661.7	\$182,661.2	\$195,471.6	7.0%	15.3%
United States	\$175,609.5	\$182,424.6	\$183,576.1	\$181,669.9	\$198,528.2	\$212,043.2	6.8%	16.2%

The productivity gap between the state and the SWPA region has slowly been closing. Over the past two years, this gap has been reduced to less than 1%. The gap between SWPA and the country has also narrowed to less than 10%.

Figure 1: Productivity per worker in the Manufacturing sector



Note: This chart visualizes the average economic productivity per manufacturing worker for SWPA, the State of Pennsylvania, and the United States, over time.

Employment

Similar to GRP, the manufacturing sector is the 5th largest employer in SWPA, with a total of 89,028 salaried employees in 2022. The sector has seen a steady recovery from the pandemic lows with a 3.8% year-over-year growth rate, which is the fourth highest observed across all sectors. Accommodation and Food Services, and Arts, Entertainment and Recreation, both of which were severely affected by the COVID-19 lockdowns, were the top two sectors in terms of annual growth rates for the 2021-22 time period, as business returned to pre-pandemic levels.²

Table 3: Top industries in SWPA by employment

Industry	2017 Jobs	2018 Jobs	2019 Jobs	2020 Jobs	2021 Jobs	2022 Jobs	2022 Percent of Total Employment	1-Year Change	5-Year Change
Health Care and Social Assistance	208,503	215,948	218,891	211,542	202,290	201,596	17.0%	-0.3%	-6.6%
Government	134,168	133,102	133,130	128,522	127,506	126,570	10.7%	-0.7%	-4.9%
Retail Trade	132,140	129,653	126,705	118,402	122,862	122,559	10.4%	-0.2%	-5.5%
Accommodation and Food Services	104,379	104,605	105,065	78,580	86,946	96,118	8.1%	10.5%	-8.1%
Manufacturing	91,663	92,879	93,242	86,365	85,808	89,028	7.5%	3.8%	-4.1%
Professional, Scientific, and Technical Services	78,511	78,327	79,339	79,089	79,026	77,301	6.5%	-2.2%	-1.3%
Construction	59,021	61,345	65,841	58,748	61,641	60,437	5.1%	-2.0%	-1.5%
Educational Services	63,499	62,289	64,314	61,682	58,106	58,350	4.9%	0.4%	-6.3%
Other Services (except Public Administration)	59,151	59,867	59,716	52,635	53,257	54,830	4.6%	3.0%	-8.4%
Finance and Insurance	60,720	61,360	62,212	61,754	59,210	54,456	4.6%	-8.0%	-11.3%
Administrative and Support and Waste Management and Remediation Services	55,093	54,747	54,627	48,296	48,616	49,922	4.2%	2.7%	-8.8%
Transportation and Warehousing	41,766	43,111	43,625	40,070	42,497	43,877	3.7%	3.2%	1.8%
Management of Companies and Enterprises	38,352	38,497	38,350	33,505	38,234	40,139	3.4%	5.0%	4.3%
Wholesale Trade	39,265	39,329	38,913	35,822	35,401	35,943	3.0%	1.5%	-8.6%
Arts, Entertainment, and Recreation	21,991	22,238	22,778	15,546	18,602	21,635	1.8%	16.3%	-2.7%
Information	17,398	17,676	17,611	15,976	15,869	16,237	1.4%	2.3%	-8.1%
Real Estate and Rental and Leasing	14,666	15,228	15,786	14,845	15,249	15,729	1.3%	3.1%	3.3%
Mining, Quarrying, and Oil and Gas Extraction	13,157	14,217	14,870	11,750	10,897	10,417	0.9%	-4.4%	-26.7%
Utilities	6,899	6,904	6,474	6,392	6,400	6,236	0.5%	-2.6%	-9.7%

² This excludes Agriculture, Forestry, Fishing and Hunting since it is the smallest sector for the region with negligible employment.

On average, each job in the manufacturing sector supports 2.62 additional jobs in the region. This means that the 89,028 jobs in the manufacturing sector in 2022 supported a total of 233,253 jobs, including 144,225 indirect and induced jobs.

Employment by Sub-Sector of Manufacturing

Fabricated metal products, machinery, primary metal, computer and electronic products, and food were the top five sub-sectors of manufacturing by employment generated. These sectors have historically been SWPA's top manufacturing sub-sectors, and collectively accounted for 56% of the total manufacturing jobs in the region.

Fabricated metal production and primary metal manufacturing have seen a substantive decline in the number of jobs over the past five years. Though primary metal manufacturing saw a bounce back over the previous year, the total employment is still 11.2% less than what it was in 2018 and 2019.

Paper manufacturing, textile products, and beverage and tobacco products are the three fastest growing sub-sectors in SWPA, though their size by total employment is quite small.

Miscellaneous manufacturing, which has seen a year-over-year growth of 11.6% and is the ninth largest manufacturing sub-sector in terms of employment, is largely growing because of the Medical Equipment and Supplies Manufacturing industry in the region. The Medical Equipment and Supplies manufacturing industry was responsible for more than two thirds of the total employment in the miscellaneous manufacturing sub-sector (3,345 jobs).

Table 4: Top manufacturing sub-sectors by employment

Industry	2017 Jobs	2018 Jobs	2019 Jobs	2020 Jobs	2021 Jobs	2022 Jobs	2022 Percent of Total Employment	1-Year Change	5-Year Change
Fabricated Metal Product Manufacturing	16,200	16,263	16,290	14,997	14,685	15,178	17.0%	3.4%	-7.2%
Machinery Manufacturing	10,464	10,792	11,023	10,541	10,269	10,580	11.9%	3.0%	-2.0%
Primary Metal Manufacturing	10,850	11,283	11,376	9,791	9,250	10,146	11.4%	9.7%	-11.2%
Computer and Electronic Product Manufacturing	8,310	8,722	8,830	8,803	8,764	8,717	9.8%	-0.5%	-0.1%
Food Manufacturing	5,925	5,843	5,478	4,953	5,218	5,589	6.3%	7.1%	-4.5%
Plastics and Rubber Products Manufacturing	5,303	5,470	5,579	5,271	5,390	5,488	6.2%	1.8%	0.3%
Electrical Equipment, Appliance, and Component Manufacturing	5,139	5,218	5,394	5,313	5,275	5,276	5.9%	0.0%	1.1%
Nonmetallic Mineral Product Manufacturing	5,663	5,437	5,289	4,689	4,608	4,703	5.3%	2.1%	-15.6%
Miscellaneous Manufacturing	4,509	4,579	4,564	4,002	4,127	4,606	5.2%	11.6%	0.6%
Chemical Manufacturing	4,673	4,474	4,382	4,266	4,209	4,251	4.8%	1.0%	-5.2%
Printing and Related Support Activities	3,469	3,323	3,244	2,758	2,700	2,850	3.2%	5.6%	-16.6%
Transportation Equipment Manufacturing	2,226	2,510	2,512	2,239	2,362	2,398	2.7%	1.5%	-4.7%
Petroleum and Coal Products Manufacturing	1,987	2,170	2,146	2,032	2,007	2,049	2.3%	2.1%	-5.9%
Wood Product Manufacturing	1,955	1,909	1,984	1,887	1,845	1,879	2.1%	1.8%	-1.6%
Beverage and Tobacco Product Manufacturing	1,367	1,445	1,460	1,412	1,640	1,680	1.9%	2.4%	14.0%
Paper Manufacturing	1,192	1,063	1,357	1,322	1,336	1,429	1.6%	7.0%	25.6%
Furniture and Related Product Manufacturing	1,140	1,075	1,024	914	916	936	1.1%	2.2%	-14.8%
Textile Product Mills	657	649	810	711	757	778	0.9%	2.9%	16.6%
Textile Mills	432	505	365	382	333	373	0.4%	11.9%	-35.5%
Apparel Manufacturing	195	141	108	76	99	118	0.1%	19.8%	-19.3%

Table 5: Miscellaneous manufacturing jobs

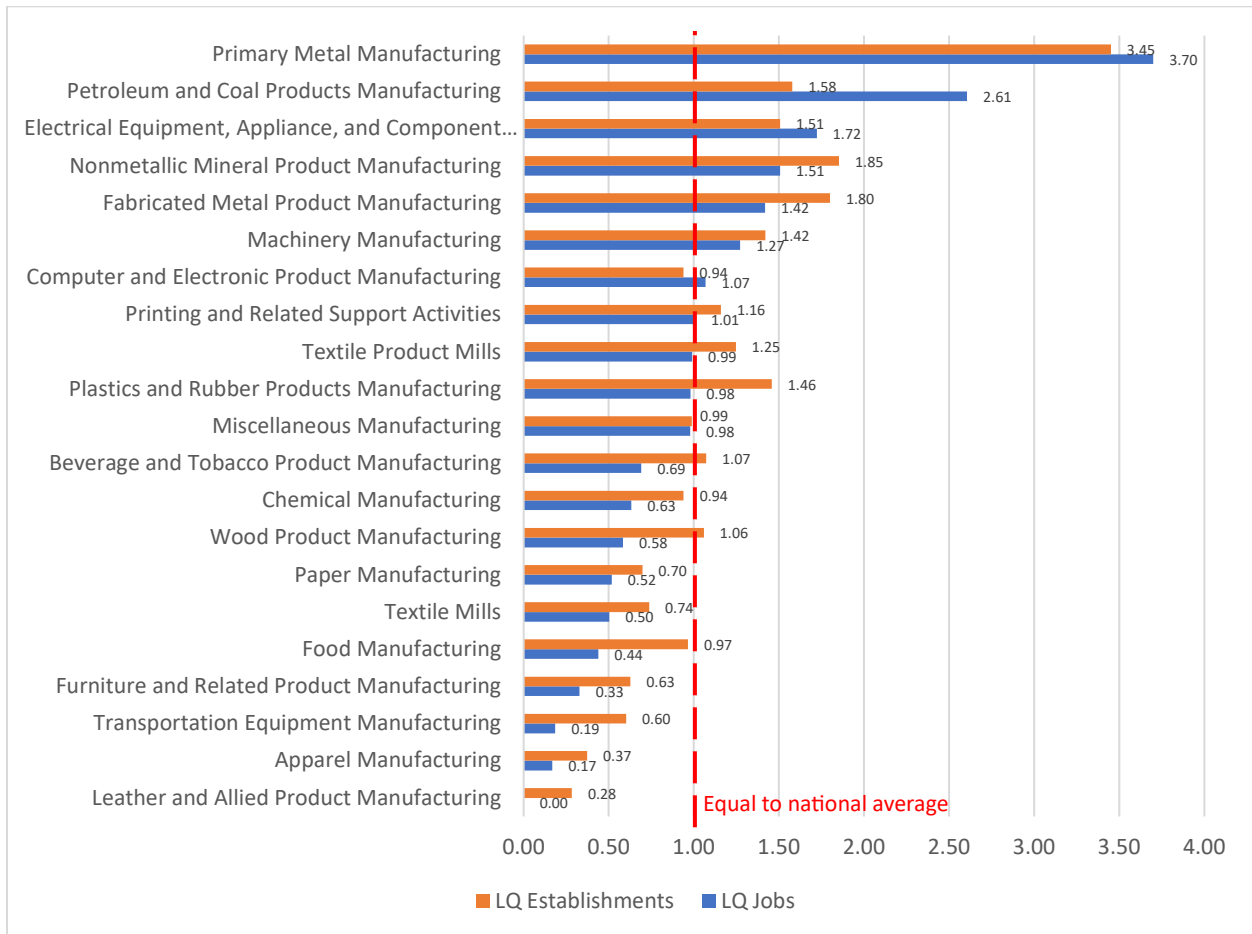
Description	2017 Jobs	2018 Jobs	2019 Jobs	2020 Jobs	2021 Jobs	2022 Jobs	1-Year Change	5-Year Change
Miscellaneous Manufacturing	4,509	4,579	4,564	4,002	4,127	4,606	11.6%	0.6%
<i>Medical Equipment and Supplies Manufacturing</i>	3,148	3,243	3,204	2,828	2,920	3,345	14.5%	3.1%
<i>Other Miscellaneous Manufacturing</i>	1,361	1,336	1,360	1,173	1,207	1,261	4.5%	-5.6%

Location Quotient (LQ)³ for Manufacturing Sub-Sectors

SWPA remains dominated by the primary metal manufacturing sub-sector, closely followed by petroleum and coal products manufacturing in terms of employment concentration relative to US averages. In the case of primary metal manufacturing, this share of employment in SWPA is nearly four times the concentration observed at the national level.

Another noteworthy sub-sector of manufacturing is electrical equipment, appliance and component manufacturing, which has surpassed nonmetallic mineral product manufacturing in recent years in terms of employment concentration.

Figure 2: Jobs and establishment location quotient for each manufacturing sub-sector for 2022



Note: This chart visualizes the LQ of manufacturing sub-sector establishments and the LQ of manufacturing sub-sector jobs. The red dashed line references where the LQ is the same as the national average. Sub-sectors with LQ beyond the line have a greater intensity of establishments and/or jobs than the national average.

³ The location quotient (LQ) is a measure of intensity of employment activity relative to the national average. An LQ of 1 means that the share of employment for an industry or sector is at par with the share of employment at the national level. Values below 1 mean that the industry employment is below the national average, and vice versa. LQ can be an indicator of regional specialization in certain industries.

The LQs for jobs and establishments are highly correlated (R=.92). The clear outlier is Petroleum and Coal Products manufacturing with an establishment LQ of 1.58 and a jobs LQ of 2.61, suggesting the rate of employment generated per employer in this manufacturing sub-sector is significantly higher than the national average. In other words. This sub-sector is dominated by large companies. All other sub-sectors likely comprise many small establishments.

Establishments

There were a total of 2,808 manufacturing establishments in the SWPA region in 2022, ranking it as the 10th largest industry group. This placed the SWPA region 23rd among all metropolitan areas. Additionally, the location quotient for manufacturing establishments in the region is 1.22, meaning the concentration of manufacturing establishments in the region exceeds the nation by 22.4%.

Table 6: Number of establishments in manufacturing over time

Industry	2017	2018	2019	2020	2021	2022	1-Year Change	5-Year Change
Health Care and Social Assistance	10,737	10,636	10,813	11,159	11,386	11,433	0.4%	7.5%
Retail Trade	8,262	8,196	8,077	7,937	7,845	7,820	-0.3%	-4.6%
Professional, Scientific, and Technical Services	6,696	6,772	6,812	6,903	7,040	7,194	2.2%	6.2%
Other Services (except Public Administration)	6,829	6,862	6,920	6,957	6,948	7,048	1.4%	2.7%
Construction	5,812	5,816	5,859	5,883	5,918	6,029	1.9%	3.7%
Accommodation and Food Services	5,921	5,949	5,962	5,889	5,788	5,854	1.1%	-1.6%
Finance and Insurance	3,665	3,660	3,677	3,717	3,727	3,688	-1.0%	0.8%
Administrative and Support and Waste Management and Remediation Services	3,132	3,132	3,105	3,108	3,067	3,143	2.5%	0.4%
Wholesale Trade	3,336	3,241	3,182	3,129	3,045	3,033	-0.4%	-6.4%
Manufacturing	2,820	2,796	2,796	2,765	2,769	2,808	1.4%	0.4%
Government	2,730	2,715	2,723	2,664	2,657	2,645	-0.5%	-2.6%
Real Estate and Rental and Leasing	2,137	2,214	2,257	2,307	2,326	2,415	3.8%	9.1%
Transportation and Warehousing	1,547	1,586	1,631	1,634	1,654	1,718	3.8%	8.3%
Arts, Entertainment, and Recreation	1,063	1,082	1,117	1,110	1,086	1,145	5.5%	5.9%
Information	793	812	839	858	878	900	2.5%	10.8%
Management of Companies and Enterprises	738	789	812	803	839	884	5.4%	12.1%
Educational Services	782	800	800	806	784	810	3.2%	1.2%
Mining, Quarrying, and Oil and Gas Extraction	443	457	458	433	421	415	-1.6%	-9.3%
Agriculture, Forestry, Fishing and Hunting	217	220	225	230	234	243	3.6%	10.5%
Utilities	151	164	149	150	143	153	7.4%	-6.3%

The top five manufacturing sub-sectors, i.e., fabricated metal products, machinery, food, miscellaneous, and printing and related, account for 55.6% of all manufacturing establishments in SWPA. Medical device manufacturing establishments have the largest share of miscellaneous manufacturing establishments (79 out of 213 establishments or 37%), which is a significant industrial activity in the Pittsburgh region. With 649 establishments, fabricated metal production is more than twice the size of the second-largest industry – machinery manufacturing (280).

Over the last five years, beverage and tobacco products manufacturing has seen the most noticeable growth in the number of establishments (37.8%), followed by petroleum and coal products (16.3%), food (13%) and transportation equipment (10.2%). Meanwhile, the furniture and related products industry has seen the greatest decline (11.3%),⁴ followed by printing and related support activities (6.4%), textile mills (5.8%) and computer and electronic products (4.6%).

Table 7: Manufacturing establishments by sub-sector

Sub-Sector of Manufacturing	2017	2018	2019	2020	2021	2022	1-Year Change	5-Year Change
Fabricated Metal Product Manufacturing	675	665	656	648	651	649	-0.3%	-2.4%
Machinery Manufacturing	291	291	288	279	274	280	2.0%	-4.0%
Food Manufacturing	202	200	203	207	215	226	4.9%	13.0%
Miscellaneous Manufacturing	199	208	206	204	208	213	2.5%	2.4%
Printing and Related Support Activities	221	210	205	205	191	196	3.0%	-6.4%
Nonmetallic Mineral Product Manufacturing	196	198	194	191	189	193	2.0%	-2.3%
Computer and Electronic Product Manufacturing	150	143	144	138	139	136	-1.8%	-4.6%
Chemical Manufacturing	129	128	131	129	132	132	-0.2%	3.5%
Plastics and Rubber Products Manufacturing	113	113	118	120	120	122	2.1%	8.7%
Primary Metal Manufacturing	124	123	127	122	121	120	-0.8%	-2.2%
Beverage and Tobacco Product Manufacturing	66	74	82	89	94	102	8.8%	37.8%
Wood Product Manufacturing	107	104	101	104	103	100	-2.7%	-3.8%
Electrical Equipment, Appliance, and Component Manufacturing	85	86	86	87	86	85	-1.7%	-1.2%
Furniture and Related Product Manufacturing	82	77	73	69	68	69	1.1%	-11.3%
Transportation Equipment Manufacturing	53	56	57	57	58	62	6.4%	10.2%
Textile Product Mills	55	50	49	48	47	48	2.7%	-3.5%
Petroleum and Coal Products Manufacturing	22	20	26	25	25	23	-6.1%	16.3%
Paper Manufacturing	22	21	20	22	22	23	3.4%	8.2%
Apparel Manufacturing	14	14	13	10	13	15	18.0%	3.5%
Textile Mills	13	13	13	11	11	12	11.4%	-5.8%
Leather and Allied Product Manufacturing	3	4	4	3	4	3	-37.5%	-41.2%

⁴ This list excludes Leather and Allied Product Manufacturing due to the very small number of establishments.

Wages

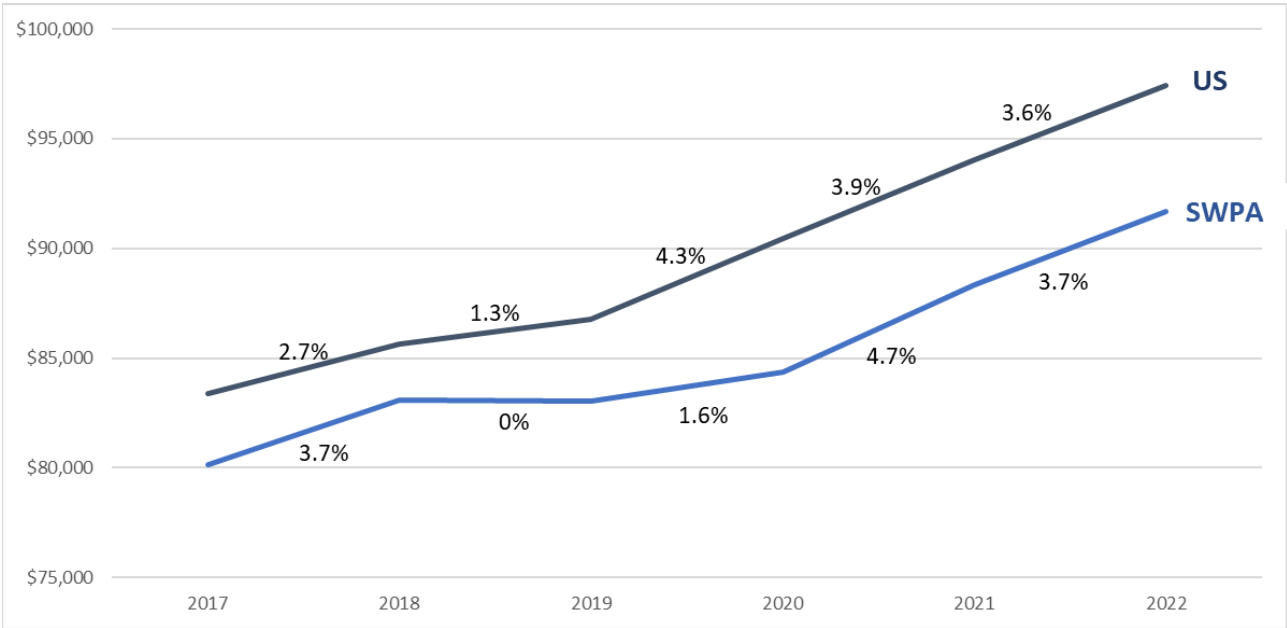
The average annual wage of a manufacturing employee in SWPA was around \$92,000 in 2022. This put manufacturing as the 8th highest paying sector on average. The average wage of a manufacturing worker was about 4% above the average wage across all sectors in SWPA.

Table 8: Wages in manufacturing vs other sectors

Average Earnings per Job by Sector	2017	2018	2019	2020	2021	2022	1-Year Change	5-Year Change
Management of Companies and Enterprises	\$148,208	\$150,850	\$149,874	\$158,793	\$169,819	\$170,943	0.7%	13.3%
Information	\$98,935	\$108,463	\$117,879	\$123,489	\$161,208	\$151,464	-6.0%	39.6%
Utilities	\$145,844	\$159,455	\$151,564	\$157,287	\$155,861	\$147,286	-5.5%	-7.6%
Mining, Quarrying, and Oil and Gas Extraction	\$131,146	\$120,671	\$122,479	\$121,255	\$130,121	\$131,351	0.9%	8.9%
Professional, Scientific, and Technical Services	\$98,029	\$100,539	\$105,151	\$109,721	\$112,732	\$119,257	5.8%	18.6%
Finance and Insurance	\$98,180	\$100,648	\$102,830	\$107,310	\$113,692	\$116,969	2.9%	16.2%
Wholesale Trade	\$79,880	\$82,274	\$82,467	\$85,220	\$90,455	\$94,937	5.0%	15.4%
Manufacturing	\$80,122	\$83,075	\$83,051	\$84,377	\$88,363	\$91,676	3.7%	10.4%
Government	\$79,146	\$81,945	\$82,266	\$86,377	\$87,084	\$88,611	1.8%	8.1%
Construction	\$74,234	\$78,249	\$84,305	\$85,714	\$89,032	\$88,128	-1.0%	12.6%
Real Estate and Rental and Leasing	\$70,604	\$72,886	\$74,622	\$81,368	\$85,784	\$84,193	-1.9%	15.5%
Health Care and Social Assistance	\$60,733	\$61,641	\$63,322	\$68,021	\$69,668	\$73,775	5.9%	19.7%
Transportation and Warehousing	\$60,666	\$63,108	\$66,403	\$67,206	\$68,182	\$71,719	5.2%	13.6%
Arts, Entertainment, and Recreation	\$54,224	\$53,494	\$54,548	\$59,865	\$58,766	\$62,176	5.8%	16.2%
Educational Services	\$48,984	\$50,485	\$51,950	\$53,244	\$57,448	\$58,686	2.2%	16.2%
Administrative and Support and Waste Management and Remediation Services	\$44,077	\$46,131	\$47,648	\$50,864	\$53,159	\$58,281	9.6%	26.3%
Agriculture, Forestry, Fishing and Hunting	\$29,338	\$33,836	\$36,862	\$39,569	\$41,784	\$45,665	9.3%	35.0%
Retail Trade	\$34,562	\$35,982	\$37,940	\$41,698	\$43,706	\$44,823	2.6%	24.6%
Other Services (except Public Administration)	\$32,538	\$33,489	\$33,968	\$36,130	\$38,740	\$41,425	6.9%	23.7%
Accommodation and Food Services	\$20,677	\$21,377	\$22,334	\$22,382	\$25,132	\$26,040	3.6%	21.8%

While the average annual wage in manufacturing for SWPA (\$91,676) was below the national average (\$97,453), the growth rate in wages was higher for the past two years. Nonetheless, since the growth rate was lower in 2019-2020, the wage difference has widened over the past five years (see: Figure 3).

Figure 3: Growth rate of wages in manufacturing



Note: This chart visualizes the year-over-year growth in manufacturing wages for the US and SWPA.

Exports

The region exported upwards of \$11 billion worth of goods and services in 2022, which was an 18.1% increase over the previous year. This increase was largely due to the growth in exports in the Chemicals and Primary Metal Manufacturing industries.

Table 9: Export value for the top five sectors for the Pittsburgh Metropolitan Area

Sector (in Millions of USD)	2017	2018	2019	2020	2021	2022	Percentage of Total	1-Year Change	5-Year Change
Minerals & Ores	\$2,585.1	\$2,609.8	-	\$1,497.2	\$2,598.8	\$3,109.5	27.8%	19.7%	19.1%
Chemicals	\$1,230.4	\$1,331.9	\$1,298.0	\$1,158.6	\$1,551.3	\$2,087.7	18.7%	34.6%	56.7%
Primary metal manufactures	\$1,540.1	\$1,672.4	\$1,624.0	\$1,159.9	\$1,212.2	\$1,631.9	14.6%	34.6%	-2.4%
Machinery	\$905.8	\$938.6	\$881.9	\$756.3	\$905.1	\$855.4	7.6%	-5.5%	-8.9%
Computer & electronic products	\$707.7	\$721.8	\$739.4	\$723.5	\$859.6	\$830.7	7.4%	-3.4%	15.1%
All Others	\$2,353.5	\$2,549.8	-	\$2,249.5	\$2,342.6	\$2,673.0	23.9%	14.1%	4.8%
TOTAL	\$9,322.6	\$9,824.3	\$9,672.9	\$7,545.0	\$9,469.6	\$11,188.2		18.1%	13.9%

Note: The International Trade Administration's data policies do not allow for data on 'Minerals & Ores' and 'All Others' categories for the year 2019 to be reported.

The Pittsburgh MSA ranked 37th in exports among all metropolitan areas. In 2022, Chemicals were the largest exported manufacturing product from the region, constituting 18.7% of the total exports, valued at more than \$2 billion. Primary Metal manufacturing exports, totaling \$1.6 billion, accounted for 14.6% of the total exports from the Pittsburgh MSA.

Both Chemicals and Primary metal manufactures saw close to 35% year-over-year increase in export value in 2022. However, over a 5-year period, Primary metal manufactures saw a reduction in export value of 2.4% while Chemicals grew 56.7%.

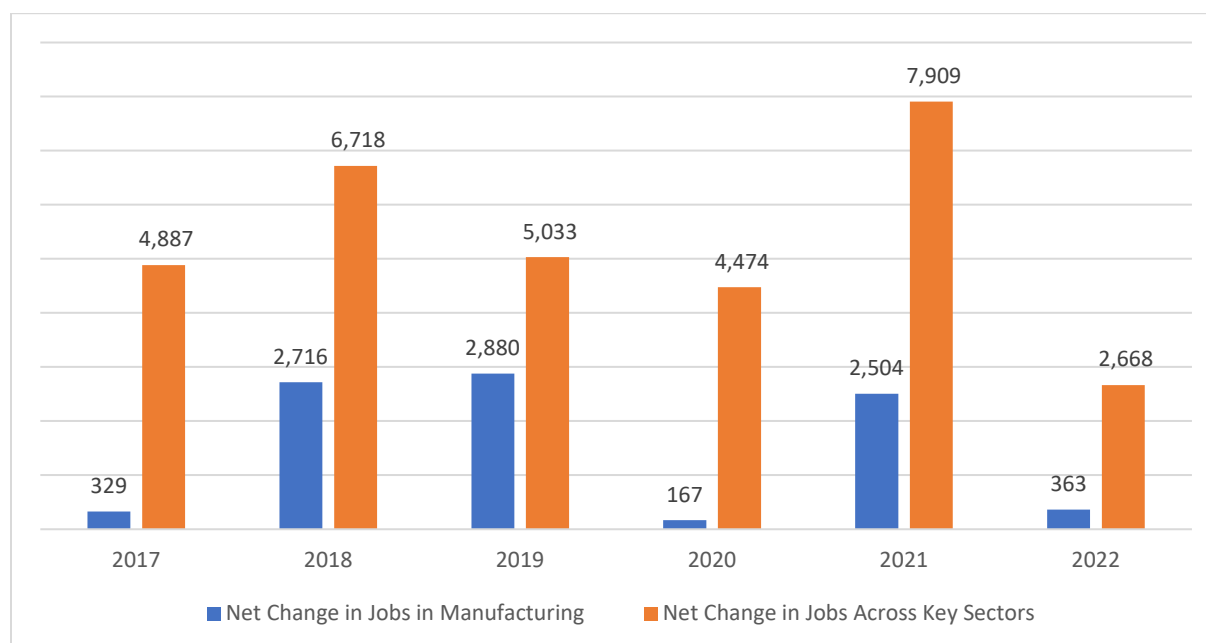
Announced Investments and Downsizings

Manufacturing jobs accounted for roughly 12% of the total change in jobs⁵ across SWPA’s key sectors in 2022, consistently ranking among the top two most active sectors in terms of expansion announcements over the years. Investments and jobs creation in manufacturing saw a decline at the onset of COVID-19, but saw a bounce back in 2021, followed by a decline in 2022. The region has consistently added jobs across its five key sectors over the past several years, though in recent years the rate of job growth has slowed down. Manufacturing has also accounted for a smaller proportion of total job growth over the past three years.

Table 10: Expansion and Downsizings in Advanced Manufacturing by Year

Year	Investments			Downsizings		Net Change in Jobs
	Total Activity	Jobs Impacted	Capital Investment	Total Activity	Jobs Impacted	
2017	51	2,470	\$165,173,000	19	-2,141	329
2018	56	4,000	\$252,124,900	14	-1,284	2,716
2019	62	2,966	\$339,222,468	5	-86	2,880
2020	36	971	\$76,521,040	9	-804	167
2021	60	2,664	\$220,322,741	2	-160	2,504
2022	49	2,072	\$310,119,168	4	-393	1,679

Figure 4: Net change in jobs in manufacturing vs all key sectors⁶



⁵ The Allegheny Conference tracks investment announcements in the region. The jobs noted here are based on the Conference’s internal tracking and estimation efforts which are reported in the annual Business Investment Scorecard.

⁶ Key sectors include manufacturing, information technology and robotics, healthcare and life sciences, financial and business services, and energy.