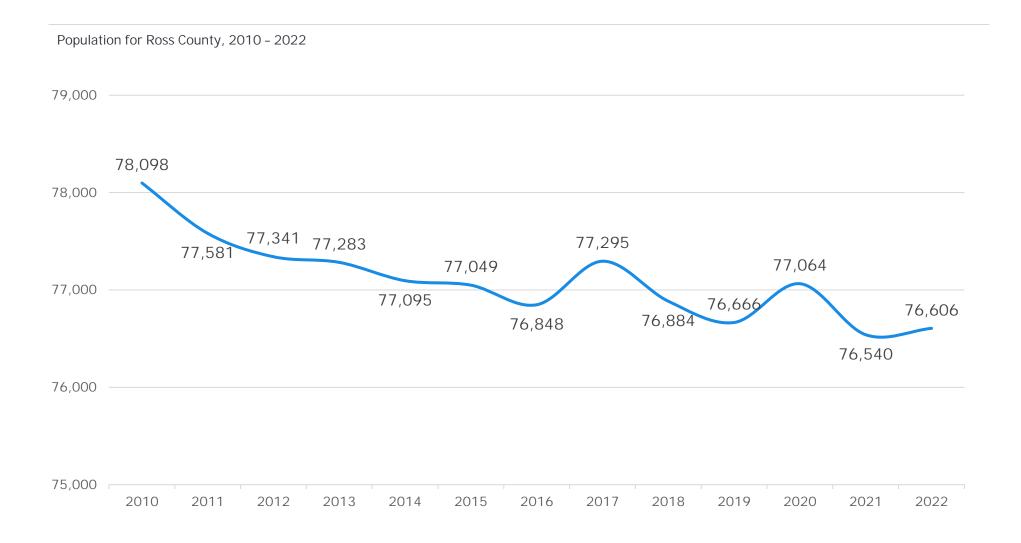
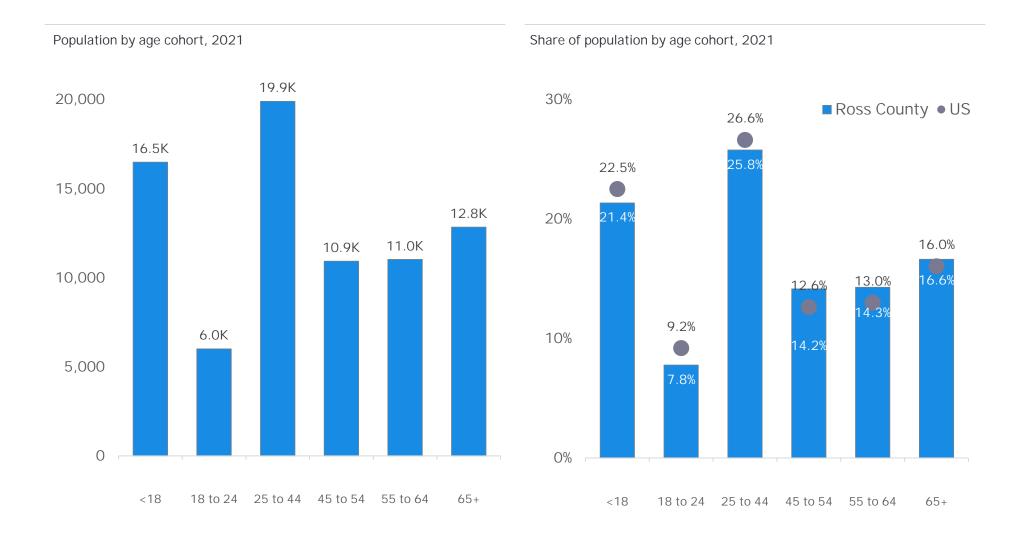


Population



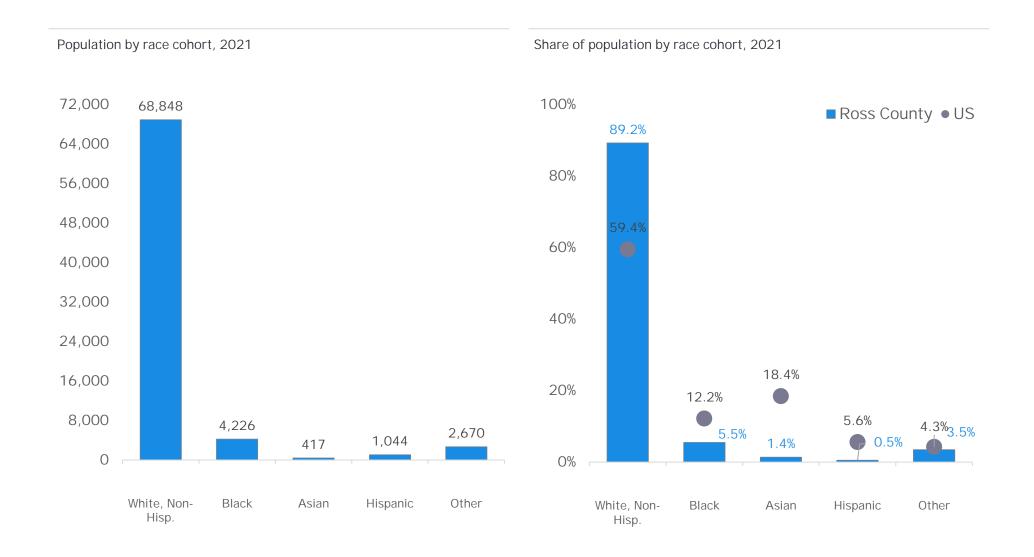


Population by age





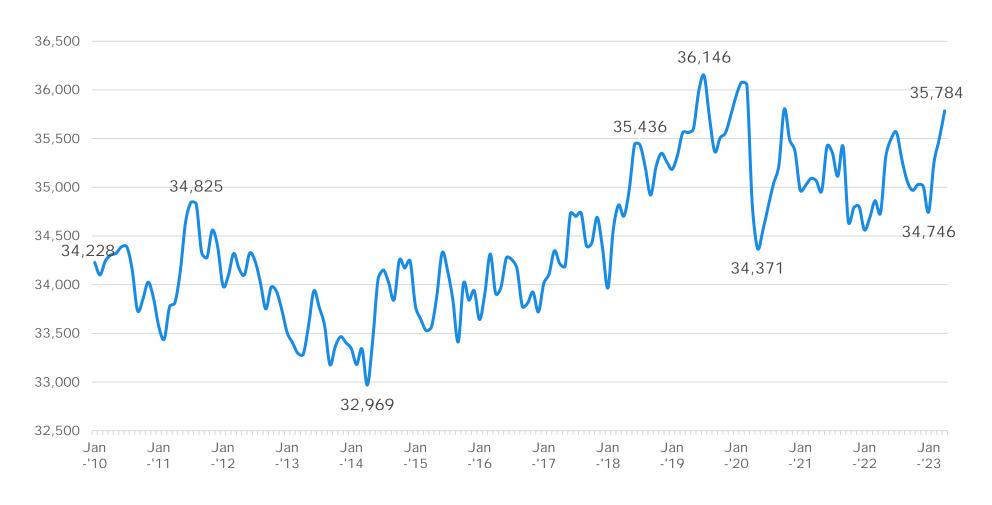
Population by race





Labor force

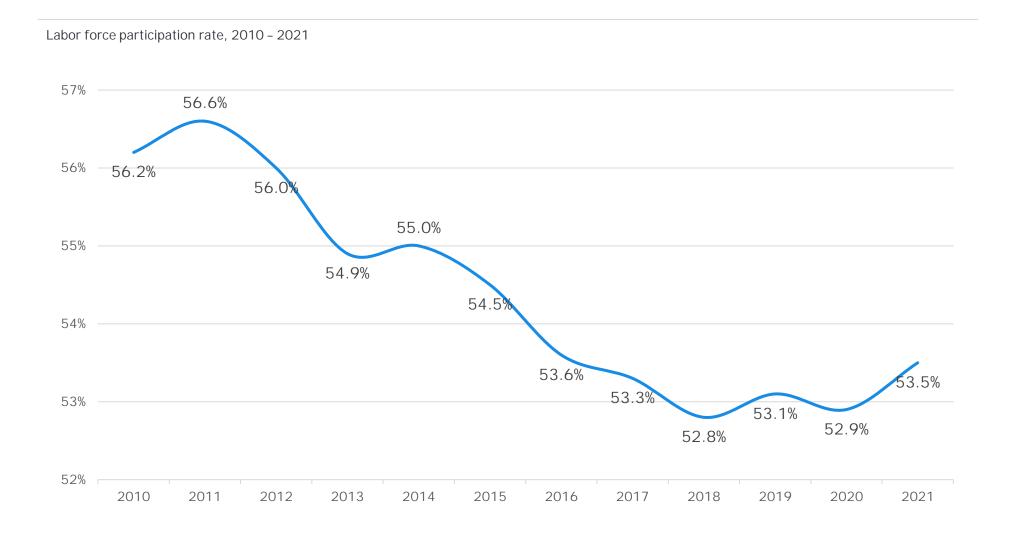




Source: US Bureau of Labor Statistics



Labor force

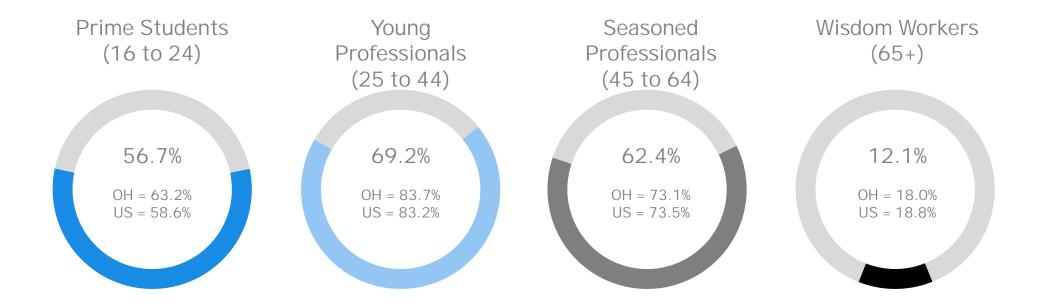






Labor force

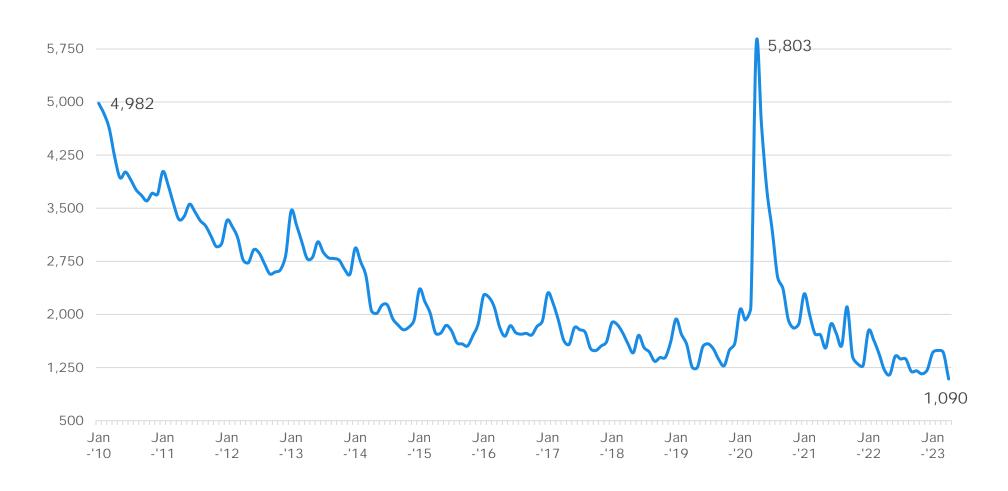
Labor force participation rate by age cohort (among residents 16 years and older) in Ross County, 2021





Unemployment

Monthly size of unemployed population (non-seasonally adjusted), January 2010 - April 2023

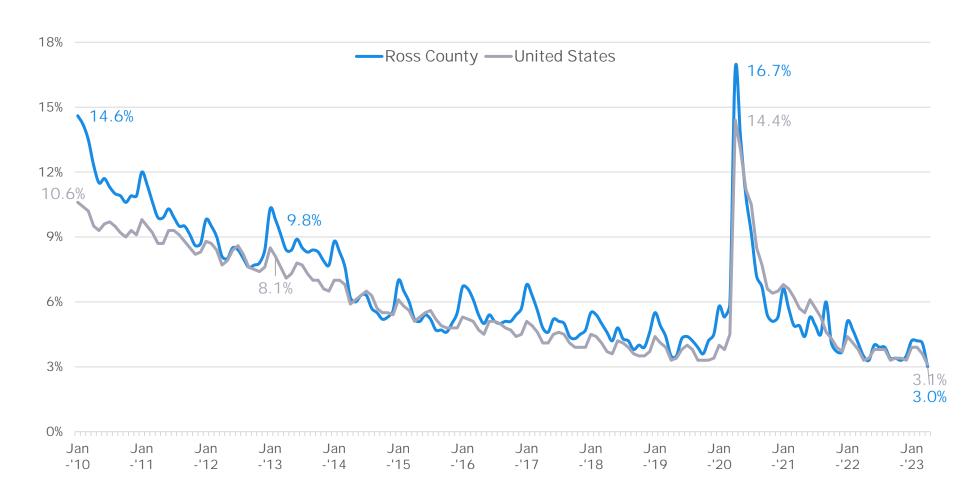


Source: US Bureau of Labor Statistics



Unemployment rate

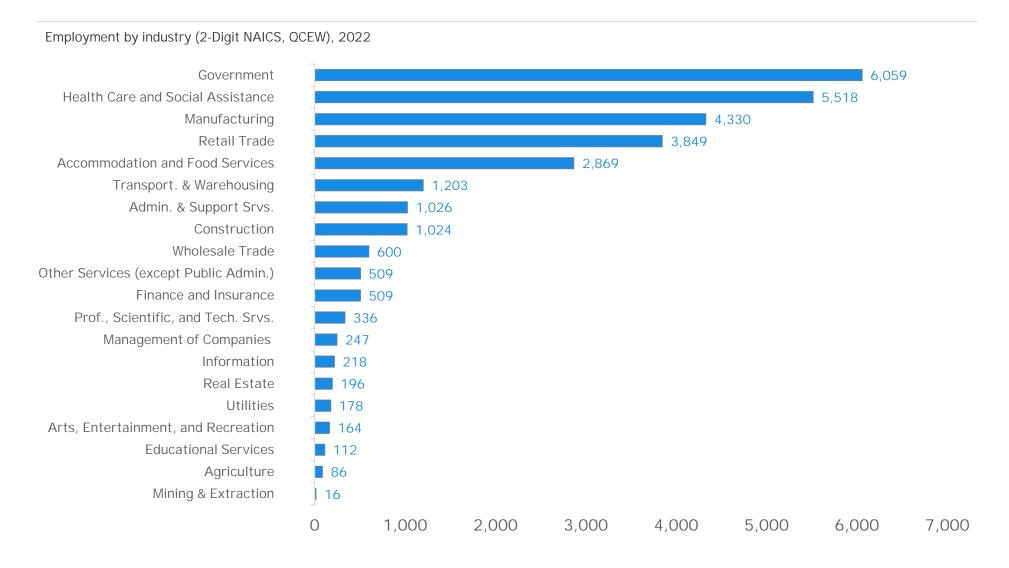
Monthly unemployment rate (non-seasonally adjusted), January 2010 - April 2023



Source: US Bureau of Labor Statistics

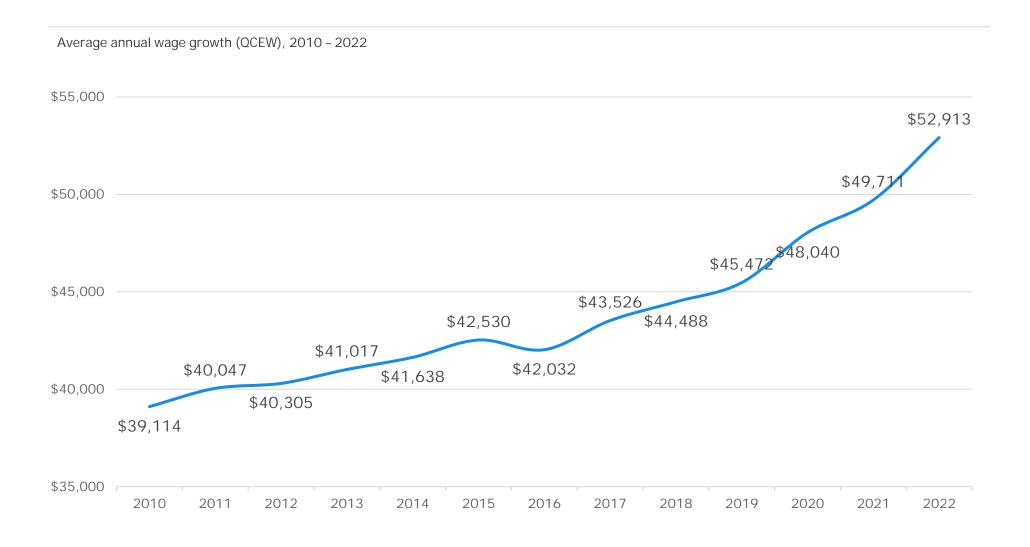


Employment by industry



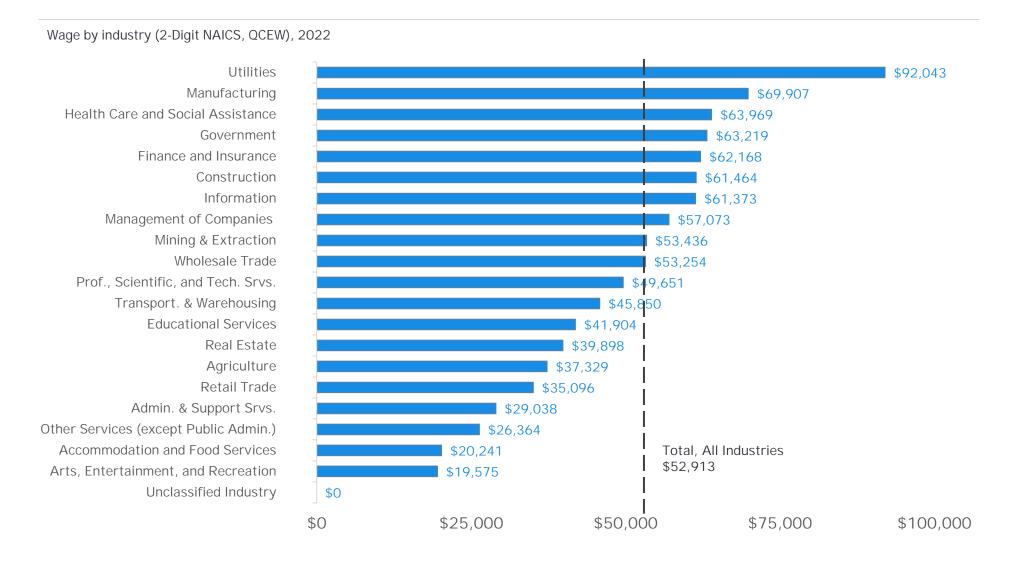


Average wage growth



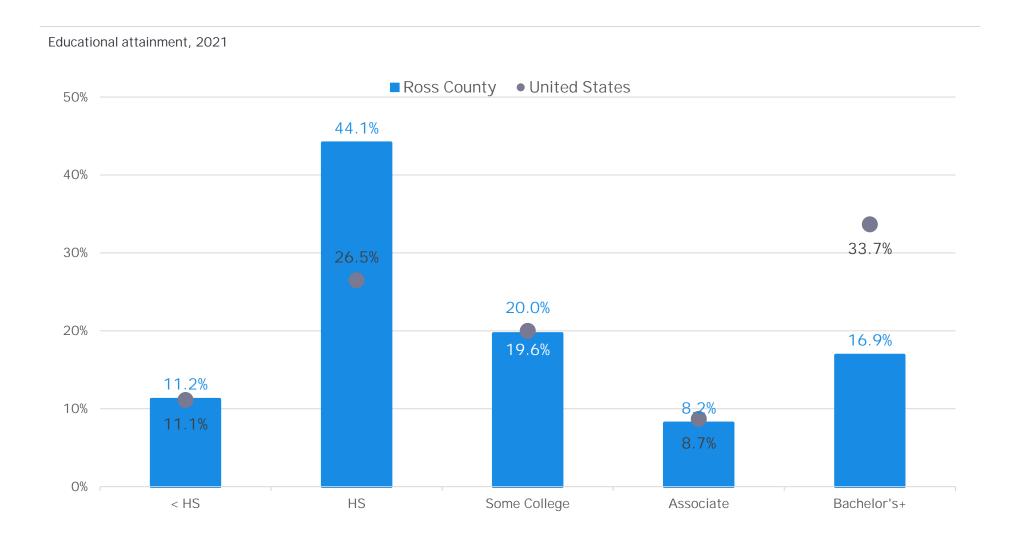


Wage by industry





Educational attainment





Educational attainment by age

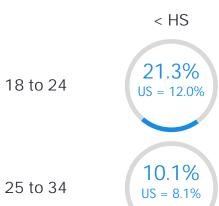
Educational attainment by age (among residents ages 18 years of age and older), 2021

HS

46.4%

US = 32.9%

37.5%







Associate



Bachelor's+



35 to 44

45 to 64

65 and older

Industry composition

Between 2017 and 2022, more than two thirds of industry clusters with a presence in Ross County experienced an increase in jobs. Consumer Products saw the greatest percentage growth among clusters, though from a low baseline, while Distribution & Logistics saw the largest net gain numerically in jobs, adding more than 425 during the five-year period. With a location quotient of 14.4, Automotive was the most concentrated cluster in 2022.

Ross County's industry cluster performance, 2017 - 2022

	Cluster	Employment (2022)	Employment	Location		Employment	Employment	Location	
			growth	quotient		Cluster	(2022)	growth	quotient
			(2017-2022)	(2022)		(2022)	(2017-2022)	(2022)	
	Healthcare	4,920	6.7%	1.5		Transportation	41	39.6%	0.2
	Automotive	2,923	11.6%	14.4		Electronics	31	100%*	0.1
	Distribution & Logistics	1,151	59.0%	1.4		Government, Excl. Ed & Health	4,088	-7.2%	1.8
	Consumer Products	165	941.4%	1.1		Industrial Products	607	-52.3%	1.4
	Back Office	1,212	8.6%	0.6		Retail	3,859	-4.6%	1.2
	Construction Svcs.	1,046	41.0%	0.7		Mining & Logging	48	-2.2%	1.1
	Wholesale Trade	639	26.8%	0.5		Hospitality	2,869	-5.1%	1.0
	Financial Svcs.	639	18.5%	0.4		Education	2,100	-4.1%	0.8
	Non-Profits & Social Srvc.	565	8.2%	0.6		Energy	145	-11.3%	0.6
	Personal Services	444	3.5%	0.6		Telecom Services	79	-57.6%	0.6
	Professional Services	297	7.5%	0.3		Entertainment	162	-7.9%	0.3
	Industrial Machinery	276	509.3%	0.9	a	Aerospace			
	Agribusiness & Food	235	138.9%	0.4	enc	Apparel & Textiles			
	Metalworking	151	26.2%	0.4	res	Furniture Mfg.			
	Creative Content	140	35.7%	0.3	0	Research			
	Biomedical R&D/Mfg	46	100%*	0.3	_	Shipbuilding			
	Software / Info. Tech.	41	100%*	0.1		Total	29,050	3.2%	1.0

Strong & Advancing

Weak but Advancing

Strong but Declining

Weak & Declining

Source: Lightcast *Employment was zero in 2017



Occupational composition

Between 2017 and 2022 slightly more than half of the occupational clusters in Ross County experienced growth. Logistics, Medical, and Business clusters posted the largest increase in net new jobs among clusters. Production, Business, Medical, Logistics, and Financial clusters saw the largest net decrease in jobs during the same period. Production occupations are the most concentrated in Ross County with a location quotient of 2.0 in 2022.

Ross County's occupational cluster performance, 2017 - 2022

		Employment (2022)	Employment	Location	on	Employment	Employment	Location
C	Cluster		growth	quotient Cluster	Cluster	(2022)	growth	quotient
		(2022)	(2017-2022)	(2022)		(2022)	(2017-2022)	(2022)
	Medical	4,468	6.1%	1.4	Hospitality	3,938	-9.9%	1.1
	Production	3,309	19.8%	2.0	Personal Services	2,648	-1.9%	1.0
	Logistics	2,888	9.6%	1.0	Social Service	1,698	-3.2%	1.2
	Back Office	3,312	1.0%	0.8	Education	1,685	-0.3%	1.0
	Construction	933	4.8%	0.8	Mechanics	1,238	-7.0%	1.1
	Business	840	44.5%	0.6	Plant Operators	98	-22.2%	1.2
	Financial	533	29.7%	0.6	Engineering	498	-10.0%	0.8
	Computer	383	10.0%	0.3	Agriculture	85	-32.1%	0.4
	Legal	126	12.3%	0.5	Math	24	-19.6%	0.4
	Design	111	34.6%	0.6	Political	23	-21.6%	0.9
	Sales & Marketing	93	42.3%	0.4	Geology	20	-28.6%	0.5
	Communications	70	36.3%	0.5	Architecture	12	-25.0%	0.3
	Performance	65	33.1%	0.6	Total	29,050	3.2%	1.0

Strong & Advancing

Weak but Advancing

Strong but Declining

Weak & Declining



Occupational composition of resident workers

Resident workers are individuals that live in the region but may work outside of the region. These occupational clusters reflect the types of jobs your residents work in, whether in or outside the region. In 2022, the top five occupational cluster in terms of total resident workers were Medical, Hospitality, Back Office, Logistics, and Production. With a 1.9 location quotient, Production occupations were the most concentrated cluster in 2022. Production, Logistics, Business, Medical, Business, and Financial saw the largest net gains in resident workers between 2017 and 2022.

Ross County's occupational cluster performance for resident workers

	Resident	Resident worker	Location		Resident F	Resident worker	Location
Cluster	workers	growth	quotient	Cluster	workers	growth	quotient
	(2022)	(2017-2022)	(2022)		(2022)	(2017-2022)	(2022)
Medical	4,010	3.2%	1.3	Education	1,666	-1.7%	1.0
Logistics	3,283	9.8%	1.1	Social Service	1,565	-1.8%	1.1
Production	3,216	12.9%	1.9	Mechanics	1,165	-6.0%	1.0
Construction	1,102	2.5%	0.9	Plant Operators	108	-11.3%	1.4
Business	910	43.3%	0.7	Back Office	3,302	-2.4%	0.8
Computer	474	6.9%	0.4	Engineering	513	-11.1%	0.9
Financial	472	13.8%	0.5	Communications	57	-9.9%	0.4
Agriculture	130	9.5%	0.6	Performance	47	-16.9%	0.4
Sales & Marketing	116	26.2%	0.5	Geology	24	-25.0%	0.6
Design	115	20.9%	0.6	Math	24	-23.2%	0.4
Legal	112	7.6%	0.5	Political	19	-21.2%	0.8
Hospitality	3,800	-12.2%	1.1	Architecture	12	-25.0%	0.3
Personal Services	2,600	-5.8%	1.0	Total	28,725	1.3%	1.0

Strong & Advancing

Weak but Advancing

Strong but Declining

Weak & Declining

Inflow/outflow analysis

Ross County both imports and exports talent, with flows close to even in 2020 and a net out-commute of 620 that is the lowest among Area 20 counties. Of the 26,265 employed individuals residing in the county, approximately 50% are employed outside of the county. At the same time, approximately 49% of workers employed in the county live elsewhere outside of the county.

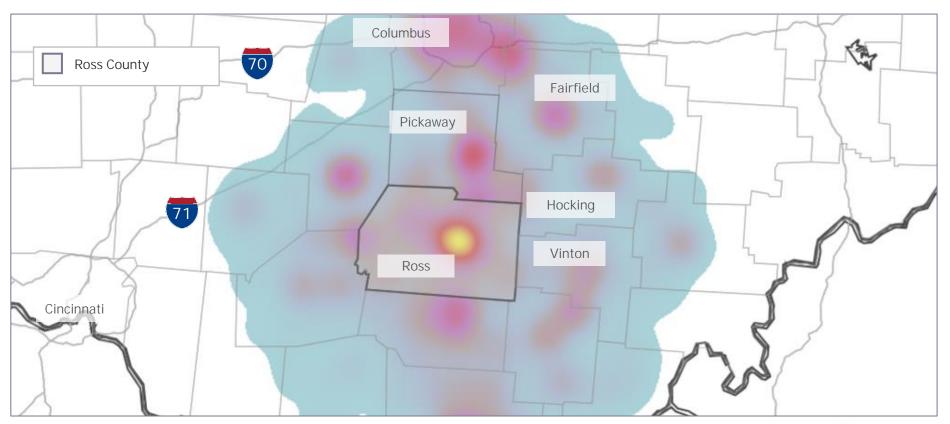
Ross County workforce inflow/outflow dynamics, 2020 Employed in county, Live in county, employed live outside outside 12,560 13,180 Live and work in county 13,085 Total employment in Total employed workers living in county county 25,645 26,265 49.0% 50.2% Source: US Census Bureau



Ross County worker origin

The map below shows the origins of workers for the Ross County. The area shown below accounts for approximately 82% of the labor shed for the county and reflects approximately 21,130 workers.

Ross County worker origin, 2020

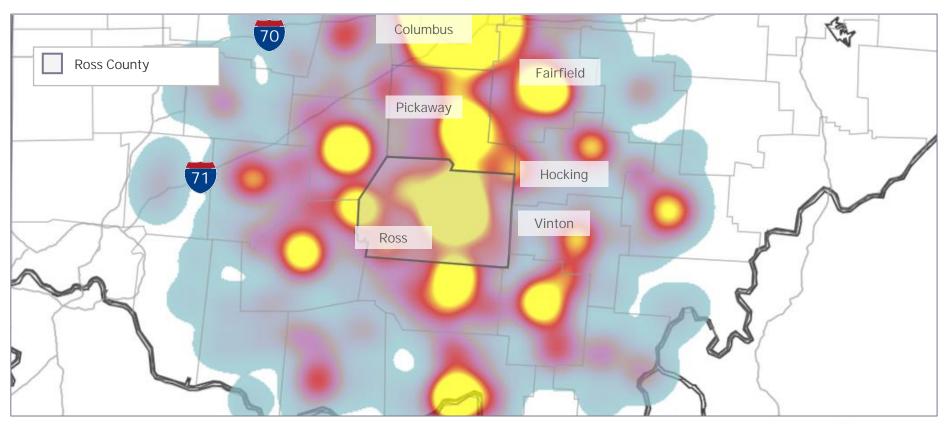




Ross County's resident worker destinations

The map below shows the work destinations of resident workers in Ross County. The area shown below accounts for nearly 20,800 resident workers, or approximately 79% of the county's resident workforce. Highway 23 acts as a main artery for resident workers commuting out of the county for work.

Ross County's resident worker destinations, 2020

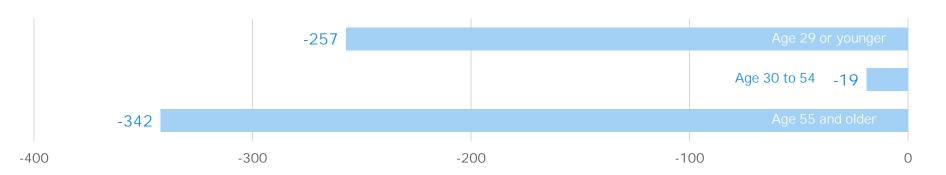




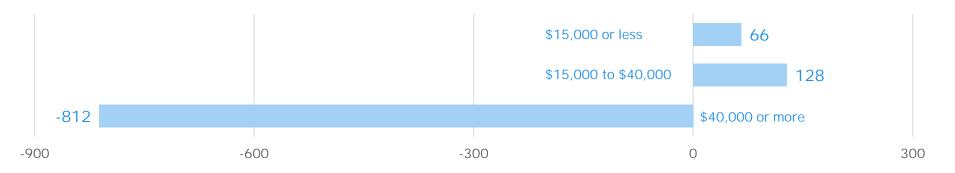
Inflow/outflow of workers by age and earnings

Ross County exported talent at every age bracket in 2020. Prime working age residents, ages 30 to 54, commuted out in much smaller numbers compared to the other age cohorts. Workers earning \$40,000 or more commuted out of the county while those workers earning less than \$40,000 annually were imported into Ross County in 2020.





Net inflow/outflow of workers into Ross County by earnings, 2020

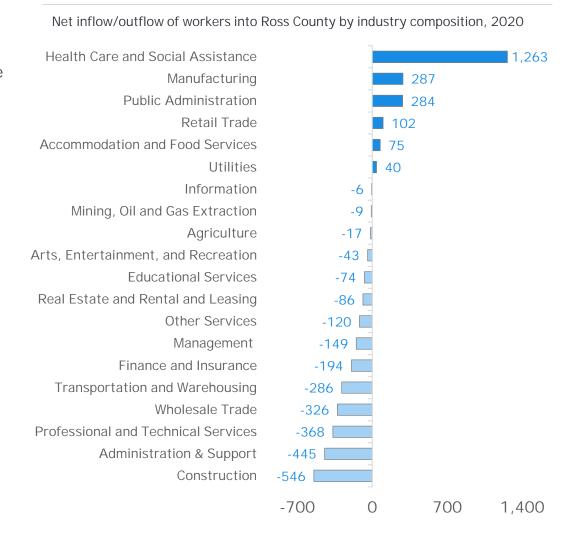




Net inflow of workers by industry

Ross County is a net exporter of talent across most industries. There are just six industries in which employment within the county exceeds the number of resident workers. These industries include Health Care and Social Assistance, Manufacturing, Public Administration, Retail, Accommodation & Food Services, and Utilities.

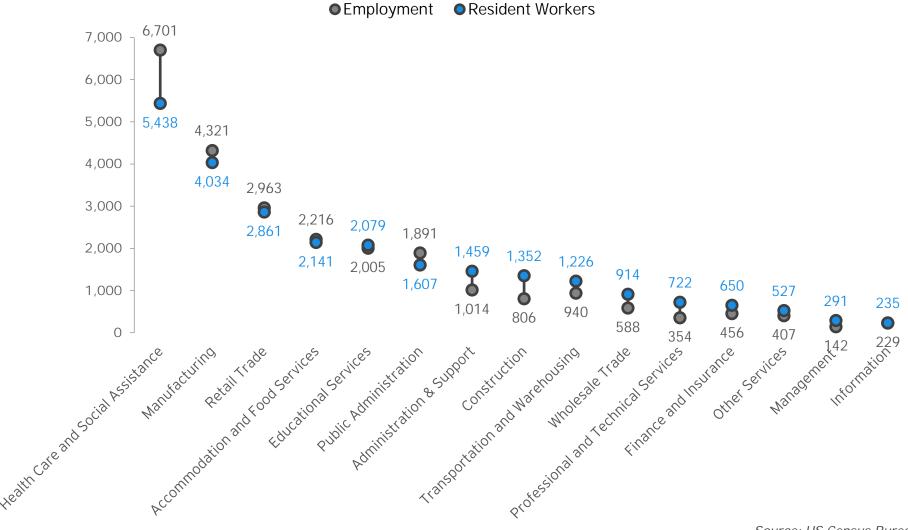
In all other sectors, the number of Ross County resident workers exceeds jobs. For example, Ross County is home to approximately 550 more workers employed in Construction compared to the total number of industry jobs located within in the county. Other major industries in which the county is an exporter of talent include Administration & Support, Professional and Technical Services, Wholesale Trade, and Transportation & Warehousing.





Industry composition by worker origin

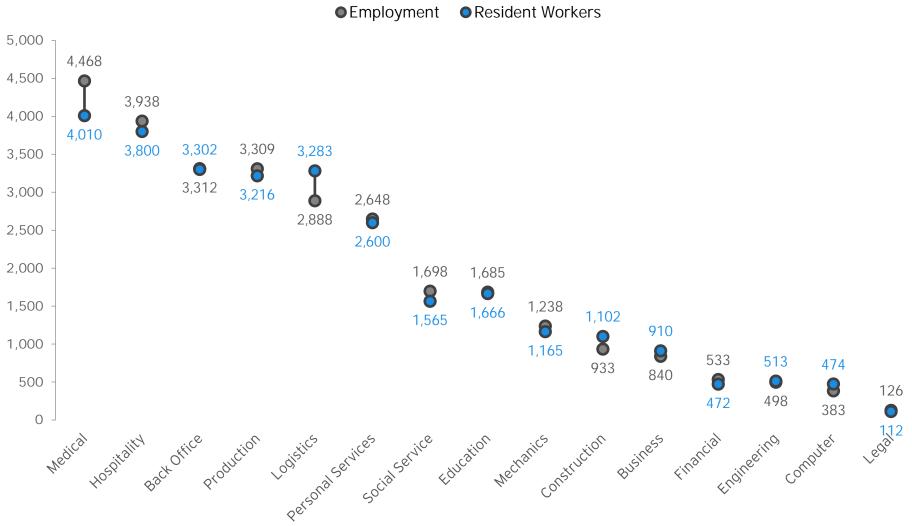
Ross County's employment versus resident workers for top 15 industry clusters, 2020





Occupation composition by worker origin

Ross County's employment versus resident workers for top 15 occupational clusters, 2022





Forecasted growth in industry composition

In the table below, we examine possible employment forecasts for industry clusters in Ross County. The top five clusters forecasted to add the most net new jobs over the next ten years are Automotive, Distribution & Logistics, Construction Services, Hospitality, and Healthcare. Overall, the county is forecasted to add approximately 1,415 jobs over the next decade, growing by nearly 5%.

Ross County's industry cluster forecasted growth

Cluster	Employment (2022)	Forecasted Employment (2024)	Forecasted Employment (2032)	Cluster	Employment (2022)	Forecasted Employment (2024)	Forecasted Employment (2032)
Aerospace				Healthcare	4,920	4,989	5,128
Agribusiness & Food	235	272	323	Hospitality	2,869	2,951	3,080
Apparel & Textiles				Industrial Machinery	276	353	482
Automotive	2,923	3,095	3,208	Industrial Products	607	514	353
Back Office	1,212	1,255	1,269	Metalworking	151	154	175
Biomedical R&D/Mfg	46	60	85	Mining & Logging	48	49	50
Construction Svcs.	1,046	1,130	1,257	Non-Profits & Social Service	565	605	707
Consumer Products	165	208	285	Personal Services	444	449	460
Creative Content	140	175	241	Professional Services	297	303	310
Distribution & Logistics	1,151	1,246	1,363	Research			
Education	2,100	2,097	2,090	Retail	3,859	3,864	3,781
Electronics	31	41	60	Shipbuilding			
Energy	145	143	131	Software / Info. Tech.	41	51	69
Entertainment	162	173	192	Telecom Services	79	56	16
Financial Svcs.	639	666	705	Transportation	41	44	51
Furniture Mfg.				Wholesale Trade	639	684	776
Government	4,088	3,969	3,723	Total	29,050	29,724	30,465



Forecasted growth in occupational composition

In the table below, we examine possible employment forecasts for occupational clusters at the county level. Logistics, Hospitality, Production, Medical, and Business are forecasted to experience the largest net new jobs created in Ross County over the next decade. Social Service and Plant Operators clusters are forecasted to experience declines over the next ten years.

Ross County's occupational cluster forecasted growth

Cluster	Employment (2022)	Forecasted Employment (2024)	Forecasted Employment (2032)	Cluster	Employment (2022)	Forecasted Employment (2024)	Forecasted Employment (2032)
Agriculture	85	86	90	Legal	126	126	129
Architecture	12	12	12	Logistics	2,888	3,009	3,151
Back Office	3,312	3,351	3,336	Math	24	24	32
Business	840	884	967	Mechanics	1,238	1,271	1,302
Communications	70	75	95	Medical	4,468	4,517	4,637
Computer	383	393	417	Performance	65	74	94
Construction	933	980	1,054	Personal Services	2,648	2,672	2,652
Design	111	115	143	Plant Operators	98	96	91
Education	1,685	1,694	1,695	Political	23	22	22
Engineering	498	519	541	Production	3,309	3,437	3,533
Financial	533	552	581	Sales & Marketing	93	98	100
Geology	20	20	20	Social Service	1,698	1,695	1,676
Hospitality	3,938	4,032	4,175	Total	29,050	29,724	30,465



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