CHISAGO COUNTY LABOR FORCE ANALYSIS

December 2021



OVERVIEW

Chisago County HRA-EDA engaged C&W to develop an assessment of the County's labor force focused on supporting the County's drive to expand manufacturing, warehousing and supply chain businesses.

Approach

- Identified the primary industries operating in Chisago County in the areas of manufacturing, supply chain and warehousing
- Identified the top occupations for employment in Chisago County focused in areas of manufacturing, supply chain and warehousing
- Assessed and compared the volume, concentration, job growth and for these industries and occupations
- Developed groups of target industries and occupations for more detailed analysis
- Assessed the commuting patterns into and out of Chisago County for workers within the target occupations

TARGET AREAS:

- MANUFACTURING
- WAREHOUSING
- SUPPLY CHAIN

CHISAGO COUNTY LABOR MARKET OVERVIEW

CHISAGO COUNTY PROFILE

SELECTED TOP INDUSTRIES

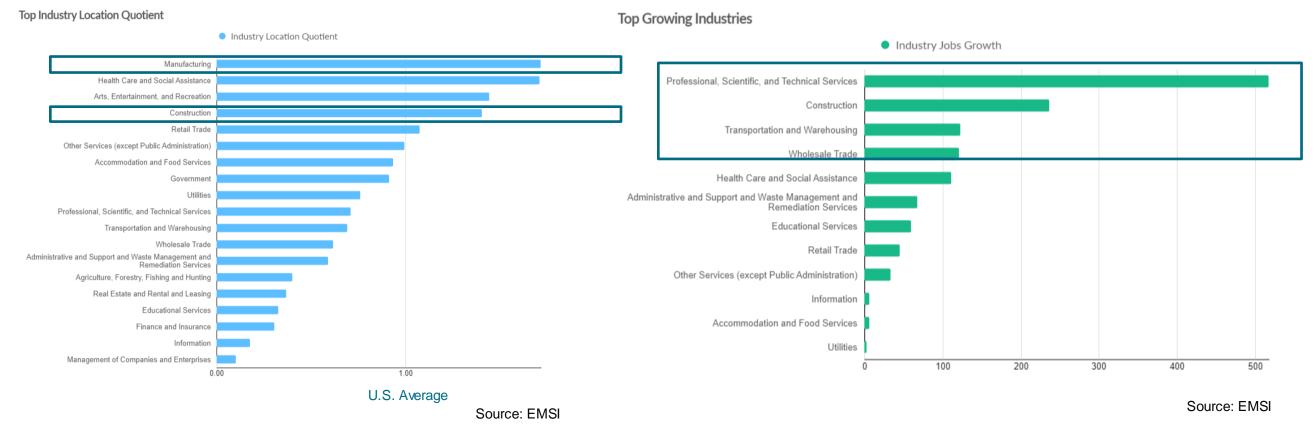
- Chisago County has a critical mass of industries aligned to manufacturing, warehouse and supply chain/ distribution
- Current employers in these industries includes: Rosenbauer Minnesota, Polaris Industries, Plastech Corporation, Royal Concrete, Andersen Windows, Smith Metal Products, Branch Manufacturing and Viking Coca-Cola.
- Over the next 5 years, many of these industries are projected to experience double-digit growth within the County

Selected Top Industries Related to Manufacturing, Supply Chain & Warehousing (Jobs, LQ, Projected Growth)

Industry	Jobs	Location Quotient	5 Yr Projected Growth		
Heavy Duty Truck Manufacturing	530	140.67	25%		
All Other Plastics Product Manufacturing	482	14.95	(12%)		
Engineering Services	374	3.16	30%		
Footwear Manufacturing	244	196.83	12%		
Highway, Street, and Bridge Construction	238	5.88	21%		
Site Preparation Contractors	209	3.45	10%		
Electronic Shopping and Mail-Order Houses	206	3.47	1%		
Machine Shops	192	6.37	4%		
Finish Carpentry Contractors	177	5.99	31%		
Residential Remodelers	140	1.80	13%		
Testing Laboratories	137	6.98	25%		
All Other Specialty Trade Contractors	132	2.21	(14%)		
Couriers and Express Delivery Services	121	1.21	16%		
School and Employee Bus Transportation	119	6.69	101%		
Concrete Pipe Manufacturing	115	122.98	16%		
Plumbing, Heating, and Air-Conditioning Contractors	101	0.71	(13%)		
Electrical Contractors and Other Wiring Installation Contractors	92	0.77	8%		
Showcase, Partition, Shelving, and Locker Manufacturing	89	20.42	4%		
Sheet Metal Work Manufacturing	87	6.96	1%		
Beer and Ale Merchant Wholesalers	86	6.83	25%		

Location Quotient is the level of specialization for the targeted skillset compared to the U.S. average (1.00). Higher values indicate a greater level of specialization and competition compared to the US average.

CHISAGO COUNTY LABOR MARKET OVERVIEW - INDUSTRIES



Industry Specialization

- Chisago County is substantially more specialized for manufacturing and construction industries compared to the US average (LQ = 1.00 above) and to the State of Minnesota
- LQ for Manufacturing: Chisago County 1.72, State of Minnesota 1.33
- LQ for Construction: Chisago County 1.41, State of Minnesota 0.87

Industry Growth

- Over the past five years, the top growing industry segments include:
 - Professional, scientific and technical services (+155% in Chisago County vs. 6% in State of Minnesota)
 - Construction (+20% in Chisago County vs. 7% in State of Minnesota)
 - Transportation and Warehousing (+33% in Chisago County vs. 5% in State of Minnesota)
 - Wholesale Trade (+44% in Chisago County, vs. -6% in State of Minnesota)

CHISAGO COUNTY LABOR MARKET OVERVIEW - OCCUPATIONS

CHISAGO COUNTY PROFILE

SELECTED TOP OCCUPATIONS

- Chisago County's workforce is highly specialized for manufacturing and engineering jobs
- Over the next 5 years, occupations related to manufacturing and engineering are growing

Selected Top Occupations Related to Manufacturing, Supply Chain & Warehousing (Jobs, LQ, Projected Growth)

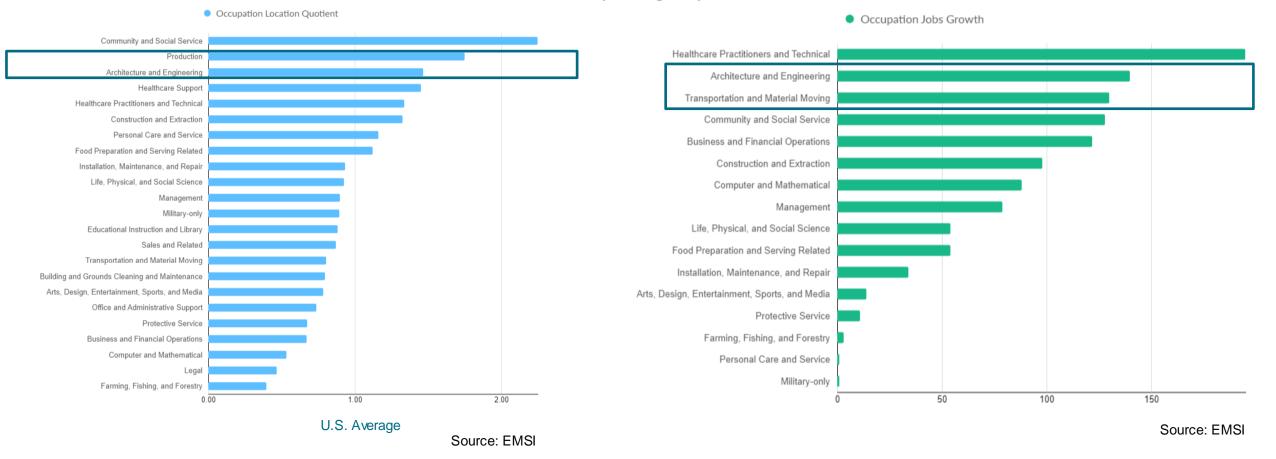
509 255 223 220 219 212 212	3.55 0.75 0.68 0.79 0.93	9% 4% 6% 10%
223 220 219 212	0.68 0.79	6%
220 219 212	0.79	
219 212		10%
212	0.93	
		2%
040	1.77	8%
212	1.35	7%
211	0.63	16%
169	0.66	9%
139	0.78	10%
121	2.55	7%
119	0.71	5%
115	1.35	12%
106	210.59	8%
104	2.51	7%
87	0.75	13%
86	2.36	26%
84	1.23	6%
84	1.58	6%
78	2.34	14%
76	1.21	3%
76	0.98	6%
70	0.84	4%
	139 121 119 115 106 104 87 86 84 84 78 76 76	1390.781212.551190.711151.35106210.591042.51870.75862.36841.23841.58782.34761.21760.98

indicate a greater level of specialization and competition compared to the US average.

CHISAGO COUNTY LABOR MARKET OVERVIEW OCCUPATIONS

Top Occupation Location Quotient

Top Growing Occupations



Occupation Specialization

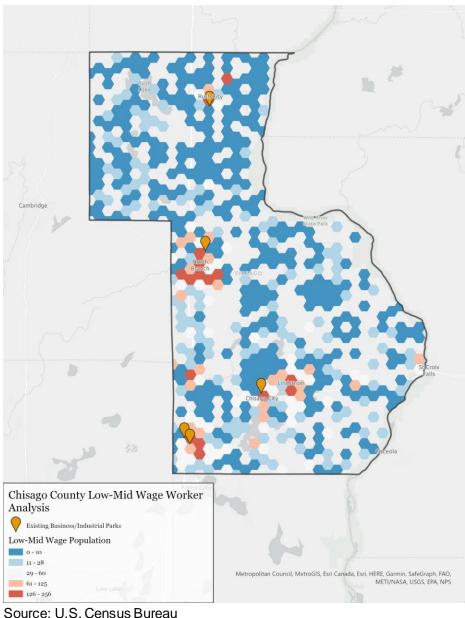
- Chisago County is substantially more specialized for Production and Architecture/ Engineering compared to the US average (1.00 above) and the State of Minnesota
- LQ for Production: Chisago County 1.72, State of Minnesota 1.22
- LQ for Architecture & Engineering: Chisago County 1.41, State of Minnesota 1.11

Occupation Growth

- Over the past five years, some of the strongest growing occupations include:
 - Architectural and Engineering: 48% in Chisago County vs. 1% State of Minnesota
 - Transportation and Material Moving: 12% in Chisago County vs. 3% State of Minnesota

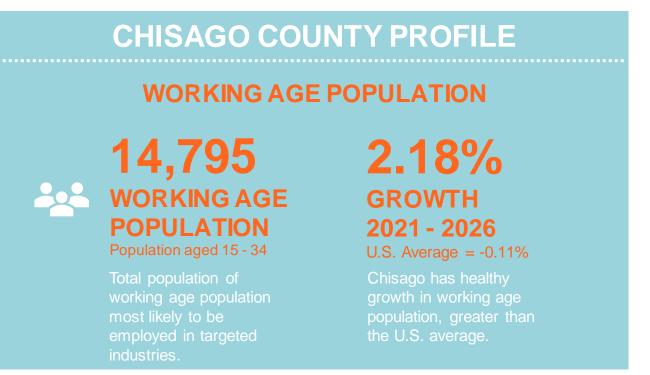
CHISAGO COUNTY DEMOGRAPHIC OVERVIEW

Low-Mid Wage Resident Population



Demographic Overview

- The primary workforce for the targeted industries and occupations in Chisago County is between the ages of 15 – 34
- Along with age, the workforce labor pool also includes residents earning less than \$3,333 a month, defined as "Low-Mid wage" residents



Source: ESRI

TARGET INDUSTRY PROFILES

TARGET INDUSTRY PROFILES

To understand the strengths of Chisago County's labor pool C&W identified target industries where continued growth equating to jobs and industrial demand should be prioritized.

Approach

- Identified the primary industries operating in Chisago County and the surrounding areas¹ in the areas of manufacturing, supply chain and warehousing.
- Assessed and compared the volume, concentration, job growth and average earnings for these industries in Chisago County to other counties in the surrounding area.
- Categorized the industries into groups with similar process, material and skillset requirements.
- Each of these target industry groups was analyzed to develop a target job skills profile, the total volume of jobs, the concentration and the top companies hiring within the industry type.

Job Skills

- For each targeted industry, C&W created a target job skills profile to reflect the key skillsets required for jobs in each of the target industries.
- Defining key job profiles will allow for analysis of the regional labor pool's ability to support long-term industry growth.

TARGET INDUSTRIES:

- HEAVY MANUFACTURING
- PRODUCT MANUFACTURING
- SUPPLY CHAIN

Notes:

- For the purposes of this report, the surrounding areas were categorized into a Regional group. This Regional Group includes the 15 counties in the Minneapolis-St. Paul MSA, plus 4 additional neighboring counties to Chisago County. They are:
 - Minnesota Counties: Anoka, Carver, Chisago, Dakota, Hennepin, Isanti, Kanabec, Le Sueur, Mille Lacs, Pine County, Ramsey, Scott, Sherburne, Washington, Wright
 - Wisconsin Counties: Burnett, Pierce, Polk, St. Croix

HEAVY MANUFACTURING

Chisago County has a strong base of Heavy Manufacturing is which has been growing over the past five years. Heavy trucks, sheet metal, and other related manufacturing is a particular strength.

Industries Comprising Heavy Manufacturing (6-digit NAICS):

•	Heavy	Duty	Truck	Manufacturing	(336120)

Machine Shops (332710)

• Sheet Metal Manufacturing (332322)

- Showcase, Partition, Shelving and Locker Manufacturing (337215)
- Mechanical Power Transmission Equipment Manufacturing (333613)

Motor and Generator Manufacturing (335312)

• Bolt, Nut, Screw, Rivet, and Washer Manufacturing (332722)

Target Job Skills Profile for Heavy Manufacturing

Miscellaneous Assemblers and Fabricators	51-2098
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4081
Industrial Engineers	17-2112
First-Line Supervisors of Production and Operating Workers	51-1011
Laborers and Freight, Stock, and Material Movers, Hand	53-7062
Machinists	51-4041
Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	51-9124
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	51-4031
Computer Numerically Controlled Tool Operators	51-9161

Source: C&W Methodology and Emsi

CHISAGO COUNTY PROFILE

JOBS IN THE HEAVY MANUFACTURING INDUSTRY



in Heavy Manufacturing (2021)

Total jobs in the industry have grown 80% over the past 5 years compared to a 2% decline nationally

16.80 CONCENTRATION U.S. Average = 1.00

Chisago is specialized in the heavy manufacturing industry

TARGET SKILLS IN THE WORKFORCE

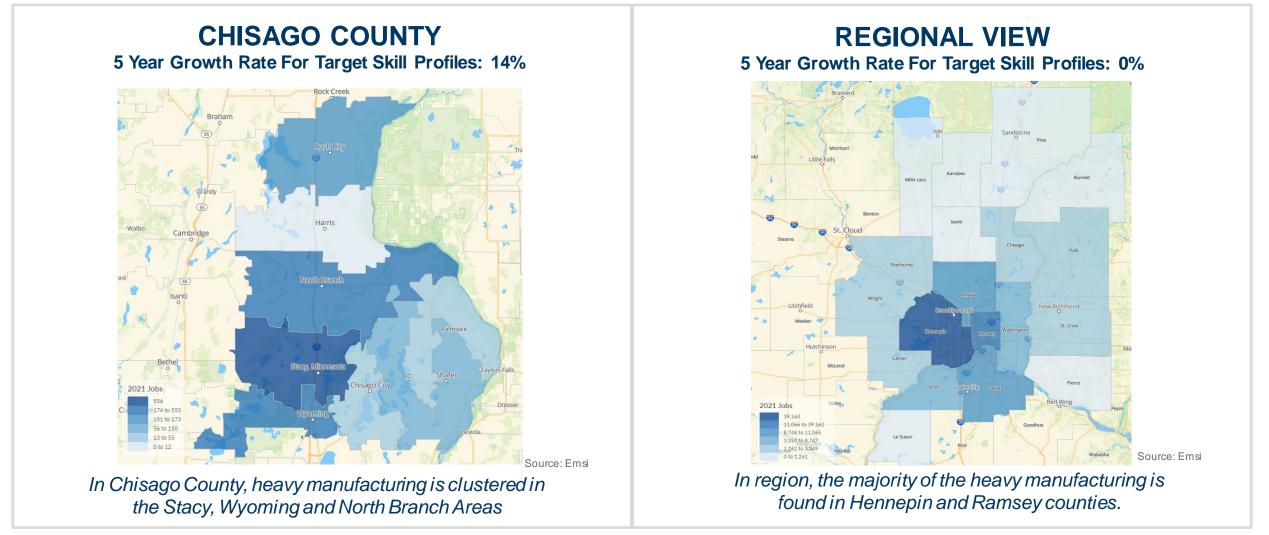
1,262 TOTAL JOBS With Skill Profiles Aligned with Heavy Manufacturing (2021)

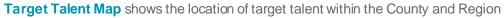
Total jobs with the target skills profile are projected to grow 9% over the next 5 years **1.70 CONCENTRATION** U.S. Average = 1.00

Chisago is specialized with target skills for the heavy manufacturing industry

HEAVY MANUFACTURING - JOB SKILL PROFILES

The following represent companies actively hiring target skillsets for Heavy Manufacturing Companies, and their largest market concentrations. The list was developed based on job postings for target skillsets as well as top companies in the industry.





The most active companies in the Region hiring talent with skillsets aligned for Heavy Manufacturing are Amazon, FedEx, Boston Scientific, UPS, and Medtronic.

PRODUCT MANUFACTURING

The Product Manufacturing Industry in Chisago County is driven by manufacturing of footwear, concrete pipes, stationary products and plastic products.

Industries Comprising Product Manufacturing (6-digit NAICS):

All Other Plastics Manufacturing (326199)

- Concrete Pipe Manufacturing (327332)
- Footwear Manufacturing (316210)
- Stationery Product Manufacturing (322230)
- Other Animal Food Manufacturing (311119)

Target Job	Skills Profile	for Product	Manufacturing
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Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	51-4072
Miscellaneous Assemblers and Fabricators	51-2098
Crushing, Grinding, and Polishing Machine Setters, Operators and Tenders	51-9021
Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061
First-Line Supervisors of Production and Operating Workers	51-1011
Industrial Engineers	17-2112
Shoe Machine Operators and Tenders	51-6042
Paper Goods Machine Setters, Operators, and Tenders	51-9196
Laborers and Freight, Stock, and Material Movers, Hand	53-7062
HelpersProduction Workers	51-9198

Source: C&W Methodology and Emsi

CHISAGO COUNTY PROFILE

JOBS IN THE PRODUCT MANUFACTURING INDUSTRY

902 TOTAL JOBS in Product Manufacturing (2021)

23.30 CONCENTRATION U.S. Average = 1.00

Total jobs in the industry have grown 27% over the past 5 years compared to a 3% decline nationally

Chisago is specialized in the product manufacturing industry

TARGET SKILLS IN THE WORKFORCE

1,160 TOTAL JOBS With Skill Profiles Aligned with Product Manufacturing (2021)

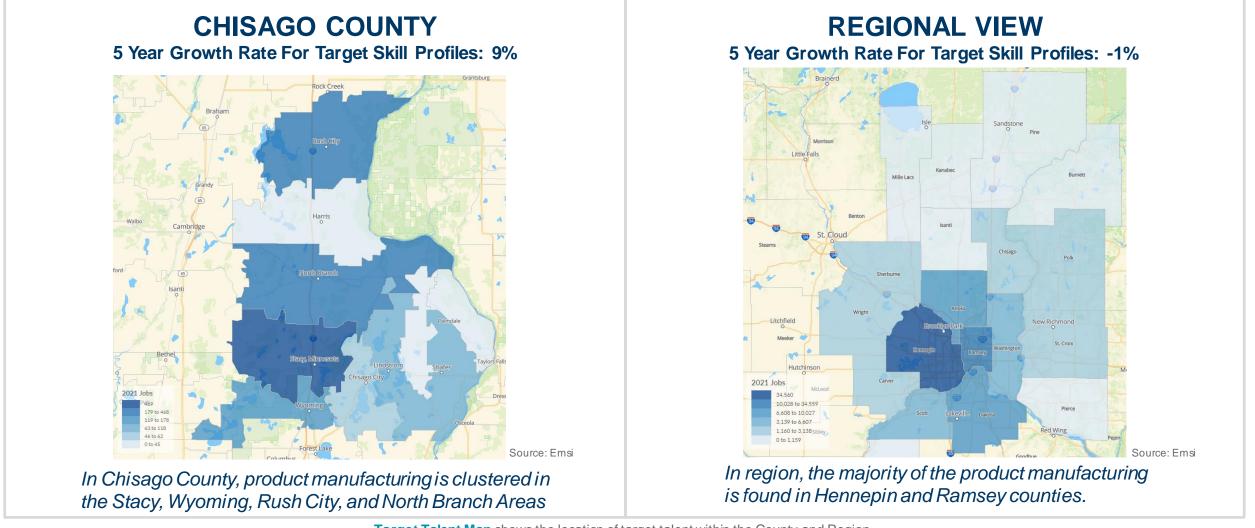
> Total jobs with the target skills profile are projected to grow 9% over the next 5 years

1.67 CONCENTRATION U.S. Average = 1.00

Chisago is specialized with target skills for the product manufacturing industry

PRODUCT MANUFACTURING – JOB SKILL PROFILES

The following represent companies actively hiring target skillsets for Product Manufacturing Companies, and their largest market concentrations. The list was developed based on job postings for target skillsets as well as top companies in the industry.



Target Talent Map shows the location of target talent within the County and Region.

The most active companies in the Region hiring talent with skillsets aligned for Product Manufacturing are Amazon, FedEx, Boston Scientific, UPS, and Medtronic.

SUPPLY CHAIN

Chisago County has a small, but growing, presence of supply chain industry and labor.

CHISAGO COUNTY PROFILE

JOBS IN THE SUPPLY CHAIN INDUSTRY

	Industries Comprising Supply Chain (6-digit NAICS):								
-	Rail Transportation (482110)								
•	• General Freight Trucking, Long Distance, Less than Truckload (484122)	Couriers and Express Delivery Services (492110)							
•	• General Freight Trucking, Long Distance, Truckload (484121)	Electronic Shopping and Mail Order Houses (454110)							

Target Job Skills Profile for Supply Chain

Laborers and Freight, Stock, and Material Movers, Hand	53-7062
Light Truck Drivers	53-3033
Heavy and Tractor-Trailer Truck Drivers	53-3032
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	53-1047
Shipping, Receiving, and Inventory Clerks	43-5071
Stockers and Order Fillers	53-7065
Order Clerks	43-4151
Packers and Packagers, Hand	53-7064
General and Operations Managers	11-1021
Industrial Truck and Tractor Operators	53-7051

Source: C&W Methodology and Emsi

460 TOTAL JOBS

in Supply Chain (2021)

Total jobs in the industry have grown 45% over the past 5 years compared to 18% nationally

1.85 CONCENTRATION U.S. Average = 1.00

Chisago is not specialized for the supply chain industry

TARGET SKILLS IN THE WORKFORCE

1,118 TOTAL JOBS With Skill Profiles Aligned with Supply Chain (2021)

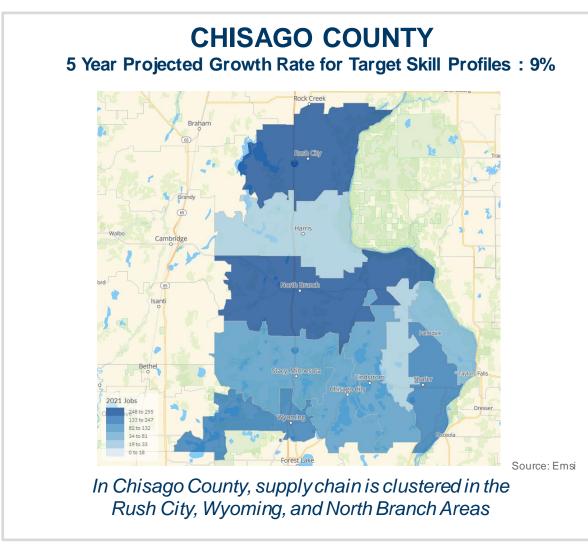
> Total jobs with the target skills profile are projected to grow 9% over the next 5 years

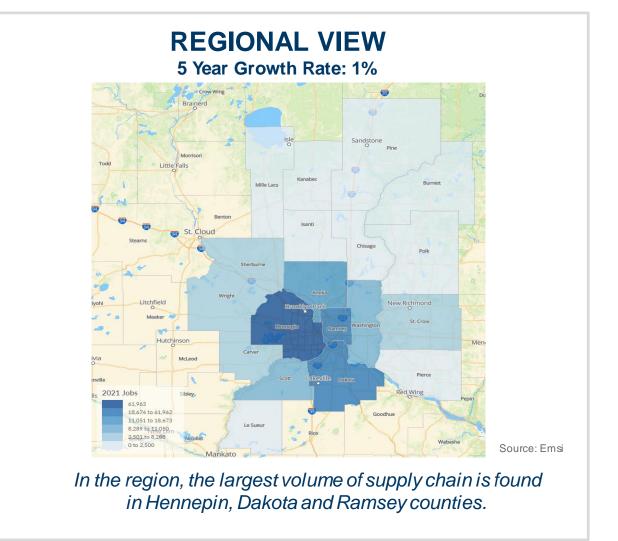
0.73 CONCENTRATION U.S. Average = 1.00

Chisago is specialized with target skills for the Supply Chain industry

SUPPLY CHAIN - JOB SKILL PROFILES

The following represent companies actively hiring target skillsets for Supply Chain Companies, and their largest market concentrations. The list was developed based on job postings for target skillsets as well as top companies in the industry.





Target Talent Map shows the location of target talent within the County and Region.

The most active companies in the Region hiring talent with skillsets aligned for Supply Chain are Roehl Transportation, Amazon, US Xpress, C.R. England and Door Dash.

Chisago County's workforce is aligned with the target skills for the warehousing jobs. Many of the manufacturing and supply chain industry segment include warehousing-type positions.

Target Job Skills Profile for Warehousing	
Stockers and Order Fillers	53-7065
Laborers and Freight, Stock, and Material Movers, Hand	53-7062
Industrial Truck and Tractor Operators	53-7051
Heavy and Tractor-Trailer Truck Drivers	53-3032
Packers and Packagers, Hand	53-7064
Shipping, Receiving, and Inventory Clerks	43-5071
First-Line Supervisors of Transportation and Material Moving Workers, Except Air Cargo Handling Supervisors	craft 53-1047
Maintenance and Repair Workers, General	49-9071
Transportation, Storage, and Distribution Managers	11-3071
Light Truck Drivers	53-3033
Production, Planning, and Expediting Clerks	43-5061

CHISAGO COUNTY PROFILE

TARGET SKILLS IN THE WORKFORCE

1,043 TOTAL JOBS With Skill Profiles Aligned with Warehousing (2021)

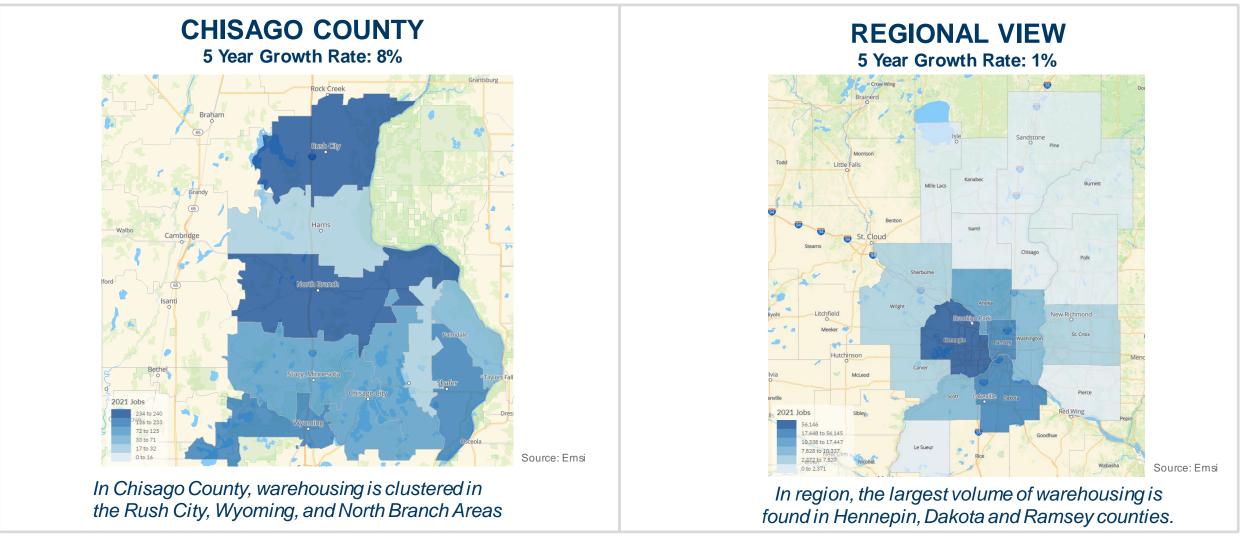
> Total jobs with the target skills profile are projected to grow 8% over the next 5 years

0.73 CONCENTRATION U.S. Average = 1.00

Chisago is less specialized for Warehousing jobs, but has a substantial workforce with these types of skills.

WAREHOUSING - JOB SKILL PROFILES

The following represent companies actively hiring the target skillsets for Warehousing Companies, and their largest market concentrations. The list was developed based on job postings for target skillsets as well as top companies in the industry.



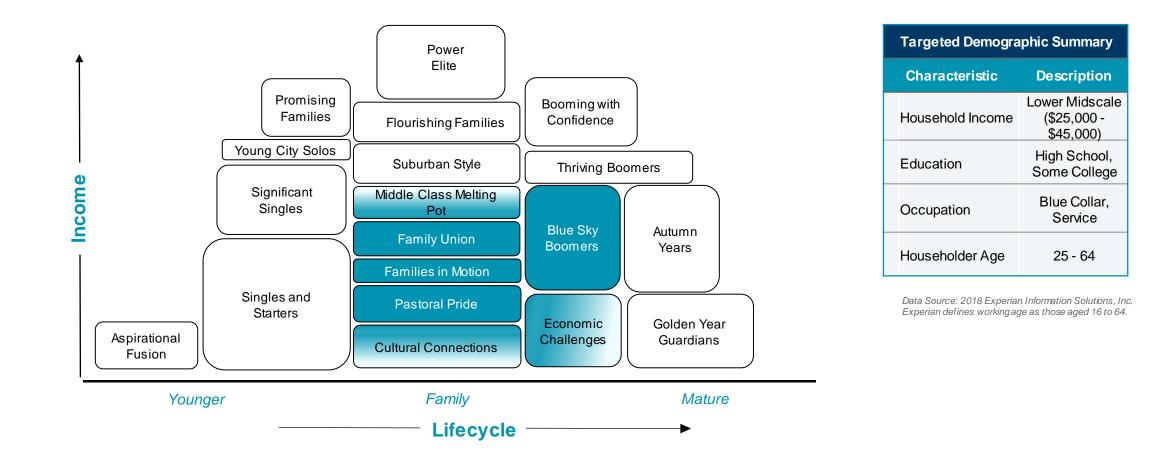


The most active companies in the Region hiring talent with skillsets aligned for Warehousing are Roehl Transportation, Amazon, US Xpress, C.R. England and Door Dash.

TRAINABLE LABOR POOL – TARGET DEMOGRPAHICS

Targeted Demographics of the Civilian Labor Force, Ages 16+

The following target segments (highlighted in teal) represent the civilian population (ages 16+) that exhibit traits of manufacturing/ warehouse/distribution center workers and are selected to quantify depth and concentration of the labor force.

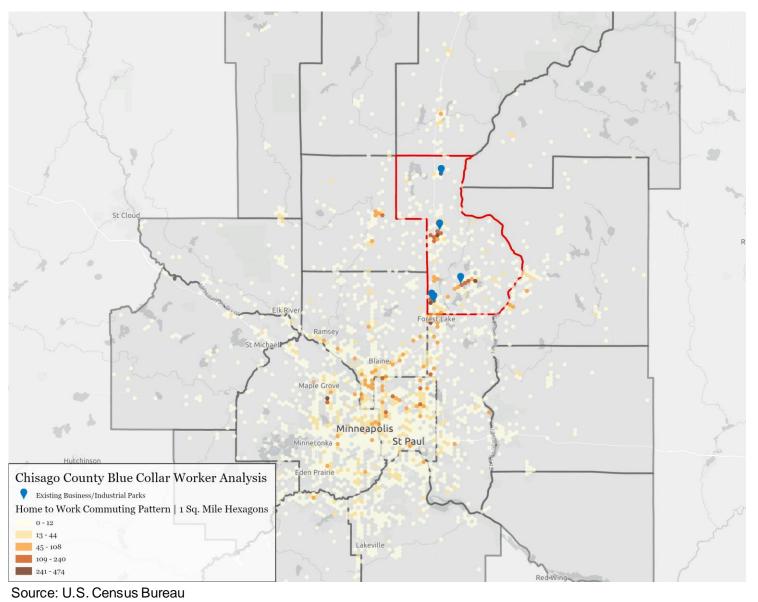


BLUE COLLAR WORKER COMMUTING ANALYSIS

Workplace Locations of Blue Collar Workers that Reside in Chisago County

Home to Work Commuting Pattern

- The map to the right illustrates the workplace locations of persons employed in blue-collar occupations that live in Chisago County.
- Large concentrations are found in the Chisago industrial parks
- Many residents however are commuting into the Minneapolis metro area.

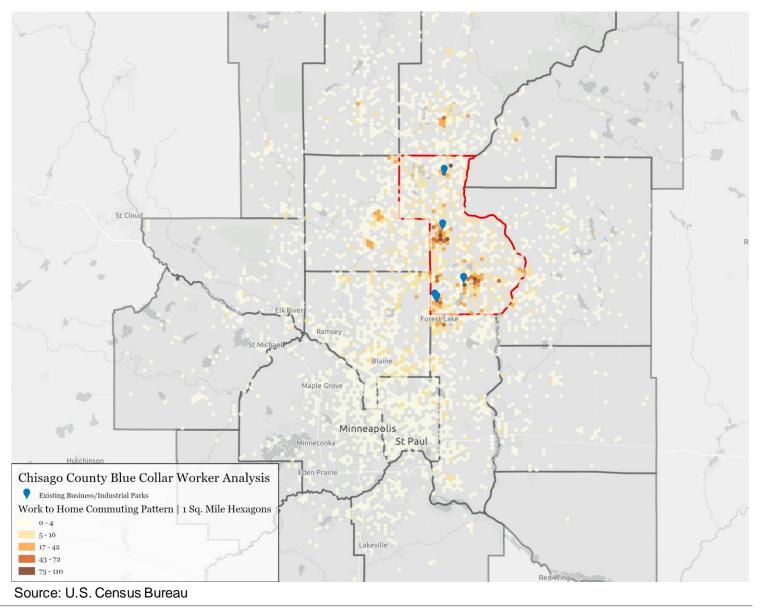


BLUE COLLAR WORKER COMMUTING ANALYSIS

Residence Locations of Blue Collar Workers that Work in Chisago County

Work to Home Commuting Pattern

- The map to the right illustrates resident locations of persons employed in blue collar occupations who work in Chisago County
- Chisago appears to attract workers in a radius around the county to a larger extent than pulling workers from Minneapolis



INDUSTRY AND TARGET LABOR DETAIL

HEAVY MANUFACTURING PERFORMANCE BY NAICS CODE

		Heavy Duty Truck Manufacturing (336120)	Machine Shops (332710)	Motor and Generator Manufacturing (335312)	Mechanical Power Transmission Equipment Manufacturing (333613)	Sheet Metal Manufacturing (332322)	Showcase, Partition, Shelving and Locker Manufacturing (337215)	Bolt, Nut, Screw, Rivet, and Washer Manufacturing (332722)	TOTAL
	Chisago County, MN	530	192	87	0	27	89	40	966
Jobs 2021	Region	587	8,654	1,857	293	4,559	769	232	16,950
	U.S. Average	33,666	269,984	35,976	13,336	112,389	39,042	35,011	539,409
	Chisago County, MN	35%	(3%)	(9%)	0%	18%	(11%)	n/a	19%
Historical Growth Rate (17'-21')	Region	50%	1%	(1%)	(9%)	(3%)	(23%)	(32%)	(1%)
	U.S. Average	14%	(4%)	2%	2%	2%	(16%)	(11%)	(3%)
	Chisago County, MN	25%	4%	1%	0%	30%	4%	18%	19%
Projected Growth Rate (21'-26')	Region	28%	5%	(5%)	(1%)	0%	(8%)	(30%)	2%
	U.S. Average	14%	3%	3%	5%	2%	(2%)	(6%)	2%
	Chisago County, MN	140.67	6.37	6.96	0.00	18.31	20.42	10.17	16.80
Location Quotient	Region	1.37	2.51	4.04	1.72	3.18	1.54	0.52	4.90
	U.S. Average	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Chisago County, MN	\$66,631	\$70,819	\$61,461	n/a	\$55,683	\$57,816	\$68,379	\$64,710
Average Earnings	Region	\$69,122	\$83,514	\$114,822	\$83,905	\$76,469	\$67,446	\$75,528	\$83,786
	U.S. Average	\$82,352	\$68,578	\$90,951	\$80,304	\$68,316	\$61,948	\$77,976	\$71,253

Source: Emsi

¹Region includes the following countries: Anoka County, MN, Carver County, MN, Chisago County, MN, Dakota County, MN, Hennepin County, MN, Isanti County, MN, Kanabec County, MN, Le Sueur County, MN, Mille Lacs County, MN, Pine County, MN, Ramsey County, MN, Scott County, MN, Sherburne County, MN, Washington County, MN, Wright County, MN, Burnett County, WI, Pierce County, WI, Polk County, WI, St. Croix County, WI

²Location Quotient is the level of specialization for the targeted skillset compared to the U.S. average (1.00). Higher values indicate a greater level of specialization and competition compared to the US average.

HEAVY MANUFACTURING - KEY POSITIONS IN THE MARKET

	Chisago County			Regional				Typical Entry Level Education	Work Experience Required	Average Annual Openings	
	Total Jobs 2021	5 Yr. Project Growth (2021-2026)	Avg. Hourly Earnings	Location Quotient	Total Jobs 2021	5 Yr. Project Growth (2021-2026)	Avg. Hourly Earnings	Location Quotient			
Industrial Engineers	78	14%	\$44.60	2.34	8,278	4%	\$46.62	2.17	Bachelor's degree	None	791
First-Line Supervisors of Production and Operating Workers	84	6%	\$29.90	1.23	7,645	2%	\$33.45	0.97	High school diploma or equivalent to 2 yr certification	Less than 5 years	843
Miscellaneous Assemblers and Fabricators	509	9%	\$16.81	3.55	20,035	(4%)	\$18.42	1.22	High school diploma or equivalent to 2 yr certification	None	2,582
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	56	1%	\$18.52	2.74	3,550	(2%)	\$20.50	1.52	High school diploma or equivalent	None	427
Machinists	104	7%	\$23.29	2.51	7,694	3%	\$25.72	1.63	High school diploma or equivalent to 2 yr certification	None	944
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	50	13%	\$18.60	3.16	2,331	3%	\$20.69	1.29	High school diploma or equivalent to 2 years	None	378
Inspectors, Testers, Sorters, Samplers, and Weighers	76	3%	\$20.80	1.21	7,057	(5%)	\$22.97	0.98	High school diploma or equivalent to 2 yr certification	None	1,017
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	46	5%	\$18.91	2.76	2,632	4%	\$20.88	1.39	High school diploma or equivalent to 2 yr certification	None	354
Computer Numerically Controlled Tool Operators	46	2%	\$21.38	2.78	3,651	(1%)	\$23.89	1.92	High school diploma or equivalent to 2 yr certification	None	539
Laborers and Freight, Stock, and Material Movers, Hand	211	16%	\$16.98	0.63	27,706	1%	\$18.80	0.73	No formal educational credential	None	4,420
Heavy Manufacturing Position Summary	1,262	9%	\$20.61		90,580	0%	\$23.75				12,296

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PRODUCT MANUFACTURING PERFORMANCE BY NAICS CODE

		Other Animal Food Manufacturing (311119)	Footwear Manufacturing (316210)	Stationery Product Manufacturing (322230)	All Other Plastics Product Manufacturing (326199)	Concrete Pipe Manufacturing (327332)	TOTAL
	Chisago County, MN	61	244	0	482	115	902
Jobs 2021	Region	559	256	747	8,674	137	10,413
	U.S. Average	36,600	11,078	15,038	288,384	8,371	359,471
	Chisago County, MN	41%	73%	0%	1%	128%	26%
Historical Growth Rate (17'-21')	Region	(1%)	63%	16%	(2%)	(27%)	0%
	U.S. Average	4%	(19%)	(14%)	(4%)	8%	(4%)
	Chisago County, MN	25%	12%	0%	(12%)	16%	1%
Projected Growth Rate (21'-26')	Region	14%	12%	(1%)	(7%)	2%	(5%)
	U.S. Average	4%	(14%)	(8%)	(6%)	6%	(5%)
	Chisago County, MN	14.88	196.83	0.00	14.95	122.98	23.30
Location Quotient	Region	1.28	1.81	3.89	2.36	1.28	5.85
	U.S. Average	1.00	1.00	1.00	1.00	1.00	1.00
	Chisago County, MN	\$44,717	\$75,578	\$0	\$62,878	\$56,485	\$64,217
Average Earnings	Region	\$103,874	\$72,287	\$77,192	\$69,996	\$58,809	\$72,228
	U.S. Average	\$77,033	\$58,871	\$68,048	\$68,424	\$81,699	\$69,255

Source: Emsi

¹Region includes the following countries: Anoka County, MN, Carver County, MN, Chisago County, MN, Dakota County, MN, Hennepin County, MN, Isanti County, MN, Le Sueur County, MN, Mille Lacs County, MN, Pine County, MN, Ramsey County, MN, Scott County, MN, Sherburne County, MN, Washington County, MN, Wright County, MN, Pierce County, WI, Polk County, WI, St. Croix County, WI

²Location Quotient is the level of specialization for the targeted skillset compared to the U.S. average (1.00). Higher values indicate a greater level of specialization and competition compared to the US average.

PRODUCT MANUFACTURING - KEY POSITIONS IN THE MARKET

		Chisago	County			Regi	onal		Typical Entry Level Education	Work Experience Required	Average Annual Openings
	Total Jobs 2021	5 Yr. Project Growth (2021-2026)	Avg. Hourly Earnings	Location Quotient	Total Jobs 2021	5 Yr. Project Growth (2021-2026)	Avg. Hourly Earnings	Location Quotient			
Industrial Engineers	78	14%	\$44.60	2.34	8,278	4%	\$46.62	2.17	Bachelor's degree	None	791
First-Line Supervisors of Production and Operating Workers	84	6%	\$29.90	1.23	7,645	2%	\$33.45	0.97	High school diploma or equivalent to 2 yr certification	Less than 5 years	843
Miscellaneous Assemblers and Fabricators	509	9%	\$16.81	3.55	20,035	(4%)	\$18.42	1.22	High school diploma or equivalent to 2 yr certification	None	2,582
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	57	(10%)	\$16.39	3.24	2,517	(4%)	\$17.66	1.26	High school diploma or equivalent to 2 yr certification	None	326
Shoe Machine Operators and Tenders	106	8%	\$18.12	210.59	116	7%	\$18.05	2.02	High school diploma or equivalent to 2 yr certification	None	31
Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	<10	n/a	n/a	1.84	400	1%	\$21.88	0.94	High school diploma or equivalent to 2 yr certification	None	67
Inspectors, Testers, Sorters, Samplers, and Weighers	76	3%	\$20.80	1.21	7,057	(5%)	\$22.97	0.98	High school diploma or equivalent to 2 yr certification	None	1,017
Paper Goods Machine Setters, Operators, and Tenders	<10	n/a	n/a	0.33	1,305	(7%)	\$18.94	1.03	High school diploma or equivalent to 2 yr certification	None	224
HelpersProduction Workers	27	3%	\$15.43	1.02	3,200	(4%)	\$17.18	1.04	High school diploma or equivalent	None	658
Laborers and Freight, Stock, and Material Movers, Hand	211	16%	\$16.98	0.63	27,706	1%	\$18.80	0.73	No formal educational credential	None	4,420
Product Manufacturing Position Summary	1,160	9%	\$20.01		78,259	(1%)	\$23.32				10,959

SUPPLY CHAIN PERFORMANCE BY NAICS CODE

		Electronic Shopping and Mail-Order Houses (454110)	Rail transportation (482110)	General Freight Trucking, Long- Distance, Truckload (484121)	General Freight Trucking, Long- Distance, Less Than Truckload (484122)	Couriers and Express Delivery Services (492110)	TOTAL
	Chisago County, MN	206	103	71	< 10	121	503
Jobs 2021	Region	6,923	2,118	6,819	3,170	10,430	28,662
	U.S. Average	529,792	207,738	635,826	274,028	898,492	2,545,876
	Chisago County, MN	11%	9%	15%	n/a	41%	17%
Historical Growth Rate (17'-21')	Region		(10%)	(10%)	4%	22%	3%
	U.S. Average	11%	(7%)	2%	2%	43%	15%
	Chisago County, MN	1%	9%	7%	n/a	16%	7%
Projected Growth Rate (21'-26')	Region	(4%)	(6%)	(4%)	1%	4%	(1%)
	U.S. Average	13%	(4%)	1%	2%	10%	6%
	Chisago County, MN	3.47	4.43	0.99	0.06	1.21	1.85
Location Quotient	Region	1.02	0.80	0.84	0.91	0.91	0.88
	U.S. Average	1.00	1.00	1.00	1.00	1.00	1.00
	Chisago County, MN	\$52,027	\$99,710	\$77,433	n/a	\$67,426	\$68,664
Average Earnings	Region	\$86,402	\$101,444	\$82,253	\$80,865	\$53,229	\$74,459
	U.S. Average	\$94,224	\$101,346	\$69,462	\$80,214	\$55,230	\$73,477

Source: Emsi

¹Region includes the following countries: Anoka County, MN, Carver County, MN, Chisago County, MN, Dakota County, MN, Hennepin County, MN, Isanti County, MN, Kanabec County, MN, Le Sueur County, MN, Mille Lacs County, MN, Pine County, MN, Ramsey County, MN, Scott County, MN, Sherburne County, MN, Washington County, MN, Wright County, MN, Burnett County, WI, Pierce County, WI, Polk County, WI, St. Croix County, WI

²Location Quotient is the level of specialization for the targeted skillset compared to the U.S. average (1.00). Higher values indicate a greater level of specialization and competition compared to the US average.

SUPPLY CHAIN LABOR - KEY POSITIONS IN THE MARKET

		Chisago	County			Regi	onal		Typical Entry Level Education	Work Experience Required		Average Annual Openings
	Total Jobs 2021	5 Yr. Project Growth (2021-2026)	Avg. Hourly Earnings	Location Quotient	Total Jobs 2021	5 Yr. Project Growth (2021-2026)	Avg. Hourly Earnings	Location Quotient				
General and Operations Managers	220	10%	\$55.48	0.79	29,913	2%	\$63.17	0.95	Bachelor's degree	5 years or more		2,832
Order Clerks	16	(7%)	\$16.66	1.12	1,803	(10%)	\$18.90	1.12	Some college, no degree	None		303
Shipping, Receiving, and Inventory Clerks	70	4%	\$17.46	0.84	8,984	(4%)	\$19.86	0.94	High school diploma or equivalent	None		949
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	41	13%	\$26.45	0.74	4,985	2%	\$30.05	0.78	High school diploma or equivalent	Less than 5 years		743
Heavy and Tractor-Trailer Truck Drivers	219	2%	\$25.40	0.93	21,798	2%	\$27.57	0.81	Postsecondary nondegree award	None		2,847
Light Truck Drivers	87	13%	\$21.72	0.75	10,954	4%	\$22.53	0.83	High school diploma or equivalent	None		1,445
Industrial Truck and Tractor Operators	33	11%	\$20.76	0.43	5,770	1%	\$23.53	0.67	No formal educational credential	None		882
Laborers and Freight, Stock, and Material Movers, Hand	211	16%	\$16.66	0.63	27,706	1%	\$18.80	0.73	No formal educational credential	None		4,420
Packers and Packagers, Hand	52	5%	\$12.71	0.74	5,655	(2%)	\$14.46	0.70	No formal educational credential	None		973
Stockers and Order Fillers	169	9%	\$14.41	0.66	28,443	0%	\$16.38	0.98	High school diploma or equivalent	None		5,185
Supply Chain Position Summary	1,118	9%	\$26.25		146,012	1%	\$29.45					20,579
Source: Emsi											-	

WAREHOUSING - KEY POSITIONS IN THE MARKET

		Chisago	County			Regi	onal		Typical Entry Level Education	Work Experience Required	Average Annual Openings
	Total Jobs 2021	5 Yr. Project Growth (2021-2026)	Avg. Hourly Earnings	Location Quotient	Total Jobs 2021	5 Yr. Project Growth (2021-2026)	Avg. Hourly Earnings	Location Quotient			
Transportation, Storage, and Distribution Managers	13	8%	\$49.63	0.81	2,048	2%	\$54.79	1.11	High school diploma or equivalent	5 years or more	247
Production, Planning, and Expediting Clerks	28	6%	\$24.18	0.66	4,135	2%	\$26.74	0.86	High school diploma or equivalent	None	477
Shipping, Receiving, and Inventory Clerks	70	4%	\$17.79	0.84	8,984	(4%)	\$19.86	0.94	High school diploma or equivalent	None	949
Maintenance and Repair Workers, General	119	5%	\$22.27	0.71	15,217	2%	\$24.76	0.79	High school diploma or equivalent	None	1,602
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	41	13%	\$26.95	0.74	4,985	2%	\$30.05	0.78	High school diploma or equivalent	Less than 5 years	743
Heavy and Tractor-Trailer Truck Drivers	219	2%	\$25.88	0.93	21,798	2%	\$27.57	0.81	nondegree award	None	2,847
Light Truck Drivers	87	13%	\$22.13	0.75	10,954	4%	\$22.53	0.83	High school diploma or equivalent	None	1,445
Industrial Truck and Tractor Operators	33	11%	\$21.16	0.43	5,770	1%	\$23.53	0.67	No formal educational credential	None	882
Laborers and Freight, Stock, and Material Movers, Hand	211	16%	\$16.98	0.63	27,706	1%	\$18.80	0.73	No formal educational credential	None	4,420
Packers and Packagers, Hand	52	5%	\$12.95	0.74	5,655	(2%)	\$14.46	0.70	credential	None	973
Stockers and Order Fillers	169	9%	\$14.68	0.66	28,443	0%	\$16.38	0.98	High school diploma or equivalent	None	5,185
Warehousing Position Summary	1,043	8%	\$20.53		135,696	1%					19,769

Source: Emsi



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CHISAGO COUNTY LABOR CAPACITY ASSESSMENT

January 2022



LABOR MARKET - CAPACITY RISK ASSESSMENT METHODOLOGY

C&W's labor market capacity risk assessment identifies a 'growth cap' to categorize risk associated with future labor demand in the target industries.

- The assessment is based on historic employment data within targeted skills for manufacturing and warehousing/ supply chain to identify the point at which an employment increase causes the labor market to extend beyond a historic "normal" range.
- Capacity risk reflects the market's ability to statistically support incremental jobs based on current market dynamics and the historical labor market performance.
- This method informs whether anticipated future industrial growth will encounter a capacity limitation for identified talent, which would warrant intervention from Chisago County in additional training, incentives or recruitment programs. Increments for each occupation profile is based on sample hiring needs for industrial users in the market.

Growth Cap (before saturation)

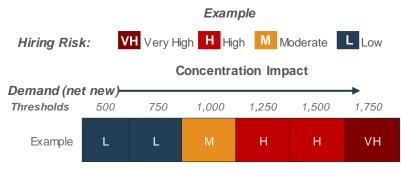
The growth cap limit is a reflection of the proportion of specific skills in an area relative to a base case (U.S.=1.0). The model tests hypothetical staffing additions against the historic performance of the market.

Labor Category Adjustment

The baseline threshold and job demand increments are adjusted based on the size of the labor market and typical annual hiring needs.

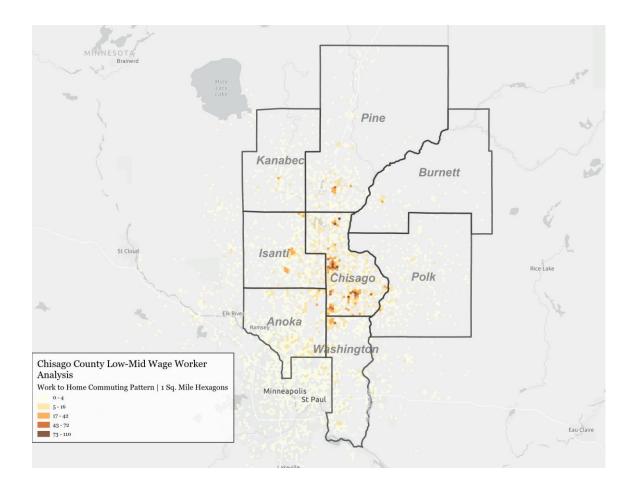
What it means for Chisago County

If the proportion of talent exceeds modeled norms, then an organization is more likely to experience stress in the local labor market for talent, resulting in expanded recruitment efforts or potential wage pressure.



LABOR MARKET - CAPACITY RISK ASSESSMENT METHODOLOGY

To better capture the potential labor supply entering Chisago County to work, we ran an additional capacity analysis to consider the combined labor pool of Chisago and the bordering counties.



- Due to a significant number of blue-collar workers entering Chisago County for work already, C&W also ran a capacity risk assessment for the bordering counties.
- These counties include Kanabec, Pine, Burnett, Isanti, Polk, Anoka, and Washington.
- Combined with Chisago, we assessed these counties as one area to determine what the greater area can support, not only just Chisago County's labor force.

LABOR MARKET CAPACITY ASSESSMENT - MANUFACTURING

Chisago County

The labor market in Chisago County is positioned to absorb additional manufacturing jobs before seeing any risk to labor capacity.

Net New Jobs in the Market	Risk	
100	L	
250	L	The
400	L	new Chis
550	М	WOU
700	М	mar chal
850	М	to fil
1,000	н	
1,150	н	
1,300	н	
1,450	VH	
<i>Risk: <mark>Vम</mark> Very</i> High	H High ^M	Moderate Low

The chart shows up to 850 new jobs can be added in Chisago County before we would expect the local labor market beginning to have challenges providing workers to fill the jobs.

Expanded View with Neighboring Counties

The broader labor market which includes neighboring counties is well positioned to absorb additional manufacturingoriented industrial facilities before seeing any risk to labor capacity.

When considering workers from neighboring counties, we estimate that up to 2,400 new manufacturing jobs can be added in Chisago County before we expect the local labor market beginning to have challenges providing workers to fill the jobs.

VH Very High H High Moderate L Low

Risk:

Net New Jobs in the Market	Risk
200	L
400	L
600	L
800	L
1,000	L
1,200	L
1,400	М
1,600	М
1,800	М
2,000	М
2,200	М
2,400	М
2,600	н
2,800	н
3,000	н
3,200	н
3,400	н
3,600	н
3.800	VH

Sources: Emsi, C&W Methodology

LABOR MARKET CAPACITY ASSESSMENT - WAREHOUSING/ SUPPLY CHAIN

Chisago County

The labor market in Chisago County is positioned to absorb additional warehousing and supply chain facilities before seeing any risk to labor capacity

Net New Jobs in the Market	Risk
100	L
250	L
400	М
550	М
700	М
850	н
1,000	н
1,150	VH

The chart shows up to 700 new jobs can be added in Chisago County before we would expect the local labor market beginning to have challenges providing workers to fill the jobs.

Expanded View with Neighboring Counties

The broader labor market which includes neighboring counties is well positioned to absorb additional manufacturing-oriented industrial facilities before seeing any risk to labor capacity

> When considering workers from neighboring counties, we estimate that up to 3,300 new warehousing/ supply jobs can be added in Chisago County before we expect the local labor market beginning to have challenges providing workers to fill the jobs.

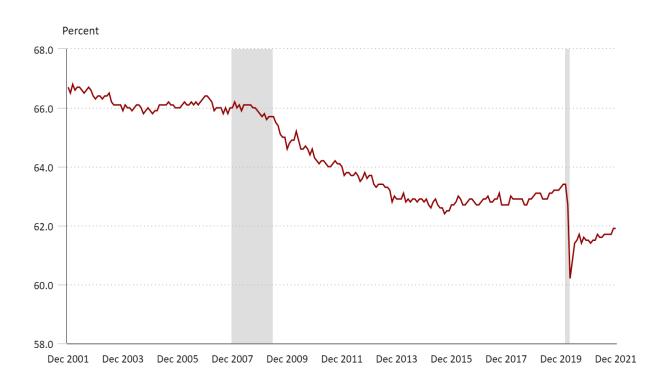
Net New Jobs in the Market	Risk
300	L
600	L
900	L
1,200	L
1,500	L
1,800	М
2,100	М
2,400	М
2,700	М
3,000	М
3,300	М
3,600	н
3,900	н
4,200	н
4,500	н
4,800	н
5,100	VH

Risk: VH Very High H High Moderate L Low

Sources: Emsi, C&W Methodology

Risk: VH Very High High Moderate Low

Civilian labor force participation rate, seasonally adjusted



Source: US Bureau of Labor Statistics

- Competitive hiring market for employers
 - According to the U.S. Bureau of Labor Statistics, there are 10.4 million total job openings as of September 2021: 333,000 in the construction industry, 897,000 in the manufacturing industry and 589,000 in transportation, warehousing, and utilities.
- Participation rates still below pre-COVID levels
 - The U.S. labor force participation rate plunged from 63.3%. As of October 2021, it stood at just 61.6% prepandemic to 60.2% in April 2020 and has been very slow to climb back.
- Pandemic still impacting choice return to work
 - Surveys show the primary reasons for not returning to work are largely due to the pandemic (i.e., either sick or caring for the sick, childcare, or company went out of business during the pandemic).

Source: Cushman & Wakefield, Nov 2021 GLOBAL SUPPLY CHAIN DISRUPTIONS - IMPLICATIONS FOR INDUSTRIAL & LOGISTICS REAL ESTATE

HOUSING MARKET IN CHISAGO COUNTY

Chisago County Housing Data – December 2021

	D	ecembe	er	Rolling 12 Months			
	2020	2021	+/-	2020	2021	+/-	
New Listings	64	44	-31.3%	1,324	1,161	-12.3%	
Closed Sales	89	82	-7.9%	1,134	1,049	-7.5%	
Median Sales Price*	\$301,092	\$330,000	+ 9.6%	\$280,000	\$324,000	+ 15.7%	
Average Sales Price*	\$335,869	\$370,059	+ 10.2%	\$304,510	\$351,804	+ 15.5%	
Price Per Square Foot*	\$182	\$194	+ 6.7%	\$159	\$188	+ 18.2%	
Percent of Original List Price Received*	100.0%	101.0%	+ 1.0%	99.7%	102.4%	+ 2.7%	
Days on Market Until Sale	39	20	-48.7%	53	28	-47.2%	
Inventory of Homes for Sale	100	82	-18.0%				
Months Supply of Inventory	1.0	1.0	0.0%				

* Does not account for seller concessions. | Activity for one month can sometimes look extreme due to small sample size.

Source: MINNEAPOLIS AREA REALTORS®

HOUSING MARKET IN CHISAGO COUNTY

Chisago County Housing Data – December 2021



Current as of January 10, 2022. All data from NorthstarMLS. | Copyright ShowingTime.

Based upon the December 2021 report from MINNEAPOLIS AREA REALTORS®, over the past year:

- Chisago County home prices increased approximately 15%, compared to an 11.5% home price increase in the Greater Minneapolis Metro Area
- Chisago County inventory of for-sale listings dropped 12%, compared to a 24% drop in for-sale listings in the Greater Minneapolis Metro Area



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