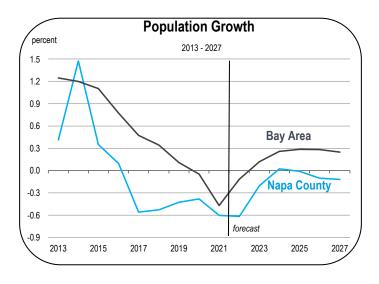
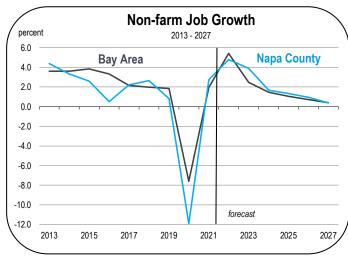
Forecast Summary

- Following a crushing 9,000 job reduction in 2020 as a result of the pandemic, 1,800 jobs were restored in 2021. Approximately 3,300 jobs will be further restored in Napa County in 2022.
- A full labor market recovery from the 2020 recession is expected until 2024.
- Employment gains in 2022 will be largest in leisure services, manufacturing, and personal services.
- The wine industry rebounded in 2021. Wine grape production increased 21 percent and average grape values rose sharply. The 2022 harvest was lower in volume, but appears qualitatively superior to 2021 and prices for grapes and juice are expected to increase further.
- The Napa County unemployment rate averaged 6.1 percent in 2021. It is forecast to average 3.0 percent in 2022.
- The county's population is expected to decline over the forecast period.
- Fewer homes will be built between 2022 and 2027 than were entitled during the previous five years where many of those permitted homes were fire rebuilds.
- Though home prices rose sharply in 2021 by 9.1 percent, prices surged more rapidly during the first half of 2022 and are expected to result in an average annual increase of 10 percent for the year, despite declining selling values that have prevailed after August 2022.
- Homes in Napa County are more affordable that other parts of the Bay Area, but because new home production has been scarce, increasing unaffordability of housing will characterize the Napa County housing market over the forecast.



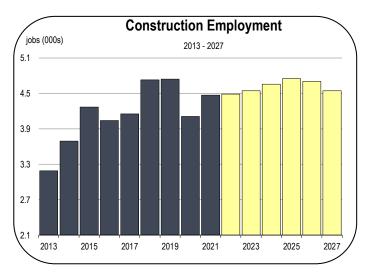


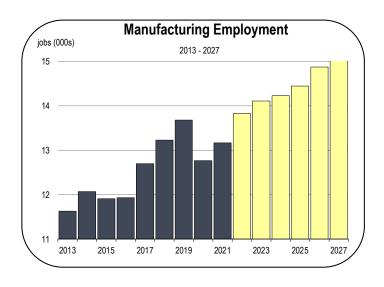
Job Growth

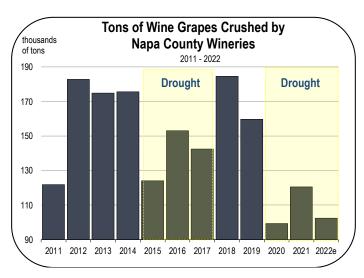
- Total employment in Napa County will expand by 4.4 percent in 2022, and 3.6 percent in 2023.
- Between 2022 and 2027, employment growth will average 2.0
 percent per year, a rate similar to the employment growth forecast
 for the broader Bay Area labor market.

Construction Employment

- Employment in construction increased slightly during 2022, largely because of the difficulty in hiring skilled employment throughout the Bay Area.
- Some expansion in jobs is forecast for 2023 but the construction sector will remain largely stable because (1) the fire rebuilds are mostly complete, and (2) new housing production will be limited over the next 3 years.
- The extent of new non-residential building or renovations that is forecast will not require an expansion in the construction workforce.



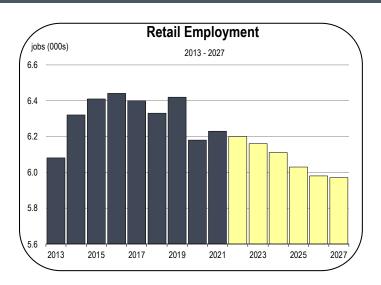




Manufacturing Employment

- Wineries produced 120,500 tons of wine grapes in 2021.
 Production was up 21 percent, or 21,200 tons from 2020. However, despite this huge increase, production is still 21 percent lower than the 10-year average of 151,700 tons of wine grapes.
- The total value of the 2021 wine grape crop was \$742 million, representing a 61 percent increase over the 2020 wine grape crop value. This sharp increase can be attributed to the rise in the price of red wine grapes and the recovery from 2020 Glass Fire.
- The average price paid per ton for all wine grapes was \$6,154, a new record high.
- The harvest in 2021 is yielding a high-quality vintage. The 2022 vintage had lower yields than predicted, however, the lower yields produced a wine grape reported to have more intense flavor. This is attributed to both the drought and the weather conditions that prevailed during the August to October harvest season of 2022.
- The Wine Industry Network Advisor reported that: "Winemakers describe 2022 white wines as having perfect acidity and freshness with remarkable flavors and textures, and red wines as excellent structured with deep red colors, luxurious tannins and exquisite fruit-forward aromatics."

Weighted Average Prices Paid for Wine Grapes percent change 2021 dollar per ton from 2020									
Cabernet Sauvignon	\$8,082	29.1							
Pinot Noir	\$2,637	-0.4							
Merlot	\$4,032	25.3							
Zinfandel	\$4,435	10.7							
Syrah	\$4,251	15.3							
Chardonnay	\$3,245	7.2							
Sauvignon Blanc	\$2,635	7.4							





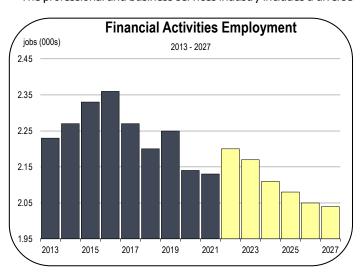
- Total retail trade employment increased 1 percent in 2021 but will decline 0.4 percent in 2022.
- Employment in retail will decline marginally over the forecast due to automation in retail stores and the accelerating transition to online shopping.

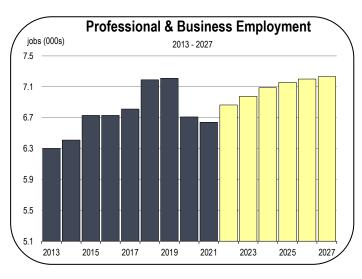
Financial Activities Employment

- The financial activities industry is largely comprised of real estate firms, banks, and insurance firms.
- There was an uptick in the formation of financial sector jobs during 2022, as part of job restoration from the 2020 pandemic recession.
 Over time however, the trajectory of employment is expected to resume the consolidating trend in place since 2017.

Professional and Business Services Employment

• The professional and business services industry includes a diverse



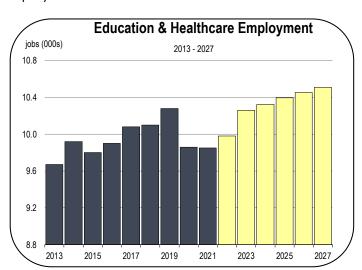


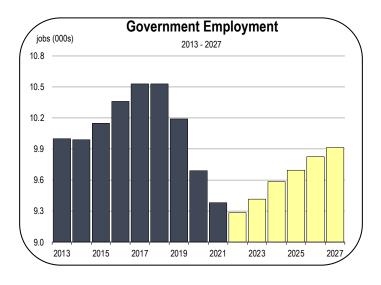
array of subsectors including professional, technical, and scientific consulting, managerial services, administrative services, and building maintenance.

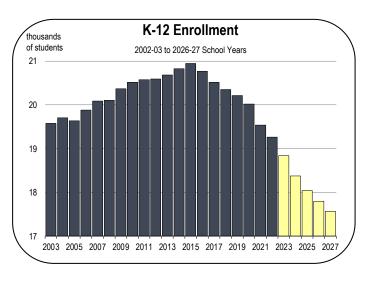
- Employment in the broad sector will increase 2.1 percent in 2022, accounting for 140 jobs.
- This composite industry will represent much of the growth in employment opportunities in the future, not only in Napa County but in the entire state.
- Over the long term, growth is expected to be strongest in engineering and technology consulting.

Private Education and Healthcare Employment

- Healthcare employment will rise 1.4 percent in 2022, adding 130 jobs to the Napa County labor market.
- The outlook for through 2024 calls for the industry to gain traction in filing open positions that have remained unfilled due to labor force availability. Job growth will rise an average of 1.7 percent per year in 2023 and 2024.





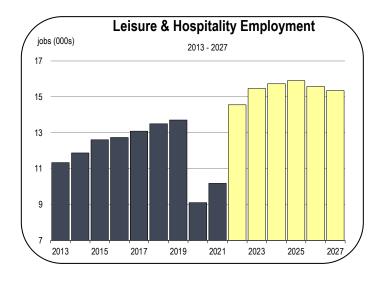


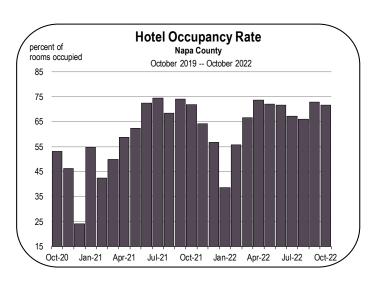
Government Employment

- Recovery in public sector employment has been absent in Napa County since 2019.
- Employment is expected to marginally rise over the forecast, but pre-pandemic levels are not expected.
- The sharp decline in K-12 school enrollment since 2016 has reduced the need to staff public schools and administration. This decline is forecast for the rest of the decade.

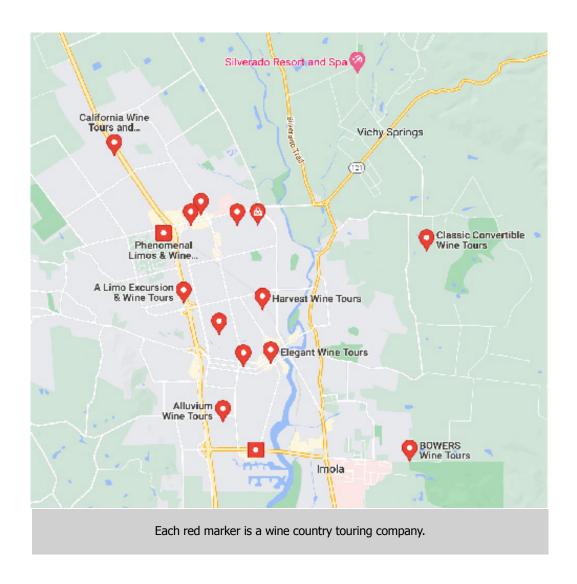
Leisure and Hospitality Employment

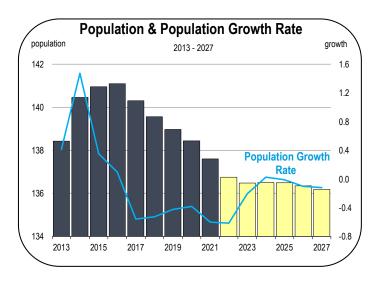
- Employment in the industry rebounded sharply in 2021 and 2022. Just over 1,000 jobs were added in 2021, and the pace of job creation in 2022 will account for 2,200 restored jobs, a 22 percent increase.
- Tourism is a large contributor to the Napa County economy, and tourism has bounced back sharply in 2021 and 2022.
- In the spring and summer months, approximately 80 percent of hotel rooms are occupied on any given day, with close to 100 percent of transient rooms occupied on weekends.

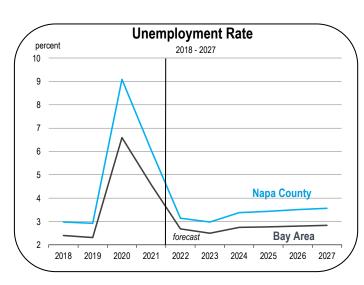




- In 2022, the hotel occupancy rate is averaging 66 percent for the year, and over 70 percent during the summer months.
- The surge in travel throughout California that began in 2021 has extended into 2022. This surge is benefitting the dining, drinking, and recreation sectors of Napa County.
- The forecast has leisure/hospitality rising by another 1,700 jobs in 2023 and 700 jobs in 2024.
- Wine sales and wine tourism appear to be principal beneficiaries, evidenced by the rebound in visitor industry employment throughout the wine region in the North Bay.
- Surveys conducted by Visit Napa Valley report that 81 percent of all visitors come principally for wine tasting. Forty-five percent of all visitors use organized wine tours as a means to visit the county's wine region.
- On average, an estimated 19,000 day visitors travel to Napa Valley each day of the year.

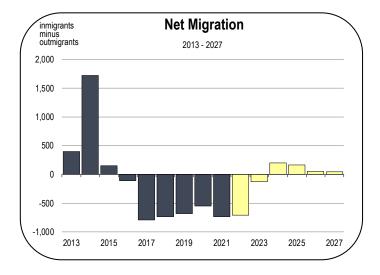






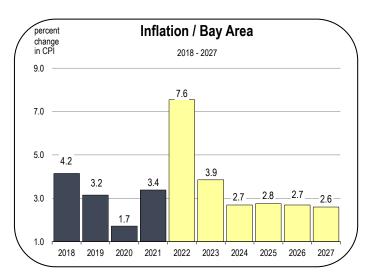
Population Growth

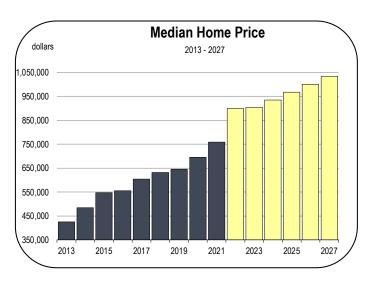
- Net out-migration from Napa County has ranged from 500 to 800 residents per year since 2017.
- Net migration is not expected to reverse course until 2024 or beyond, but the volume of people coming into Napa County will remain muted, due to (1) housing cost, (2) housing availability, and (3) limited job opportunity.
- While net in-migration is not contributing to population growth, the aging population of Napa County is gradually reducing the birth rate, and annual deaths have begun to outnumber annual births.
- Over the next 5 years, the population declines to 136,200 residents, a decline of 1,500 persons from 2021.
- By 2027, the population will have declined to 136,000 residents, a loss of 1,500 residents form 2021 levels.



Unemployment and Inflation Rates

- The unemployment rate in Napa County averaged 6.1 percent in 2021, which above the composite rate for the Bay Area.
- An unemployment rate below 4.0 percent signifies a fully employed workforce. The unemployment rate is expected to average 3.7 percent during the forecast period.
- Inflation soared in 2021 and is expected to remain elevated for several years.
- During 2022 and into 2023, there will be a number of factors that will contribute to higher inflation. The most prominent will be:
 - Record spending by consumers and the federal government during 2021 and 2022
 - Fractures in the global supply chain that raise the cost of production for many businesses
 - Sharp increases in the cost of housing and energy
 - Labor market recruitment challenges that force companies to raise wages

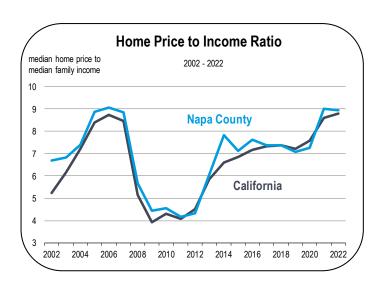


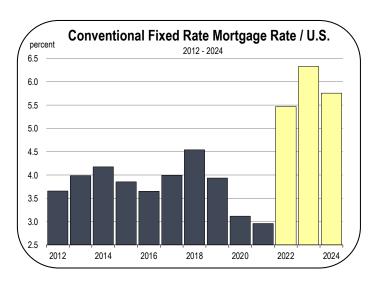


- Combined, these factors have pushed inflation to its highest rate in 40 years. Ultimately, inflation reduces the purchasing power of households and negatively impacts consumer confidence, limiting the growth potential of the economy in 2022.
- However, inflation will gradually decelerate in 2023 as supply chains are restored, and the impending economic slowdown moderates the demand for labor and wage increases. Average inflation rates eventually decline to 3 percent again by 2024.

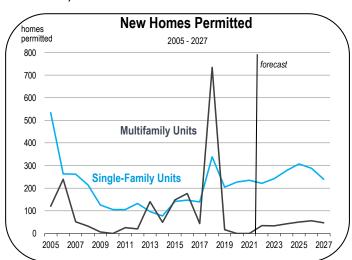
Home Prices and New Housing Production

- In 2021 the median home value for all homes sold in Napa County was \$758,500. For single family detached homes, the median selling value was \$911,600.
- During 2022, the value of housing has continued to soar, despite higher mortgage rates. Selling values for 2022 are now averaging over \$1 million and will record an appreciation rate of 11 percent for the year.



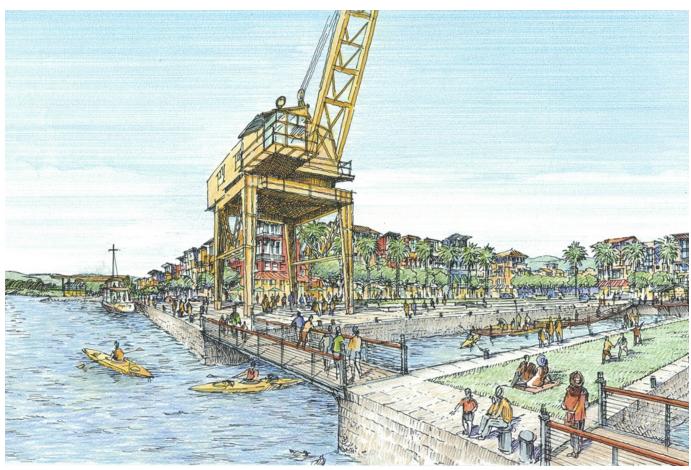


- Homes in Napa County are more affordable than other parts of the Bay Area. In 2021, the typical family would have needed to spend 30 percent of its income to afford the median priced home.
 In 2022, the median household income rose sharply, enabling the typical family to afford Napa County housing at approximately 35 percent of income.
- From 2016 to 2021, an average of 377 new homes were permitted each year in Napa County. Approximately 60 percent were single-family homes.
- Housing production is expected to average 310 homes per year from 2022 to 2027, dominated by single-family home development.
- Because housing construction is and will remain limited, affordability of housing will remain an escalating issue in Napa County, just as it has in other parts of the Bay Area.
- The volume of housing forecast over the next five years will probably be insufficient to prevent home prices from rising indefinitely.



- Interest rates rose throughout 2022 and will moderate in 2023 as inflation decelerates. Home prices are not expected to increase in 2023 but will rise over the forecast in tandem with limited growth of supply and rising Bay Area incomes.
- The Association of Bay Area Governments (ABAG) assigned Napa County a total of 3,844 housing units to build over the 2023-2031 period. This assignment comes from the Regional Housing Needs Assessment program of the Housing and Community Development Department.
- Nearly a third of this housing allocation, 1,138 units, are required to be very low-income housing (which means affordable for families with 50% of the County's median income).
- Napa County has 3 housing development projects in its pipeline all in the City of Napa:
 - 1. Heritage House 66 units
 - 2. Valle Verde 24 units
 - Napa Pipe 140 units

- Napa Pipe is the biggest development project in Napa County, spanning over a 154-acre property along the Napa River located at 1025 Kaiser Road.
- At complete buildout, Napa Pipe is planned to include:
 - 945 residential units
 - A Big Box retail center
 - 50 units of senior housing
 - 150-room hotel
 - 90,000 square feet for retail space
 - 90,000 square feet of office, commercial, and light industrial space
 - 1.5 million square feet for parks and open space
- It was announced in 2022 that a Costco will open in 2023 as part of Phase 1. There are a total of 4 phases comprising the Napa Pipe development.



Napa Pipe Future Vision

Economic Indicators

2015-2021 History, 2022-2050 Forecast

	Population		Net Migration	New Homes Permitted	Registered Vehicles	Personal Income	Taxable Retail Sales	Total Taxable Sales	Real Industrial Production	Real per Capita Income	Unemployme Rate	Production Rate
	(people)	(thousands)	(people)	(homes)	(thousands)	(billions)	(billions)	(billions)	(billions)	(dollars)	(percent)	(millions) (percent)
140,955		149	289	146	\$9.1	\$1.9	\$3.3	\$3.3	\$77,661	4.7	\$665	1.4
141,089		-107	323	149	\$9.6	\$1.9	\$3.4	\$3.3	\$79,654	4.3	\$860	2.3
140,299		-791	183	148	\$9.9	\$2.0	\$3.5	\$3.3	\$79,576	3.7	\$855	3.0
139,558		-735	1,073	148	\$10.0	\$2.2	\$3.7	\$3.0	\$77,714	3.0	\$1,132	3.7
138,965		-684	222	151	\$10.4	\$2.2	\$3.8	\$3.0	\$78,919	2.9	\$986	2.9
138,433		-548 -737	227	147	\$9.2	\$1.9	\$3.2	\$2.7	\$68,738	9.1	\$477 \$746	1.8
137,600 136,753		-737 -709	235 256	148 149	\$11.3 \$12.2	\$2.4 \$2.8	\$4.1 \$4.8	\$3.3 \$3.3	\$82,059 \$82,815	6.1 3.1	\$746	4.2 7.3
136,753		-128	276	150	\$12.2 \$12.9	\$2.8	\$4.0 \$5.0	\$3.3	\$84,645	3.0	\$932	3.5
136,507		200	321	152	\$12.9 \$13.5	\$2.8	\$5.0 \$5.1	\$3.3 \$3.4	\$86,395	3.4	\$932 \$939	2.3
136,491		163	358	153	\$14.1	\$2.9	\$5.1	\$3.4	\$87,457	3.4	\$931	2.3
136,353		55	343	153	\$14.6	\$2.9	\$5.2	\$3.6	\$88,363	3.5	\$922	2.3
136,187		45	287	154	\$15.2	\$3.0	\$5.2	\$3.6	\$89,702	3.6	\$934	2.2
136,023	50.9	68	254	154	\$15.8	\$3.0	\$5.3	\$3.7	\$91,092	3.6	\$940	2.2
135,908	51.1	125	240	155	\$16.4	\$3.1	\$5.5	\$3.8	\$92,149	3.6	\$944	2.3
135,786		131	220	155	\$17.0	\$3.2	\$5.6	\$3.9	\$93,268	3.6	\$956	2.2
135,705	51.6	187	227	155	\$17.7	\$3.3	\$5.8	\$4.0	\$94,437	3.6	\$962	2.1
135,618		194	216	156	\$18.3	\$3.4	\$6.0	\$4.0	\$95,287	3.6	\$975	2.3
135,472		148	204	156	\$19.0	\$3.5	\$6.1	\$4.1	\$96,589	3.6	\$991	1.9
135,322		153	197	156	\$19.6	\$3.6	\$6.3	\$4.2	\$97,722	3.6	\$1,003	2.1
135,165		158	192	156	\$20.4	\$3.7	\$6.5	\$4.2	\$98,803	3.6	\$994	2.2
134,969		141	188	157	\$21.1	\$3.8	\$6.7	\$4.3	\$99,457	3.6	\$1,000	2.6
134,746		133	183	157	\$21.8	\$4.0	\$7.0	\$4.3	\$100,057	3.6	\$1,006	2.7
134,494		130	177	157	\$22.6	\$4.1	\$7.2	\$4.4	\$100,878	3.6	\$1,016	2.5
134,228		128	172	157	\$23.4	\$4.2	\$7.5	\$4.4	\$101,502	3.6	\$1,025 \$4,024	2.7
133,946 133,652		126 128	167 163	158 158	\$24.2 \$25.0	\$4.3 \$4.5	\$7.7 \$7.9	\$4.5 \$4.5	\$102,166 \$103,170	3.6 3.6	\$1,031 \$1,038	2.6 2.2
133,032		111	159	158	\$25.0 \$25.9	\$4.5 \$4.6	\$7.9 \$8.1	\$4.5 \$4.6	\$104,224	3.6	\$1,035 \$1,035	2.2
132,994		119	154	158	\$26.7	\$4.7	\$8.3	\$4.7	\$105,305	3.6	\$1,033	2.0
132,659		126	150	159	\$27.6	\$4.8	\$8.5	\$4.7	\$106,537	3.6	\$1,044	1.8
132,318		134	147	159	\$28.4	\$4.9	\$8.8	\$4.8	\$107,622	3.6	\$1,047	1.9
131,984		143	143	159	\$29.3	\$5.1	\$9.0	\$4.9	\$108,528	3.6	\$1,050	2.0
131,663		152	141	159	\$30.2	\$5.2	\$9.2	\$4.9	\$109,158	3.6	\$1,057	2.2
131,353		161	139	159	\$31.1	\$5.4	\$9.5	\$5.0	\$109,671	3.6	\$1,066	2.3
131,048		168	137	160	\$32.0	\$5.5	\$9.8	\$5.0	\$110,481	3.6	\$1,069	2.0
130,753	54.8	175	134	160	\$32.9	\$5.7	\$10.1	\$5.1	\$111,148	3.6	\$1,072	2.1

Employment Sectors

2015-2021 History, 2022-2050 Forecast

	Total Wage & Salary 	Farm	Construction	Manufac- turing	Transportation & Utilities	Wholesale & Retail Trade (thou	Financial Activities sands of jobs	Professional Services)	Information	Health & Education	Leisure	Government
2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042	75.3 75.7 77.3 79.3 79.9 70.8 73.0 76.2 78.9 80.2 81.2 81.9 82.2 82.5 82.7 82.9 83.3 83.7 83.9 84.2 84.5 84.8 85.0 85.3 85.6 85.9 86.1	5.0 5.0 5.0 5.1 5.2 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	4.3 4.0 4.2 4.7 4.7 4.1 4.5 4.5 4.5 4.7 4.7 4.7 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.0 4.0 4.0			Retail Trade	Activities	Services	0.4 0.4 0.4 0.4 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3		12.6 12.7 13.1 13.5 13.7 9.1 10.2 12.4 14.1 14.8 15.2 15.3 15.4 15.5 15.6 15.6 15.9 16.0 16.2 16.3 16.4 16.6 17.0 17.1 17.2	10.2 10.4 10.5 10.5 10.5 10.2 9.7 9.4 9.3 9.4 9.6 9.7 9.8 9.9 10.0 10.1 10.1 10.1 10.1 10.1 10.2 10.2
2044 2045 2046 2047 2048 2049 2050	86.9 87.1 87.3 87.5 87.7 87.9 88.2	5.5 5.6 5.6 5.6 5.6 5.6 5.6	4.0 3.9 3.9 3.9 3.9 3.9 3.9	16.5 16.6 16.7 16.7 16.8 16.9	2.6 2.6 2.6 2.6 2.6 2.6 2.7	6.9 6.8 6.8 6.7 6.7 6.7 6.6	1.4 1.3 1.3 1.3 1.2 1.2	7.6 7.6 7.6 7.6 7.6 7.6 7.6	0.3 0.3 0.3 0.3 0.3 0.3	11.8 11.9 11.9 12.0 12.0 12.1	17.6 17.7 17.9 18.0 18.1 18.3	10.3 10.3 10.3 10.4 10.4 10.4 10.4

Socioeconomic Indicators

