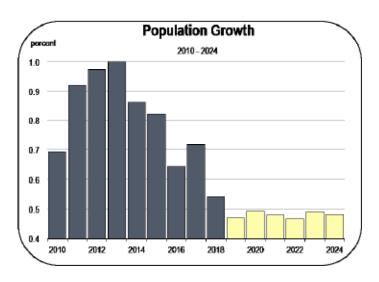
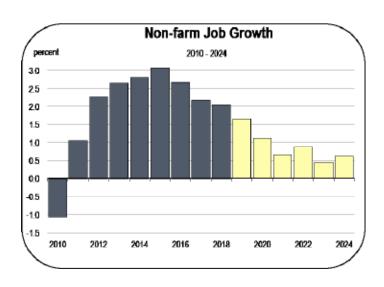
Forecast Summary

- 284,000 non-farm jobs will be created in California during 2019.
- Job growth will decelerate, and over the entire 2018–2024 period, an average of 156,000 new jobs per year are expected.
- Employment growth will be led by healthcare, professional business services, leisure and hospitality, and government.
 Together, these sectors will account for 79 percent of net job creation through 2024.
- Between 2018 and 2024, employment contractions are projected for manufacturing and retail trade. The risk of contraction is also elevated in wholesale trade.
- The unemployment rate averaged 4.2 percent in 2018, and is near its lowest sustainable level. The unemployment rate may begin to rise in 2020 or 2021.
- The population of California is expanding relatively slowly, and will expand even more slowly during the forecast period.
- Housing production has accelerated, but has not been sufficient to keep home prices from rising quickly, and housing affordability has become a major problem in parts of California.

Job Growth

 Job growth decelerated sharply between 2015 and 2018, and will decelerate further in 2019 and 2020.

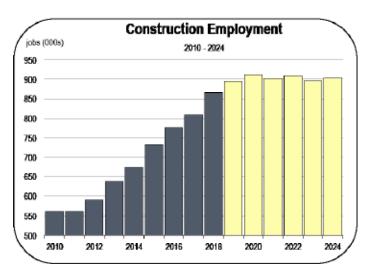


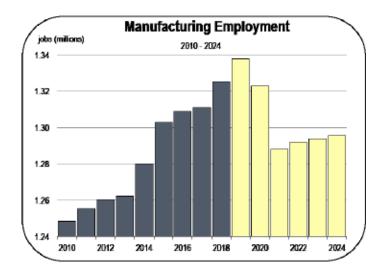


- The largest gains in 2018 were observed in professional business services (+80,000 jobs), private education and healthcare (+76,000 jobs), construction (+50,000 jobs), leisure and hospitality (+34,000 jobs), and transportation and warehousing (+32,000 jobs).
- The same industries are expected to produce the largest gains in 2019 as well.

Construction Employment

 Construction employment is increasing at a rapid rate as building projects continue to break ground across the state.

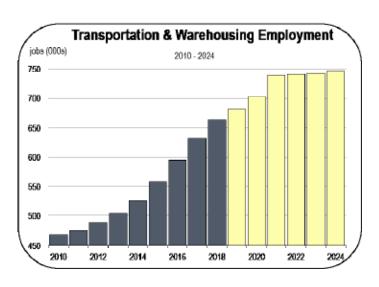




- Statewide, more than 114,000 new housing units were built in 2018 and more than \$32 billion was spent constructing and renovating non-residential structures.
- The peak of the building cycle is approaching, and construction employment may not increase substantially after 2020 or 2021.

Manufacturing Employment

• Employment in the California manufacturing sector has been expanding for several years and will expand further in 2019.



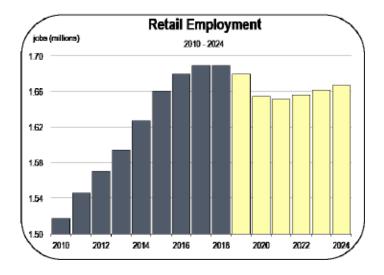
- After 2019, employment levels may begin to contract.
- New trade barriers, including tariffs, have been implemented in the U.S. and its major trading partners, which may reduce demand for manufacturing workers in California, a state that is highly connected to the global marketplace.
- The manufacturing sector is highly sensitive to changes in the business cycle, and if the economy falls into recession in 2020 or 2021, California manufacturing jobs may be lost.

Transportation and Warehousing Employment

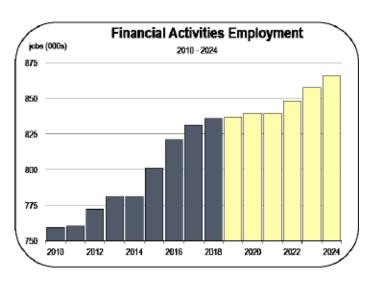
- The transportation and warehousing sector is expanding sharply.
 This industry accounts for four percent of the employment base in California, but has been responsible for seven percent of all job growth over the past five years.
- Logistics firms have been relocating to Inland Southern California, the Central Valley, and the Sacramento Valley, which have affordable real estate and are close to major ports and freeways.
- Logistics centers are becoming a more prominent part of the business landscape because consumers are buying more goods online, rather than in stores, and having them shipped directly to their homes. Firms like Amazon and Walmart are establishing large warehouses that store goods close to large consumer markets, allowing them to deliver these goods in short time periods.
- The transition to online shopping is also creating jobs at delivery firms like UPS and FedEx.
- Growth in this sector will slow down in 2019 and 2020. The risk
 of recession will increase, and the transportation/warehousing
 industry is highly susceptible to changes in the business cycle.

Retail Trade Employment

- Employment in the California retail sector did not change in 2018 and will begin to contract in 2019.
- The retail industry is being divided into three groups: stores that face heavy online competition, stores that don't, and online retailers themselves.



- In 2018, jobs were lost in sectors facing online competition:
 - Clothing stores
 - · Consumer electronics stores
 - Department stores (e.g. Macy's)
 - Office supply stores
- Jobs were gained at stores not yet facing strong online competition:
 - Car dealers
 - Gas stations
 - Warehouse supercenters (e.g. Costco).
- In 2018, more than 4,000 jobs were created at online retailers located in California.



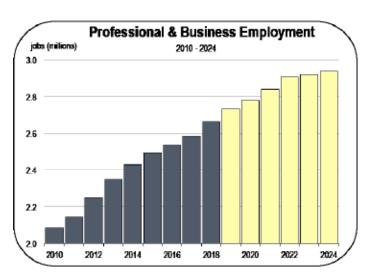
 In 2019 retail employment will being to contract as losses from brick-and-mortar stores outweigh gains at online retailers. This contraction is expected to continue for several years.

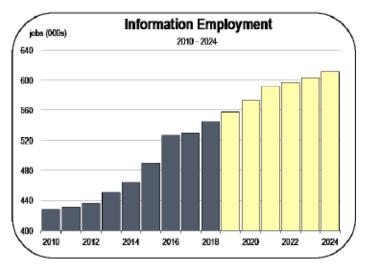
Financial Activities Employment

- The financial activities sector generated 5,000 new jobs last year.
- In the major business areas of the state, such as Los Angeles County and the San Francesco Bay Area, this sector contains money management firms and transaction-clearing businesses.
- In most counties of California, including entire regions like the Central Valley and Northern California, the financial activities sector is comprised almost entirely of banks and real estate firms.
- Local banks have been shedding jobs as the banking sector offers more online options and fewer customers utilize in-person services.
- Real estate companies have been expanding to accommodate an uptick in homebuilding and non-residential leasing activity.
- Slow growth is expected in 2020 or 2021, but contractions are possible if the housing market softens or the economy falls into recession.

Professional and Business Services Employment

 80,000 professional and business services jobs were created in 2018. Many were in high-paying sectors but some were in blue collar and service positions.

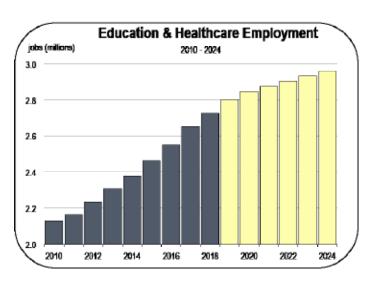




- Corporate and regional headquarters (22,000 jobs created in 2018)
- Business consulting firms (19,000 jobs)
- Temp agencies (16,000 jobs)
- Business security and maintenance contractors (14,000 jobs)
- IT consulting companies (14,000 jobs)
- Scientific research labs (12,000 jobs)
- Architecture and engineering firms (7,000 jobs)
- Accounting and bookkeeping services (5,000 jobs)
- Law firms (3,000 jobs)
- Job growth will decelerate over the forecast period, but this sector will still create more jobs than any other industry in the state.

Information Employment

 In many parts of California, the information sector is primarily comprised of newspapers, telecommunications firms, and movie theaters.



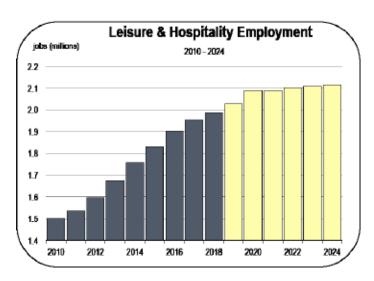
- In the major business sectors of Los Angeles County and the San Francisco Bay Area, the information sector is home to tech firms that build software, create online content platforms (e.g. YouTube), provide data services, and provide access to the internet.
- The information sector has created 108,000 jobs over the last five years, and virtually all have been in tech and data firms.
 Telecommunications companies, newspapers, and movie theaters have typically lost jobs across the state.
- Between 65,000 and 70,000 more jobs should be generated by 2024, almost exclusively in tech and data services.

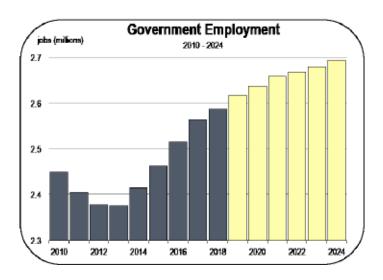
Private Education and Healthcare Employment

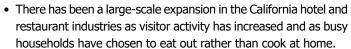
- This sector grew quickly for much of the last decade and more than 75,000 jobs were created in 2018.
- Gains have been widespread, with strength in doctors' offices, home health services, outpatient care centers, and facilities that serve the elderly and people with disabilities.
- The private education industry gained approximately 22,000 jobs in 2018 (public schools are included in the government sector).
- The future of the U.S. health insurance landscape is unknown, and legislative changes could influence job growth in this sector.

Leisure and Hospitality Employment

• The leisure and hospitality sector created 389,000 jobs between 2012 and 2018 and is expected to create 41,000 more in 2019.



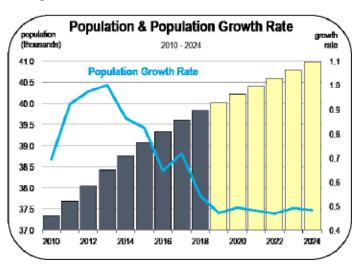


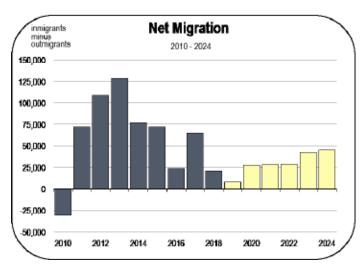


- After 2020, growth in the leisure sector may become more moderate, and this sector may be characterized by employment contraction if the economy falls into recession during the 2018– 2024 forecast period.
- The leisure industry is sensitive to changes in the minimum wage.
 As California's minimum wage rises to \$15 per hour by 2022, job growth could be impacted.

Government Employment

- Government agencies created 23,000 jobs in 2018 and will generate approximately 30,000 new jobs in 2019.
- Future employment levels will be determined by population growth and by the condition of federal, state, and local government budgets.



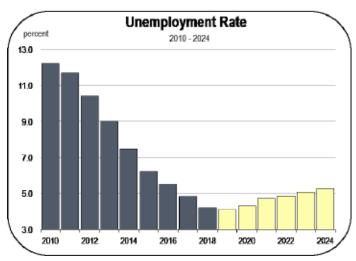


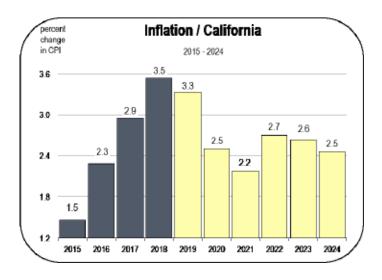
Population Growth

- The California population expanded by 0.5 percent in 2018.
- Net migration was low, adding 20,900 residents to the statewide population.
- Population growth is expected to average 0.5 percent per year between 2018 and 2024, and the state will approach 41 million residents by 2024.

Unemployment and Inflation Rates

- The unemployment rate in California was 4.2 percent in 2018, which is the lowest annual rate in at least 60 years.
- The unemployment rate is near its lowest sustainable level and may begin to rise in 2020 or 2021.
- Inflation accelerated in 2018 as home prices and energy costs increased across California.







• In 2019 and 2020, inflation is expected to be within a range of 2.0 percent and 3.5 percent.

New Housing Production

- From 2013 to 2018, an average of 99,500 new homes were permitted each year.
- Between 2019 and 2024, housing production is expected to average 116,200 units per year. Construction should be split fairly evenly between single-family and multifamily units.
- Development will be concentrated in the largest areas of the state, including Los Angeles County and the San Francisco Bay Area.

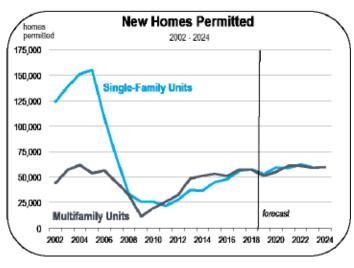
Home Prices

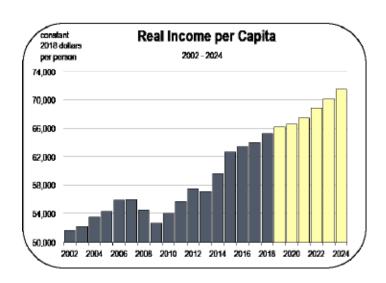
• Home prices in California have increased rapidly in recent years, and the median home price has now exceeded \$590,000.

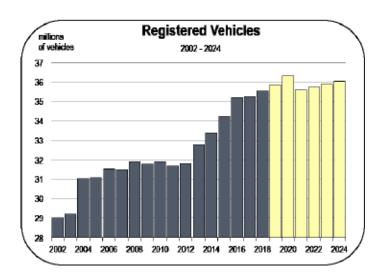
- Housing affordability has become a major problem along the coastal areas of the state. Homebuilding has not been sufficient to keep pace with population growth, and the typical household now spends between 35 percent and 50 percent of its income on housing costs.
- Homes are much more affordable in the central, eastern, and northern regions of California. In these places, the typical household spends less than 25 percent of income on housing costs.

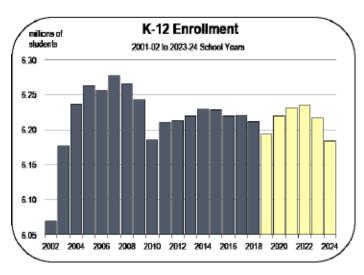
Income per Capita

- Income per capita in California was \$65,200 in 2018.
- Over the last six years, real income per capita has risen at a rate of 2.1 percent per year.
- Over the next six years, real income per capita is expected to increase by an average of 1.5 percent per year.









Registered Vehicles

- There were 35.6 million registered vehicles in California in 2018.
- By 2024, it is expected that the state will have 36.0 million registered vehicles.

Public School Enrollment

- In California, approximately 6.21 million students were enrolled in K-12 public schools in 2018.
- By 2024, there are expected to be 6.18 million enrolled students.
 Enrollment will decline because the population aged 5 to 17 will decline.

Economic In	2015-20	15-2018 History, 2019-2050 Forecast					
House- Population holds (people) (millions)	Average Household New Homes Income Permitted (dollars) (homes)	Vehicles Inco	Taxable sonal Retail ome Sales ions) (billions)	Local Real Sales Industria Tax Production (billions) (billions	on Income	School Enrollment Births (millions) (people)	Deaths (people)
2015 39,076,128 12.8 2016 39,328,337 12.9 2017 39,610,556 12.9 2018 39,825,181 13.0 2019 40,012,386 13.1 2020 40,209,730 13.2 2021 40,402,830 13.3 2022 40,591,810 13.4 2023 40,791,200 13.5 2024 40,988,040 13.6 2025 41,167,990 13.8 2026 41,349,810 13.9 2027 41,534,900 14.0 2028 41,709,580 14.1 2029 41,887,850 14.2 2030 42,066,860 14.3 2031 42,235,540 14.4 2032 42,392,790 14.6 2033 42,240,380 14.7 2034 42,685,110 14.8 2035 42,967,620 15.0 2037 43,106,580 15.1 2038 <td< td=""><td>\$175,495 98,073 \$180,955 98,881 \$188,615 112,886 \$199,655 114,370 \$208,507 103,712 \$214,140 114,313 \$220,811 119,425 \$230,463 122,839 \$239,874 118,040 \$249,800 119,069 \$258,879 120,964 \$267,740 119,426 \$277,141 121,157 \$286,740 119,426 \$277,141 121,157 \$286,740 123,505 \$294,618 122,281 \$302,625 120,365 \$310,659 118,395 \$318,323 116,877 \$326,656 114,126 \$335,397 112,407 \$353,873 109,274 \$363,613 107,870 \$373,734 105,882 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$394,664 101,892 \$405,243 99,559 \$415,888 97,098 \$426,592 94,771 \$437,398 93,280 \$448,221 92,072 \$459,019 90,859 \$469,771 89,726 \$480,779 88,614 \$492,065 87,514 \$503,643 86,450</td><td>34.2 \$2 35.2 \$2 35.3 \$2 35.6 \$2 35.9 \$2 36.3 \$2 35.6 \$2 35.7 \$3 36.0 \$3 36.2 \$3 36.5 \$3 36.7 \$3 36.9 \$4 37.1 \$4 37.4 \$4 37.6 \$4 37.8 \$4 37.8 \$4 38.1 \$4 38.3 \$5 38.7 \$5 38.7 \$5 39.0 \$5 39.2 \$5 39.4 \$5 39.9 \$6 40.1 \$6 40.3 \$6 40.5 \$6 40.8 \$7 41.0 \$7 41.2 \$7 41.6 \$8 41.9 \$8</td><td>2.3 \$447.9 2.4 \$465.4 2.6 \$480.2 2.7 \$492.8 2.8 \$508.5 2.9 \$521.5 3.1 \$537.1 3.2 \$555.8 3.4 \$570.7 3.6 \$584.5 3.7 \$598.2 3.9 \$611.5 3.0 \$625.5 3.1 \$625.5 3.2 \$640.3 3.3 \$654.8 3.5 \$669.0 3.6 \$684.8 3.7 \$799.6 3.8 \$698.3 3.9 \$713.4 3.1 \$729.6 3.3 \$749.0 3.5 \$769.7 3.7 \$789.4 3.9 \$811.2 3.1 \$832.7 3.3 \$853.2 3.7 \$893.2 3.9 \$911.7 3.1 \$932.4 3.3 \$952.6 3.9 \$911.7 3.1 \$932.4 3.3 \$952.6 3.9 \$911.7 3.1 \$932.4 3.3 \$952.6 3.9 \$911.7 3.1 \$932.4 3.3 \$952.6 3.5 \$973.2 3.7 \$994.3 3.0 \$1,015.9</td><td>\$26 \$417.5 \$27 \$419.6 \$28 \$436.3 \$29 \$449.5 \$30 \$456.5 \$31 \$456.5 \$31 \$463.8 \$32 \$472.7 \$33 \$482.4 \$34 \$492.5 \$36 \$510.6 \$37 \$520.6 \$37 \$520.6 \$38 \$534.6 \$40 \$545.5 \$41 \$546.7 \$46 \$569.7 \$46 \$569.7 \$47 \$573.1 \$49 \$575.3 \$50 \$577.5 \$50 \$577.5 \$50 \$577.6 \$58 \$600.1 \$60 \$602.6 \$61 \$604.6 \$62 \$607.2</td><td>\$63,394 \$64,010 \$65,231 \$65,231 \$65,66,611 \$65,66,611 \$65,66,611 \$75,0113 \$70,113 \$77,743 \$77,743 \$77,743 \$77,761 \$77,761 \$77,761 \$77,761 \$77,761 \$77,761 \$77,761 \$77,891 \$79,880 \$79,880 \$80,670 \$81,426 \$81,426 \$81,840 \$82,786 \$83,211 \$82,786 \$83,211 \$82,786 \$84,309 \$85,678 \$85,678 \$85,678 \$85,678 \$88,7165 \$88,748</td><td>6.2 491,748 6.2 488,827 6.2 471,658 6.2 454,920 6.2 450,935 6.2 454,151 6.2 457,189 6.2 460,581 6.2 463,001 6.1 464,250 6.1 470,076 6.0 473,782 6.0 483,034 5.9 485,735 5.9 486,982 5.9 490,585 5.8 494,001 5.8 497,999 5.8 499,968 5.8 502,821 5.9 503,486 5.9 503,486 5.9 500,585 5.9 496,833 5.9 493,253 6.0 494,353 6.0 494,353 6.0 495,632 6.0 496,337 6.1 497,165 6.1 498,002</td><td>262,240 268,189 275,409 281,185 283,834 289,084 296,399 303,695 310,905 318,565 325,938 333,626 341,754 350,188 359,263 368,127 377,020 385,933 394,606 403,862 412,421 420,453 428,247 435,725 448,338 453,645 448,375 448,388 453,645 464,575 471,020 476,385 480,678 484,398 487,764</td></td<>	\$175,495 98,073 \$180,955 98,881 \$188,615 112,886 \$199,655 114,370 \$208,507 103,712 \$214,140 114,313 \$220,811 119,425 \$230,463 122,839 \$239,874 118,040 \$249,800 119,069 \$258,879 120,964 \$267,740 119,426 \$277,141 121,157 \$286,740 119,426 \$277,141 121,157 \$286,740 123,505 \$294,618 122,281 \$302,625 120,365 \$310,659 118,395 \$318,323 116,877 \$326,656 114,126 \$335,397 112,407 \$353,873 109,274 \$363,613 107,870 \$373,734 105,882 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$384,125 103,228 \$394,664 101,892 \$405,243 99,559 \$415,888 97,098 \$426,592 94,771 \$437,398 93,280 \$448,221 92,072 \$459,019 90,859 \$469,771 89,726 \$480,779 88,614 \$492,065 87,514 \$503,643 86,450	34.2 \$2 35.2 \$2 35.3 \$2 35.6 \$2 35.9 \$2 36.3 \$2 35.6 \$2 35.7 \$3 36.0 \$3 36.2 \$3 36.5 \$3 36.7 \$3 36.9 \$4 37.1 \$4 37.4 \$4 37.6 \$4 37.8 \$4 37.8 \$4 38.1 \$4 38.3 \$5 38.7 \$5 38.7 \$5 39.0 \$5 39.2 \$5 39.4 \$5 39.9 \$6 40.1 \$6 40.3 \$6 40.5 \$6 40.8 \$7 41.0 \$7 41.2 \$7 41.6 \$8 41.9 \$8	2.3 \$447.9 2.4 \$465.4 2.6 \$480.2 2.7 \$492.8 2.8 \$508.5 2.9 \$521.5 3.1 \$537.1 3.2 \$555.8 3.4 \$570.7 3.6 \$584.5 3.7 \$598.2 3.9 \$611.5 3.0 \$625.5 3.1 \$625.5 3.2 \$640.3 3.3 \$654.8 3.5 \$669.0 3.6 \$684.8 3.7 \$799.6 3.8 \$698.3 3.9 \$713.4 3.1 \$729.6 3.3 \$749.0 3.5 \$769.7 3.7 \$789.4 3.9 \$811.2 3.1 \$832.7 3.3 \$853.2 3.7 \$893.2 3.9 \$911.7 3.1 \$932.4 3.3 \$952.6 3.9 \$911.7 3.1 \$932.4 3.3 \$952.6 3.9 \$911.7 3.1 \$932.4 3.3 \$952.6 3.9 \$911.7 3.1 \$932.4 3.3 \$952.6 3.5 \$973.2 3.7 \$994.3 3.0 \$1,015.9	\$26 \$417.5 \$27 \$419.6 \$28 \$436.3 \$29 \$449.5 \$30 \$456.5 \$31 \$456.5 \$31 \$463.8 \$32 \$472.7 \$33 \$482.4 \$34 \$492.5 \$36 \$510.6 \$37 \$520.6 \$37 \$520.6 \$38 \$534.6 \$40 \$545.5 \$41 \$546.7 \$46 \$569.7 \$46 \$569.7 \$47 \$573.1 \$49 \$575.3 \$50 \$577.5 \$50 \$577.5 \$50 \$577.6 \$58 \$600.1 \$60 \$602.6 \$61 \$604.6 \$62 \$607.2	\$63,394 \$64,010 \$65,231 \$65,231 \$65,66,611 \$65,66,611 \$65,66,611 \$75,0113 \$70,113 \$77,743 \$77,743 \$77,743 \$77,761 \$77,761 \$77,761 \$77,761 \$77,761 \$77,761 \$77,761 \$77,891 \$79,880 \$79,880 \$80,670 \$81,426 \$81,426 \$81,840 \$82,786 \$83,211 \$82,786 \$83,211 \$82,786 \$84,309 \$85,678 \$85,678 \$85,678 \$85,678 \$88,7165 \$88,748	6.2 491,748 6.2 488,827 6.2 471,658 6.2 454,920 6.2 450,935 6.2 454,151 6.2 457,189 6.2 460,581 6.2 463,001 6.1 464,250 6.1 470,076 6.0 473,782 6.0 483,034 5.9 485,735 5.9 486,982 5.9 490,585 5.8 494,001 5.8 497,999 5.8 499,968 5.8 502,821 5.9 503,486 5.9 503,486 5.9 500,585 5.9 496,833 5.9 493,253 6.0 494,353 6.0 494,353 6.0 495,632 6.0 496,337 6.1 497,165 6.1 498,002	262,240 268,189 275,409 281,185 283,834 289,084 296,399 303,695 310,905 318,565 325,938 333,626 341,754 350,188 359,263 368,127 377,020 385,933 394,606 403,862 412,421 420,453 428,247 435,725 448,338 453,645 448,375 448,388 453,645 464,575 471,020 476,385 480,678 484,398 487,764
Employment Total Wage & Salary Far	Mani		2015-20 Wholesale & Finar Retail Trade Activ (thousands of jobs	ities Services	Heal	Ith &	overnment
2016 16,905 4 2017 17,258 4 2018 17,605 4	22 732 1,i 25 776 1,i 22 810 1,i 24 865 1,i	09 595 11 632 25 664	2,372 8: 2,385 8: 2,388 8:	01 2,493 21 2,534 31 2,584 36 2,664	527 2, 530 2, 544 2.	,465 1,828 ,553 1,901 ,651 1,952 ,727 1,986	2,463 2,516 2,564 2,587
2019 17,899 4 2020 18,088 4 2021 18,206 4 2022 18,360 4 2022 18,360 4 2023 18,440 4 2024 18,551 4 2025 18,664 4 2026 18,773 4 2027 18,887 4 2028 18,997 4 2028 18,997 4 2029 19,103 4 2030 19,206 4 2031 19,309 4 2031 19,309 4 2032 19,413 4 2033 19,513 4 2034 19,616 4 2035 19,719 4 2036 19,825 4	34 895 1, 29 912 1, 31 901 1, 32 909 1, 32 897 1, 32 903 1, 32 907 1, 33 909 1, 33 920 1, 33 920 1, 33 920 1, 34 935 1, 34 935 1, 35 942 1, 35 942 1, 35 946 1, 35 946 1, 35 956 1, 36 961 1,	38 681 23 702 88 739 992 741 994 743 996 746 002 748 008 751 113 753 118 755 22 756 25 757 27 758 30 760 32 761 334 762 337 764 339 765 41 766 43 768 445 769 447 770 448 772 550 773 552 775	2,375 8. 2,355 8. 2,353 8. 2,361 8. 2,368 2,375 8. 2,391 8. 2,395 8. 2,405 9. 2,415 9. 2,424 9. 2,433 9. 2,441 9. 2,450 9. 2,458 9. 2,467 9. 2,475 9.	37 2,736 40 2,778 40 2,843 48 2,908 58 2,918 65 2,938 73 2,956 81 2,974 91 2,991 00 3,009 09 3,027 18 3,045 26 3,063 34 3,081 42 3,100 49 3,118 566 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,137 65 3,138 81 3,212 87 3,231 92 3,250 97 3,270 02 3,289 07 3,270 02 3,289 07 3,309 11 3,328 15 3,348 19 3,368 19 3,368	557 2, 573 2, 591 2, 597 2, 603 2, 611 2, 618 2, 625 3, 631 3, 636 3, 641 3, 647 3, 652 3, 658 3.	,804 2,027 ,850 2,088 ,879 2,090 ,907 2,100 ,934 2,108 ,962 2,115 ,991 2,126 ,016 2,139 ,041 2,151 ,060 2,163 ,084 2,175 ,106 2,186 ,129 2,198 ,153 2,210 ,176 2,222 ,199 2,233 ,223 2,245 ,246 2,256 ,270 2,268 ,295 2,279 ,319 2,290 ,344 2,301 ,369 2,313 ,394 2,324 ,420 2,335 ,445 2,346 ,471 2,357 ,497 2,368 5,523 2,378 5,49 2,389	2,617 2,637 2,658 2,667 2,680 2,694 2,709 2,722 2,736 2,749 2,762 2,775 2,788 2,801 2,814 2,827 2,840 2,853 2,866 2,893 2,906 2,934 2,947 2,961 2,975 2,989 3,003 3,017 3,031

Socioeconomic Indicators

