Colorado Municipal League COVID Economic Discussion What we know thus far



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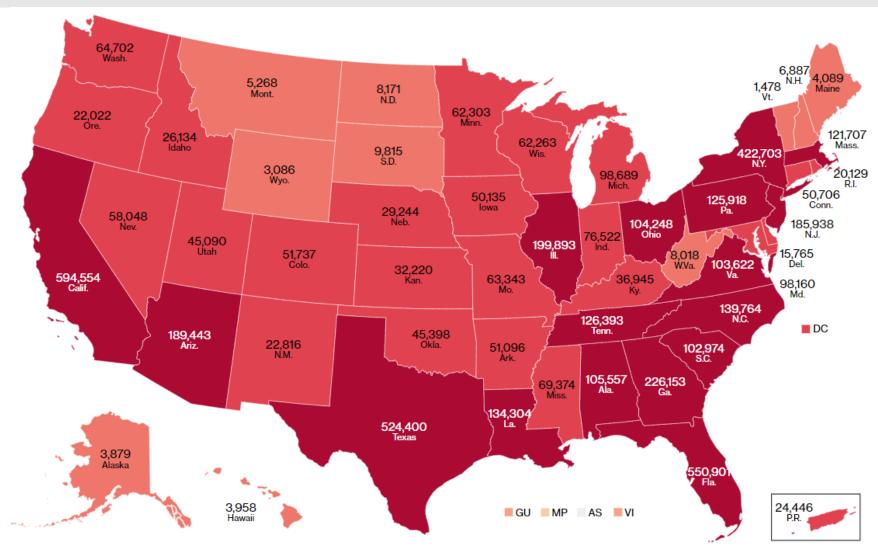


Overview

- Resurgence in domestic cases
- Economy was on a strong footing prior to COVID-19
- CARES Act and Federal Reserve helped mitigate the impact
- Industries disproportionately impacted
- Don't be fooled by the employment numbers
- Colorado outperforming early in the recovery
- Structural changes (e.g., Work From Home, Retail, Migration)



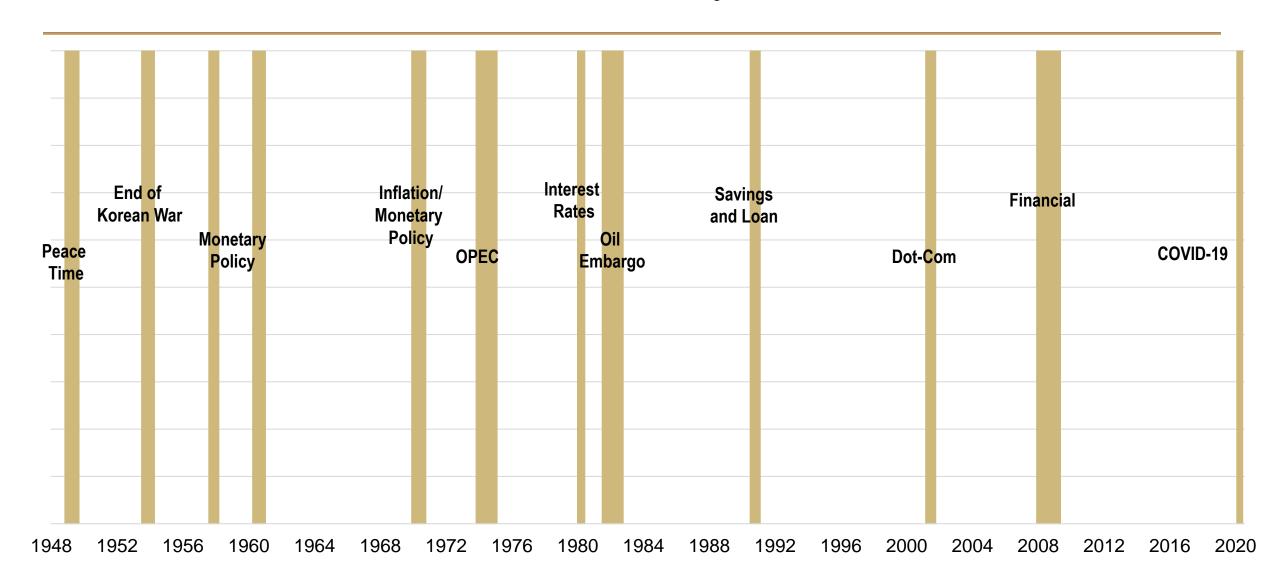
Confirmed COVID-19 Cases by State





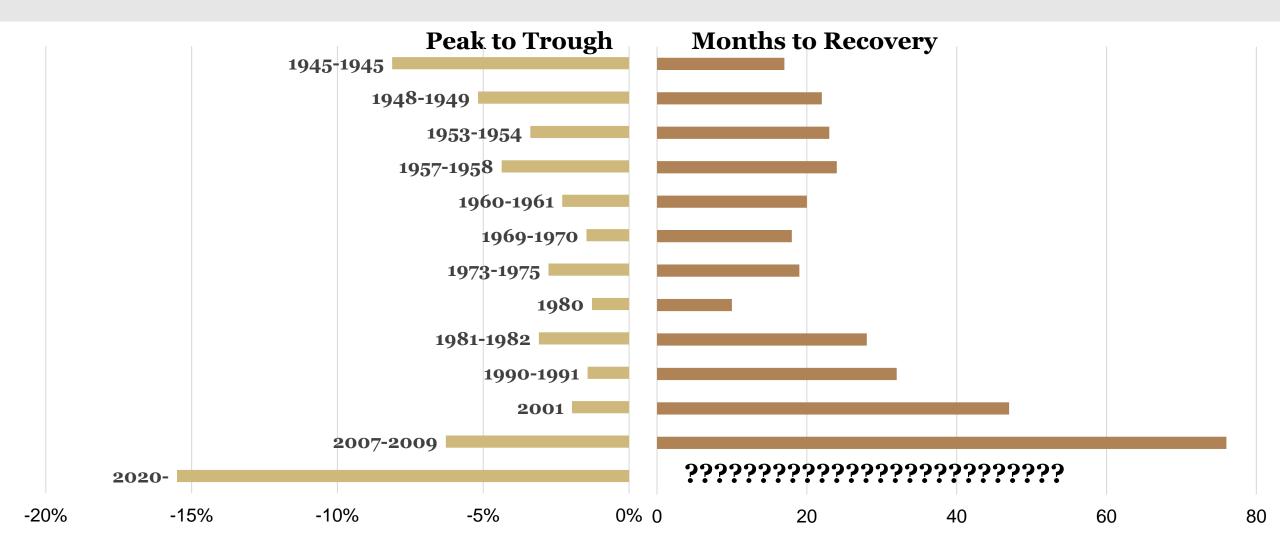
Source: Bloomberg.

Business Cycle



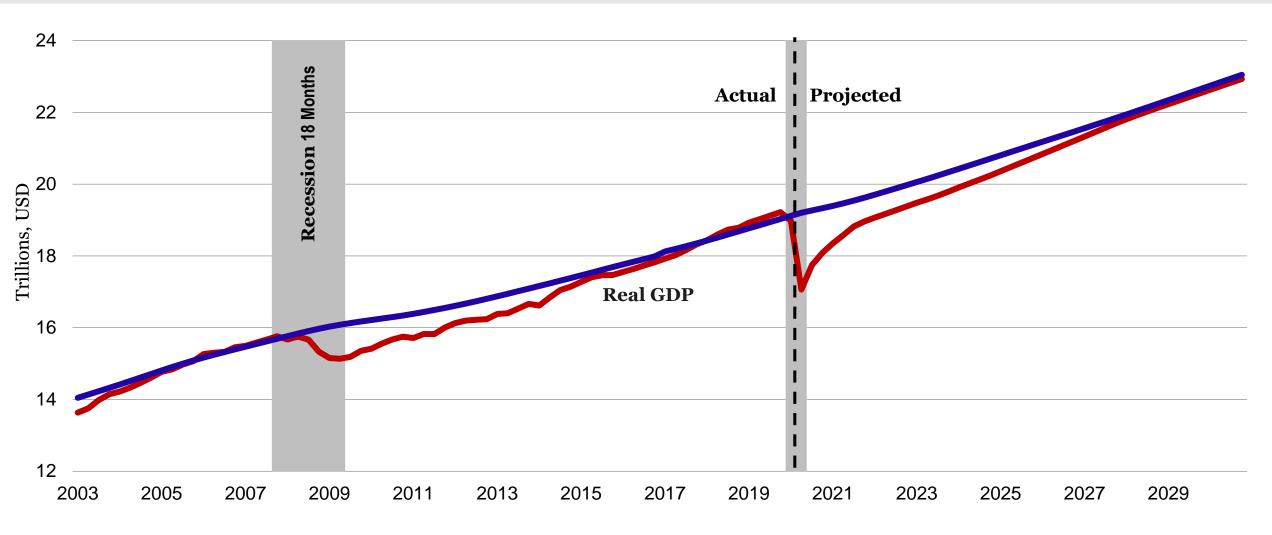


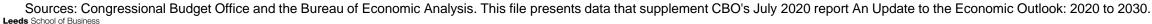
Employment Loss and Recovery





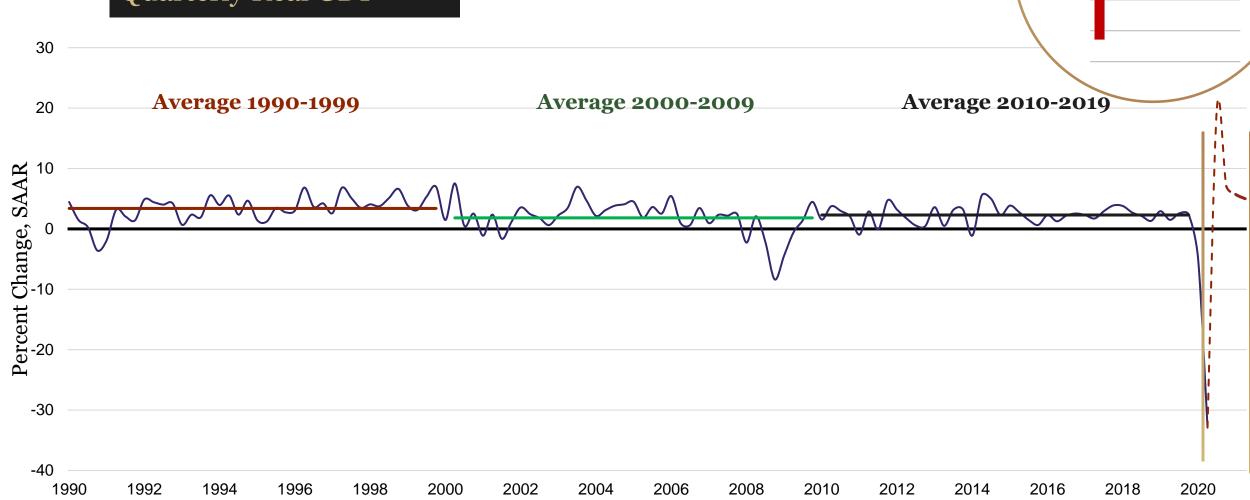
Real GDP and Potential GDP





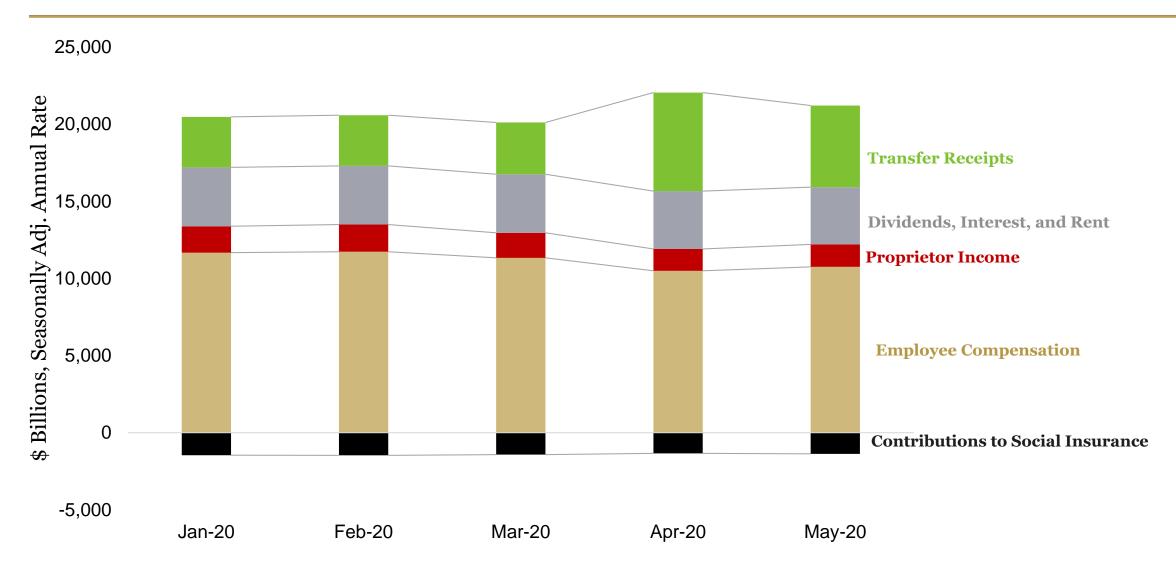
Real GDP Growth







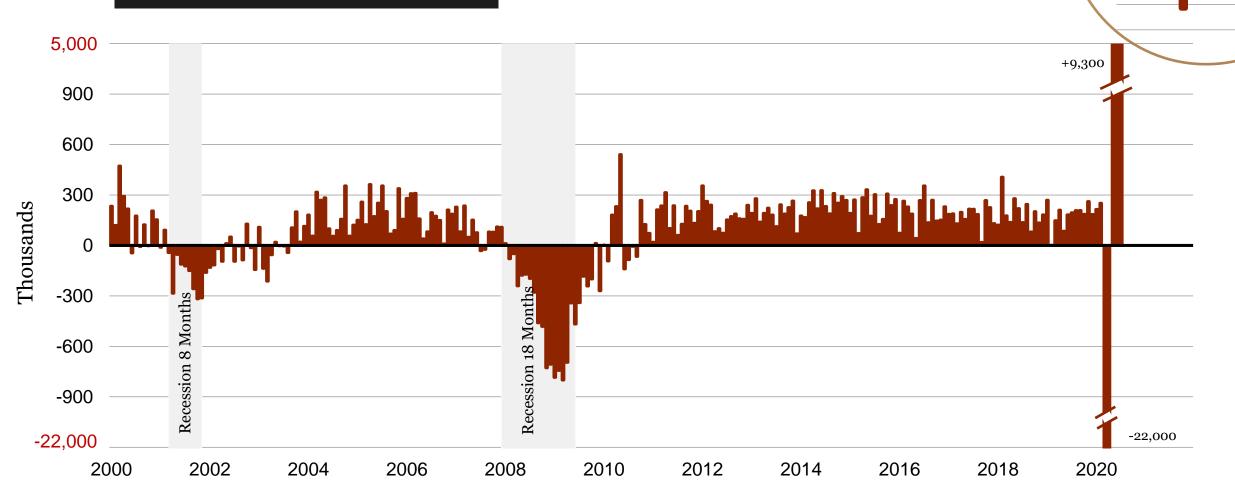
Personal Income





National Employment

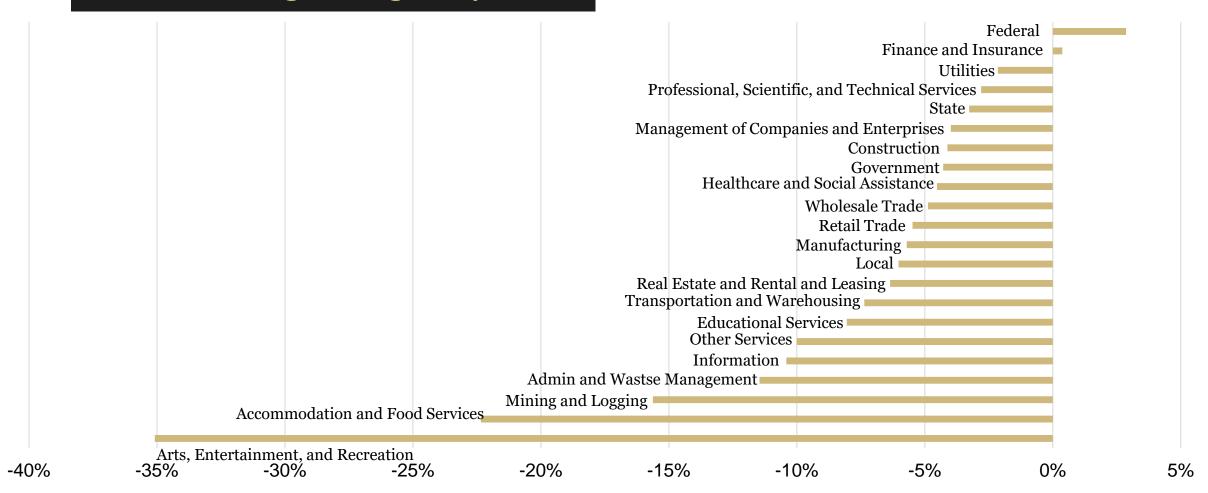
Month-over-Month Change





Employment Growth

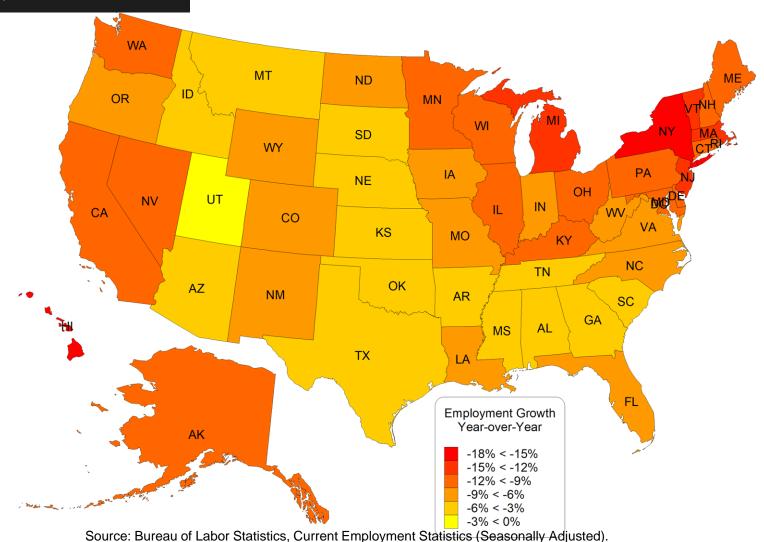
1-Year Percentage Change, July 2020





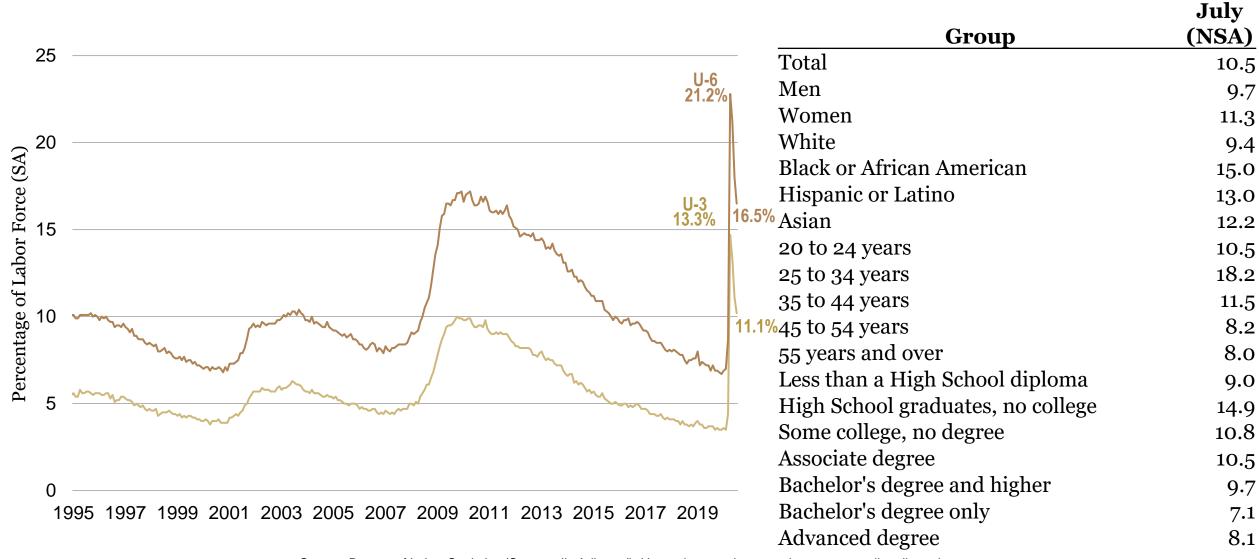
Employment Growth

1-Year Growth, June 2020



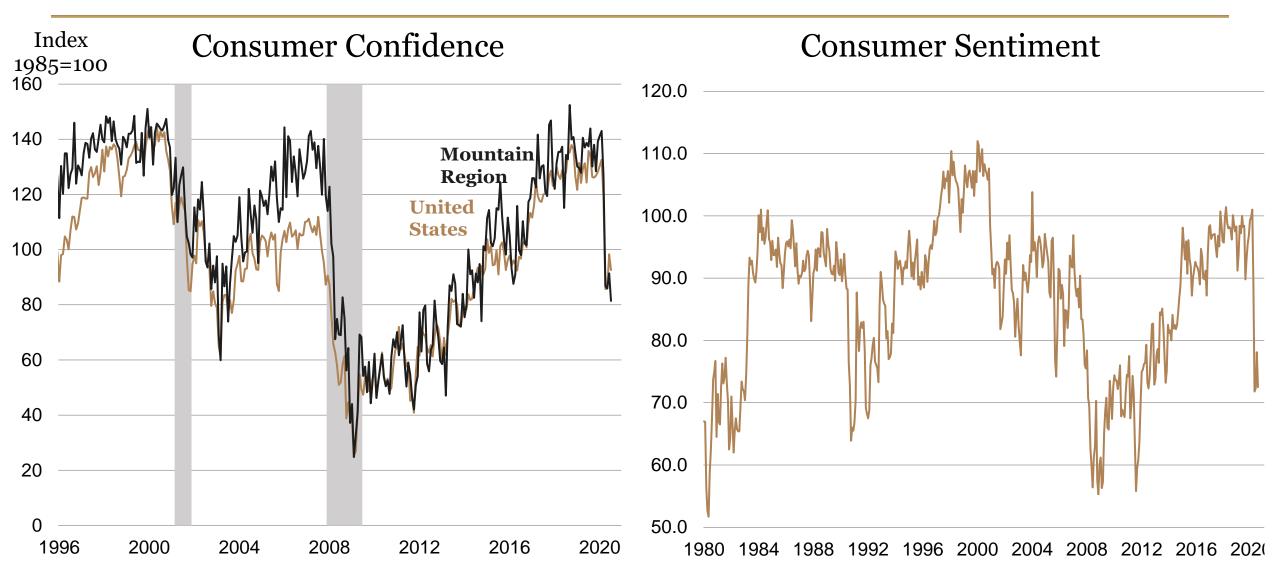


Labor Underutilization



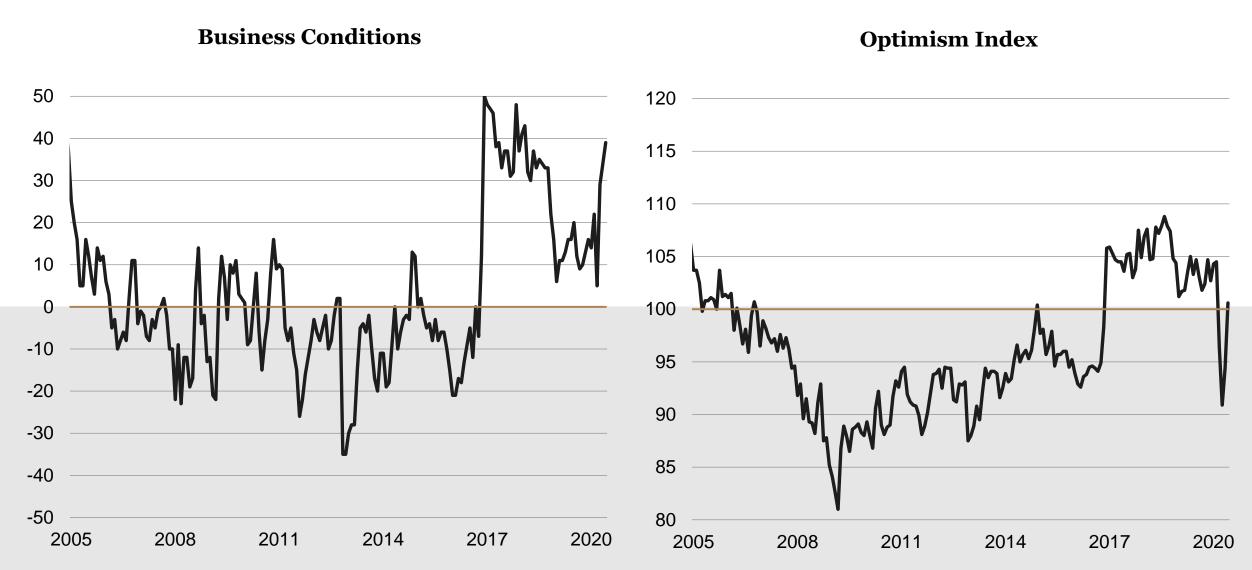


Index of Consumer Confidence





Small Business Outlook

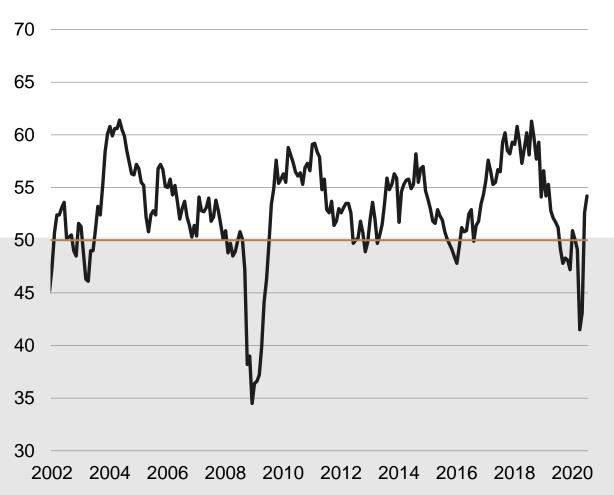




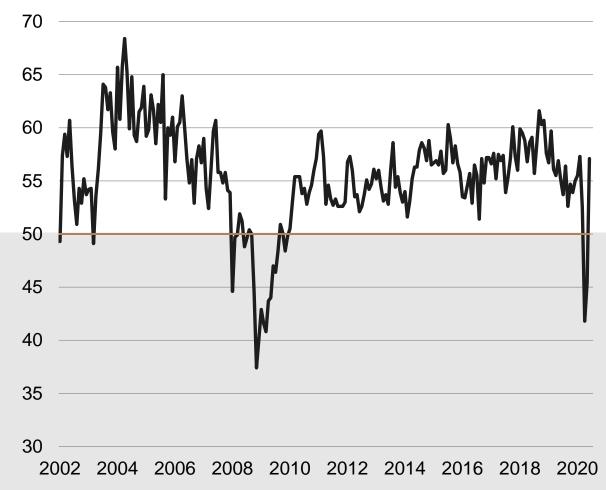
ISM Indices

ISM Manufacturing Index

15M Manufacturing index

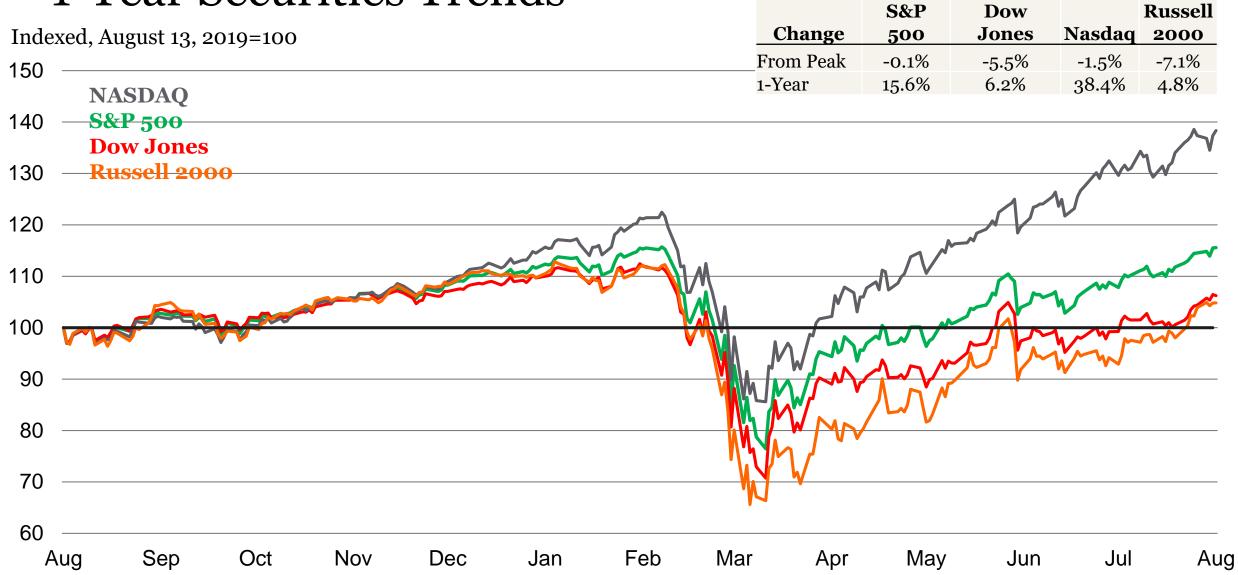


ISM Non-Manufacturing Index



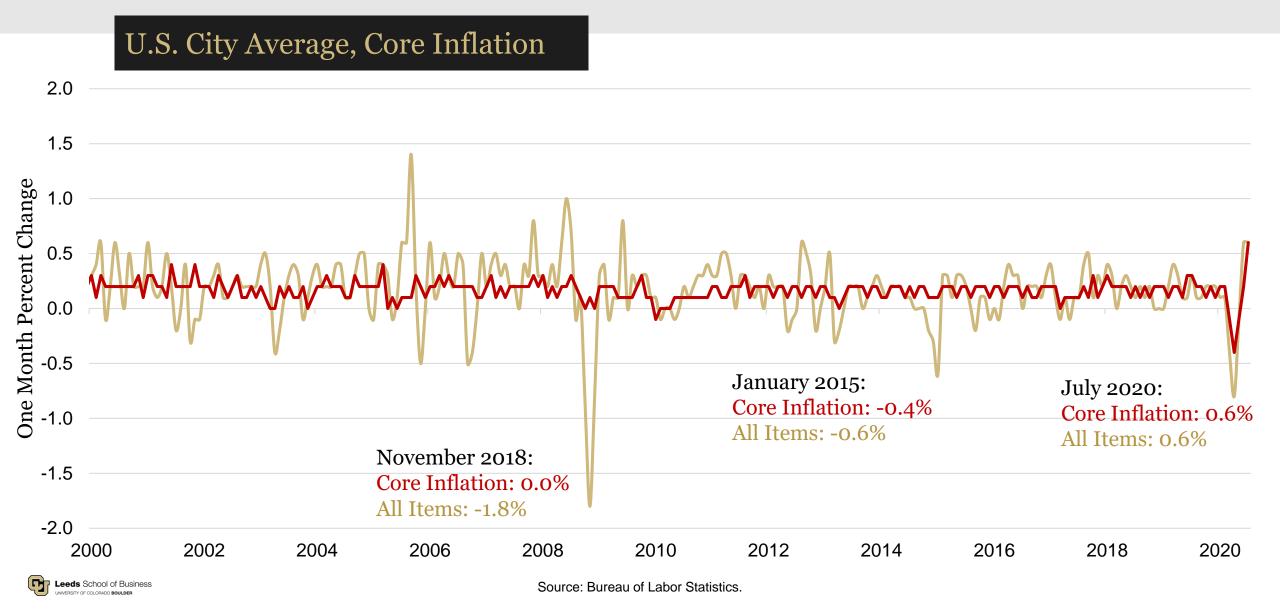


1-Year Securities Trends



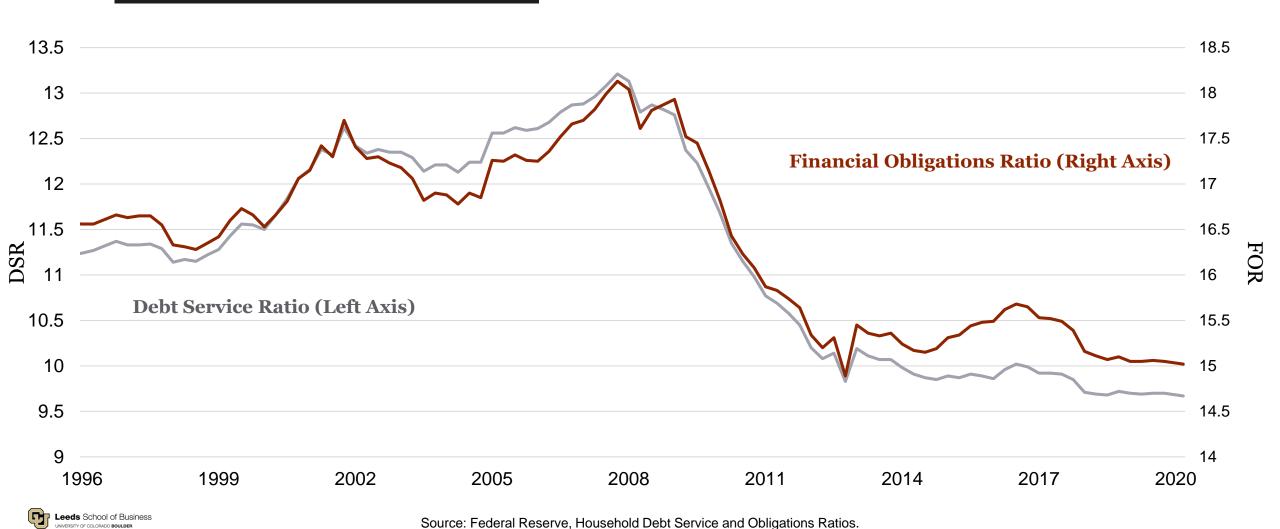


Consumer Price Index

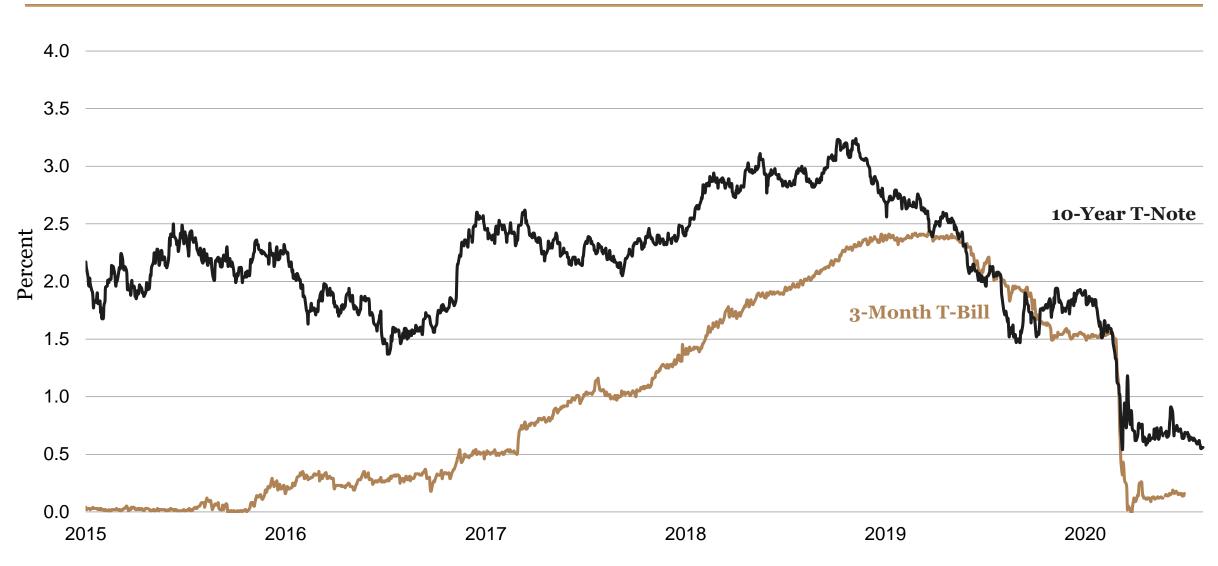


Household Debt Burden

Percent of Disposable Income

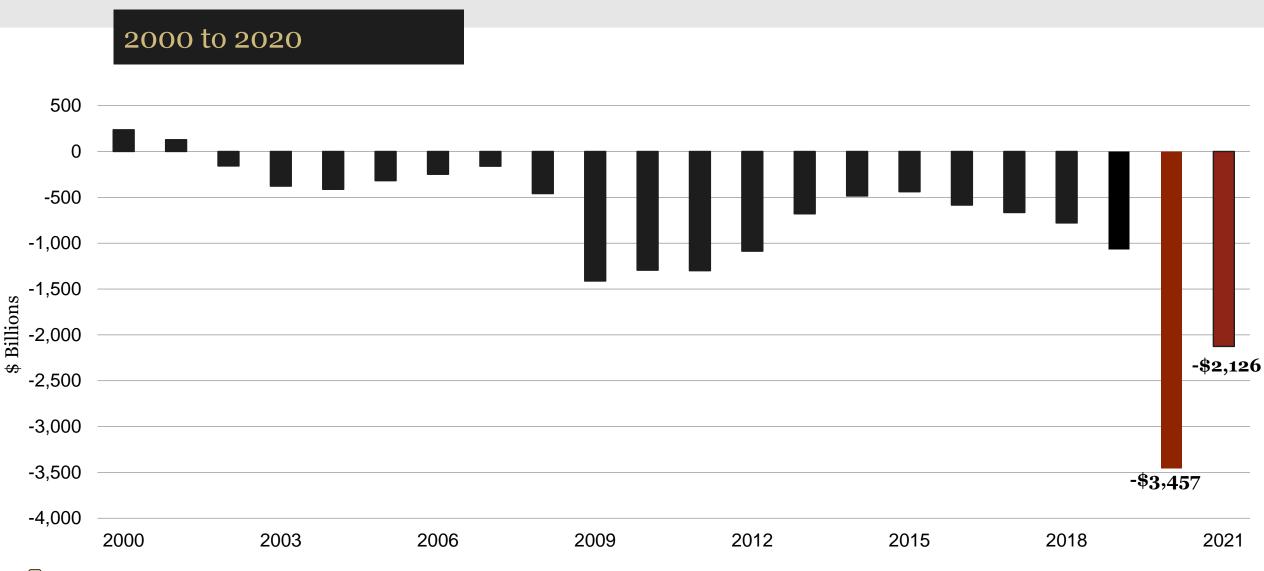


Interest Rates



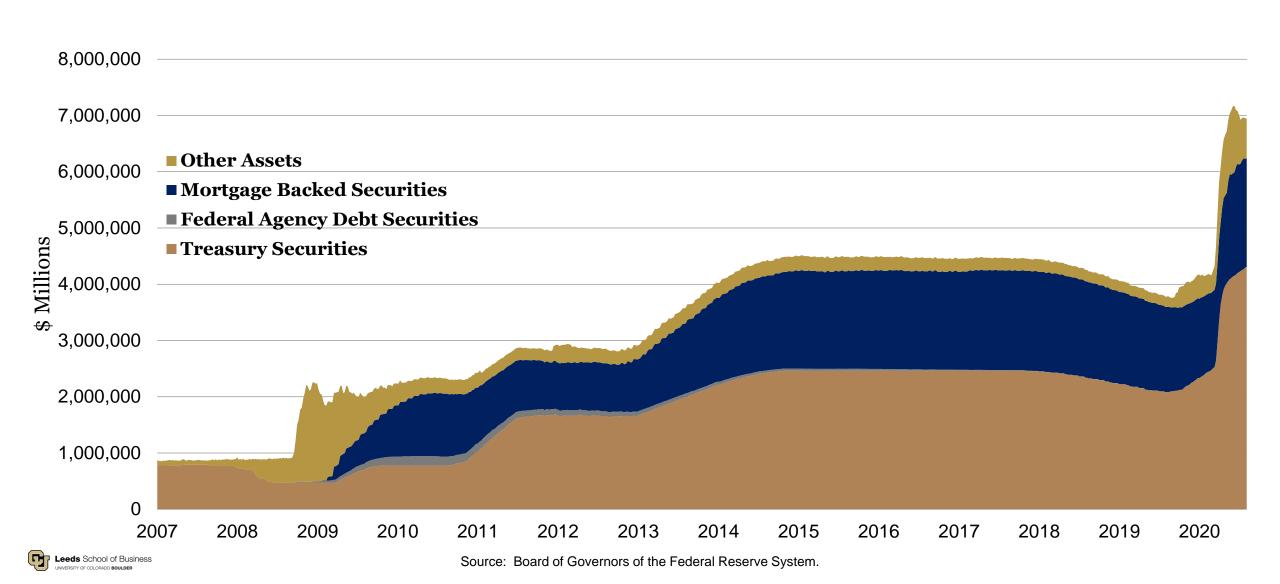


Federal Budget Balance





The FED





Colorado Impact

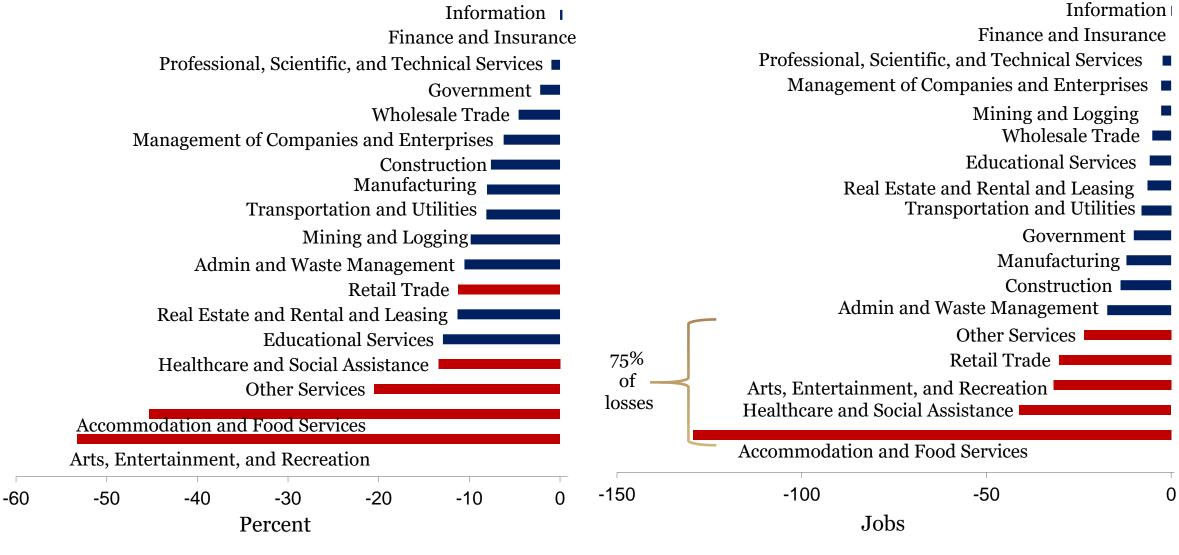


Colorado Among Other States

<u>Metric</u>	<u>1-Year</u>	3-Year	<u>5-Year</u>	10-Year
Real GDP Growth	7	5	6	6
Employment Growth	18	9	8	4
Population Growth	7	7	8	3
Personal Income Growth	23	4	8	2
PCPI Growth	39	5	13	NA
PCPI	11	13	13	NA
Average Annual Pay % Growth	5	5	8	13
Average Annual Pay	9	11	13	11
Unemployment Rate*	35	14	7	27
Labor Force % Growth	10	3	3	3
LFPR	5	5	9	14
FHFA Home Price Index Growth	17	9	5	2

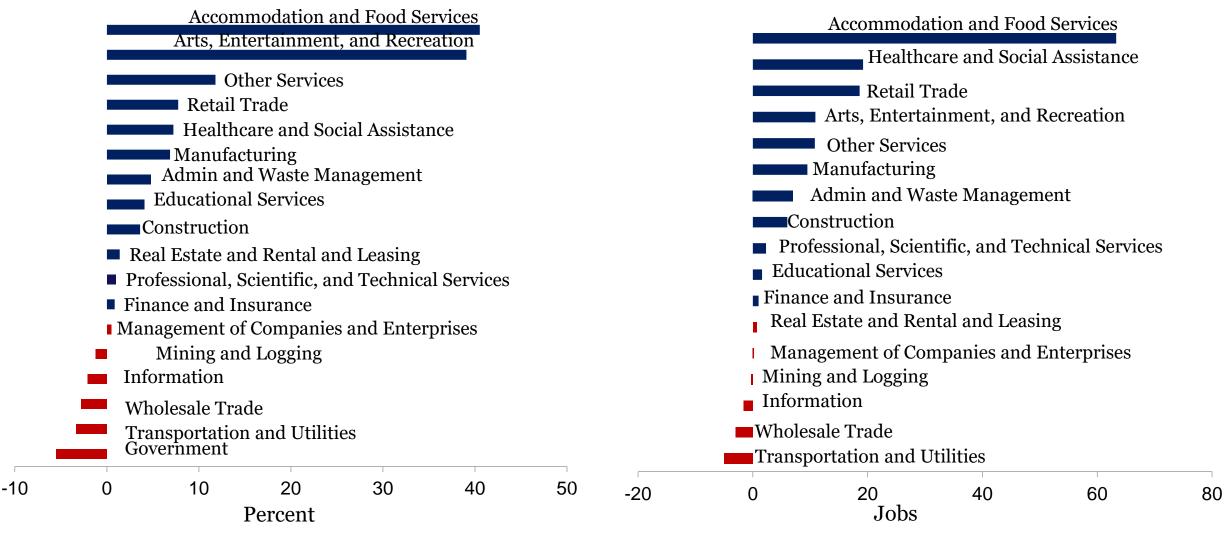


Colorado Employment Change—March + April





Colorado Employment Change—May + June





Colorado Wages

Q4 2019

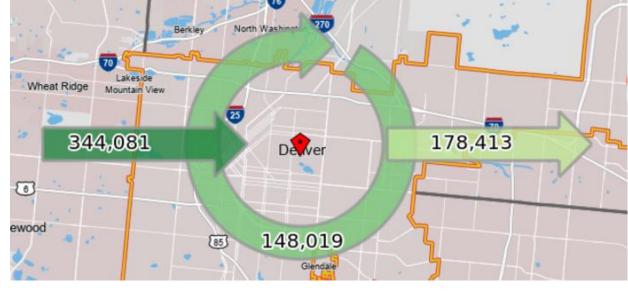
-\$1B for every 16,200 jobs

22.6% of employment 13.3% of total wages

Total Share of **Employment** Sector **Average Wages Employment** (Thousands) **Above Average Total** 1.122 41.0% \$89,130 Management of companies and enterprises 42 1.5% \$148,552 Utilities 0.3% \$110,324 8 2.8% \$109,410 Information 76 Professional and technical services 235 8.6% \$103,235 Finance and insurance 113 4.1% \$101,795 **Natural Resources and Mining** 1.8% 48 \$90.350 Wholesale trade 110 4.0% \$90,319 Federal Government 53 1.9% \$85.527 5.5% \$73.939 Manufacturing 150 State Government 107 3.9% \$67,461 6.5% \$64.625 Construction 179 2.736 100.0% \$61.816 **All Industries** Real estate and rental and leasing 54 2.0% \$61,338 3.0% Transportation and warehousing \$58,809 Health care and social assistance 11.1% 304 \$52,720 **Local Government** 268 9.8% \$50,289 Administrative and waste services 162 5.9% \$45,866 **Educational services** 38 1.4% \$42.492 85 3.1% \$42,367 Other services, except public administration 2.2% Arts, entertainment, and recreation 59 \$38,357 Retail trade 272 9.9% \$33,797 Accommodation and food services 286 10.5% \$24,813 **Below Average Total** 1.611 58.9% \$42,774

Daily Commute

Denver County



-14.4B Personal income outflow

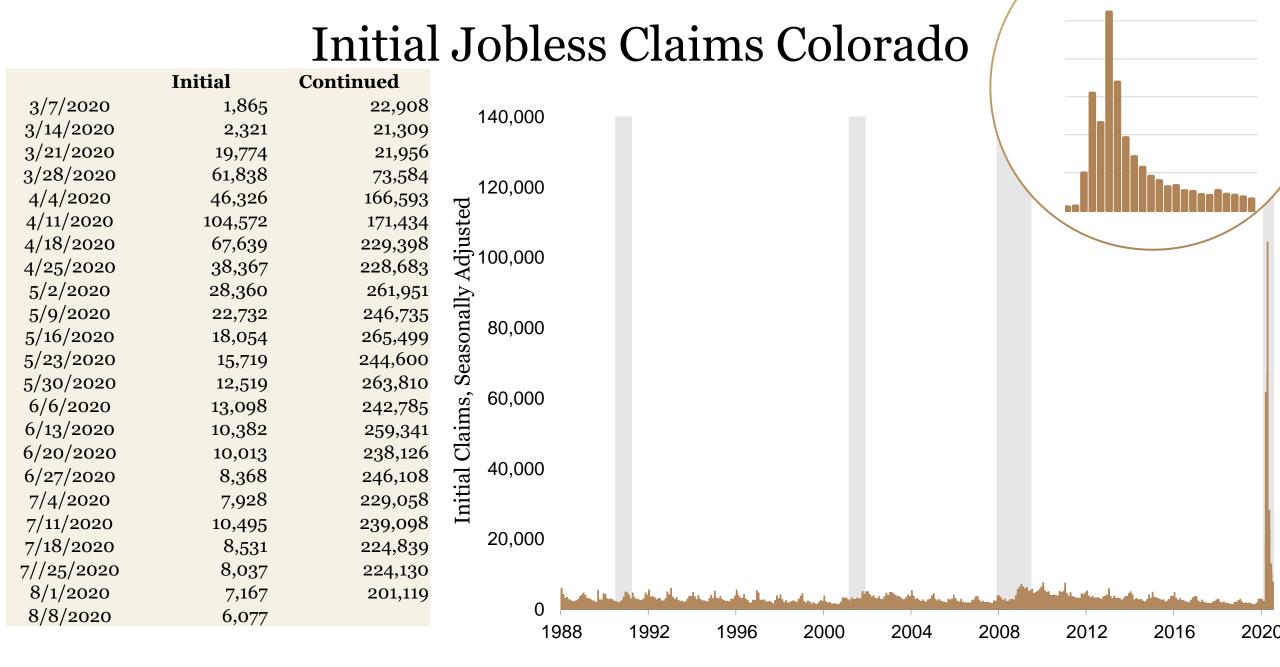
Douglas County



\$8.6B Personal income inflow

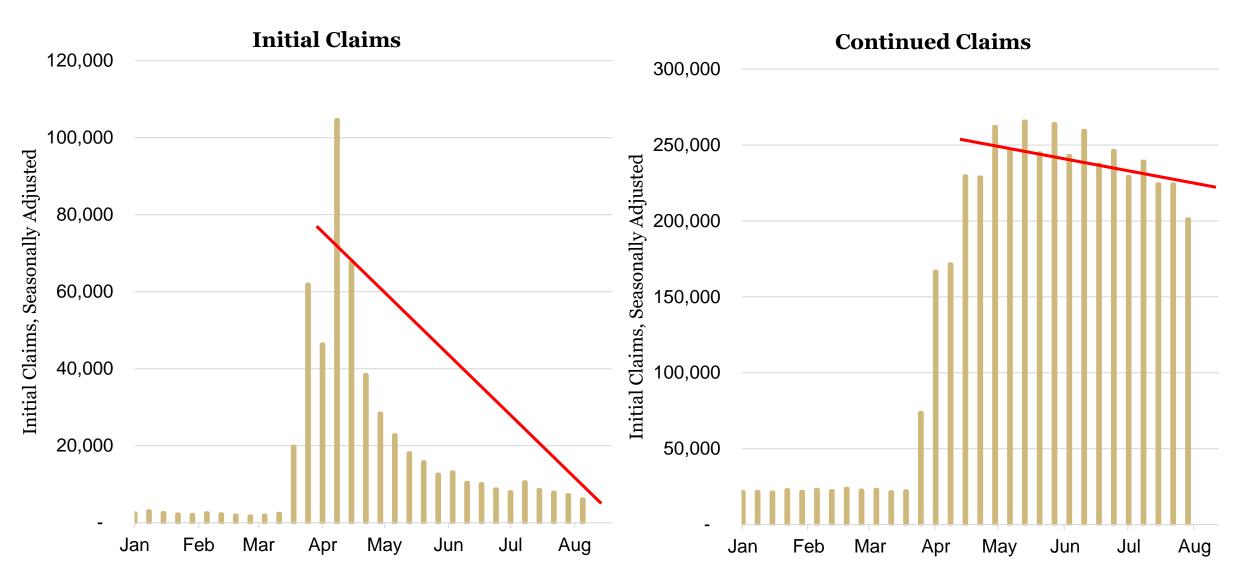


Source: Census OntheMap, 2017..



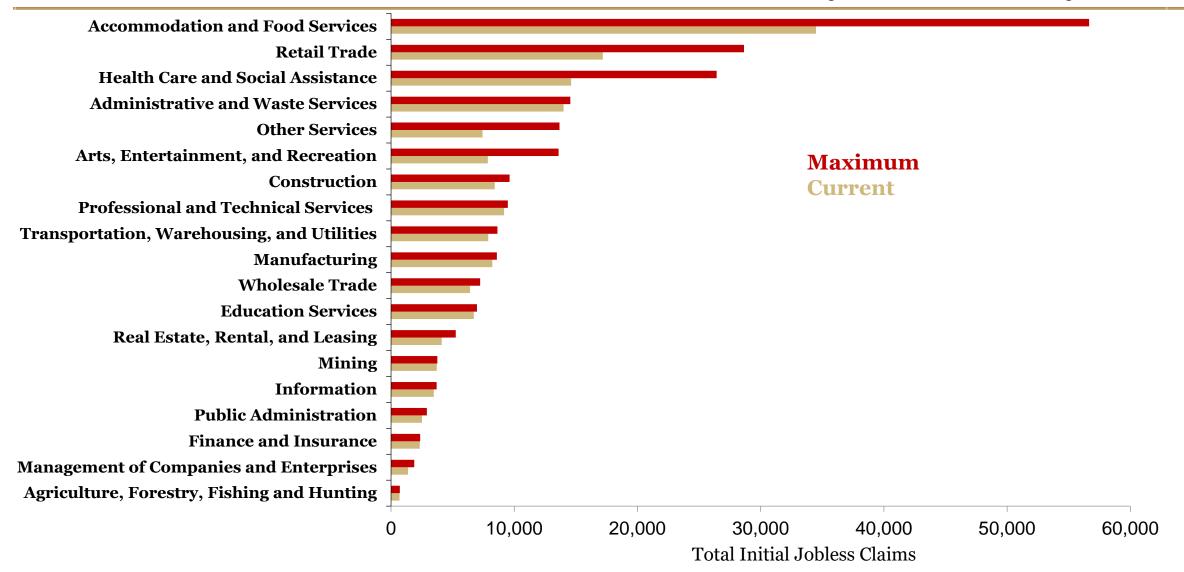


Jobless Claims Colorado





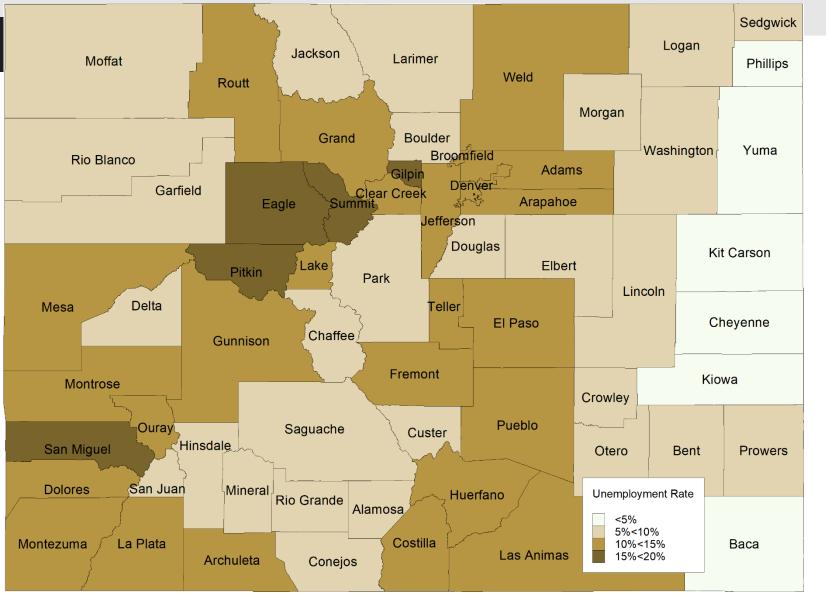
Continued Jobless Claims by Industry





Unemployment Rate by County

June 2020



Elbert	7.1
Park	8.6
Douglas	8.7
Larimer	9.2
Boulder	9.5
Mesa	10.0
Weld	10.1
Broomfield	10.1
Jefferson	10.4
El Paso	10.4
Pueblo	10.8
Teller	11.4
Arapahoe	11.5
Adams	11.6
Denver	11.9
Clear Creek	12.9
Gilpin	19.7



Source: Bureau of Labor Statistics (Not Seasonally Adjusted),



Leisure and Hospitality Share of Employment

Leisure and Hospitality

- Arts, Entertainment, and Recreation
 - Ski
 - Golf
 - Pro Sports
 - Performing Arts
 - Museums
 - Gaming
 - Fitness
- Accommodation and Food Services
 - Hotels
 - Restaurants
 - Bars
- Local Concentrations

Boulder: 11.7%

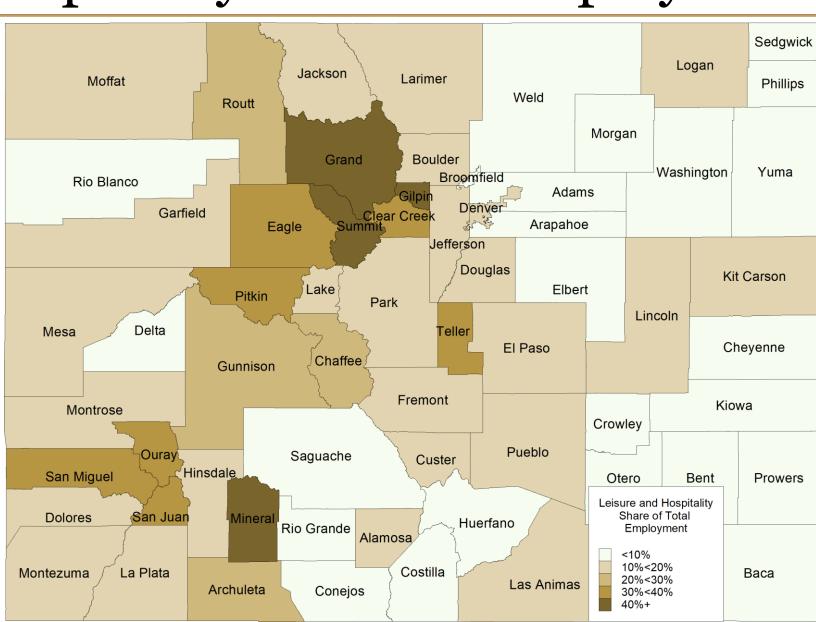
Denver: 12.6%

Versus

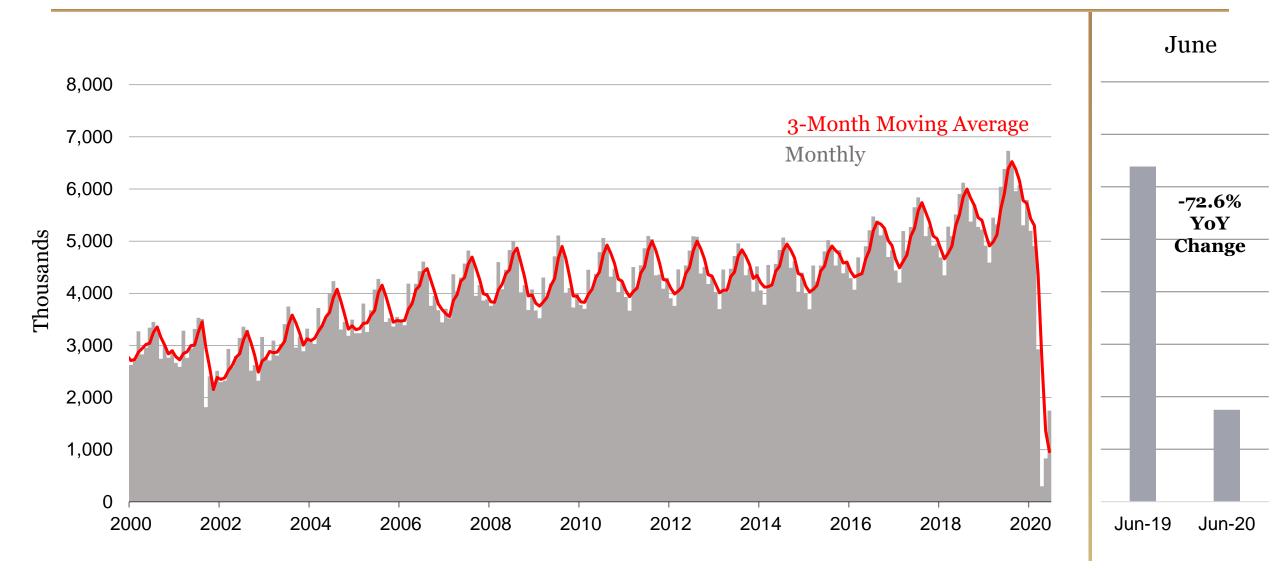
Pitkin: 39%

Summit: 41.1%



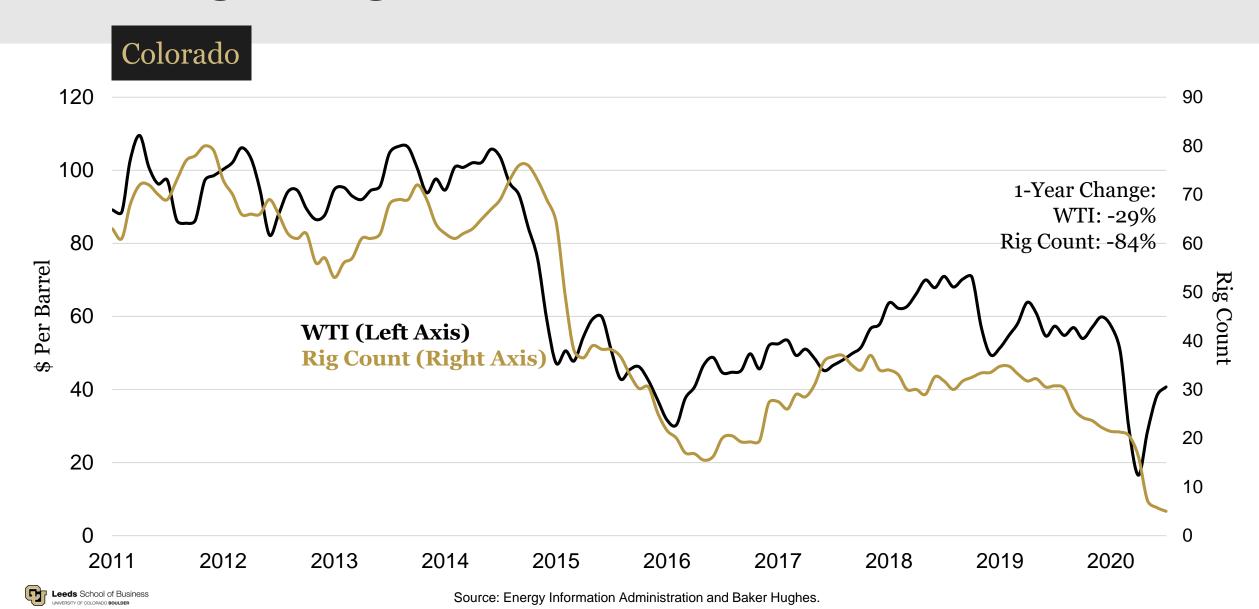


DIA Enplanements and Deplanements

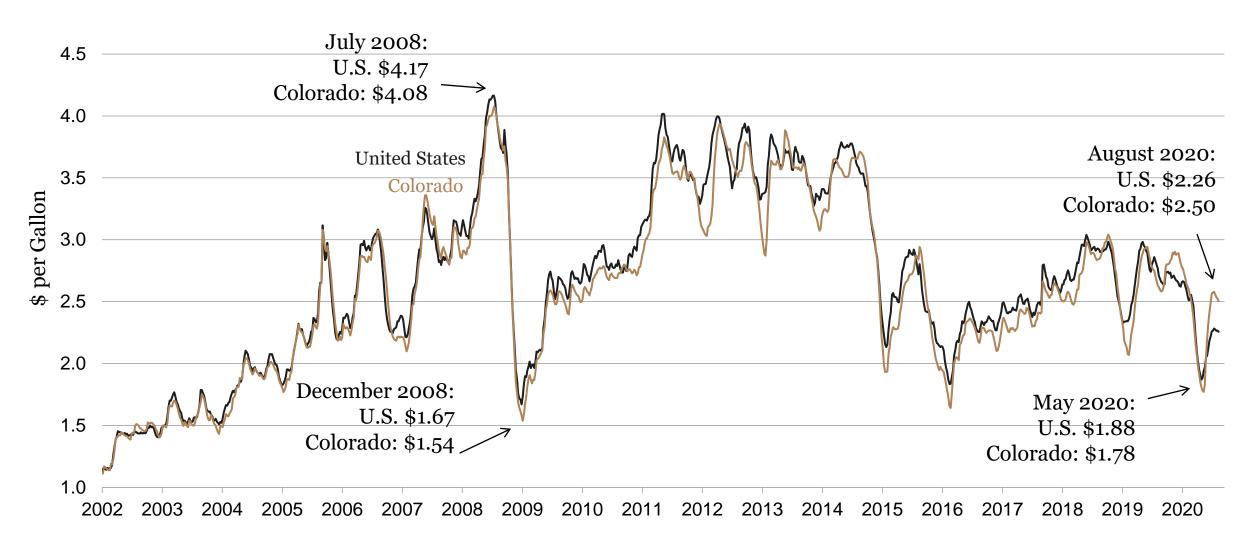




Baker Hughes Rig Count



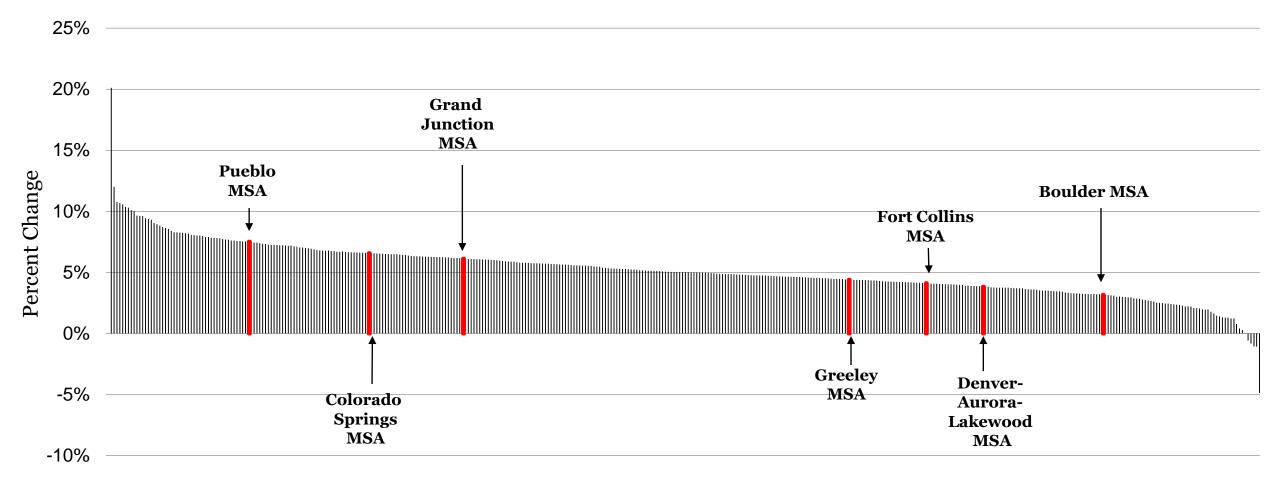
Retail Gasoline





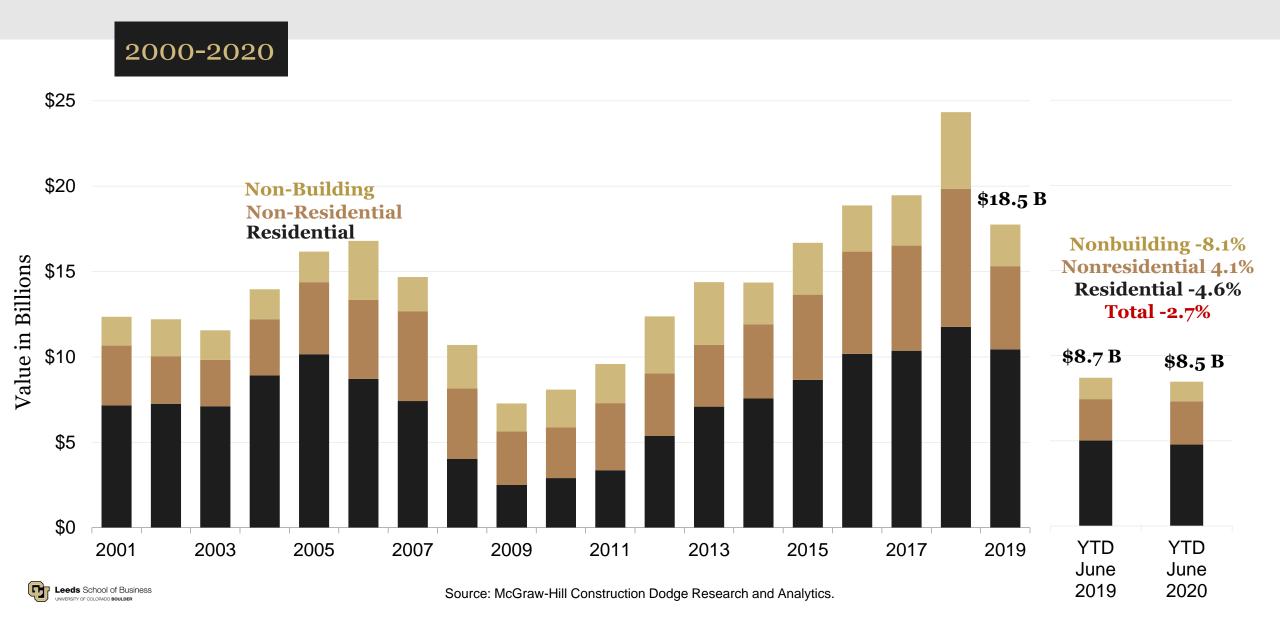
FHFA Home Price Index by MSA

1-Year Home Price Change, Q1 2020

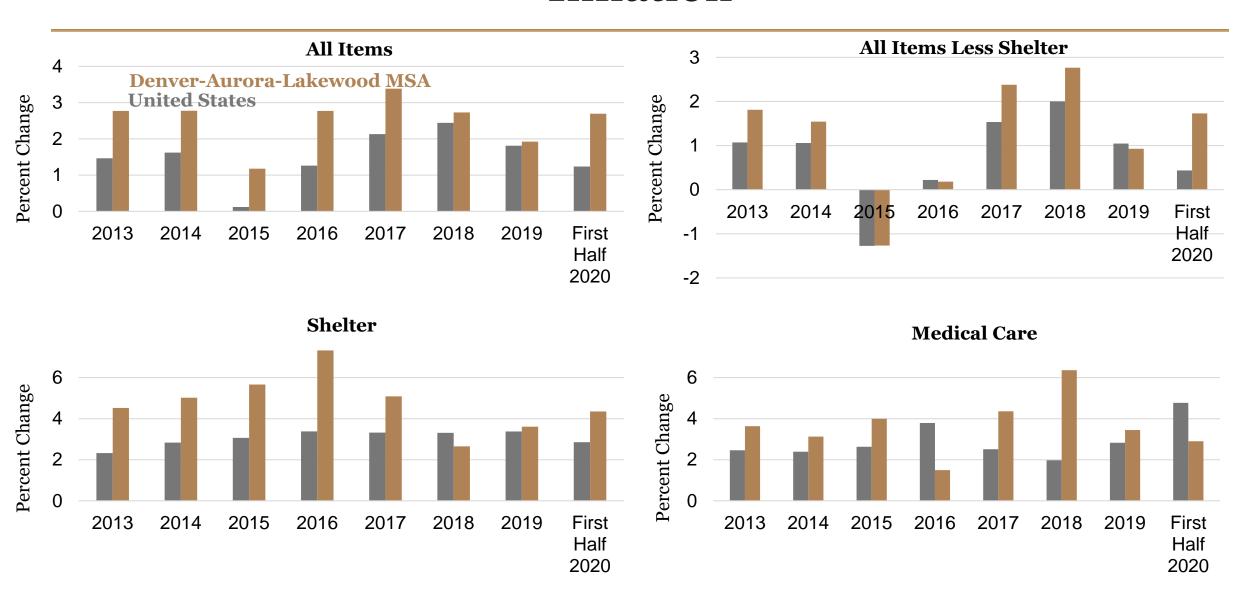




Value of Construction

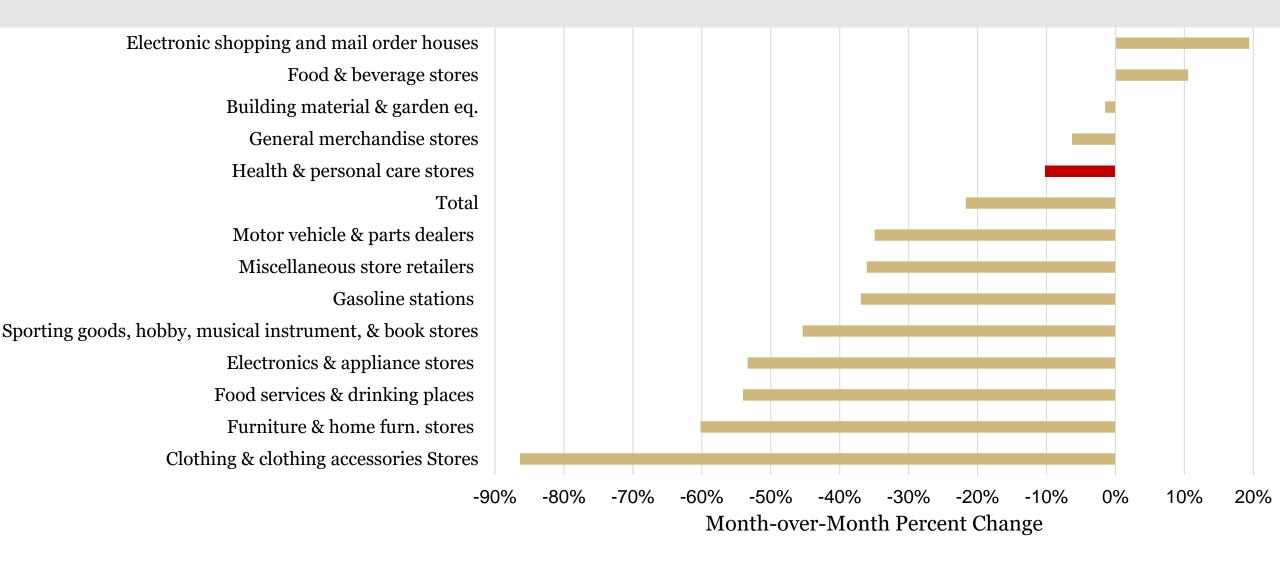


Inflation



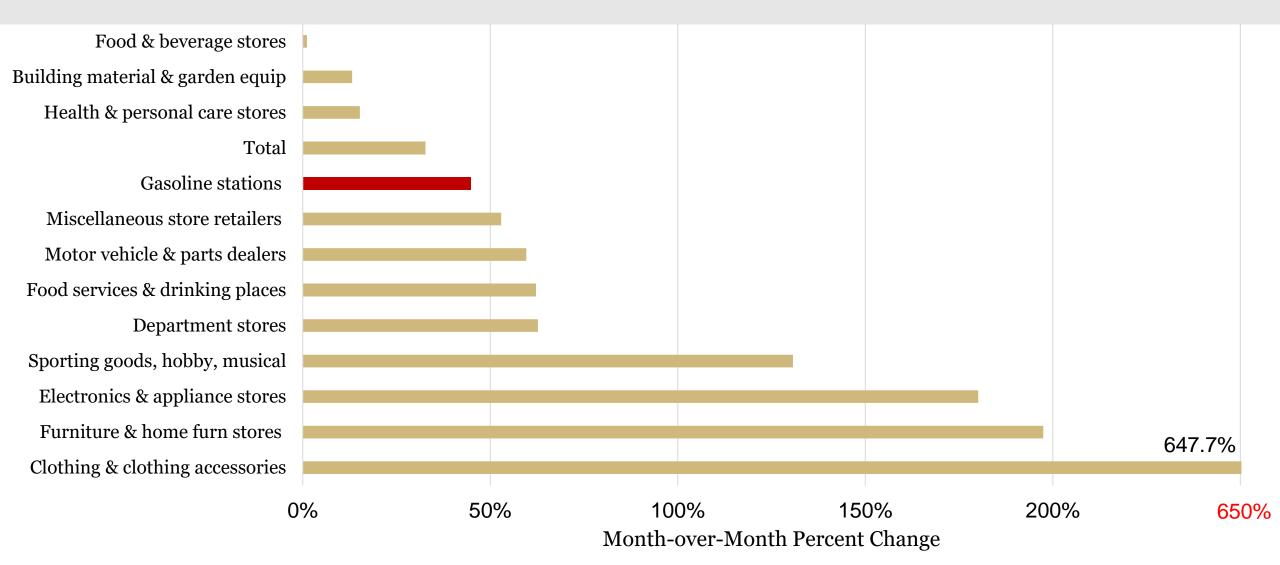


National Retail Sales, February to April



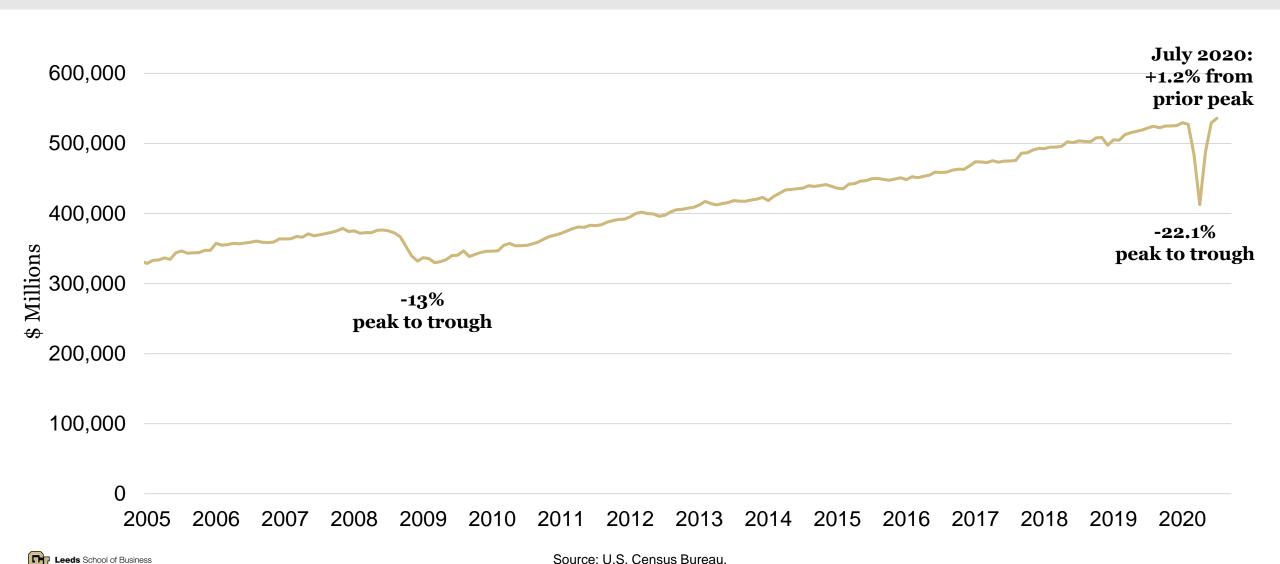


National Retail Sales, April to July

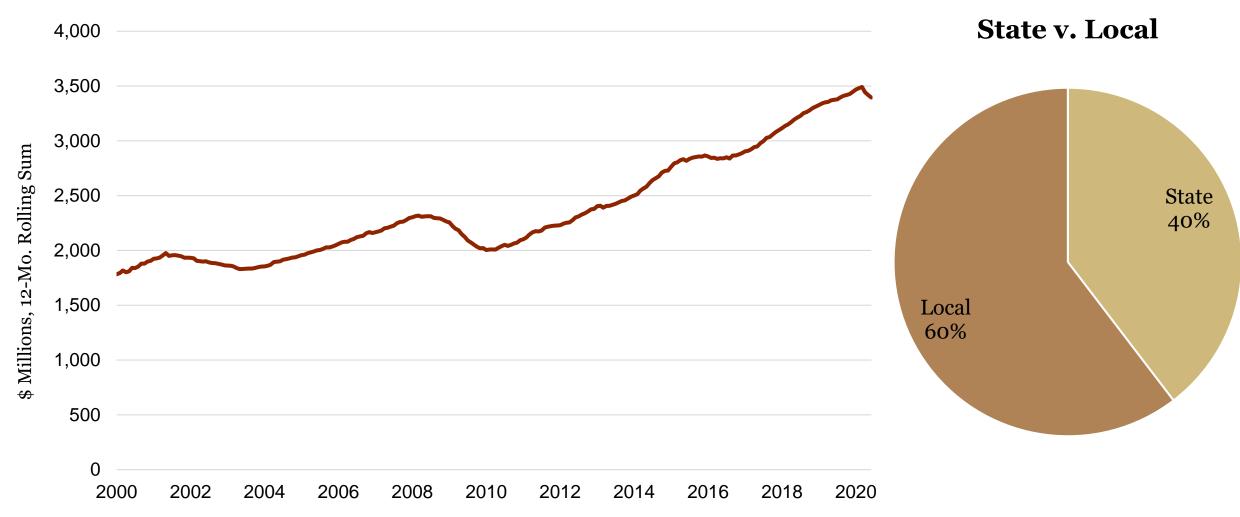




National Retail and Food Services Sales



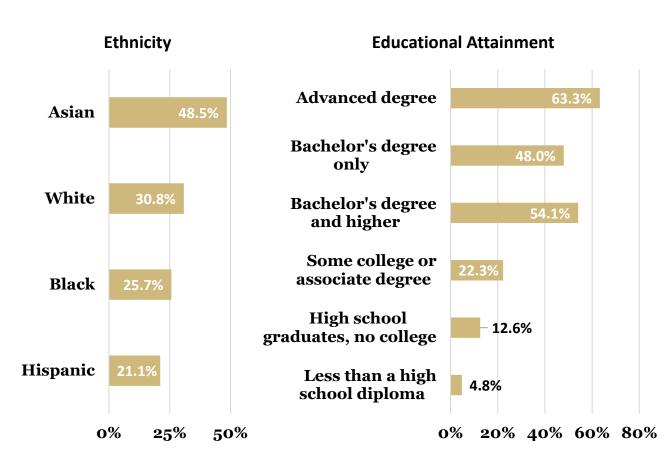
Colorado Sales and Use Taxes





Telework Due to Pandemic

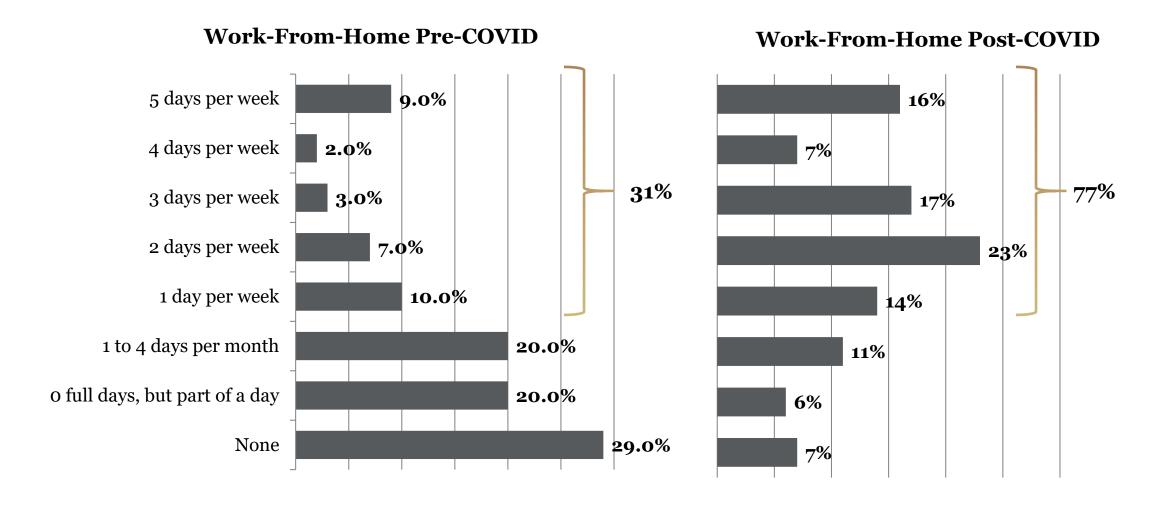
- 31% of workers teleworked or worked from home because of the pandemic (Down from 35% in May).
- Women
- Asians
- Higher educational attainment
- By industry,
 - 66% of workers in educational services
 - 62% in finance and insurance
 - 60% in professional and technical services
 - 7% of workers in accommodation and food services
 - 6% in agriculture teleworked.



Source: Bureau of Labor Statistics, Current Population Survey (CPS) Supplemental Data.



Work-From-Home Preferences







Q&A