

Unemployment Rates During the COVID-19 Pandemic: In Brief

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The Coronavirus Disease 2019 (COVID-19) pandemic has had a significant effect on unemployment in every state, industry, and major demographic group in the United States. This report provides information on which groups have experienced the largest increases in unemployment rates since the onset of the pandemic in 2020. Young workers, women, workers with low educational attainment, part-time workers, and racial and ethnic minorities had relatively high unemployment rates in April 2020. Many, but not all, of these groups had relatively high rates in February 2021 as well. The report also compares the overall unemployment rate during the current recession with the unemployment rate experienced during the Great Recession (December 2007 to June 2009). This report shows the following:

- The unemployment rate peaked at an unprecedented level, not seen since data collection started in 1948, in April 2020 (14.8%) before declining to a still-elevated level in February 2021 (6.2%) relative to February 2020 (3.5%).
- In April 2020, every state and the District of Columbia reached unemployment rates greater than their highest unemployment rates during the Great Recession. State-level unemployment has since generally declined, although some states' recoveries have recently showed signs of slowing down or reversing.
- In the early months of the recession, the unemployment rates were highest in industries that provide in-person services. Notably, the leisure and hospitality industry experienced an unemployment rate of 39.3% in April 2020, before declining to 13.5% in February 2021. While rates for service industries remain elevated, other industries with loose attachment to in-person services are now experiencing high rates. For example, the mining industry exhibited an unemployment rate of 19.3% in February 2021, the highest observed among all industries.
- Part-time workers experienced an unemployment rate almost twice that of their full-time counterparts in April 2020 (24.5% vs. 12.9%), but this gap has since effectively closed.
- Workers without a college degree experienced worse unemployment rates in April 2020 (e.g., 21.2% for workers with no high school degree) than workers with a Bachelor's degree or higher (8.4%). The gap between educated and less-educated workers remained in February 2021.
- Teenaged women experienced an unemployment rate of 36.6% in April 2020, and teenaged men, 28.6%; compared with 13.7% for women and 12.1% for men ages 25-54. The gap between men and women has since narrowed overall, but young workers are still experiencing high rates of unemployment relative to other age categories in February 2021.
- Racial and ethnic minorities had relatively high unemployment rates in April 2020 (16.7% for Black workers compared to 14.2% for White workers, and 18.9% for Hispanic workers compared to 13.6% for non-Hispanic workers), and these gaps persisted in February 2021.

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Introduction

The National Bureau of Economic Research declared the start of the current economic downturn in February 2020, marking the end of the longest period of expansion in U.S. history.¹ This expansion followed the Great Recession (December 2007 to June 2009), a downturn widely considered to be the worst since the Great Depression (August 1929 to March 1933).² The unemployment rate rose quickly in March 2020, and by April 2020 it had greatly surpassed its previous peaks observed during and just after the Great Recession. This spike in unemployment coincided with various mandated stay-at-home orders implemented in response to the Coronavirus Disease 2019 (COVID-19) pandemic and other pandemic-related factors affecting U.S. demand.³ Although unemployment rates have declined since April 2020, the rate in February 2021 (6.2%) remains much higher than the rate observed in February 2020 (3.5%).

This report discusses recent unemployment rate patterns at the national and state levels using Bureau of Labor Statistics (BLS) data. The two primary sources are the Current Population Survey (CPS) and the Local Area Unemployment Statistics (LAUS) program. In addition to the usual caveats about estimates (see “General Data Caveats”), there were additional data challenges caused by the COVID-19 pandemic (see “COVID 19 Pandemic-Related Data Issues”). The pandemic led to lower survey response rates by businesses and households, and BLS detected an error in their categorization procedures that likely underestimated unemployment early in the recession.⁴ This report generally finds the following:

- The unemployment rate peaked in April 2020, at a level not seen since data collection started in 1948, before declining to a still-high level in February 2021 relative to February 2020.
- In April 2020, every state and the District of Columbia reached unemployment rates greater than their highest unemployment rates during the Great Recession.
- Unemployment rates during the current recession have been relatively highest among workers who were last employed in industries that provide in-person services and among young workers, women, workers with low educational attainment, part-time workers, and racial and ethnic minorities.

U.S. Unemployment Rate: Historical Trends

Prior recessions typically developed with gradually increasing economic distress. The current recession was caused by the COVID-19 pandemic, which was an abrupt and exogenous shock to the economy. The pandemic resulted in limiting contact among individuals and in many shutdown orders. Therefore, the trends in the unemployment rate in the current recession differ from those in prior recessions (see **Figure 1**). Rates observed during prior recessions rose relatively gradually over the course of an economic downturn and then peaked. The current recession

¹ The National Bureau of Economic Research; see <https://www.nber.org/cycles.html> for their historical series of expansions and contractions. For more on their process for determining expansions and contractions, see https://www.nber.org/cycles/recessions_faq.html#:~:text=What%20is%20an%20expansion%3F,more%20than%20a%20few%20months.&text=Expansion%20is%20the%20normal%20state,economy%3B%20most%20recessions%20are%20brief.

² The unemployment rates observed during the Great Recession, however, never surpassed those of the early 1980s.

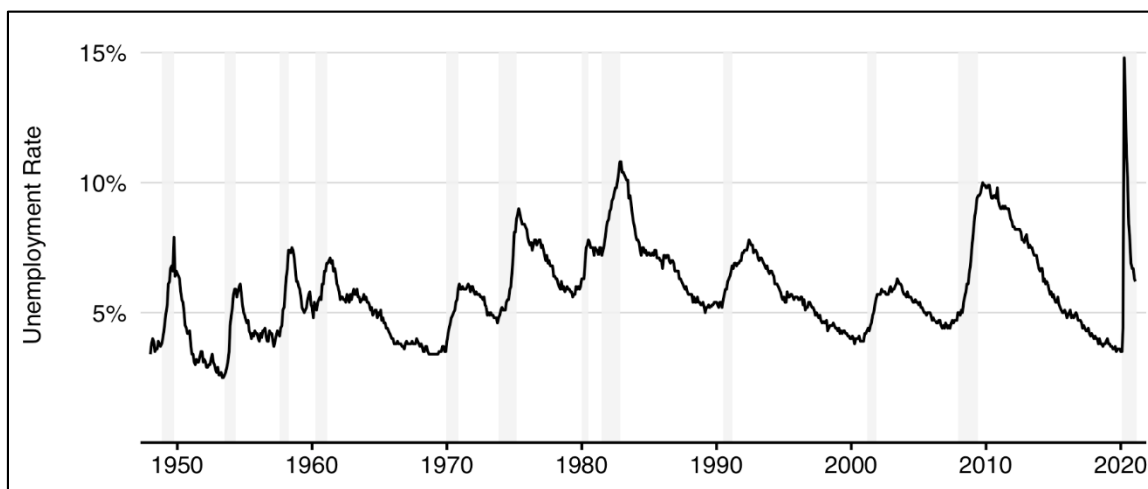
³ See CRS Insight IN11388, *COVID-19: U.S. Economic Effects*, by Rena S. Miller and Marc Labonte.

⁴ See CRS Insight IN11456, *COVID-19: Measuring Unemployment*, by Lida R. Weinstock.

exhibited an unprecedented sharp increase in the rate (10.3 percentage points) from February to April 2020.⁵ Following April, the rate declined rapidly (6.4 percentage points from April 2020 to August 2020) as temporarily furloughed workers returned to work. Despite these rapid declines, the February 2021 unemployment rate persisted at a high level (6.2%). The share of workers on furlough has declined since peaking in April 2020, while the share of permanently laid off workers has steadily increased.⁶ Although economic projections have generally improved since early in the recession, the Congressional Budget Office (CBO) has projected that elevated unemployment rates over 5.0% will persist over the next two years.⁷

Figure 1. Historical Unemployment Rate

Seasonally adjusted monthly data from January 1948 to February 2021



Source: Created by CRS using data from the Bureau of Labor Statistics (BLS).

Notes: Shaded regions indicate recessionary periods as identified by the National Bureau of Economic Research.

Comparing the Great Recession and the COVID-19 Recession

During the Great Recession, the unemployment rate increased from 5.0% in December 2007 (the start of the recession) to 9.5% in June 2009 (the end of the recession) (see **Figure 2**). The unemployment rate peaked at 10.0% in October 2009, four months after the recession officially concluded. In the current recession, the unemployment rate increased from 3.5% in February 2020 to 4.4% in March 2020, peaked⁸ at 14.8% in April 2020, and then fell to 6.2% in February

⁵ For information on the differences between the congressional response to the current recession compared to the congressional response during the Great Recession in the Unemployment Insurance system, see CRS Report R46472, *Comparing the Congressional Response to the Great Recession and the COVID-19-Related Recession: Unemployment Insurance (UI) Provisions*, by Katelin P. Isaacs and Julie M. Whittaker.

⁶ CRS analysis of BLS data, which can be found at <https://www.bls.gov/webapps/legacy/cpsatab11.htm>. Workers on temporary layoff declined from 18.0 million in April 2020 to 2.2 million in February 2021 as the number of permanent job losers increased from 2.0 million in April 2020 to 3.5 million in February 2021.

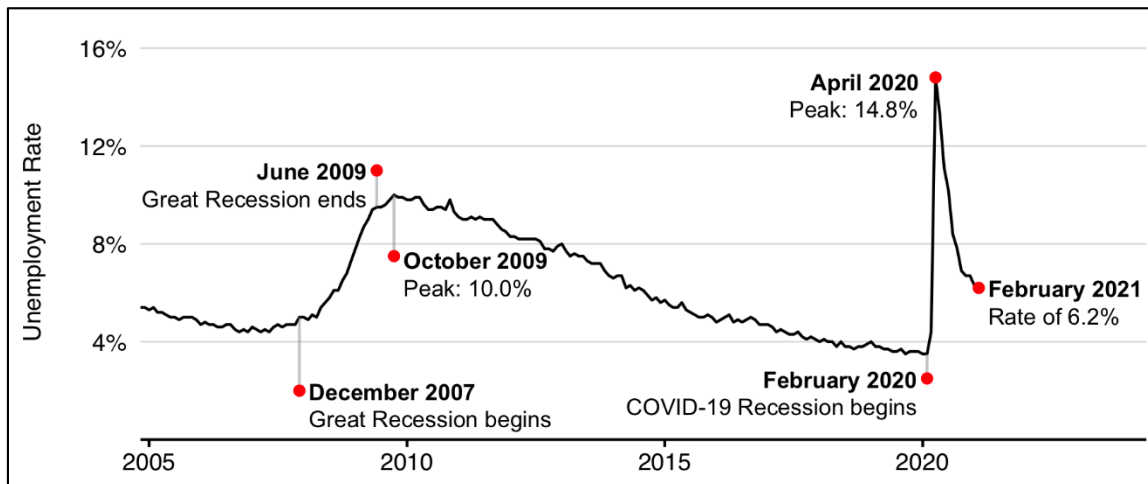
⁷ For CBO's 10-year economic projections of unemployment rates as of February 2021, see <https://www.cbo.gov/about/products/budget-economic-data#4>.

⁸ Throughout this report, *peak* refers to the highest level of unemployment between January 2020 and February 2021. It does not account for months outside this range.

2021. The peak represents the quickest month-over-month increase in unemployment rates and the highest overall unemployment rate since the CPS data started being collected in 1948.⁹

Figure 2. U.S. Unemployment Rate

Seasonally adjusted monthly data from November 2004 to February 2021



Source: Created by CRS using data from the Bureau of Labor Statistics (BLS).

COVID-19 Recession: Unemployment Trends

The COVID-19 pandemic has affected the unemployment rates for every state, industry, and major demographic group. In the early stages of the current recession, unemployment rates disproportionately increased in industries delivering in-person services. Some demographic groups are overrepresented in such industries, contributing to higher rates for those workers.¹⁰

Unemployment Rates by State

Figure 3 displays state-level monthly unemployment rates from January to December 2020 and indicates whether the rate increased or decreased from November to December. Further, the figure shows that no state was immune from economic damage early in the pandemic.¹¹ The data for January and February 2021 have not been released as of the cover date of this report. Since the onset of the current recession, the unemployment rate for every state and the District of Columbia surpassed levels seen during the Great Recession. The variation in economic damage was due to a number of factors, including the proportion of jobs in sectors that provide non-

⁹ There are many differences in labor force statistics observed during the Great Recession, its aftermath, and the COVID-19 recession. For more on this and for information on labor market patterns since 2007, see CRS Report R45330, *Labor Market Patterns Since 2007*, by Sarah A. Donovan and Marc Labonte.

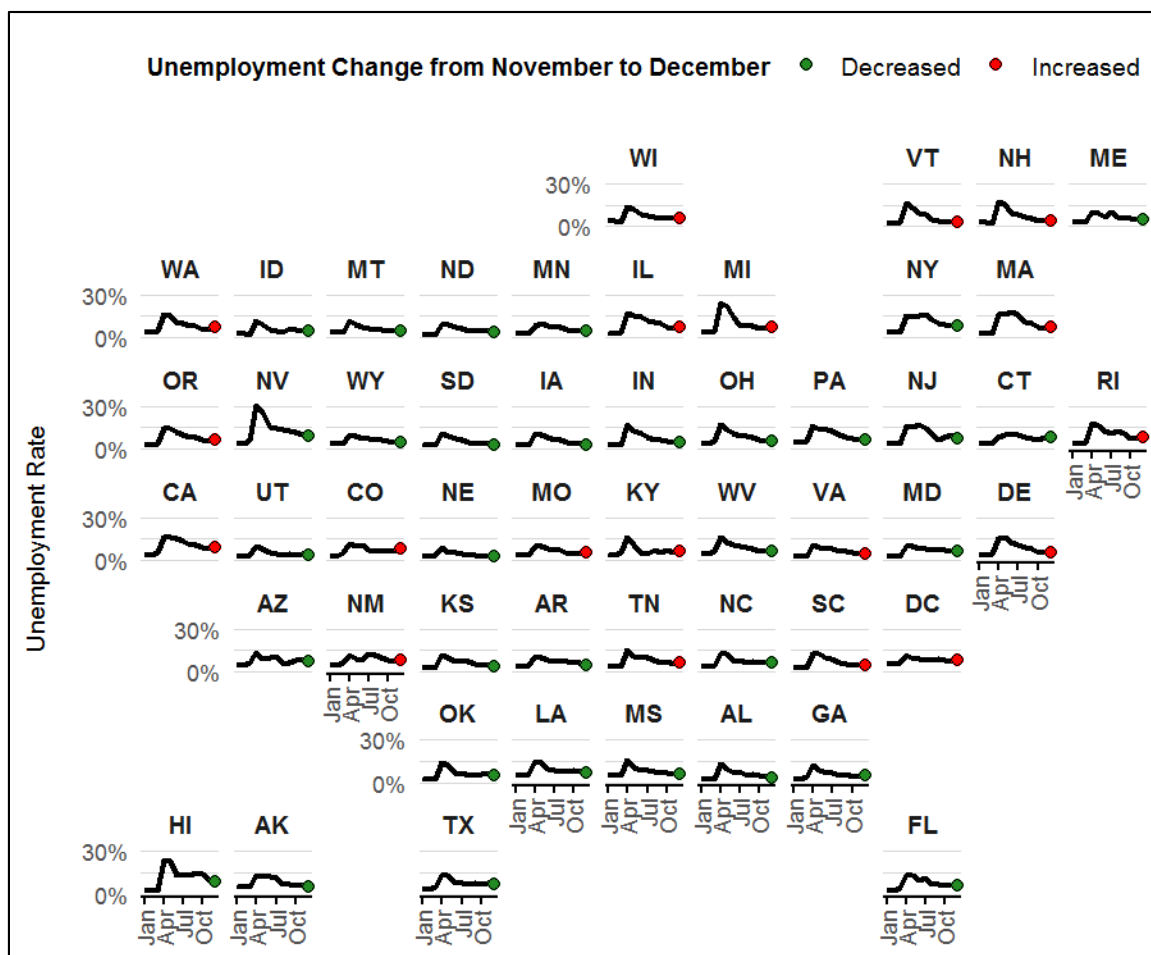
¹⁰ Guido Matias Cortes and Eliza Forsythe, "The Heterogeneous Labor Market Impacts of the Covid-19 Pandemic," Upjohn Institute, May 2020; and Robert Fairlie, "The Impact of Covid-19 on Small Business Owners: Evidence of Early-Stage Losses from the April 2020 Current Population Survey," NBER Working Paper No. 27309, June 2020.

¹¹ Felipe Lozano-Rojas et al., "Is the Cure Worse than the Problem Itself? Immediate Labor Market Effects of COVID-19 Case Rates and School Closures in the U.S.," NBER Working Paper No. 27127, May 2020; Eliza Forsythe et al., "Labor Demand in the Time of COVID-19: Evidence from Vacancy Postings and UI Claims," NBER Working Paper No. 27061, April 2020.

essential services to in-person customers,¹² individual concerns of contracting COVID-19 causing declines in personal consumption,¹³ and the implementation of stay-at-home orders and business closure policies.¹⁴

Figure 3. Monthly State Unemployment Rates

Seasonally adjusted data, displaying rates from November to December 2020 and change since last month



Source: Created by CRS using data from the Bureau of Labor Statistics (BLS) Local Area Unemployment Statistics program.

Notes: The National Bureau of Economic Research identified February of 2020 as the first month of the current recession. The month-over-month changes are point estimates and have not been tested for significance. The data for January and February 2021 have not been released as of the cover date of this report.

The unemployment rate in most states peaked in April 2020 and has since declined. In December 2020, the five states with the highest unemployment rates were Hawaii (9.3%), Nevada (9.2%), California (9.0%), Colorado (8.4%), and New Mexico (8.2%). The states with the lowest

¹² Matthew Dey and Mark Loewenstein, “How many workers are employed in sectors directly affected by COVID-19 shutdowns, where do they work, and how much do they earn?” *Monthly Labor Review*, April 2020.

¹³ Austan Goolsbee and Chad Syverson, “Fear, lockdown, and diversion: comparing drivers of pandemic economic decline 2020,” NBER Working Paper No. 27432, June 2020.

¹⁴ Sumedha Gupta et al., “Effects of Social Distancing Policy on Labor Market Outcomes,” NBER Working Paper No. 2780, May 2020.

unemployment rates in December 2020 were Nebraska (3.0%), South Dakota (3.0%), Iowa (3.1%), Vermont (3.1%), and Utah (3.6%).

While the figure shows that in December 2020 most states were substantially below their peak unemployment rates, several states' recoveries have seemingly slowed. Colorado's unemployment rate has either plateaued or increased in every month, month-over-month, from September (6.4%) to December 2020 (8.4%). Nine other states with elevated rates exhibited wavering recoveries over the same period, as rates either increased or stalled in at least two of three months. Ranked by their recent unemployment rates, these states are Rhode Island (10.5% in September 2020 to 8.1% in December 2020), New Jersey (6.7% to 7.6%), Arizona (6.5% to 7.5%), Michigan (8.6% to 7.5%), North Carolina (7.2% to 6.2%), Tennessee (6.5% to 6.4%), Kentucky (5.6% to 6.0%), Wisconsin (5.4% to 5.5%), and South Carolina (5.2% to 4.6%). For most of these states, rates declined from September to October before stalling or increasing in November and December.

Unemployment Rates by Industry

Workers whose last job was in the leisure and hospitality industry experienced a higher peak in unemployment (39.3% in April 2020) than did workers who were previously employed in any other industry; they also had the second highest unemployment rate in February 2021 (13.5%). However, elevated unemployment rates are not constrained to industries providing in-person services. Workers whose last job was in the mining or extraction industry have experienced steadily increasing unemployment since the onset of the recession; in February 2021 they exhibited the highest rate among all workers across industries (19.3%) and the steepest year-over-year increase (up from 5.4% in February 2020). The lowest February 2021 rates were among workers whose last job was in the government (2.8%), financial activities (3.7%), or education and health services (3.7%) industries. These industries have had unemployment rates below 15% from February 2020 through February 2021.¹⁵ Within industries, some workers were more likely to lose their jobs than others early in the recession. For example, recent studies suggest that low-wage workers in the leisure and hospitality industry and other services industries experienced disproportionately large employment losses.¹⁶

Figure 4 displays the change in industry unemployment rates from February 2020, at the start of the recession but before unemployment rates increased, to February 2021. CRS estimated that all of these year-over-year changes were statistically significant, except for those exhibited by agricultural workers.¹⁷ Further, CRS chose to compare February 2020 with February 2021 because of a lack of seasonally adjusted data. Without seasonal adjustments, it is difficult to determine whether unemployment trends are related to the recession or to seasonal trends. This report attempts to minimize seasonal influences (for non-adjusted data) by comparing year-over-year estimates.

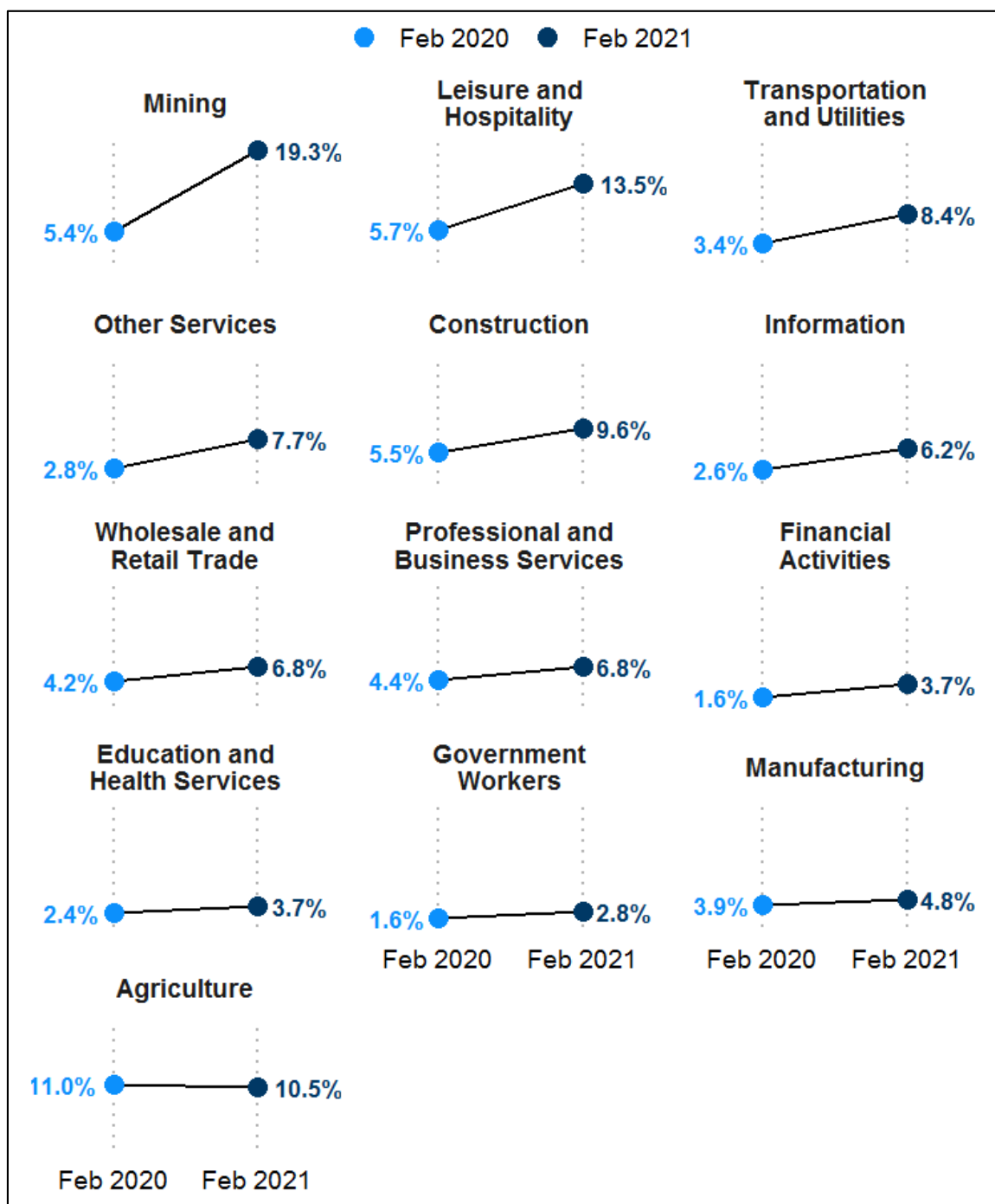
¹⁵ These data are not seasonally adjusted and do not account for the likely seasonal variation in employment within the education and health services sector.

¹⁶ Alexander Bartik et al., "Measuring the labor market at the onset of the COVID-19 crisis," NBER Working Paper No. 27613, July 2020; and Guido Matias Cortes and Eliza Forsythe, "The Heterogeneous Labor Market Impacts of the Covid-19 Pandemic," Upjohn Institute Working Paper, May 2020.

¹⁷ BLS publishes a series of formulas used to produce standard errors for unemployment rates, from which they can calculate confidence intervals to determine whether a year-over-year difference is statistically significant. CRS used these formulas to calculate significance at the 95% confidence level. Bureau of Labor Statistics, "Calculating Approximate Standard Errors and Confidence Intervals for Current Population Survey Estimates," Washington, DC, 2018, p. 10, <https://www.bls.gov/cps/calculating-standard-errors-and-confidence-intervals.pdf>.

Figure 4. Unemployment Rates by Industry

Non-seasonally adjusted data, displaying differences between February 2020 and February 2021

**Source:** Bureau of Labor Statistics (BLS).

Notes: Due to the lack of seasonal adjustment for these data, the 2021 unemployment rates for the different industries are compared to their non-seasonally adjusted values from 2020. Industry sectors are defined by the North American Industry Classification System (NAICS) and can be found at https://www.bls.gov/iag/tgs/iag_index_naics.htm. The figure shows unemployment rates for wage and salary workers.

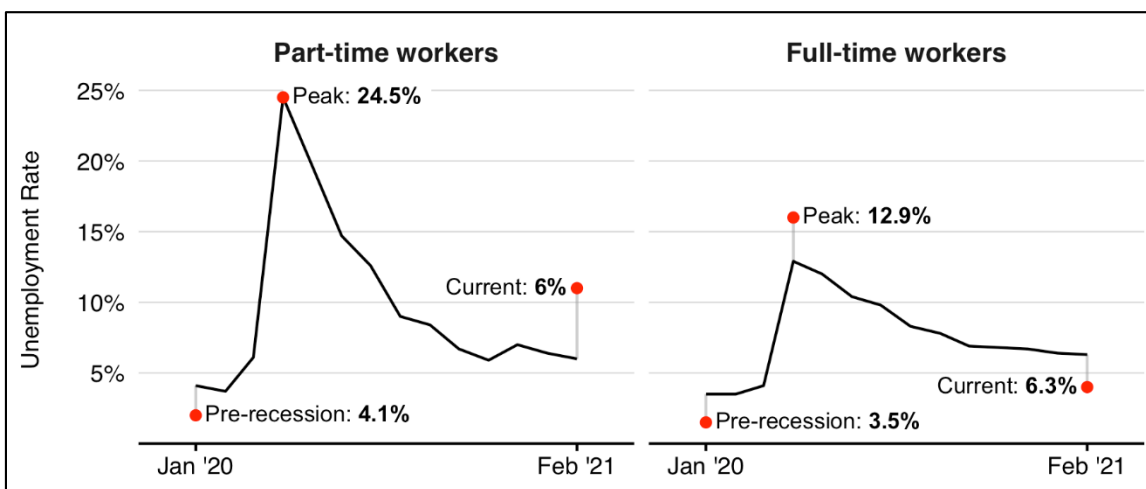
Unemployment Rates for Full- and Part-Time Workers

As shown in **Figure 5**, part-time workers experienced a higher peak unemployment rate (24.5% in April 2020) than full-time workers (12.9% in April 2020). This disparity has closed as the recession has progressed, as the unemployment rate for part-time workers in February 2021 (6.0%) is less than the unemployment rate for full-time workers (6.3%).

There are a few reasons why part-time workers' apparent economic recovery may not reflect the realities they face. First, some workers with part-time jobs may have left the labor force, and hence are not counted in the official statistics used in this report. It is unclear whether that is the case. Additionally, more workers who would have been working full-time before the pandemic have been working part-time for economic reasons.¹⁸ This could reduce the unemployment rate among part-time workers. Further, BLS has observed that labor underutilization has remained elevated for workers, including those who have been working part-time for economic reasons.¹⁹

Figure 5. Monthly Unemployment Rates for Part- and Full-Time Workers

Seasonally adjusted data, January 2020 to February 2021



Source: Created by CRS using data from the Bureau of Labor Statistics (BLS).

Notes: Both groups experienced their peak unemployment rate in April 2020.

Unemployment Rates by Sex and Age

As seen in **Figure 6**, unemployment rates tended to increase more for younger workers and were higher for women early in the recession. Between February and April 2020, the rate for women ages 16-19 increased by 25.6 percentage points to 36.6%; in contrast, the rates for men of the same age increased by 15.8 percentage points to 27.6%. Since then, the gap between younger men and women has reversed. The unemployment rate for teenaged men (16.6%) was higher than the rate for teenaged women (11.2%) in February 2021. Although unemployment rates for younger workers remain relatively high compared to older workers, the February 2021 rates for

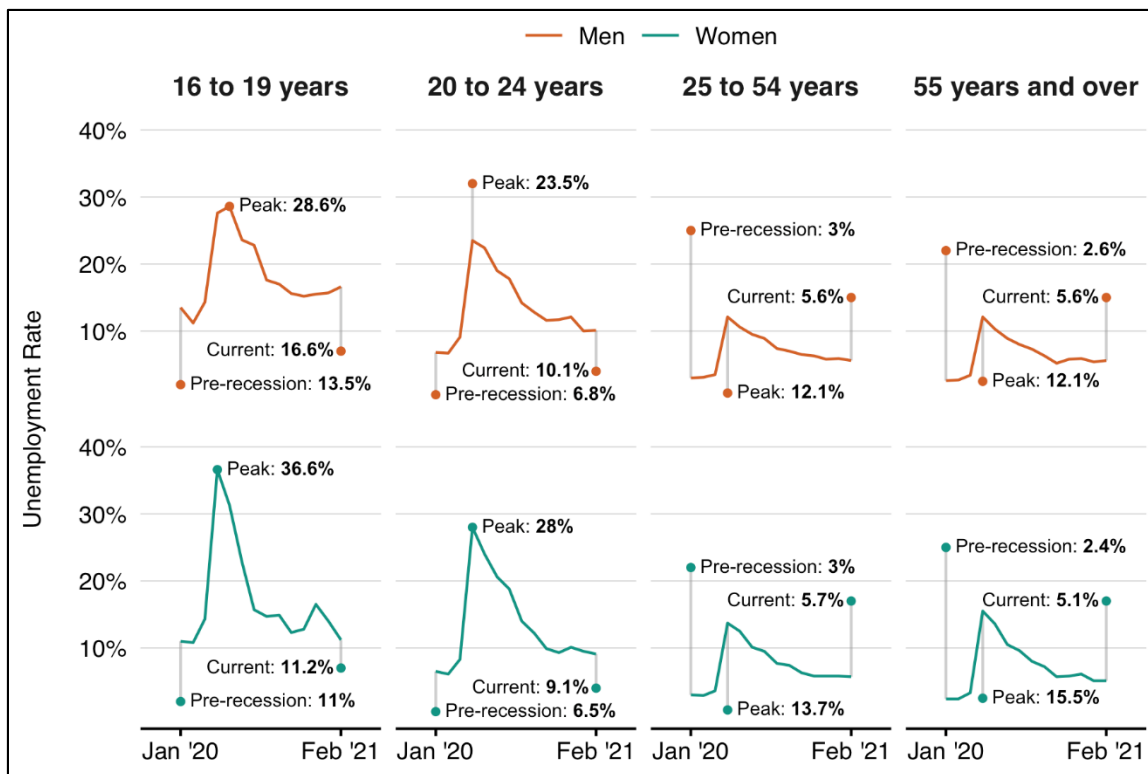
¹⁸ The number of workers working part-time for economic reasons has increased from 4.4 million in February 2020 to 6.1 million in February 2021 on a seasonally adjusted basis. See <https://www.bls.gov/web/empsit/cpseea07.htm>.

¹⁹ See <https://www.bls.gov/news.release/empsit.t15.htm> for U-6 unemployment rates, a measure of the total unemployed, plus all persons marginally attached to the labor force, plus total employed part time for economic reasons, as a percentage of the civilian labor force plus all persons marginally attached to the labor force. For more on this measure, see CRS In Focus IF10443, *Introduction to U.S. Economy: Unemployment*, by Lida R. Weinstock.

men and women across the remaining age groups have declined to similar levels. The rate for men ages 20-24 (10.1%) was slightly higher than the rate for women of the same age (9.1%). The large disparities observed in April 2020 between younger men and women were not observed in older age groups, although women ages 25-54 and 55 and over had rates 1-3 percentage points higher than their male counterparts. This relatively modest gap has since closed; the rate in February 2021 for women ages 25 to 54 (5.7%) was similar to that of men (5.6%), and the rate for women ages 55 and over (5.1%) was lower than that of men ages 55 and over (5.6%).

Figure 6. Monthly Unemployment Rates by Sex and Age

Seasonally adjusted data, January 2020 to February 2021



Source: Created by CRS using data from the Bureau of Labor Statistics (BLS).

Notes: Every group experienced their peak unemployment rate in April 2020, except for 16- to 19-year-old men, who experienced their peak rate in May 2020.

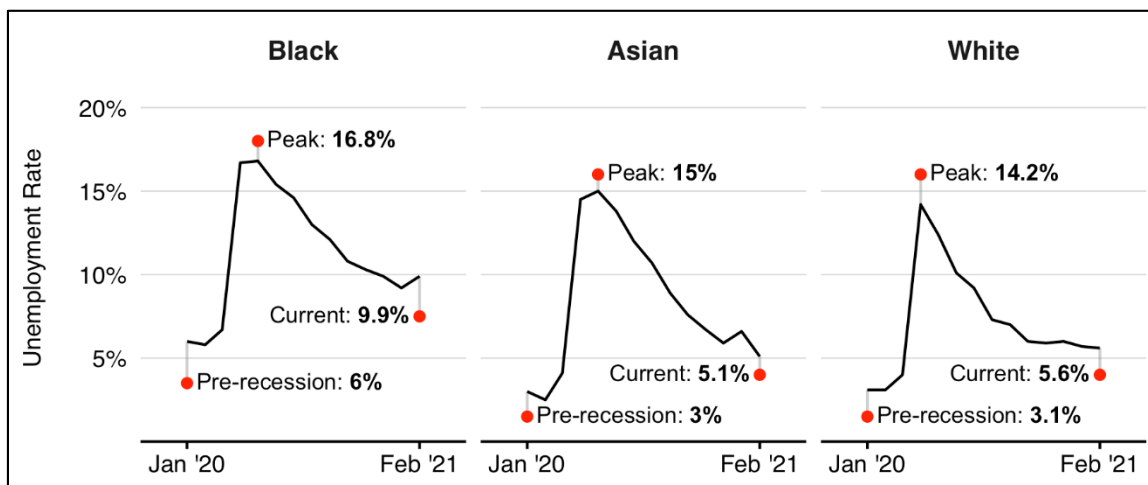
Unemployment Rates by Racial Group and Hispanic Ethnicity

As seen in **Figure 7**, the unemployment rates for Black, Asian, and White²⁰ workers increased sharply in early 2020. But whereas the unemployment rate for White workers peaked in April 2020, the rate for Black and Asian workers continued to rise through May 2020. The February 2021 rates for Black (9.9%), Asian (5.1%), and White (5.6%) workers were all higher than their respective rates in January 2020. The rate for Black workers has declined 6.9 percentage points since peaking in May 2020, compared to a decline of 9.9 percentage points for Asian workers and 6.8 percentage points for White workers across the same period.

²⁰ Asian, Black, and White are the three racial categories used in BLS, Table A2: Employment status of the civilian population by race, sex, and age. See <https://www.bls.gov/news.release/empstat.t02.htm>.

Figure 7. Monthly Unemployment Rates by Racial Group

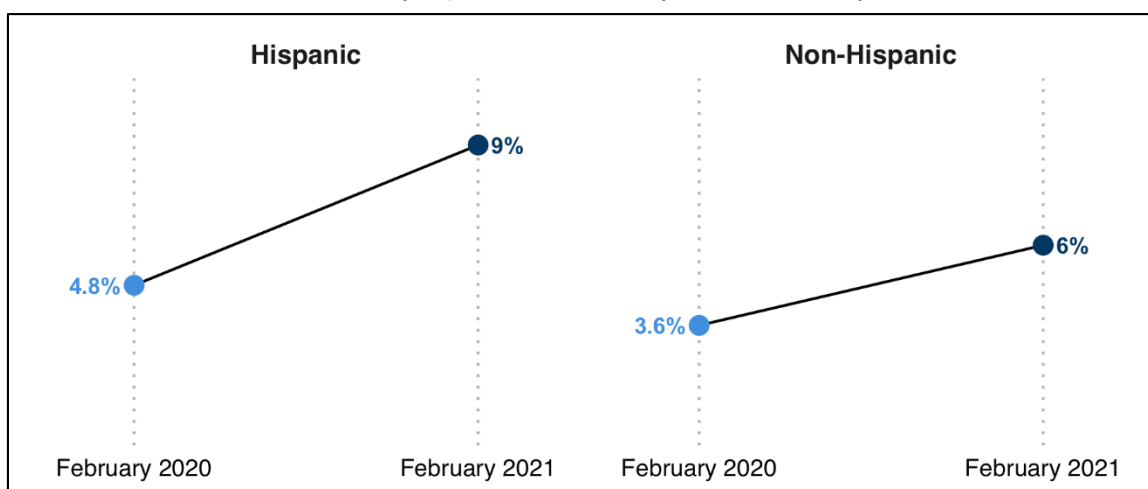
Seasonally adjusted data, January 2020 to February 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS).**Notes:** Black and Asian workers experienced their peak unemployment rate in May 2020. White workers peak rate occurred in April 2020.

People of any race can identify as being either Hispanic or non-Hispanic in the CPS. As seen in **Figure 8**, Hispanic workers, like Black and Asian workers, continue to experience elevated unemployment rates. In February 2021, unemployment rates experienced by Hispanic (9.0%) and non-Hispanic (6.0%) workers were almost twice as high as those experienced in the previous February, early in the recession. While unemployment remains elevated compared to February 2020, these rates are much lower than the peak exhibited in April 2020. The unemployment rate for Hispanic workers rapidly increased by 13.7 percentage points to 18.5% from February to April 2020. For non-Hispanic workers the unemployment rate increased by 10 points to 13.6%.

Figure 8. Monthly Unemployment Rates by Hispanic Origin

Non-seasonally adjusted data, February 2020 to February 2021

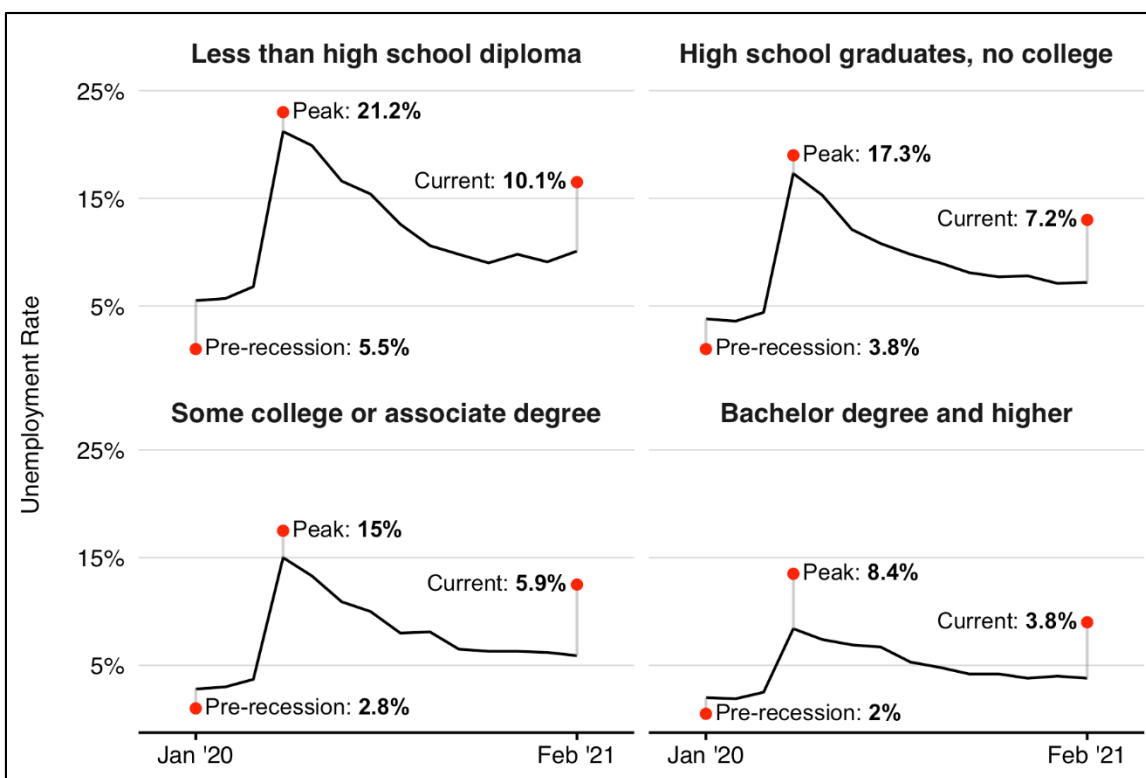
**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS).**Notes:** Due to the lack of seasonal adjustment for these data, the 2021 unemployment rates for the Hispanic and non-Hispanic groups are compared to their non-seasonally adjusted values from 2020. Statistical significance is not calculated because BLS does not provide formula parameters for non-Hispanic workers.

Unemployment Rates by Education

In general, workers with lower levels of educational attainment have higher rates of unemployment. This pattern has been amplified during the current recession, as seen in **Figure 9**. The unemployment rate for workers with less than a high school diploma peaked in April 2020 (21.2%), which was higher than the peak for all other education levels. The February 2021 rate for workers with less than a high school diploma (10.1%) was also higher than the rate for all other education levels. Workers with a Bachelor's degree or higher, the highest educational level classified here, had the lowest peak unemployment rate (8.4% in April 2020) and the lowest February 2021 rate (3.8%) among all education levels.

Figure 9. Monthly Unemployment Rates by Education

Seasonally adjusted data, January 2020 to February 2021



Source: Created by CRS using data from the Bureau of Labor Statistics (BLS).

Notes: All groups experienced their peak unemployment rate in April 2020.

Data Limitations and Caveats

National level data presented in this report are from the CPS and state level data are from the LAUS program. The CPS is a sample survey of about 60,000 households conducted by the Census Bureau for BLS. LAUS is a BLS program that calculates state-level unemployment rates using multiple data sources, including the CPS.²¹

²¹ In addition to the CPS, LAUS uses the Current Employment Statistics survey, state Unemployment Insurance claims counts, the Quarterly Census of Employment and Wages program, and data from the Census Bureau's American

Both the CPS and LAUS estimates are subject to sampling and non-sampling error.²² Sampling error occurs when the survey sample is not representative of the underlying population, while non-sampling error describes errors often associated with data collection.²³ Sampling error is a result of statistical theory that underlies any estimate generated through surveys. While the CPS sample is selected to be representative of the nation, the possibility remains that it does not accurately estimate certain nationwide statistics.²⁴ Non-sampling error refers to all sources of error that are not due to sampling. They can result from incorrect or biased collection and processing of the data. For example, non-sampling error can occur if a surveyor incorrectly records responses or a respondent incorrectly responds to a question.

COVID 19 Pandemic-Related Data Issues

The COVID-19 pandemic increased non-sampling error in the CPS due to a number of factors. For example, BLS reported that the survey experienced lower household response rates.²⁵ (The bureau has made statements affirming the robustness of its estimates despite these lower response rates.²⁶) Furthermore, BLS detected an error in its categorization procedures that likely underestimated unemployment early in the recession.²⁷ Specifically, large numbers of workers were classified as *employed but not at work* when they should have been recorded as *unemployed on temporary layoff*.

Per agency policy, BLS did not adjust CPS records, but it did provide adjusted estimates of the unemployment rate. BLS estimated that its categorization error underestimated seasonally adjusted unemployment by roughly 0.9 percentage points in March 2020, 4.8 points in April, 3.1 in May, 1.2 in June, 0.9 in July, 0.7 in August, 0.4 in September, 0.3 in October, 0.4 in November, 0.6 in December, and 0.6 in January 2021. In February 2021, the error underestimated seasonally adjusted unemployment by an estimated 0.5 percentage points. These estimates evaluate what the impact would be in the worst-case scenario, as the true impact is uncertain. BLS released a statement regarding the underestimate, noting that, “these assumptions probably overstate the size of the misclassification error.”²⁸ In later months, BLS made efforts to correct this classification error during data collection and processing.²⁹

LAUS was impacted by both the low response rate and the categorization error due to its connection with the CPS. Considering that LAUS is dependent on a number of other data sources

Community Survey and Population Estimates Program; <https://www.bls.gov/lau/laumthd.htm>.

²² For further discussion of error, see the “Reliability of the Estimates” section of the Employment Situation report’s Technical Note at <https://www.bls.gov/news.release/empsit.tn.htm>. For a description of LAUS estimation procedures, see <https://www.bls.gov/lau/laumthd.htm>.

²³ For more information, see <https://www.bls.gov/opub/hom/topic/error-measurements.htm>.

²⁴ For more information, see <https://www.bls.gov/opub/hom/topic/sampling.htm>.

²⁵ See the FAQ BLS produced on this topic for more on the impact of COVID-19 on data collection by month at <https://www.bls.gov/covid19/home.htm>.

²⁶ See <https://www.bls.gov/covid19/employment-situation-covid19-faq-april-2020.htm>.

²⁷ See CRS Insight IN11456, *COVID-19: Measuring Unemployment*, by Lida R. Weinstock.

²⁸ See <https://www.bls.gov/covid19/employment-situation-covid19-faq-january-2021.htm#ques3>.

²⁹ Among other protocols, the Census Bureau monitored survey responses in August and marked those they felt could be misclassified. These responses were then re-evaluated. For more on BLS and Census efforts to reduce the misclassification, see <https://www.bls.gov/covid19/employment-situation-covid19-faq-august-2020.htm#ques9>.

that were impacted by COVID-19 in their own right, the net effect of the pandemic on LAUS estimates is unknown.³⁰

General Data Caveats

Other data considerations include the following:

- *Lack of seasonally adjusted data:* Seasonally adjusted data are published by BLS for selected labor force indicators to better account for seasonality in the trends.³¹ Without seasonal adjustments, it is difficult to distinguish between trends related to the recession and seasonal trends. Where adjusted data are not available, this report compares year-over-year estimates to minimize seasonal influences.
- *Reference week:* In general, CPS data are collected for the calendar week containing the 12th of the month. This could lead to incongruity between actual labor force conditions over the course of a month and the conditions observed.
- *CPS and LAUS comparability:* While the LAUS program uses the same unemployment concepts as the CPS and uses the CPS as an input, LAUS estimates are based on multiple sources (including administrative data). Consequently, CPS and LAUS estimates are not directly comparable.
- *Statistical significance:* CRS used BLS formulas to calculate year-over-year statistical significance in changes in monthly data. As a tool, statistical significance does not guarantee that year-over-year changes were meaningful.

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³⁰ For more on the impacts of COVID-19 on LAUS and its inputs, see <https://www.bls.gov/covid19/effects-of-covid-19-pandemic-on-employment-and-unemployment-statistics.htm>.

³¹ See CPS and LAUS documentation for more on seasonal adjustment at <https://www.bls.gov/cps/seasonal-adjustment-methodology.htm> and <https://www.bls.gov/lau/lauses.htm>.

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