

# **Unemployment Rates During the COVID-19 Pandemic**

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### **SUMMARY**

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Gene Falk, Coordinator Specialist in Social Policy

Paul D. Romero Research Assistant

Jameson A. Carter Research Assistant

Isaac A. Nicchitta Research Assistant

Emma C. Nyhof Research Assistant

# **Unemployment Rates During the COVID-19**Pandemic

The Coronavirus Disease 2019 (COVID-19) pandemic has had a significant effect on labor market metrics for every state, economic sector, and major demographic group in the United States. This report provides information on unemployment rates, labor force participation rates, and nonfarm payrolls in the United States during the ongoing pandemic. It presents CRS analysis of overall unemployment rate trends during the pandemic. The report first examines these trends nationally, and at the state and industrial levels. Next, it examines how unemployment rates varied across demographic groups. The report then repeats this analysis, where appropriate, for the labor force participation rate, which sheds light on the size of the workforce willing and available for work. The final portion of the report analyzes the impact the pandemic has had on overall employment and by sector.

Among other findings, this report shows the following:

- In April 2020, the unemployment rate reached 14.8%—the highest rate observed since data collection began in 1948. In June 2021, unemployment remained higher (5.9%) than it had been in February 2020 (3.5%).
- The labor force participation rate declined to 60.2% in April 2020—a level not seen since the early 1970s—then began a partial recovery in May 2020. The labor force participation rate was 61.6% in June 2021, 1.8 percentage points below the level in January 2020, before the pandemic and the economic recession.
- Nonfarm payrolls shed 22.1 million jobs between January 2020 and April 2020, with employment declining to 86% of its pre-recession level. In June 2021, aggregate employment remained 6.5 million jobs below its pre-recession level.
- The COVID-19 pandemic has impacted economic sectors disparately. The leisure and hospitality sector lost the largest number of jobs since January 2020, and persons last employed in this sector have consistently exhibited some of the highest unemployment rates throughout the pandemic. Additionally, the education and services sector and the government sector have exhibited the second and third-largest losses in jobs since January 2020, despite relatively low unemployment rates among persons last employed in these sectors.
- The COVID-19 pandemic has impacted demographic groups disparately. Although all
  demographic groups were affected, persons identifying as Black or Hispanic and younger
  workers generally experienced relatively high peaks in unemployment and relatively steep
  declines in labor force participation over the course of the pandemic. Additionally, persons with
  lower educational attainment have generally experienced relatively higher unemployment rates
  and lower labor force participation throughout the pandemic.

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### Introduction

The National Bureau of Economic Research declared February 2020 as the start of the most recent economic downturn, marking the end of the longest period of expansion in U.S. history. <sup>1</sup> 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). <sup>2</sup> 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 rise in unemployment was caused by an unprecedented loss of 22.1 million jobs between January 2020 and April 2020. Many individuals left the labor force over this period, and by April 2020 the labor force participation rate<sup>3</sup> declined to 60.2%, a level not seen since the early 1970s.

This deterioration in the U.S. labor market corresponded with various advisory or mandated stayat-home orders implemented in response to the Coronavirus Disease 2019 (COVID-19) pandemic and other pandemic-related factors affecting U.S. demand.<sup>4</sup> States and localities implemented these orders<sup>5</sup> to mitigate the risks of COVID-19 after it was declared a pandemic disease by the World Health Organization on March 11, 2020.<sup>6</sup>

This report discusses the state of the U.S. labor market using data from the Bureau of Labor Statistics (BLS). The three primary sources are the Current Population Survey (CPS), the Local Area Unemployment Statistics (LAUS) program, and the Current Employment Statistics (CES) program. In addition to the usual caveats about estimates (see the "General Data Caveats" section), there were additional data challenges caused by the COVID-19 pandemic (see the "COVID-19 Pandemic-Related Data Issues" section). The pandemic led to lower survey response rates by businesses and households. Additionally, the BLS detected an error in certain agency categorization procedures that likely underestimated unemployment early in the recession. Labor force participation rates were not affected by this categorization error and met BLS standards of accuracy, despite depressed response rates. BLS also identified an error in the nonfarm

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<sup>&</sup>lt;sup>1</sup> 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/recessionsfaq.html#:~:text=

What %20is%20an%20ex pansion%3F,more%20than%20a%20few%20months. & text= Expansion%20is%20the%20normal%20st ate,economy%3B%20most%20recessions%20are%20brief.

<sup>&</sup>lt;sup>2</sup> The Great Recession was a particularly long recession, characterized by a steady and large increase in unemployment and unprecedented decreases in labor force participation. The unemployment rates observed during the Great Recession, however, never surpassed those of the early 1980s. For more on labor force metrics during the Great Recession see CRS Report R45330, *Labor Market Patterns Since 2007*, by Sarah A. Donovan and Marc Labonte.

<sup>&</sup>lt;sup>3</sup> Defined as the percentage of persons in the overall adult population who either have a job or are looking for a job.

<sup>&</sup>lt;sup>4</sup> See CRS Insight IN11388, COVID-19: U.S. Economic Effects, by Rena S. Miller and Marc Labonte.

<sup>&</sup>lt;sup>5</sup> For a list of state-level stay-at-home orders and estimates of the impact of these orders on risk mitigation, see Amanda Moreland, Christine Herlihy, and Michael A. Tynan et al., *Timing of State and Territorial COVID-19 Stay-at-Home Orders and Changes in Population Movement*, Centers for Disease Control, Morbidity and Mortality Weekly Report Vol. 69 No. 35, Washington, DC, September 4, 2020, pp. 1198-1203, https://www.cdc.gov/mmwr/volumes/69/wr/mm6935a2.htm?s\_cid=mm6935a2\_w.

<sup>&</sup>lt;sup>6</sup> World Health Organization, *Coronavirus Disease* 2019 (COVID-19), Situation Report 51, March 11, 2020, p. 1, https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200311-sitrep-51-covid-19.pdf.

<sup>&</sup>lt;sup>7</sup> See CRS Insight IN11456, COVID-19: Measuring Unemployment, by Lida R. Weinstock.

<sup>&</sup>lt;sup>8</sup> For BLS impact summaries of COVID-19 on these measures, see https://www.bls.gov/covid19/effects-of-covid-19-pandemic-and-response-on-the-employment-situation-news-release.htm.

enrollment data processing system wherein some businesses were improperly included in estimates, although BLS has since determined the impacts of this error were insignificant.<sup>9</sup>

Many aspects of the labor market have recovered substantially since the onset of the pandemic. The unemployment rate in June 2021 was 5.9% and was 8.9 percentage points below its most recent peak in April 2020 (14.8%). Data from the Job Openings and Labor Turnover Survey (JOLTS) administered by BLS also point to a recovery in labor market conditions. Three procyclical metrics <sup>10</sup> tracked by the JOLTS—job openings, hires, and quits <sup>11</sup>—are at some of their highest levels since BLS began tracking these data in 2000. In May 2021, JOLTS reported that job openings were at 9.2 million, hires were at 5.9 million, and the number of quits was at 3.6 million, whereas in April 2020 job openings were at 5.4 million, hires were at 3.9 million, and the number of quits was at 2.1 million. Additional analysis of the JOLTS data is outside of the scope of this report. While certain labor market statistics are pointing to a recovery in market conditions, the report will show how many key labor market statistics have yet to reach their prepandemic levels.

This report generally finds the following:

- The unemployment rate peaked<sup>12</sup> in April 2020, at a level not seen since data collection started in 1948, before declining to a level in June 2021 that still remained 2.4 percentage points above the pre-recession rate observed in January 2020.
- In April 2020, the labor force participation rate declined to 60.2%, a level not seen since the early 1970s. Labor force participation has improved since then to 61.6%, which remains 1.8 percentage points below its pre-recession level.
- Nonfarm payrolls shed 22.1 million jobs between January 2020 and April 2020.
   In June 2021, aggregate employment remained 6.5 million jobs below its prerecession level.

## U.S. Unemployment Rate: Historical Trends

Prior recessions typically developed with gradually increasing economic distress. The most recent recession caused by the COVID-19 pandemic was an abrupt and exogenous shock to the economy. The pandemic resulted in rapidly implemented efforts to limit contact among individuals and many shutdown orders. Therefore, the trends in the unemployment rate in the most recent 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.

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 $<sup>^9</sup>$  For a description of this error, see https://www.bls.gov/ces/notices/2021/ces-sample-rotation-issue-caused-by-pandemic-related-challenges-to-enrollment.htm.

 $<sup>^{10}</sup>$  Defined here as an economic metric that increases in quantity during an economic expansion and decreases in quantity during a recession.

<sup>&</sup>lt;sup>11</sup> Job openings are defined as the number of positions that are open on the last business day of the reference month. Hires include all additions to an employer's payroll during the entire reference month. Quits are defined as the number of workers who left their jobs voluntarily, with retirements and transfers excluded. For more information on these metrics, see https://www.bls.gov/news.release/jolts.toc.htm.

<sup>&</sup>lt;sup>12</sup> Throughout this report, *peak* refers to the highest level of unemployment between January 2020 and June 2021. It does not account for months outside this range.

The most recent recession exhibited an unprecedented sharp increase in the unemployment rate (10.3 percentage points) from February to April 2020. 13 According to the National Bureau of Economic Research (NBER), the most recent recession ended in April 2020. 14 Following the end of the recession, 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 unemployment rate remains at an elevated level (5.9%) compared to February 2020. The share of workers on furlough has declined since peaking in April 2020, while the share of permanently laid off workers has steadily increased. 15 Although economic projections have generally improved since early in the recession, the Congressional Budget Office (CBO) has projected that unemployment rates over 5.0% will persist through 2021. 16

15% 10% 5% 1950 1960 1970 1980 1990 2000 2010 2020

Figure 1. Historical Unemployment Rate

Seasonally adjusted monthly data, January 1948 to June 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNS14000000 extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

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

The unemployment rate's relatively rapid decline since April 2020 may have been aided by laws passed in response to both the recession and the pandemic. Congress has passed three rounds of stimulus checks for families, 17 expanded nutrition assistance programs, 18 and enacted increases in

<sup>&</sup>lt;sup>13</sup> For information on the differences between the congressional response to the most recent 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.

 $<sup>^{14}</sup>$  For more information on the determination of this end date, see https://www.nber.org/news/business-cycle-dating-committee-announcement-july-19-2021.

<sup>&</sup>lt;sup>15</sup> 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 1.8 million in June 2021 as the number of permanent job losers increased from 2.6 million in April 2020 to 4.0 million in June 2021.

<sup>&</sup>lt;sup>16</sup> For CBO's 10-year economic projections of unemployment rates, as of July 2021, see https://www.cbo.gov/about/products/budget-economic-data#4.

<sup>&</sup>lt;sup>17</sup> For more information, see CRS Insight IN11605, COVID-19 and Direct Payments: Comparison of First and Second Round of "Stimulus Checks" to the Third Round in the American Rescue Plan Act of 2021 (ARPA; P.L. 117-2), by Margot L. Crandall-Hollick.

<sup>&</sup>lt;sup>18</sup> For more information, see CRS Report R46681, USDA Nutrition Assistance Programs: Response to the COVID-19

refundable tax credits (which are not scheduled to be disbursed until July 2021). <sup>19</sup> These provisions increase families' disposable income and those that have taken effect may have increased consumer spending, enabling businesses to better endure the recession; a 2020 study from the NBER found that higher replacement rates of lost wages led to higher consumer spending. <sup>20</sup> Congress also enacted the Paycheck Protection Program, which provides loans that can be fully forgiven if the majority of funds borrowed are used to maintain payrolls. <sup>21</sup>

Additionally, Congress expanded Unemployment Insurance (UI) program benefits and extended length of coverage. <sup>22</sup> Some say this policy could directly lead to the unemployment rate remaining above what it would be otherwise because past research has shown UI extensions can extend the duration of unemployment for a relatively small segment of unemployed workers. <sup>23</sup> As of the cover date of this report, 25 states have announced plans to opt out of expanded UI before its expiration in September 2021. Many of these states have cited the potential work disincentives of expanded UI as one reason for ending the program. <sup>24</sup> Arecent study examining data from April to July 2020 found that while UI benefit increases reduced employment by 0.2% to 0.4%, overall spending by recipients increased by 2.0% to 2.6%. <sup>25</sup> The authors note that while these expansions directly decreased employment among recipients, that increased spending among recipients may have insulated the labor market from further deterioration.

These (and other) policies may have affected unemployment rate trends in several ways; however, the causal impact of policy choices on the unemployment rate is beyond the scope of this report.

### 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 did not peak until October 2009 when it hit 10.0%. In the most recent recession, the unemployment rate increased from 3.5% in February 2020, to 4.4% in March 2020, and then peaked at a high of 14.8% in the final month of the brief economic trough (April 2020). Since then, the unemployment rate fell to 5.9% in June 2021. The increase in the unemployment

Pandemic, by Randy Alison Aussenberg and Kara Clifford Billings.

<sup>&</sup>lt;sup>19</sup> For more information, see CRS Report R46680, *The American Rescue Plan Act of 2021 (ARPA; P.L. 117-2): Title IX, Subtitle G—Tax Provisions Related to Promoting Economic Security*, by Molly F. Sherlock, Margot L. Crandall-Hollick, and Jane G. Gravelle.

<sup>&</sup>lt;sup>20</sup> Miguel G. Casado, Britta Glennon, and Julia Lane et al., *The Effect of Fiscal Stimulus: Evidence from COVID-19*, NBER, Working Paper 27576, Cambridge, MA, August 2020, https://www.nber.org/papers/w27576. For more on this topic and theories of recessionary policy, also see CRS Report R46460, *Fiscal Policy and Recovery from the COVID-19 Recession*, by Jane G. Gravelle and Donald J. Marples.

<sup>&</sup>lt;sup>21</sup> For more information, see CRS Report R46397, SBA Paycheck Protection Program (PPP) Loan Forgiveness: In Brief, by Robert Jay Dilger and Sean Lowry.

<sup>&</sup>lt;sup>22</sup> For more information, see CRS Report R46687, Current Status of Unemployment Insurance (UI) Benefits: Permanent-Law Programs and COVID-19 Pandemic Response, by Julie M. Whittaker and Katelin P. Isaacs.

<sup>&</sup>lt;sup>23</sup> The study referenced here showed that UI extensions during the Great Recession increased the unemployment rate of 0.4 percentage points. Henry S. Farber and Robert G. Valletta, *Do Extended Unemployment Benefits Lengthen Unemployment Spells? Evidence from Recent Cycles in the U.S. Labor Market*, NBER, Working Paper 19048, Cambridge, MA, May 2013, https://www.nber.org/papers/w19048.

<sup>&</sup>lt;sup>24</sup> For more information, see CRS Insight IN11679, States Opting Out of COVID-19 Unemployment Insurance (UI) Agreements, by Julie M. Whittaker and Katelin P. Isaacs.

<sup>&</sup>lt;sup>25</sup> Peter Ganong et al., *Spending and Job Search Impacts of Expanded Unemployment Benefits: Evidence from Administrative Micro Data*, Becker Friedman Institute, Working Paper No. 2021-19, Chicago, IL, February 2021, https://bfi.uchicago.edu/wp-content/uploads/2021/02/BFI\_WP\_2021-19.pdf.

rate between March and April 2020 represents the quickest month-over-month increase in the unemployment rate and the April 2020 peak represents the highest overall unemployment rate since the CPS data started being collected in 1948.<sup>26</sup> The decline in the unemployment rate of 6.4 percentage points between April 2020 and August 2020 represented the largest decline in the unemployment rate over a four-month period since the data collection began.

16% April 2020 Peak: 14.8% Unemployment Rate 12% June 2009 • Great Recession ends 8% October 2009 Peak: 10.0% June 2021 Rate of 5.9% February 2020 December 2007 COVID-19 Recession begins Great Recession begins 2005 2010 2015 2020

Figure 2. U.S. Unemployment Rate
Seasonally adjusted monthly data, November 2004 to June 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNS14000000 extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

## **COVID-19 Recession: Unemployment Trends**

The COVID-19 pandemic has affected the unemployment rates for every state, economic sector, and major demographic group. During the most recent recession, unemployment rates disproportionately increased among economic sectors delivering in-person services. Some demographic groups are overrepresented in such sectors, contributing to higher unemployment rates for those workers.<sup>27</sup>

## Unemployment Rates by State

**Figure 3** displays state-level monthly unemployment rates from January 2020 to May 2021 (the state-level data for June 2021 have not been released as of the cover date of this report). The figure shows that no state was immune from economic damage early in the pandemic. <sup>28</sup> At the

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<sup>&</sup>lt;sup>26</sup> 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.

<sup>&</sup>lt;sup>27</sup> 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.

<sup>&</sup>lt;sup>28</sup> 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.

onset of the most recent 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 nonessential services to in-person customers, <sup>29</sup> individual concerns of contracting COVID-19 causing declines in personal consumption, <sup>30</sup> and the implementation of stay-at-home orders and business closure policies. <sup>31</sup>

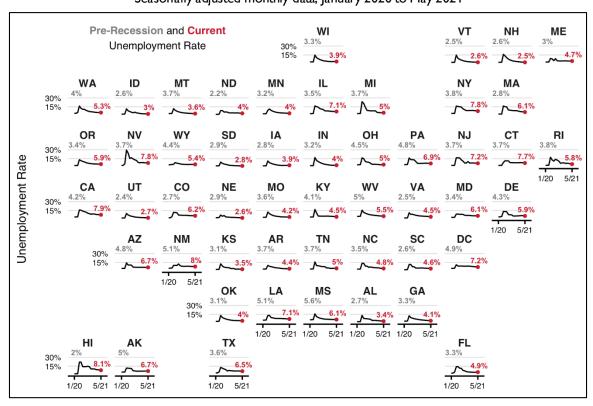


Figure 3. State Unemployment Rate
Seasonally adjusted monthly data, January 2020 to May 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series extracted using the Local Area Unemployment Statistics data series at https://www.bls.gov/lau/

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

The unemployment rate in most states peaked in April 2020 and since declined. In May 2021, the states with the highest unemployment rates were Hawaii (8.1%), New Mexico (8.0%), California (7.9%), Nevada (7.8%), and New York (7.8%). The states with the lowest unemployment rates in April 2021 were New Hampshire (2.5%), Nebraska (2.6%), Vermont (2.6%), Utah (2.7%), and South Dakota (2.8%).

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<sup>&</sup>lt;sup>29</sup> 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.

<sup>&</sup>lt;sup>30</sup> Austan Goolsbee and Chad Syverson, "Fear, lockdown, and diversion: comparing drivers of pandemic economic decline 2020," NBER Working Paper No. 27432, June 2020.

<sup>&</sup>lt;sup>31</sup> Sumedha Gupta et al., "Effects of Social Distancing Policy on Labor Market Outcomes," NBER Working Paper No. 2780, May 2020.

### Unemployment Rates by Sector

**Figure 4** displays the change in sector unemployment rates from January 2020, before the start of the most recent recession, to June 2021. Sector unemployment rates define the unemployment rate among individuals whose last job was in a particular sector. The figure shows that some sectors were disparately impacted by the recession, although the data are not seasonally adjusted. Without seasonal adjustments, it is difficult to determine the extent to which unemployment trends are related to the recession or to seasonal trends. Readers should interpret trends shown in **Figure 4** with some caution as this report does not test for statistical significance of these differences.

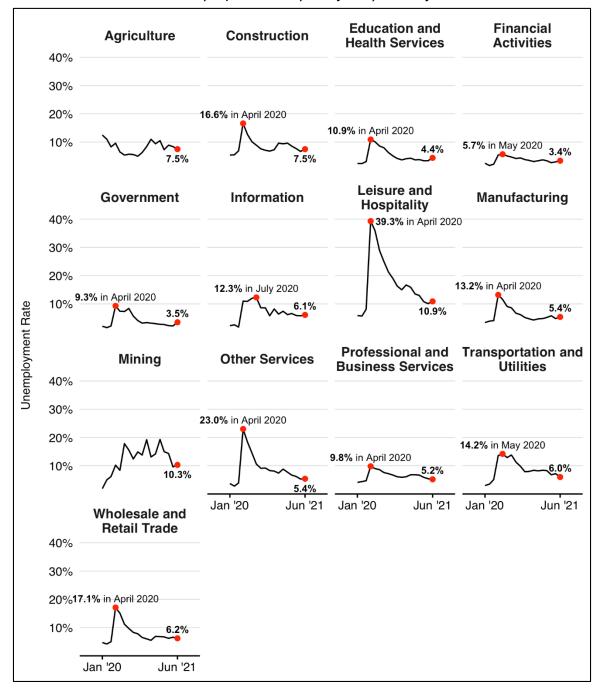


Figure 4. Unemployment Rates by Sector

Non-seasonally adjusted monthly data, January 2020 to June 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Multiple data series extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

**Notes:** Statistical significance is not calculated for these trends; it is unclear how dependent these trends are on regular seasonal variation. 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. Two sectors do not have displayed peak unemployment rates. The mining sector experienced two peaks of 19.3% in November 2020 and February 2021, while the agriculture sector experienced its peak before the most recent recession and pandemic began (12.5% in January 2020).

Workers whose last job was in the leisure and hospitality sector experienced a higher peak in unemployment (39.3% in April 2020) than did workers who were previously employed in any other sector; they also had the highest unemployment rate in June 2021 (10.9%). However, elevated unemployment rates are not constrained to sectors providing in-person services. Workers whose last job was in the mining or extraction sector have experienced steadily increasing unemployment since the onset of the recession; in June 2021 they exhibited the second highest rate (10.3%) among all workers across sectors. The lowest June 2021 rates were among workers whose last job was in the financial activities (3.4%), government (3.5%), or education and health services (4.4%) sectors. These sectors have exhibited relatively low unemployment rates compared to most other sectors from February 2020 through June 2021.<sup>32</sup> Within sectors, certain types of workers were more likely to lose their jobs than others early in the recession. For example, some studies from early in the pandemic suggest that low-wage workers in the leisure and hospitality sector and other services sectors experienced disproportionately large employment losses.<sup>33</sup>

### 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 (12.8% in April 2020). This disparity modestly reversed as the recession progressed, as the unemployment rate for part-time workers in June 2021 (5.4%) was less than the unemployment rate for full-time workers (6.0%).

There are a few considerations that may provide additional context. First, some workers who last worked part-time jobs may have left the labor force, and hence are not counted in the official unemployment statistics used in this report. It is unclear whether that is the case. Additionally, there was a considerable increase in the number of part-time workers who reported that they would have preferred to work full-time but work part-time because their hours were reduced or they could only find part-time jobs.<sup>34</sup> This could be reflected as a reduced 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.<sup>35</sup>

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 $<sup>^{32}</sup>$  These data are not seasonally adjusted and do not account for the likely seasonal variation in employment within the education and health services sector.

<sup>&</sup>lt;sup>33</sup> 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.

<sup>&</sup>lt;sup>34</sup> The number of workers working part-time for economic reasons increased from 4.4 million in February 2020 to 4.6 million in June 2021 on a seasonally adjusted basis. See https://www.bls.gov/web/empsit/cpseea07.htm.

<sup>&</sup>lt;sup>35</sup> See https://www.bls.gov/news.release/empsit.t15.htm for U-6 unemployment rates. U-6 is 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.

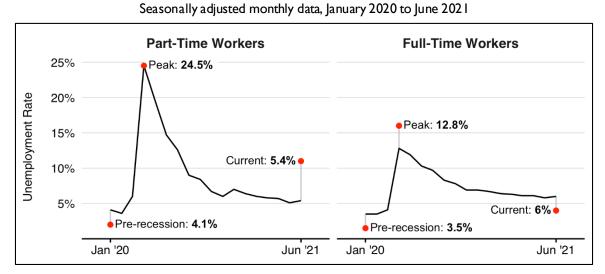


Figure 5. Unemployment Rates for Part- and Full-Time Workers

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNS14100000 and LNS14200000 extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

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 most recent recession. Between February and April 2020, the rate for women ages 16-19 increased by 25.3 percentage points to 36.3%; in contrast, the rates for men of the same age increased by 16.2 percentage points to 28.2%. Since then, the gap between younger men and women has narrowed.

The unemployment rate for teenaged men (9.5%) was lower than the rate for teenaged women (10.4%) in June 2021, although both of these rates roughly equal pre-recession levels. While unemployment rates for younger workers remain relatively high compared to older workers, the June 2021 rates for men and women across the remaining age groups have declined to levels similar to each other. The rate for men ages 20-24 (10.2%) was higher than the rate for women of the same age (7.9%). The large disparities observed in April 2020 between younger men and women were not observed in older age groups. The unemployment rate in June 2021 for women ages 25 to 54 (5.3%) was lower than the rate for men (5.6%) in that age band, while the rate for women ages 55 and over (5.0%) was slightly higher than that of men ages 55 and over (4.8%).

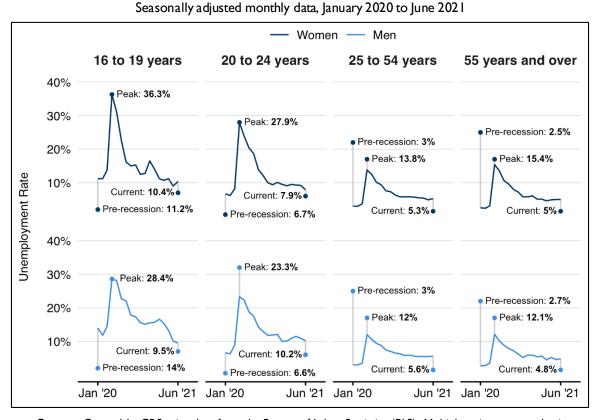


Figure 6. Unemployment Rates by Sex and Age

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Multiple series extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

Notes: Every group experienced their peak unemployment rate in April 2020.

## Unemployment Rates by Racial Group and Hispanic Ethnicity

As seen in **Figure 7**, the unemployment rates for Black, Asian, and White<sup>36</sup> 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 June 2021 rates for Black (9.2%), Asian (5.8%), and White (5.2%) workers were all higher than their respective rates in January 2020. The rate for Black workers has declined 7.5 percentage points since peaking in May 2020, compared to a decline of 9.1 percentage points for Asian workers and 8.9 percentage points for White workers across the same period.

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<sup>&</sup>lt;sup>36</sup> Black, Asian, 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/empsit.t02.htm.

**Black** Asian White 20% Peak: 16.7% Unemployment Rate Peak: 14.9% Peak: 14.1% 15% 10% Current: 9.2% 5% Current: 5.2% Current: 5.8% Pre-recession: 6.1% Pre-recession: 3.1% Pre-recession: 3% Jan '20 Jun '21 Jan '20 Jun '21 Jan '20 Jun '21

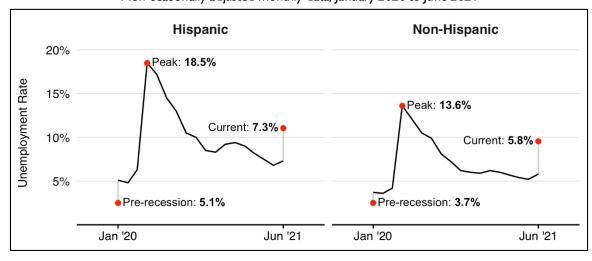
Figure 7. Unemployment Rates by Racial Group Seasonally adjusted monthly data, January 2020 to June 2021

Source: Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNS14000006, LNS14000003, and LNS14032183 extracted using the Labor Force Statistics data series at https://www.bls.gov/

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. 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%. As seen in Figure 8, Hispanic workers continue to experience elevated unemployment rates. In June 2021, nonseasonally adjusted unemployment rates experienced by Hispanic (7.3%) and non-Hispanic (5.8%) workers were higher than those experienced prior to the recession. While unemployment remains elevated compared to January 2020, these rates are much lower than the peak exhibited in April 2020.

Figure 8. Unemployment Rates by Hispanic Origin Non-seasonally adjusted monthly data, January 2020 to June 2021



Source: Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNU04000009 and LNU04092169 extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

**Notes:** Statistical significance is not calculated for these trends; it is unclear how dependent these trends are on regular seasonal variation.

### **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 most recent recession, as seen in **Figure 9**. The unemployment rate for workers with less than a high school diploma peaked in April 2020 (21.0%), which was higher than the peak for those at all other education levels. The June 2021 rate for workers with less than a high school diploma (10.2%) 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 June 2021 rate (3.5%) among all education levels.

Less than high school diploma High school graduates, no college 25% Peak: 21% Peak: 17.3% Current: 10.2% • 15% Current: 7% Unemployment Rate 5% Pre-recession: 5.7% Pre-recession: 3.7% Some college or associate degree Bachelor degree and higher 25% Peak: 15% 15% Peak: 8.4% Current: 5.8% • Current: 3.5% • 5% Pre-recession: 2.7% Pre-recession: 2% Jan '20 Jan '20 Jun '21 Jun '21

Figure 9. Unemployment Rates by Education

Seasonally adjusted monthly data, January 2020 to June 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Multiple data series extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

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

# U.S. Labor Force Participation Rate: Historical Trends

While the unemployment rate measures the prevalence of unemployment in the labor force, it does not consider the state of the labor force itself. When persons stop looking for work, they exit the labor force, decreasing the number of persons who are either working or actively looking for

work. Such persons are not counted in the unemployment rate, by definition, but are an important group to examine when evaluating unemployment. CRS therefore uses the labor force participation rate to further contextualize unemployment rates observed during the COVID-19 pandemic. The labor force participation rate measures the percentage of noninstitutionalized people ages 16 and older who are either looking for work, or working.<sup>37</sup>

Over much of the past two decades, the labor force participation rate has generally declined. Following several years of modest growth through the early and mid-90s, labor force participation rates started to plateau, hit a historical peak in April 2000 (67.3%), and then declined. Labor force participation declined further following the Great Recession, before stabilizing and steadily increasing starting in October 2015. This decline can be attributed to several factors, although one prominent reason is the ongoing retirement of the baby boomer generation. Bespite the increase exhibited following the Great Recession, the labor force participation rate in January 2020 (63.4%) prior to both the COVID-19 pandemic and economic recession remained below its historical peak.

Between February 2020 and April 2020, the labor force participation rate exhibited an unprecedented decline of 3.1 percentage points as 8.3 million people left the labor force. The participation rate partially recovered between May 2020 and August 2020 before stagnating. It remains below the pre-recession rate (63.4%) in June 2021 (61.6%).

70% 65% 60% 55% 50% 1950 1960 1970 1980 1990 2000 2010 2020

Figure 10. Historical Labor Force Participation Rate

Seasonally adjusted monthly data, January 1948 to June 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNS11300000 extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

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

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<sup>&</sup>lt;sup>37</sup> For definitions of the labor force, labor force participation rate, unemployment rate, and other relevant terms, see https://www.bls.gov/cps/definitions.htm#lfpr.

<sup>&</sup>lt;sup>38</sup> See Michael Dotsey, Shigeru Fujita, and Leena Rudanko, *Where is Everybody? The Shrinking Labor Force Participation Rate*, Federal Reserve Bank of Philadelphia, Economic Insights Vol 2. Issue 4, Philadelphia, PA, 2017, pp. 17-24, https://www.philadelphiafed.org/-/media/frbp/assets/economy/articles/economic-insights/2017/q4/eiq417.pdf.

# **COVID-19 Recession: Trends in Labor Force Participation**

The COVID-19 pandemic affected the labor force participation rates in every major demographic group. The analysis in this section compares the pre-recession (January 2020) labor force participation rate to the current labor force participation rate, calculating the difference between the two for each month between January 2020 and June 2021. **Figure 11** shows the sharp decline in the labor force participation rate for individuals ages 16 years and older between February 2020 and April 2020. During this period, 8.3 million individuals left the labor force. The overall rate recovered between May 2020 and August 2020 before stagnating. The labor force participation rate in June 2021 remains 1.8 percentage points below its pre-recession level.

-1ppt -1ppt -2ppt -3.2ppt (60.2%) in April 2020

Jan '20 Jun '21

Figure 11. Labor Force Participation Rate During COVID-19 Pandemic

Seasonally adjusted monthly data, January 2020 to June 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNS11300000 extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

**Notes:** LFPR = Labor Force Participation Rate; ppt = percentage points. Changes in LFPR since January 2020 have not been tested for statistical significance.

## Labor Force Participation Rate by Age and Sex

**Figure 12** displays the change in the labor force participation rate since January 2020 by age and sex. Between January 2020 and April 2020, every group experienced a decline in their labor force participation rate. Women aged 16 to 19 (-7.0 percentage points) and men aged 20 to 24 (-9.2 percentage points) experienced the largest declines in labor force participation between January 2020 and April 2020. Men and women in the 25-54 and 55-and-older age groups experienced smaller declines in labor force participation but have seen their recovery stagnate.



Figure 12. Labor Force Participation Rates by Age and Sex

Seasonally adjusted monthly data, January 2020 to June 202 I

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Multiple data series extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

**Notes:** LFPR = Labor Force Participation Rate; ppt = percentage points. Changes in LFPR since January 2020 have not been tested for statistical significance.

### Labor Force Participation Rate by Race and Ethnicity

**Figure 13** displays the change in the labor force participation rate for the Black, Asian, and White racial groups since January 2020. Between January 2020 and April 2020, each group experienced a sharp decline in their labor force participation rate. In June 2021, the participation rate for each group remained below its January 2020 value.

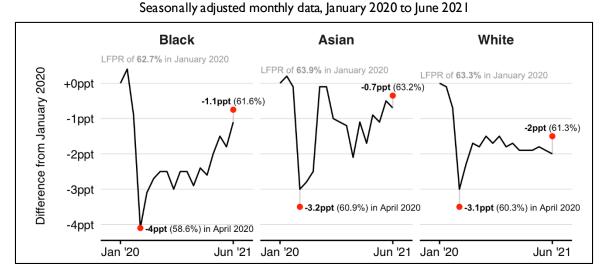


Figure 13. Labor Force Participation Rate by Race

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNS11300006, LNS11332183, and LNS11300003 extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

**Notes:** LFPR = Labor Force Participation Rate; ppt = percentage points. Changes in LFPR since January 2020 have not been tested for statistical significance.

Individuals of any race can identify as Hispanic or non-Hispanic. The data on labor force participation rate for these two ethnic groups are not seasonally adjusted. Therefore, this report is constrained to a comparison across values for January 2020 and the most recent month for which the data are available. This comparison shows that Hispanic individuals had higher participation rates in both January 2020 and June 2021 than non-Hispanic individuals, but the decline in labor force participation over this period was greater for Hispanic persons. The labor force participation rate for Non-Hispanic individuals in June 2021 was 0.8 percentage points below its value for January 2020. For Hispanic individuals, the participation rate in June 2021 was 2.0 percentage points below its January 2020 value.

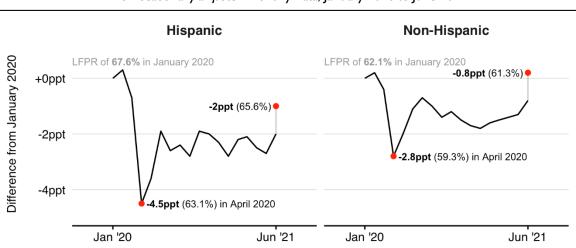


Figure 14. Labor Force Participation Rate by Hispanic Origin

Non-seasonally adjusted monthly data, January 2020 to June 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series LNU01300009 and LNU01392169 extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

**Notes:** LFPR = Labor Force Participation Rate; ppt = percentage points. Statistical significance is not calculated for these trends; it is unclear how dependent these trends are on regular seasonal variation. Changes in LFPR since January 2020 have not been tested for statistical significance.

### Labor Force Participation Rate by Educational Attainment

**Figure 15** displays the difference in the labor force participation rate from its January 2020 level for groups with different levels of educational attainment. Labor force participation fell for all groups between January 2020 and April 2020. The largest decline was experienced by those with a high school diploma but no college (-4.3 percentage points), which was followed by those with less than a high school diploma (-3.3 percentage points). In June 2021, every group remained below their labor force participation rate in January 2020. Those with a high school diploma (-2.7 percentage points) remained well below their labor force participation rates in January 2020.

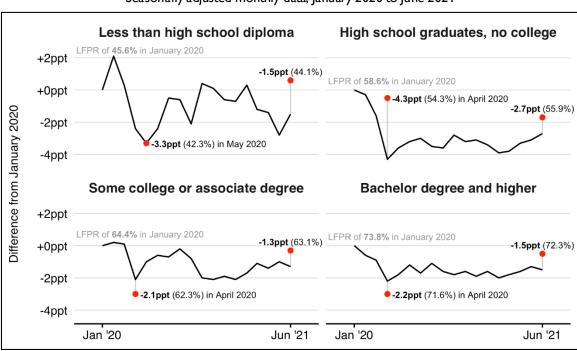


Figure 15. Labor Force Participation Rate by Educational Attainment

Seasonally adjusted monthly data, January 2020 to June 2021

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Multiple data series extracted using the Labor Force Statistics data series at https://www.bls.gov/data/.

**Notes:** LFPR = Labor Force Participation Rate; ppt = percentage points. These data reflect the civilian population that is 25 years and older. Changes in LFPR since January 2020 have not been tested for statistical significance.

# **COVID-19 Recession: Nonfarm Payrolls**

The number of nonfarm workers on payroll further contextualizes the relatively high unemployment rates observed during the COVID-19 pandemic. Unemployment rates and labor force participation rates do not measure the extent of job disruption occurring during the pandemic. By comparing the number of jobs<sup>39</sup> before the recession to recent data, CRS can evaluate the extent of job loss and put unemployment rates into a broader economic context.

**Figure 16** displays the gap between the January 2020 and June 2021 employment levels for all supersector industries in the North American Industry Classification System (NAICS).<sup>40</sup> In June 2021, there were 6.5 million fewer jobs than there were in January 2020. The largest portions of this gap were made up by the leisure and hospitality (2.1 million), education and health services (997,000), and government (874,000) sectors. While losses were concentrated in a handful of major sectors, employment gaps existed for all sectors in June 2021.

<sup>&</sup>lt;sup>39</sup> A *job* is defined as a paid position at a nonfarm business that is currently occupied. This is different from a *job opening*, which is defined as a position at a business establishment that is not occupied.

<sup>&</sup>lt;sup>40</sup> Sectors are defined by the NAICS and can be found at https://www.bls.gov/iag/tgs/iag index naics.htm.

#### Education and health Professional and Leisure and hospitality Government services business services 997,000 fewer jobs 874,000 fewer jobs **687,000** fewer jobs in June 2021 than in in June 2021 than in in June 2021 than in 2.1M fewer jobs in January 2020 January 2020 June 2021 than in January 2020 January 2020 Trade, transportation, Manufacturing Other services Construction and utilities **554,000** fewer jobs **526,000** fewer jobs **295,000** fewer jobs **183,000** fewer jobs in June 2021 than in January 2020 January 2020 January 2020 January 2020 .............. Mining and logging Financial activities Information 158,000 fewer jobs 82,000 fewer jobs in 23,000 fewer jobs in 6.5M fewer total jobs in June 2021 than in June 2021 than in June 2021 than in January 2020 January 2020 January 2020 than in January 2020 \_\_\_\_\_\_ - 10,000 jobs

Figure 16. Change in Employment by Sector

Seasonally adjusted data for June 2021; relative to January 2020

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Multiple data series extracted using the National Employment, Hours, and Earnings data series at https://www.bls.gov/data/.

**Notes:** A single purple box reflects roughly 10,000 jobs. Data for June 2021 are preliminary. "Other services" is a BLS aggregation of three subsectors: repair and maintenance, personal and laundry services, and membership associations and organizations.

### Trends in Employment in the Private Sector

**Figure 17** displays the monthly change in seasonally adjusted nonfarm jobs from January 2020 to June 2021 for six major sectors of the private sector.<sup>41</sup> The trough in job loss occurred in April 2020 for each sector in the figure. The leisure and hospitality sector experienced greater job losses (-8.3 million) than any other sector. Additionally, the leisure and hospitality sector had the largest employment gap in June 2021 (-2.1 million) compared to any other sector in that month. The trade, transportation, and utilities sector had the second most jobs lost (-3.4 million), followed by education and health services (-2.7 million), professional and business services (-2.3 million), other services<sup>42</sup> (-1.4 million), and manufacturing (-1.4 million). In June 2021, all six of these sectors had fewer jobs compared to their respective employment levels in January 2020.

<sup>&</sup>lt;sup>41</sup> For the purpose of this visualization, CRS selected the six private sectors with the largest (i.e., most negative) average losses in seasonally adjusted nonfarm jobs from January 2020 to June 2021.

<sup>&</sup>lt;sup>42</sup> "Other services" is a BLS aggregation of three subsectors: repair and maintenance, personal and laundry services, and membership associations and organizations. 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.

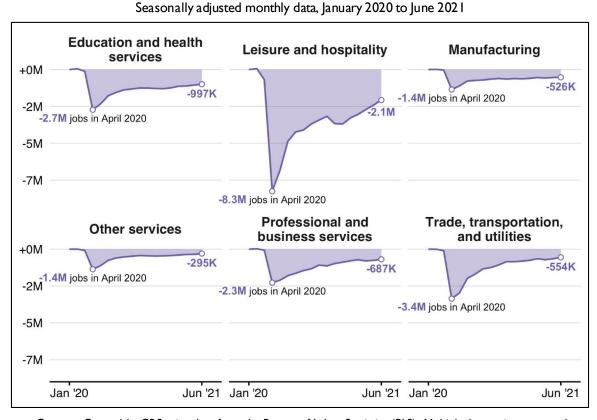


Figure 17. Job Loss During the COVID-19 Recession in the Private Sector

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Multiple data series extracted using the National Employment, Hours, and Earnings data series at https://www.bls.gov/data/.

**Notes:** M = million. Data for May and June 2021 are preliminary. Changes in employment since January 2020 have not been tested for statistical significance.

### Trends in Employment by Government Sector

**Figure 18** displays the monthly change in seasonally adjusted nonfarm jobs from January 2020 to June 2021 for three levels of government employment: federal, state, and local. While the number of federal government jobs increased during 2020 (peaking at +309,000 jobs in August), <sup>43</sup> state and local governments both experienced significant job losses. Local governments experienced the largest job losses of any government level, peaking at 1.2 million jobs lost in May. There were 798,000 fewer local government jobs in June 2021 than in January 2020. State government jobs fell throughout 2020 and peaked in October (-340,000 jobs). In June 2021, state government employment was 97,000 jobs below its January 2020 employment level.

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 $<sup>^{43}</sup>$  This peak could be due to temporary employment for those conducting activities related to the 2020 Decennial Census.

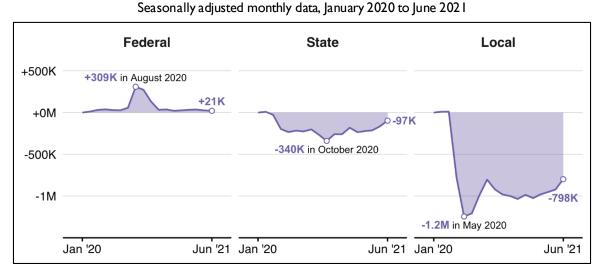


Figure 18. Job Loss During the COVID-19 Pandemic in the Public Sector

**Source:** Created by CRS using data from the Bureau of Labor Statistics (BLS). Series CES9091000001, CES9092000001, and CES9093000001 extracted using the National Employment, Hours, and Earnings data series at https://www.bls.gov/data/.

**Notes:** M = million. Data for May and June 2021 are preliminary. Changes in employment since January 2020 have not been tested for statistical significance.

### **Data Limitations and Caveats**

National level data presented in this report are from the Current Population Survey (CPS) or Current Employment Statistics (CES) survey, and state level data are from the Local Area Unemployment Statistics (LAUS) program. The CPS is a sample survey of about 60,000 households conducted by the Census Bureau for BLS. The CES is a sample survey of about 144,000 business and government agencies conducted by BLS. LAUS is a BLS program that calculates state-level unemployment rates using multiple data sources, including the CPS and CES.<sup>44</sup>

Estimates from all three sources are subject to sampling and nonsampling error.<sup>45</sup> Sampling error occurs when the survey sample is not representative of the underlying population, while nonsampling error describes errors often associated with data collection. <sup>46</sup> Sampling error is a result of statistical theory that underlies any estimate generated through surveys. While the CPS and CES samples are selected to be representative of the nation, the possibility remains that it does not accurately estimate certain nationwide statistics. <sup>47</sup> Nonsampling error refers to all sources of error that are not due to sampling. They can result from incorrect or biased collection

<sup>&</sup>lt;sup>44</sup> 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 Community Survey and Population Estimates Program; https://www.bls.gov/lau/laumthd.htm.

<sup>&</sup>lt;sup>45</sup> 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.

<sup>&</sup>lt;sup>46</sup> For more information, see https://www.bls.gov/opub/hom/topic/error-measurements.htm.

<sup>&</sup>lt;sup>47</sup> For more information, see https://www.bls.gov/opub/hom/topic/sampling.htm.

and processing of the data. For example, nonsampling error can occur if a surveyor incorrectly records responses or a respondent incorrectly responds to a question.

#### **COVID 19 Pan demic-Related Data Issues**

The COVID-19 pandemic increased nonsampling error in the CPS and CES due to a number of factors. For example, BLS reported that both surveys experienced lower response rates.<sup>48</sup> BLS additionally noted that business closures initially interfered with the ability for businesses to respond to CES inquiries. (The bureau has since made statements affirming the robustness of its CPS and CES estimates despite these lower response rates.<sup>49</sup>) Furthermore, BLS detected an error in its CPS categorization procedures that likely underestimated unemployment early in the recession.<sup>50</sup> 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. This report does not use these adjusted estimates as they are not official BLS estimates. 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, 0.6 in January 2021, 0.5 in February 2021, 0.4 in March 2021, 0.3 in April 2021, and 0.3 in May 2021. In June 2021, the error underestimated seasonally adjusted unemployment by an estimated 0.2 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." In later months, BLS made efforts to correct this classification error during data collection and processing. Sample of the misclassification error during data collection and processing.

Additionally, BLS recently identified a data processing error in the CES, which began in July 2020 but remained undetected. The error unintentionally caused some businesses to be inappropriately included in the sample and used for estimates. BLS has since determined the impacts of this error were insignificant.<sup>54</sup>

LAUS was impacted by both the low response rate and the categorization error due to its connection with the CPS and CES. Considering that LAUS is dependent on a number of other data sources that were impacted by COVID-19 in their own right, the net effect of the pandemic on LAUS estimates is unknown.<sup>55</sup>

<sup>&</sup>lt;sup>48</sup> 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.

<sup>&</sup>lt;sup>49</sup> See https://www.bls.gov/covid19/employment-situation-covid19-faq-april-2020.htm.

<sup>&</sup>lt;sup>50</sup> See CRS Insight IN11456, COVID-19: Measuring Unemployment, by Lida R. Weinstock.

 $<sup>^{51}</sup>$  See https://www.bls.gov/covid19/effects-of-covid-19-pandemic-and-response-on-the-employment-situation-news-release.htm.

 $<sup>^{52} \</sup> See \ https://www.bls.gov/covid19/employment-situation-covid19-faq-may-2021.htm.$ 

<sup>&</sup>lt;sup>53</sup> 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.

 $<sup>^{54}</sup>$  For the BLS notice on this error, see https://www.bls.gov/ces/notices/2021/ces-sample-rotation-issue-caused-by-pandemic-related-challenges-to-enrollment.htm.

<sup>&</sup>lt;sup>55</sup> 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.

### **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. 56 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 presents unadjusted data that do not account for underlying seasonal variation.
- Reference week: In general, CPS data are collected for the calendar week containing the 12<sup>th</sup> of the month. CES data are collected for the pay period including the 12<sup>th</sup> of the month. This could lead to incongruity between actual labor force conditions over the course of a month and the conditions observed, as well as inconsistencies between CES-reported data and CPS-reported data.
- *CPS and LAUS unemployment rate 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.

### **Author Information**

Gene Falk, Coordinator Isaac A. Nicchitta Specialist in Social Policy Research Assistant

Paul D. Romero Emma C. Nyhof Research Assistant Research Assistant

James on A. Carter Research Assistant

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 $<sup>^{56}</sup>$  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/lauseas.htm.

### Disclaimer

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