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# The COVID-19 Initial Unemployment Claims Spike in Context

Posted on March 26, 2020 by steve in R

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The U.S. Employment and Training Administration released its weekly update on initial unemployment claims, giving us the first glimpse of the economic implications of the COVID-19 pandemic beyond the fluctuation we're observing in the stock market. And... yikes.

The data are grisly and some R code will illustrate that. First, here are the packages necessary to put this unemployment claims spike in context. **{tidyverse}** comes at



A woman walks wearing a mask to protect herself from the novel coronavirus (COVID-19) in front of a closed theater in Koreatown, Los Angeles, on March 21, 2020. (AFP, GETTY IMAGES)

the fore of my workflow. {stevemisc} is my toy R package and {stevedata} has a data set on U.S. recessions (recessions) for added context. It should be no surprise that unemployment climbs during these periods. Finally, {fredr} interacts with the Federal Reserve Economic Data maintained by the research division of the Federal Reserve Bank of St. Louis. The API is the easiest and most flexible of any I've used and I wish the IMF's API were as simple. {lubridate} will help us play with dates.

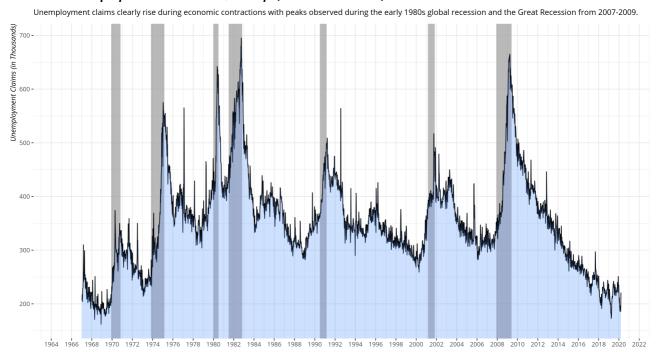
```
library(tidyverse)
library(stevemisc)
library(stevedata)
library(fredr)
library(lubridate)
```

The {fredr} call is simple. The initial unemployment claims data has a series id of "ICSA" and the data extend to January 1967. Let's grab everything we can.

Here's what the data looked like before today.

```
ICSA %>%
  filter(date < ymd("2020-03-14")) %>%
  ggplot(.,aes(date, value/1000)) +
  theme_steve_web() +
  scale_x_date(date_breaks = "2 years",
               date labels = "%Y",
               limits = as.Date(c('1965-01-01','2020-04-01'))) +
  geom_rect(data=filter(recessions, year(peak)>1966), inherit.aes=F,
            aes(xmin=peak, xmax=trough, ymin=-Inf, ymax=+Inf), fill='darkgray
     geom line() +
    geom_ribbon(aes(ymin=-Inf, ymax=value/1000),
              alpha=0.3, fill="#619CFF") +
  labs(title = "Initial Unemployment Claims From January 7, 1967 to March 14,
       subtitle = "Unemployment claims clearly rise during economic contracti
       x = "", y = "Unemployment Claims (in Thousands)",
       caption = "Data: U.S. Employment and Training Administration (initial
```

#### Initial Unemployment Claims From January 7, 1967 to March 14, 2020



Data: U.S. Employment and Training Administration (initial claims), National Bureau of Economic Research (recessions).

The peaks in the early 1980s and from 2007 to 2009 are immediately evident. Those periods coincided with global recessions in which the unemployment rate in the U.S. (calculated monthly) exceeded 10% of the civilian labor force.

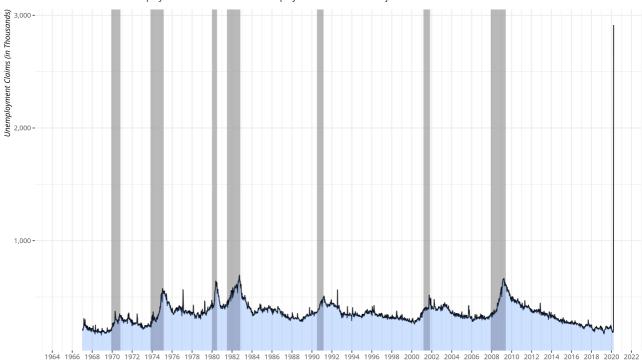
Now, here's what the data look like as of today.

```
ICSA %>%
```

```
# change just one line
filter(date < ymd("2020-03-21")) %>%
ggplot(.,aes(date, value/1000)) +
theme steve web() +
scale_x_date(date_breaks = "2 years",
             date_labels = "%Y",
             limits = as.Date(c('1965-01-01','2020-04-01'))) +
geom_rect(data=filter(recessions, year(peak)>1966), inherit.aes=F,
          aes(xmin=peak, xmax=trough, ymin=-Inf, ymax=+Inf), fill='darkgray
   geom line() +
  geom ribbon(aes(ymin=-Inf, ymax=value/1000),
            alpha=0.3, fill="#619CFF") +
scale_y_continuous(labels = scales::comma) +
labs(title = "Initial Unemployment Claims From January 7, 1967 to March 21,
     subtitle = "The almost 3.3 million unemployment claims dwarfs the unem
    x = "", y = "Unemployment Claims (in Thousands)",
    caption = "Data: U.S. Employment and Training Administration (initial
```

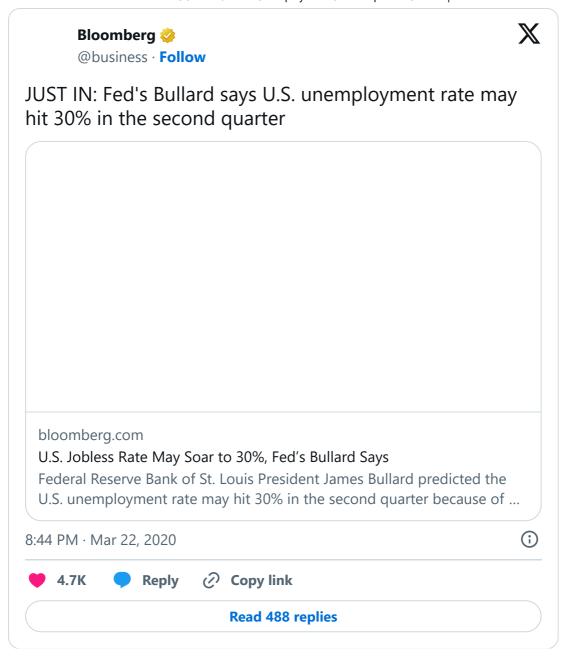
## Initial Unemployment Claims From January 7, 1967 to March 21, 2020





Data: U.S. Employment and Training Administration (initial claims), National Bureau of Economic Research (recessions).

I'll come back and update this when the states roll out their updates, but it does have me thinking about this dire warning from the President of the Federal Reserve Bank of St. Louis.



Standardizing initial claims to the (growing) civilian labor force of the United States lends to some worry that estimate might be too low. Basically, the initial claims as a proportion of the civilian labor force, right now, is **four times** what it was at the peak of the Great Recession and the early 1980s recession. Therein, the unemployment rate was between 10-11%. The extent to which initial claims is a sneak peek of the monthly unemployment rate, 30% might be too low an estimate.

Alas, I'll defer to the President of the FRED's division in St. Louis. He'll know more than me. I just know how to play with the data that his research division releases.

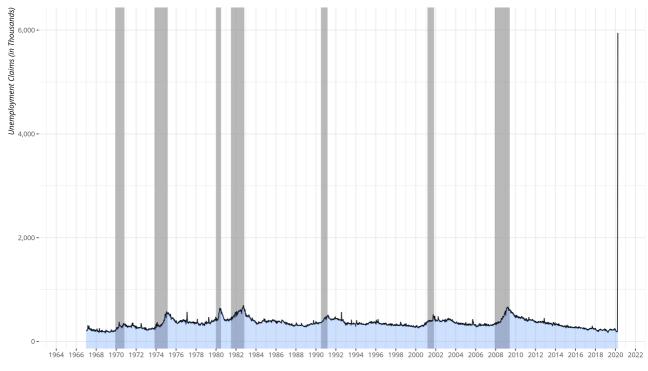
Update for April 2, 2020

Gulp.

```
ICSA %>%
# Omit the filter
#filter(date ≤ ymd("2020-03-21")) %>% # Commenting out just one line.
```

#### Initial Unemployment Claims From January 7, 1967 to the Present





Data: U.S. Employment and Training Administration (initial claims), National Bureau of Economic Research (recessions).

The state-level initial claims data also offer an insight to what COVID-19 has done to unemployment. These indicators seem to lag a week behind the national figures so the most recent national update for today (*gulp*) also comes with more insight to the jarring statistics released last week.

This script will grab the most current data for initial claims for all 50 states.

```
# Initial claims data
stateclaimsabbs ← paste0(c(state.abb),"ICLAIMS")
sclaims ← tibble()
```

```
for (i in 1:length(stateclaimsabbs)) {
  fredr(series_id = stateclaimsabbs[i],
        observation_start = as.Date("1986-01-01")) → hold_this
  bind_rows(sclaims, hold_this) → sclaims
}
```

This will show which states were hit the hardest by the spate of unemployment claims starting last week.

## COVID-19's First Effect on Unemployment Claims, by State

Rank	State	Initial Claims (March 21, 2020)	Initial Claims (March 14, 2020)	% Change
1	NH	29,379	642	4476.17%
2	ME	21,459	634	3284.7%
3	RI	35,847	1,108	3135.29%
4	LA	72,438	2,255	3112.33%
5	MN	115,773	4,010	2787.11%
6	ОН	196,309	7,046	2686.11%
7	NC	94,083	3,533	2562.98%
8	MI	128,006	5,338	2298.01%
9	PA	363,000	15,439	2251.19%
10	IN	59,755	2,596	2201.81%
11	DE	10,776	472	2183.05%
12	NM	18,105	869	1983.43%
13	MA	148,452	7,449	1892.91%
14	NE	15,861	819	1836.63%
15	MT	15,349	817	1778.7%
16	IA	40,952	2,229	1737.24%
17	KY	49,023	2,785	1660.25%
18	VA	46,277	2,706	1610.16%

19         SC         31,826         2,093         1420,59%           20         UT         19,690         1,305         1408,81%           21         NV         92,298         6,356         1352,14%           22         TN         38,077         2,702         1309,22%           23         ND         5,662         415         1264,34%           24         ID         13,586         1,031         1217,75%           25         NJ         115,815         9,467         1123,35%           26         OK         21,926         1,836         1094,23%           27         FL         74,313         6,463         1049,82%           28         IL         126,716         11,305         1020,88%           29         MD         42,982         3,864         1012,37%           30         KS         19,356         1,755         1002,91%           31         MO         42,246         4,016         951,94%           32         WI         51,031         5,190         83,26%           33         TX         155,426         16,176         80,84%           34         SD         1,761<	Rank	State	Initial Claims (March 21, 2020)	Initial Claims (March 14, 2020)	% Change
21         NV         92,298         6,356         1352,1496           22         TN         38,077         2,702         1309,2296           23         ND         5,662         415         1264,3496           24         ID         13,586         1,031         1217,7596           25         NJ         115,815         9,467         1123,3596           26         OK         21,926         1,836         1094,2396           27         FL         74,313         6,463         1049,8296           28         IL         126,716         11,305         102,8896           29         MD         42,982         3,864         1012,3796           30         KS         19,356         1,755         1002,9196           31         MO         42,282         3,864         1012,3796           32         WI         51,031         5,190         883,2696           33         TX         155,426         16,176         860,8496           34         SD         1,761         190         826,8496           35         WA         129,909         14,240         812,2886           36         CO	19	SC	31,826	2,093	1420.59%
22         TN         38,077         2,702         1309,22%           23         ND         5,662         415         1264,34%           24         ID         13,586         1,031         1217,75%           25         NJ         115,815         9,467         1123,35%           26         OK         21,926         1,836         1094,23%           27         FL         74,313         6,463         1049,82%           28         IL         126,716         11,305         1020,88%           29         MD         42,982         3,864         1012,37%           30         KS         19,356         1,755         1002,91%           31         MO         42,246         4,016         951,94%           32         WI         51,031         5,190         883,26%           33         TX         155,426         16,176         860,84%           34         SD         1,761         190         826,84%           35         WA         129,909         14,240         812,28%           36         CO         19,774         2,321         751,96%           37         AZ         29,348 </td <td>20</td> <td>UT</td> <td>19,690</td> <td>1,305</td> <td>1408.81%</td>	20	UT	19,690	1,305	1408.81%
23         ND         5,662         415         1264.34%           24         ID         13,586         1,031         1217.75%           25         NJ         115,815         9,467         1123,35%           26         OK         21,926         1,836         1094,23%           27         FL         74,313         6,463         1049,82%           28         IL         126,716         11,305         1020,88%           29         MD         42,982         3,864         1012,37%           30         KS         19,356         1,755         1002,91%           31         MO         42,246         4,016         951,94%           32         WI         51,031         5,190         883,26%           33         TX         155,426         16,176         860,84%           34         SD         1,761         190         826,84%           35         WA         129,909         14,240         812,28%           36         CO         19,774         2,321         751,96%           37         AZ         29,348         3,844         663,48%           38         CT         25,100 <td>21</td> <td>NV</td> <td>92,298</td> <td>6,356</td> <td>1352.14%</td>	21	NV	92,298	6,356	1352.14%
24         ID         13,586         1,031         1217.75%           25         NJ         115,815         9,467         1123.35%           26         OK         21,926         1,836         1094.23%           27         FL         74,313         6,463         1049.82%           28         IL         126,716         11,305         1020.88%           29         MD         42,982         3,864         1012,37%           30         KS         19,356         1,755         1002,91%           31         MO         42,246         4,016         951,94%           32         WI         51,031         5,190         883,26%           33         TX         155,426         16,176         860,84%           34         SD         1,761         190         826,84%           34         SD         1,761         190         826,84%           35         WA         129,909         14,240         812,28%           36         CO         19,774         2,321         751,96%           37         AZ         29,348         3,844         663,48%           38         CT         25,100 <td>22</td> <td>TN</td> <td>38,077</td> <td>2,702</td> <td>1309.22%</td>	22	TN	38,077	2,702	1309.22%
25         NJ         115,815         9,467         1123,35%           26         OK         21,926         1,836         1094,23%           27         FL         74,313         6,463         1049,82%           28         IL         126,716         11,305         1020,88%           29         MD         42,982         3,864         1012,37%           30         KS         19,356         1,755         1002,91%           31         MO         42,246         4,016         951,94%           32         WI         51,031         5,190         883,26%           33         TX         155,426         16,176         860,84%           34         SD         1,761         190         826,84%           35         WA         129,909         14,240         812,28%           36         CO         19,774         2,321         751,96%           37         AZ         29,348         3,844         663,48%           38         CT         25,100         3,440         629,65%           39         WY         3,653         517         606,58%           40         OR         30,054	23	ND	5,662	415	1264.34%
26         OK         21,926         1,836         1094.23%           27         FL         74,313         6,463         1049.82%           28         IL         126,716         11,305         1020.88%           29         MD         42,982         3,864         1012.37%           30         KS         19,356         1,755         1002.91%           31         MO         42,246         4,016         951.94%           32         WI         51,031         5,190         883.26%           33         TX         155,426         16,176         860.84%           34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847	24	ID	13,586	1,031	1217.75%
27         FL         74,313         6,463         1049.82%           28         IL         126,716         11,305         1020.88%           29         MD         42,982         3,864         1012.37%           30         KS         19,356         1,755         1002.91%           31         MO         42,246         4,016         951.94%           32         WI         51,031         5,190         883.26%           33         TX         155,426         16,176         860.84%           34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275	25	NJ	115,815	9,467	1123.35%
28         IL         126,716         11,305         1020.88%           29         MD         42,982         3,864         1012.37%           30         KS         19,356         1,755         1002.91%           31         MO         42,246         4,016         951.94%           32         WI         51,031         5,190         883.26%           33         TX         155,426         16,176         860.84%           34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892	26	OK	21,926	1,836	1094.23%
29         MD         42,982         3,864         1012.37%           30         KS         19,356         1,755         1002.91%           31         MO         42,246         4,016         951.94%           32         WI         51,031         5,190         883.26%           33         TX         155,426         16,176         860.84%           34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892         1,819         498.79%           44         VT         3,784         <	27	FL	74,313	6,463	1049.82%
30         KS         19,356         1,755         1002.91%           31         MO         42,246         4,016         951.94%           32         WI         51,031         5,190         883.26%           33         TX         155,426         16,176         860.84%           34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892         1,819         498.79%           44         VT         3,784         659         474.2%           45         NY         79,999         1	28	IL	126,716	11,305	1020.88%
31         MO         42,246         4,016         951.94%           32         WI         51,031         5,190         883.26%           33         TX         155,426         16,176         860.84%           34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892         1,819         498.79%           44         VT         3,784         659         474.2%           45         NY         79,999         14,272         460.53%           46         HI         8,817         1,	29	MD	42,982	3,864	1012.37%
32         WI         51,031         5,190         883.26%           33         TX         155,426         16,176         860.84%           34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892         1,819         498.79%           44         VT         3,784         659         474.2%           45         NY         79,999         14,272         460.53%           46         HI         8,817         1,589         454.88%           47         MS         5,519         1,1	30	KS	19,356	1,755	1002.91%
33         TX         155,426         16,176         860.84%           34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892         1,819         498.79%           44         VT         3,784         659         474.2%           45         NY         79,999         14,272         460.53%           46         HI         8,817         1,589         454.88%           47         MS         5,519         1,147         381.17%           48         WV         3,536         865<	31	MO	42,246	4,016	951.94%
34         SD         1,761         190         826.84%           35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892         1,819         498.79%           44         VT         3,784         659         474.2%           45         NY         79,999         14,272         460.53%           46         HI         8,817         1,589         454.88%           47         MS         5,519         1,147         381.17%           48         WV         3,536         865         308.79%           49         CA         186,333         57,606<	32	WI	51,031	5,190	883.26%
35         WA         129,909         14,240         812.28%           36         CO         19,774         2,321         751.96%           37         AZ         29,348         3,844         663.48%           38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892         1,819         498.79%           44         VT         3,784         659         474.2%           45         NY         79,999         14,272         460.53%           46         HI         8,817         1,589         454.88%           47         MS         5,519         1,147         381.17%           48         WV         3,536         865         308.79%           49         CA         186,333         57,606         223.46%	33	TX	155,426	16,176	860.84%
36       CO       19,774       2,321       751.96%         37       AZ       29,348       3,844       663.48%         38       CT       25,100       3,440       629.65%         39       WY       3,653       517       606.58%         40       OR       30,054       4,269       604.01%         41       AK       7,847       1,120       600.62%         42       AR       9,275       1,382       571.13%         43       AL       10,892       1,819       498.79%         44       VT       3,784       659       474.2%         45       NY       79,999       14,272       460.53%         46       HI       8,817       1,589       454.88%         47       MS       5,519       1,147       381.17%         48       WV       3,536       865       308.79%         49       CA       186,333       57,606       223.46%	34	SD	1,761	190	826.84%
37       AZ       29,348       3,844       663.48%         38       CT       25,100       3,440       629.65%         39       WY       3,653       517       606.58%         40       OR       30,054       4,269       604.01%         41       AK       7,847       1,120       600.62%         42       AR       9,275       1,382       571.13%         43       AL       10,892       1,819       498.79%         44       VT       3,784       659       474.2%         45       NY       79,999       14,272       460.53%         46       HI       8,817       1,589       454.88%         47       MS       5,519       1,147       381.17%         48       WV       3,536       865       308.79%         49       CA       186,333       57,606       223.46%	35	WA	129,909	14,240	812.28%
38         CT         25,100         3,440         629.65%           39         WY         3,653         517         606.58%           40         OR         30,054         4,269         604.01%           41         AK         7,847         1,120         600.62%           42         AR         9,275         1,382         571.13%           43         AL         10,892         1,819         498.79%           44         VT         3,784         659         474.2%           45         NY         79,999         14,272         460.53%           46         HI         8,817         1,589         454.88%           47         MS         5,519         1,147         381.17%           48         WV         3,536         865         308.79%           49         CA         186,333         57,606         223.46%	36	CO	19,774	2,321	751.96%
39       WY       3,653       517       606.58%         40       OR       30,054       4,269       604.01%         41       AK       7,847       1,120       600.62%         42       AR       9,275       1,382       571.13%         43       AL       10,892       1,819       498.79%         44       VT       3,784       659       474.2%         45       NY       79,999       14,272       460.53%         46       HI       8,817       1,589       454.88%         47       MS       5,519       1,147       381.17%         48       WV       3,536       865       308.79%         49       CA       186,333       57,606       223.46%	37	AZ	29,348	3,844	663.48%
40OR30,0544,269604.01%41AK7,8471,120600.62%42AR9,2751,382571.13%43AL10,8921,819498.79%44VT3,784659474.2%45NY79,99914,272460.53%46HI8,8171,589454.88%47MS5,5191,147381.17%48WV3,536865308.79%49CA186,33357,606223.46%	38	CT	25,100	3,440	629.65%
41       AK       7,847       1,120       600.62%         42       AR       9,275       1,382       571.13%         43       AL       10,892       1,819       498.79%         44       VT       3,784       659       474.2%         45       NY       79,999       14,272       460.53%         46       HI       8,817       1,589       454.88%         47       MS       5,519       1,147       381.17%         48       WV       3,536       865       308.79%         49       CA       186,333       57,606       223.46%	39	WY	3,653	517	606.58%
42AR9,2751,382571.13%43AL10,8921,819498.79%44VT3,784659474.2%45NY79,99914,272460.53%46HI8,8171,589454.88%47MS5,5191,147381.17%48WV3,536865308.79%49CA186,33357,606223.46%	40	OR	30,054	4,269	604.01%
43       AL       10,892       1,819       498.79%         44       VT       3,784       659       474.2%         45       NY       79,999       14,272       460.53%         46       HI       8,817       1,589       454.88%         47       MS       5,519       1,147       381.17%         48       WV       3,536       865       308.79%         49       CA       186,333       57,606       223.46%	41	AK	7,847	1,120	600.62%
44VT3,784659474.2%45NY79,99914,272460.53%46HI8,8171,589454.88%47MS5,5191,147381.17%48WV3,536865308.79%49CA186,33357,606223.46%	42	AR	9,275	1,382	571.13%
45NY79,99914,272460.53%46HI8,8171,589454.88%47MS5,5191,147381.17%48WV3,536865308.79%49CA186,33357,606223.46%	43	AL	10,892	1,819	498.79%
46       HI       8,817       1,589       454.88%         47       MS       5,519       1,147       381.17%         48       WV       3,536       865       308.79%         49       CA       186,333       57,606       223.46%	44	VT	3,784	659	474.2%
47 MS       5,519       1,147       381.17%         48 WV       3,536       865       308.79%         49 CA       186,333       57,606       223.46%	45	NY	79,999	14,272	460.53%
48       WV       3,536       865       308.79%         49       CA       186,333       57,606       223.46%	46	НІ	8,817	1,589	454.88%
49 CA 186,333 57,606 223.46%	47	MS	5,519	1,147	381.17%
	48	WV	3,536	865	308.79%
50 GA 12,140 5,445 122.96%	49	CA	186,333	57,606	223.46%
	50	GA	12,140	5,445	122.96%

Basically, every state was rocked, some more than others. New Hampshire saw the largest increase from March 14 to March 21. Only 642 people in New Hampshire filed a new jobless claim in the March 14 update. That number skyrocketed to 29,379 in the March 21 update. That is a change of over 4,476 percent. There are four curious states at the bottom: Mississippi, West Virginia, California, and Georgia. To be clear, all four had massive increases from the previous week, all at least doubling from the previous week. West Virginia and Mississippi even tripled. However, California stands out as taking more proactive measures quicker than the other three states, which might suggest worse is yet to come for states like Mississippi and Georgia. For example, Mississippi's governor rejected calls for a lockdown on March 23 by claiming the state will "never be China" on the COVID-19 front. Now, it has the country's highest hospitalization rate for COVID-19. Georgia's governor similarly downplayed COVID-19 before finally rolling out a shelter-in-place order. The economic consequences of these later measures we're seeing in the Deep South may manifest in subsequent updates.

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