

Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

### Data Insights: Covid-2019 Monitor

Wednesday, April 15, 2020

### The global scorecard



#### For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com

Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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# The US scorecard

National and state-by-state data do not line up because of different sources

| The ten worst US states      |                            |                     |             |                 |                  |                 |               |                 |                |                                       |               |
|------------------------------|----------------------------|---------------------|-------------|-----------------|------------------|-----------------|---------------|-----------------|----------------|---------------------------------------|---------------|
| New infections               |                            | New Deaths          |             | New in hospital |                  | Cume infections |               | Cume deaths     |                | Cume in hospital                      |               |
| NY                           | +7,177                     | NY                  | +778        | NY              | + 3,489          | NY              | 202,208       | NY              | 10,834         | NY                                    | 46,201        |
| NJ                           | + 4,240                    | NJ                  | + 362       | FL              | +227             | NJ              | 68,824        | NJ              | 2,805          | FL                                    | 3,060         |
| MI                           | +1,366                     | MI                  | + 166       | NM              | + 181            | MA              | 28,163        | MI              | 1,768          | GA                                    | 2,769         |
| MA                           | +1,296                     | LA                  | + 129       | GA              | + 180            | MI              | 27,001        | LA              | 1,013          | MA                                    | 2,340         |
| IL                           | +1,222                     | MA                  | + 113       | SC              | + 179            | PA              | 25,345        | MA              | 957            | OH                                    | 2,156         |
| PA                           | +1,146                     | IL                  | +74         | MD              | + 147            | CA              | 23,338        | IL              | 868            | MD                                    | 2,122         |
| CA                           | +990                       | CA                  | +71         | OH              | + 123            | IL              | 23,247        | CA              | 758            | CO                                    | 1,493         |
| GA                           | +908                       | CT                  | +69         | WI              | +56              | LA              | 21,518        | CT              | 671            | WI                                    | 1,049         |
| R.                           | +766                       | PA                  | +60         | TN              | +54              | R.              | 21,367        | PA              | 584            | SC                                    | 675           |
| TX                           | +718                       | <u> </u>            | +54         | MS              | + 47             | TX              | 14,624        | <u> </u>        | 537            | KY                                    | 673           |
|                              | + 19,829                   |                     | + 1,876     |                 | + 4,683          |                 | 455,635       |                 | 20,795         |                                       | 62,538        |
| All states                   | +25.699                    | All states          | +2.299      | All states      | + 4.874          | All states      | 602.473       | All states      | 25.668         | All states                            | 67.547        |
| Top ten                      | 77%                        | Top ten             | 82%         | Top ten         | 96%              | Top ten         | 76%           | Top ten         | 81%            | Top ten                               | 93%           |
|                              |                            |                     |             |                 |                  |                 |               |                 |                |                                       |               |
| Five most improved US states |                            |                     |             |                 |                  |                 |               |                 |                |                                       |               |
| rewer                        |                            | tions               | rewe        |                 | ns               | rewer           | new nospr     |                 |                | wost recove                           | ries          |
| ω                            | -784                       |                     |             |                 | 20               |                 | RI -3.        | 31              |                | VA                                    | + 721         |
| CT                           | -738                       |                     |             | WA -            | .9               |                 | KY -20        | )2              |                | TX                                    | +311          |
| R.                           | -480                       |                     |             | AR -            | 3                |                 | WV -16        | 54              |                | TN                                    | +298          |
| PA                           | -220                       |                     |             | RI -            | 3                |                 | MA -10        | )5              |                | AZ                                    | +249          |
| ан                           | -193                       |                     |             | VA -            | 3                |                 | -7            | 5               |                | CK                                    | + 195         |
| 10.000                       |                            |                     |             |                 |                  |                 |               |                 |                |                                       | 0.00          |
| 40,000                       | 11                         |                     |             |                 |                  |                 |               |                 |                |                                       | <b>−</b> 8.0% |
|                              | Unit                       | ed States           |             |                 | As of            | Apr 15          |               |                 |                |                                       |               |
| 35,000 -                     | 18.713                     | bp of population in | fected      |                 |                  | - î             |               |                 |                | $\Lambda$                             | - 7.0%        |
|                              | 38.1 median population age |                     |             |                 |                  |                 |               |                 |                |                                       |               |
| 30.000 -                     |                            |                     |             |                 |                  |                 | 60:           | +26 922 cases c | s todav        | $\mathcal{A}\mathcal{A}$              | - 6.0%        |
| 00,000                       |                            |                     |             |                 |                  |                 |               | 20,022 0000     | 5 today        |                                       |               |
| st                           |                            |                     |             |                 | _                |                 |               |                 |                |                                       | 7             |
| - 25,000 E                   |                            | 3 098 235 tests     | s cume      |                 |                  |                 | Fatal         | lity rate / 28% |                |                                       | - 5.0%        |
| and                          |                            | 0,000,200 000       | ounic       |                 |                  |                 | Tata          | inty late +.207 |                |                                       | ase           |
| g 20,000 -                   |                            |                     |             |                 | λ.               |                 | $\mathcal{N}$ |                 |                |                                       | - 4.0% at     |
| × C0                         |                            | 440.070             |             | $\sim$          | $\sim \sim \sim$ |                 | $\sim$        |                 | / \            |                                       | lity ra       |
|                              |                            | 146,070 tests       | s today     | لمر             | v -              |                 |               |                 | /              |                                       | ate           |
| TE 15,000 -                  |                            |                     |             |                 |                  |                 |               |                 | 1              | and the second second                 | - 3.0%        |
|                              |                            |                     | - AA        |                 |                  |                 | L.            |                 |                | e e e e e e e e e e e e e e e e e e e |               |
| 10,000 -                     |                            | 17.5% positive      | e today ү 🗸 |                 | m                |                 | Ň             | Λ               |                |                                       | - 2.0%        |
|                              |                            |                     |             | $\mathcal{M}$   | · V •            |                 |               | $\sum L$        | and the second |                                       |               |
| E 000                        |                            |                     |             |                 |                  |                 |               | 100             | 0E7 dooth      | o oumulativo                          | 1.00/         |
| 3,000                        |                            |                     |             |                 |                  |                 |               | 20,<br>+        | -2.408 de      | aths today                            | 1.0/0         |
|                              |                            |                     |             |                 |                  |                 |               |                 | _,             |                                       | 1             |
| _+                           |                            |                     | ·····       |                 |                  |                 |               |                 |                |                                       | ⊥ 0.0%        |
| Dec                          | 31 Jan 7                   | Jan 14 Jan 21       | Jan 28 F    | eb 4 Feb 11     | L Feb 18 Fe      | eb 25 Mar 3     | Mar 10        | Mar 17 Mar 2    | 24 Mar 31      | L Apr 7 Apr                           | 14            |

Source: States and test data Covid Tracking Project, US data ECDC, TrendMacro calculations

### Recommended reading

# Denmark proposes faster easing of lockdown as coronavirus cases fall: PM

*Reuters* April 14, 2020

#### Estimating the true number of China's COVID-19 cases

Derek Scissors *American Enterprise Institute* April 7, 2020

#### <u>State Department cables warned of safety issues at</u> <u>Wuhan lab studying bat coronaviruses</u>

Josh Rogan *Washington Post* April 14, 2020

### Meme of the day

# **Constitution Dies Of Coronavirus**



WASHINGTON, D.C.—According to sources at the National Archives, doctors rushed the United States Constitution to the hospital and were forced to hook the document up to a ventilator after it began having trouble breathing Sunday afternoon.

The document reportedly slipped into a coma en route to the emergency room and was in critical condition for many hours. Doctors confirmed the worst: the founding document of our nation was infected with the novel coronavirus. Finally, surrounded by one or two mourners, as most people in Washington abandoned it a long time ago, it slipped away Sunday night.

Source: Our beloved clients, and Power Line blog "The Week in Cartoons"





The coronavirus <u>mortality</u> accelerometer ... tracking the world's fatality curves *Share of deceased population from day of first fatality* 



Source: ECDC, TrendMacro calculations

# Our most reliable evidence of slowing the Moore's law of Covid-2019 *Vertical: number of days it takes to double deaths Horizontal: days from first death* Progress means seeing the line move up and to the right...

Extrapolated between actual doubling points. The most anomalous extrapolations are smoothed.

![](_page_5_Figure_2.jpeg)

# Reality-checking the models: actual fatalities versus IHME predictions

#### New daily fatalities

Actual versus first, highest and latest model mean predictions

![](_page_6_Figure_3.jpeg)

For this day, versus all model mean predictions

![](_page_6_Figure_5.jpeg)

#### **Cumulative fatalities**

Actual versus first, highest and latest model mean predictions Mar 31 100,000 Highest prediction 90,000 93,734 80,000 70,000 60,000 Mar 25 Apr 12 First prediction Latest 50,000 prediction 81,067 68,841 40,000 Actual 26,057 30,000 20,000 10,000 Feb 6 -Mar 5 -Feb 20 Mar 19 Apr 2 Apr 16 Apr 30 May 28 Jun 25 9 Inl Jul 23 14 Jun 11 May

For this day, versus all model mean predictions

![](_page_6_Figure_9.jpeg)

Source: ECDC, TrendMacro calculations

### From Ground Zero to the Rio Grande

![](_page_7_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

# Patient zero... and then everyone else

![](_page_8_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

# Impact in the largest economies

![](_page_9_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

# Impact in The Anglosphere

![](_page_10_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

# Impact in continental Europe

![](_page_11_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

# Impact in other hot-spots

![](_page_12_Figure_1.jpeg)