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### Data Insights: Covid-2019 Monitor

Monday, April 13, 2020

## The global scorecard



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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 Ne		New Death	New Deaths		New in hospital		Cume infections		Cume deaths		Cume in hospital	
NY	+ 8,236	NY	+758	NY	+9,350	NY	188,694	NY	9,385	NY	42,594	
NJ	+ 3,699	NJ	+ 167	MD	+ 151	NJ	61,850	NJ	2,350	FL	2,772	
MA	+2,615	CA	+ 110	MA	+ 115	MA	25,475	MI	1,487	GA	2,505	
CA	+2,322	MI	+95	FL	+ 111	MI	24,638	LA	840	MA	2,235	
IL	+1,672	MA	+70	OH	+ 89	PA	22,833	MA	756	OH	1,948	
PA	+ 1,178	CT	+60	CO	+64	CA	21,794	IL	720	MD	1,860	
TX	+923	IL	+43	AL	+35	IL	20,852	CA	651	CO	1,376	
Æ	+861	LA	+34	GA	+26	LA	20,595	CT	554	WI	974	
MI	+645	MD	+29	WI	+24	R.	19,355	PA	507	TN	567	
LA	+581	<u> </u>	+27	MN	+21	TX	13,484	WA	491	MS	548	
	+22,732		+ 1,393		+9,986		419,570		17,741		57,379	
All states	+ 28 983	All states	+1564	All states	+ 10 087	All states	551 826	All states	21 010	All states	61 201	
Tonten	78%	Tonten	89%	Tonten	99%	Tonten	76%	Tonten	81%	Tonten	94%	
Top ton	10/0		0070	rop ten	0070	iop ton	10/0		0170	rop ten	0170	
Five most improved US states												
Fewer	Fewer daily infections Fewer new deaths Fewer new hospitalizations Most re								Most recove	ries		
NY	-1,710			NJ -84	4		MD -14	5		NY	+9,297	
MI	-565			PA -6	5		GA -10	12		TX	+ 397	
PA	-498			WA -4	5		FL -6	3		TN	+ 118	
СТ	-447			II -3	- R		MA -4	9		IA	+ 89	
CA	-383			NV -24	5		MS -2	6		MN	+ 49	
0	-300			INI -24	0		1010 -20	0		IVIIN	+ +5	
40.000 -											- 8.0%	
40,000											- 0.0 //	
	Unit	ed States			As of	Apr 13		F7 F74				
35,000 -	17.118 bp of population infected $17.118$ bp of population infected $17.0%$									- 7.0%		
	38.1 m	edian population ag	е					121,020 08	ses loudy	$\Lambda$		
30.000 -											- 6.0%	
30,000											0.070	
st					/					/ /	1	
teg 25,000 -		2 822 211 tosts	cumo							/ '	- 5.0%	
and		2,022,011 (636	Guine	/				Fatality rate 3	.97% —		ase	
<sup>88</sup> 20,000 -					٨						4.0% <sup>fat</sup> a	
× ca		440.050.4		M	$\sim \sim \sim$		$\sim 10^{-1}$		/ N		lity n	
		140,052 tests	s today	لمر	v -						ate	
.≕ 15,000 -										and the second se	- 3.0%	
			- A A		0.0		1		.	1 and 1 and 1		
10,000 -	0,000 - 20.7% positive today									- 2.0%		
				$\sim \mathcal{W}$					and the second			
5 000 - 22.108 deaths cumulative											1.00/	
5,000	+1,500 deaths today											
Dec 31 Jan 7 Jan 14 Jan 21 Jan 28 Feb 4 Feb 11 Feb 18 Feb 25 Mar 3 Mar 10 Mar 17 Mar 24 Mar 31 Apr 7												

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

# Recommended reading

### It's difficult to grasp the projected deaths from Covid-19. Here's how they compare to other causes of death

Sharon Begley and Hyacinth Empinado *Stat* April 9, 2020

### We Need Politicians in a Pandemic

George Gilder *Wall Street Journal* April 12, 2020

## <u>New signs suggest coronavirus was in California far</u> <u>earlier than anyone knew</u>

Paige St. John *Los Angeles Times* April 11, 2020

## <u>NIH begins study to quantify undetected cases of</u> <u>coronavirus infection</u>

*National Institutes of Health* April 10, 2020

### The crisis is over, but at terrible cost

Scott Grannis *Calafia Beach Pundit* April 12, 2020

## Meme of the day



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

The coronavirus <u>case</u> accelerometer... tracking the world's infection curves *Share of infected population from first day with 100 confirmed cases, log scale* 



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.



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

#### New daily fatalities

Actual versus first, highest and latest model mean predictions

#### For this day, versus all model mean predictions

As of Apr 13



#### **Cumulative fatalities**



Source: ECDC, TrendMacro calculations

## From Ground Zero to the Rio Grande



Source: ECDC, TrendMacro calculations

# Patient zero... and then everyone else



Source: ECDC, TrendMacro calculations

# Impact in the largest economies



Source: ECDC, TrendMacro calculations

# Impact in The Anglosphere



Source: ECDC, TrendMacro calculations

# Impact in continental Europe



Source: ECDC, TrendMacro calculations

# Impact in other hot-spots

