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Data Insights: Covid-2019 Monitor

Tuesday, April 28, 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 c	ases	New Deat	ns	New	in hospital	Cume	cases	Cume	deaths	Cume i	in hospital		
NY	+3,951	NY	+ 337	VA	+1,284	NY	291,996	NY	17,303	NY	57,103		
NJ	+2,150	NJ	+ 106	GA	+ 322	NJ	111,188	NJ	6,044	MA	5,237		
IL	+1,980	MA	+ 104	MD +139		MA	56,462	MI	3,407	FL	5,211		
MA	+1,524	MI	+92	MA +13		IL	45,883	MA	3,003	GA	4,681		
CA	+1,300	CT	+74	MS +59		CA	43,464	CT	1,998	MD	4,101		
VA	+ 1,047	GA	+ 59	FL	+56	PA	42,050	IL	1,983	VA	3,298		
IN	+949	IL	+50	OH	+54	MI	38,210	CA	1,755	OH	3,232		
MD	+906	PA	+ 47	MN	+32	R.	32,138	LA	1,670	CO	2,438		
PA	+885	CA	+ 45	CO	+28	LA	27,068	PA	1,597	WI	1,415		
TX	+666	MD	+35	AL	+27	TX	25,297	R.	1,101	KY	1,274		
	+ 15,358		+ 949		+2,134		713,756		39,861		87,990		
All states	+21876	All states	+1163	All states	+1972	All states	981 134	All states	50.327	All states	97 782		
Topten	70%	Topten	82%	Top ten	108%	Topten	73%	Top ten	79%	Top ten	90%		
		·						·					
				Five	most impro	oved US sta	ates						
Fewer	daily cases	S	Fewe	r new deat	hs	Fewer	new hospi	talizations		Most recoveries			
NY	-1,951			WA -	62		AR -29	91		LA	+2,376		
NJ	-1,365			NY -	30		KY -1′	15		TX	+ 407		
CT	-687			LA -:	26		RI -8	8		TN	+ 193		
DE	-330			CA -	14		MD -6	3		IA	+ 121		
ω	-239			MN -	14		FL -5	4		MD	+86		
ر 60,000 ر											Г ^{9.0%}		
	Unit	ed States			As of	Anr 28							
	20 247	he of population in	footod		76 01 1	hpi 20					- 8.0%		
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10.000											6.0%		
se 40,000 -											6.0%		
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190,075 tests today								\mathbb{V}	/ V V 4.0% S				
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11.5% which has a									s cumulative _/				
		11.5% positiv	e today 🗸		- N		New York	+	22,541 ca	ses today	- 2.0%		
10,000 -			V	¥.				50.04			21070		
10,000							V Y	V 56,24	5 deaths c	umulative	- 1.00/		
								+1,5	oba neatu	siouay	1.0%		
									~~~	$\sim$	0.0%		
+- Dec	31 Jan 7	Jan 14 Jan 21 Ja	an 28 Feb 4	Feb 11 Feb	18 Feb 25 N	Mar 3 Mar 10	Mar 17 Ma	r 24 Mar 31	Apr7 Ap	r 14 Apr 21 Ap	← 0.0% or 28		
									1				

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

## Recommended reading

## Majority in new poll say it's time to reopen economy for all who are not sick or vulnerable

Carrie Sheffield *Just the News* April 27, 2020

# What Germany got right in the fight against coronavirus

Justin Huggler *The Telegraph* April 22, 2020

### Meme of the day

#### Why Some People Get Sicker Than Others James Hamblin *The Atlantic* April 21, 2020

## NYC tailor defies state order: 'I'm opening my doors come hell or high water'

Doree Lewak *New York Post* April 26, 2020



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: **<u>ECDC</u>**, 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.



Source: <u>ECDC</u>, TrendMacro calculations

Requirement to Open Up America Again: 14-day "downward trajectory" in new cases 14-day moving average, last 14 days Most recent value displayed



Source: Covid Tracking Project, TrendMacro calculations

Alt requirement to <u>Open Up America Again</u>: 14-day "downward trajectory" in pos tests *14-day moving average, last 14 days Most recent value displayed* 



Source: Covid Tracking Project, TrendMacro calculations

## Reality-checking the models: actuals 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 28

#### **Cumulative fatalities**

Actual versus first, highest and latest model mean predictions



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

	Mar 25 56,950	Mar 2656,950	Mar 27 56,950	Mar 29 55 154		Mar 30 54,612	Mar 31 62,88	Apr 1 62,883	Apr 2 02,934	Apr C 10A	Apr 7 50,111	Apr 8 50,111	or 945,981	Apr 12 47,965	Apr 1752,417	Apr 2155,707	Apr 22 56,232	Apr 27 56,232
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#### Healthcare system stress, peak estimated at each model revision

232,298 224,321 220,643 260,342 262,092 262,092	beds	ICU beds	27,839 27,226 32,125 32,125 32,125 32,518 004	Ventilators
95,202 95,202 95,202 86,379 68,884 68,529	59,558 59,558 34,034 40,156 40,156 40,646 29,417	19.905 19.905 17.853 15.952 15.952 18.286 18.119 18.119 18.119	19481	16.921 16.921 14.407 14.407 15.655 16.650 16.620
Mar 27 Mar 29 Mar 30 Mar 31 Apr 1 Apr 5 Apr 9 Apr 12 Apr 17 Apr 12	Apr 27 Apr 27 Mar 29 Mar 30 Apr 31 Apr 5 Apr 5	Apr 7 Apr 8 Apr 12 Apr 12 Apr 21 Apr 21 Apr 27	Mar 27 Mar 29 Mar 30 Mar 31 Apr 1 Apr 2 Apr 2	Apr 7 Apr 8 Apr 9 Apr 17 Apr 21 Apr 27 Apr 27

Source: ECDC, TrendMacro calculations

## From Ground Zero to the Rio Grande



Source: ECDC, TrendMacro calculations

## Patient zero... and then everyone else



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 Apr 14 Apr 21 Apr 28



Source: ECDC, TrendMacro calculations

## Impact in the largest economies

![](_page_11_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

## Impact in The Anglosphere

![](_page_12_Figure_1.jpeg)

![](_page_12_Figure_2.jpeg)

![](_page_12_Figure_3.jpeg)

6,725 cases cumulative

+12 cases today

84 deaths cumulative

+1 deaths today

2.0%

1.5%

1.0%

0.5%

![](_page_12_Figure_4.jpeg)

300

200

100

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 Apr 14 Apr 21 Apr 28 Apr 28

## Impact in continental Europe

![](_page_13_Figure_1.jpeg)

![](_page_13_Figure_2.jpeg)

Source: ECDC, TrendMacro calculations

## Impact in other hot-spots

![](_page_14_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

## Impact in the fragile emerging world

![](_page_15_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations