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#### Data Insights: Covid-2019 Monitor

Thursday, May 21, 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 cas	ses	New Deaths		Newin	hospital	Qume ca	ases	Curre de	aths	Cume in hospital				
IL	+2,388	NJ	+ 161	VA	+291	NY	354,370	NY	22,976	NY	76,410			
CA	+2,262	IL	+ 146	NM	+253	NJ	150,399	NJ	10,747	СТ	10,946			
NY	+1,525	NY	+ 133	NY	+242	IL	100,418	MA	6,066	FL	8,934			
TX	+1,411	MA	+ 128	MD	+ 194	MA	88,970	MI	5,060	MA	8,897			
NJ	+1,386	CA	+ 102	FL	+ 190	CA	84,057	PA	4,624	MD	7,393			
MA	+ 1,045	ан	+61	MA	+131	PA	63,666	IL	4,525	GA	7,107			
GA	+926	CT	+57	MN	+87	MI	53,009	CT	3,529	VA	6,059			
MD	+777	TX	+50	OH	+81	TX	51,323	CA	3,436	OH	5,198			
VA	+763	R.	+44	GA	+80	Æ	47,471	LA	2,608	IN	4,389			
MI	+659	AZ	+43	MS	+61	MD	42,323	<u> </u>	2,173	CO	3,955			
	+13,142		+925		+1,610		1,036,006		65,744		139,288			
All states	+21,531	All states	+1,402	All states	+1,982	All states	1,542,309	All states	87,472	All states	161,616			
Top ten	61%	Topten	66%	Top ten	81%	Top ten	67%	Topten	75%	Top ten	86%			
				Five	e most immr	wedUSstate	s							
Fewer d	ailv cases		Fewer	new deaths		Fewer n	ew hospitaliza	tions		Most recoverie	ost recoveries			
MD	-1.007			PA -11	9		MA -96	5		TX	+982			
MA	-870			MI -59	)		NY -56	5		TN	+814			
PA	-610			KY -32	)		KY -54	Ļ		MN	+687			
KY	-381			RI -20	- )		OH -39	8		W	+357			
NC	-255			IN -19	)		GA -31	, ,		NJ	+288			
60,000 <sub>T</sub>											г 9.0%			
	Unite	ed States			As of I	May 21		F	atality rate 5	5.87% –				
	47 644	hn of nonulation infe	cted		1001						- 8.0%			
50,000 -	-77.0-7 28.1 m	edian nonulation are	0100											
	JU.1 III	eulaii population age									- 7.0%			
_≌ 40,000 -					/					/	- 6.0%			
deat		12 650 764 test												
and		12,000,704 (63)					Λ				- 5.0% &			
g 30,000 -					w		-  \ <i>-</i> /	1 MA	$\mathbb{I}$		fata			
× ca		/12 922 toot	ic today	٨	m		- / X /	$\sim 10^{\circ}$	41V F	AN	- 4.0%			
y nev		413,833 lesi	s louay	mm				v v	$\mathbb{V} \mathbb{V} \setminus$		ate			
- 20,000 -							$\mathcal{A} / \mathcal{X}$		1		- 3.0%			
		5.000		NMM	L M	. /	<b>7-da</b>	ay moving average ca	ses	V '				
		5.2% positiv	e today i 🖓		m		11				- 2.0%			
10.000 -					Mur.	AT/	f	1 5	1 052 000					
					01 1/		ulativo	1,03	+23 285 case	ses today	- 1.0%			
					51,14 +1.!	518 deaths to	dav	. ^	_0,200 00					
_					-,,		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~		$\sim$	<b>d</b> 0.0%			
Dec 3	31 Jai	n 14 Jan 28	Feb 11	Feb 25	Mar 10	Mar 24	Apr 7	Apr 21	Ма	y5 May∶	19			

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

## Recommended reading

# Former WHO doctor says coronavirus cases are not increasing as expected in areas that reopen

Sophie Mann *Just the News* May 20, 2020

#### Emergency Rule Threatening Owners Of Open Businesses Withdrawn

Jonah Meadows *Patch* May 20, 2020

#### Neil Howe - The Pandemic and the Fourth Turning

Robert Huebscher *Advisor Perspectives* May 20, 2020

### Georgia Marks Lowest COVID-19 Positive Hospitalizations

#### **Since Early April**

*Office of Governor Brian E. Kemp* May 19, 2020

## Meme of the day

#### Testing early, testing late: four countries' approaches to COVID-19 testing compared

Joe Hasell *Our World in Data* May 19, 2020

# The Results of Europe's Lockdown Experiment Are In Elaine He

*Bloomberg* May 20, 2020

### Tesla Owners Try to Make Sense of Elon Musk's 'Red Pill' Moment

Nellie Bowles *New York Times* May 19, 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*









## Our most reliable evidence of slowing exponential growth of Covid-2019





Requirement to <u>Open Up America Again</u>: 
14-day "downward trajectory" in new cases *14-day moving average, last 14 days Most recent value displayed* • High • Low



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* • High • Low



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 May 21

773 854 654 40

#### **Cumulative fatalities**

Actual versus first, highest and latest model mean predictions



#### Healthcare system stress, peak estimated at each model revision



Source: ECDC, IHME, TrendMacro calculations

## For this day, versus all model mean predictions $\Im \rightarrow 2$

Mar JE 76 EGO	NIGI 23 13,300	Mar 29 76,796	100 77 0C 20M	Widi 2011, 1, 204	Mar 3187,7	Anr 1 87 753	Apr 2 87,360	Apr 5 81.057	Apr 7 59,913	Apr 8 59,913	Anr 9.60 1.2.4	171,000	Apr 12 65,991	Apr 17 60,076	Anr 01 GE 464	Apr 22 66,899	Apr 28 71,410	010 21 00 40	API 23 11,213	May 4 10	May 10 9	, , , , , , , , , , , , , , , , , , ,	May 12 9	Actual 91

#### 14,000 7.0% Fatality rate 6.48%.---New York As of May 21 12,000 6.0% 182.16 bp of population infected 38.2 median population age 5.0% 10,000 Daily new cases and deaths Jase 8,000 4.0% 6,000 3.0% 354,370 cases cumulative 4,000 2.0% +1,525 cases today -day moving average case 2,000 22,976 deaths cumulative 1.0% +133 deaths today 0.0% Jan 28 Feb 25 Dec 31 Jan 14 Feb 11 Mar 10 Mar 24 Apr 7 Apr 21 May 5 May 19 40,000 7.0% Fatality rate 5.69% US ex-New York 1,197,483 cases cumulative 35,000 ..... 6.0% 39.10 bp of population infected +21,760 cases today 38.1 median population age 30,000 5.0% Daily new cases and deaths 25,000 Jase 4.0% 20,000 3.0% 15,000 2.0% 10,000 1.0% 5,000 68,164 deaths cumulative +1,385 deaths today 0.0% Dec 31 Jan 14 Feb 25 Mar 10 Apr 7 . May 19 Jan 28 Feb 11 Mar 24 Apr 21 May 5 2,000 3.0% Fatality rate 2.76% 1,800 Texas 2.5% 1,600 17.70 bp of population infected 1,400 51,323 cases cumulative 33.9 median population age Daily new cases and deaths 2.0% +1,411 cases today Case fatality rate 1,200 1,000 1.5% 800 1.0% 600 1,419 deaths cumulative +50 deaths today 400 0.5% 200 0.0% Apr 7 Apr 21 Dec 31 Jan 14 Jan 28 Feb 11 Feb 25 Mar 10 May 5 Mar 24 May 19

## From Ground Zero to the Rio Grande

Source: ECDC, TrendMacro calculations





Source: ECDC, TrendMacro calculations

## Impact in the largest economies



Source: ECDC, TrendMacro calculations

## Impact in The Anglosphere



## Impact in continental Europe



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

## Impact in other hot-spots



## Impact in the BRICs ex-China



#### 1,400 1.8% Fatality rate 1.67% Israel 1.6% As of May 21 1,200 18.76 bp of population infected 1.4% Daily new cases and deaths 30.2 median population age 1,000 1.2% 16,670 cases cumulative 800 1.0% 7-day moving average cases +20 cases today ality 0.8% 600 0.6% 400 0.4% 279 deaths cumulative 200 +2 deaths today 0.2% 0.0% • Dec 31 Jan 14 Jan 28 Feb 11 Feb 25 Mar 10 Mar 24 Apr 21 May 19 Apr 7 May 5 3,500 40% Iran 126,948 cases cumulative 35% 3,000 14.50 bp of population infected +2,346 cases today 30% Daily new cases and deaths 2,000 1,500 1,000 30.3 median population age 25% Case fatality 20% rate 15% Fatality rate 5.7% 10% 7,183 deaths cumulative 500 +64 deaths today 5% 0% Apr 21 Dec 31 Jan 14 Jan 28 Feb 25 Mar 10 May 19 Feb 11 Mar 24 Apr 7 May 5 4,000 6% 95,063 cases cumulative Africa (52 nations) +3,739 cases today 3,500 5% 0.69 bp of population infected 3,000 19.7 median population age Daily new cases and deaths 4% 2,500 Case fatality rate Fatality rate 3.15% 2,000 3% 1,500 2% 2,991 deaths cumulative 1,000 +89 deaths today 1% 500 0% Apr 7 Apr 21 Dec 31 Jan 14 Jan 28 Feb 11 Feb 25 Mar 10 Mar 24 May 5 May 19 Source: ECDC, TrendMacro calculations

## Impact in the Middle East and Africa