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#### Data Insights: Covid-2019 Monitor

Friday, June 5, 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 cases		New Deaths		Newin	New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+2,120	IL	+115	NJ	+214	NY	375,133	NY	24,133	NY	89,995	
TX	+1,649	NJ	+90	GA	+ 138	NJ	162,530	NJ	11,970	NJ	17,604	
R.	+ 1,419	PA	+76	R.	+ 127	IL	124,759	MA	7,201	Æ	10,923	
NC	+ 1,189	CA	+61	MD	+106	CA	119,807	PA	5,817	MA	10,238	
NY	+1,048	NY	+54	MA	+87	MA	102,063	L	5,736	CT	9,669	
GA	+953	MA	+49	VA	+74	PA	74,560	MI	5,595	MD	9,217	
VA	+951	R.	+41	AZ	+66	TX	69,920	CA	4,422	GA	8,557	
IL	+929	СН	+40	CH	+61	R.	60,183	CT	4,007	VA	7,550	
MD	+876	TX	+33	NE	+51	M	58,241	LA	2,883	CH	6,312	
IA	+750	MN	+29	MN	+50	MD	55,858	FL	2,691	IN	5,999	
	+11,884		+588		+974		1,203,054		74,455		176,064	
All states	+20,797	All states	+884	All states	-+2,828	All states	1,864,112	All states	102,101	All states	213,812	
Topten	57%	Top ten	67%	Top ten	-34%	Top ten	65%	Topten	73%	Top ten	82%	
Five most improved US states												
rewer u	any cases		rewer			rewerr					5	
AR 47	-024			AZ -20	)		OI -4,12 N⊏ 000	4 )		FA TV	+ 1,104	
PZ CA	-403			LA -22	<u>-</u>		NE -00	1		1	+ 941	
	VA -20/ NU -20					NN -134	÷		VVI	+ 000		
NS TN	-159			IVIA -18	5		NIVI -99			IN TN	+525	
IIN	-149			IND -18	5		IVID -48			IN	+324	
60.000 -											<b>-</b> 9.0%	
	CINICU States As of J					ot jun 5					- 8.0%	
50.000 -	57.493 bp of population infected										0.070	
50,000	38.1 me	edian population age							Fatality ı	rate 5.66% –	- 7.0%	
											1.070	
∞ 40.000 -					, ,						- 6.0%	
leath									/			
and c		18,684,003 tes	is cume			٨	1 5	ΎΠ ,			- 5.0%	
8 30.000 -							JAXA.				e fata	
< cas	1 March 1						$\Lambda$	MM/4-			4.0% E	
/ nev		465,497 test	ts today	mm			'/ V V	$\mathbb{N} \setminus \mathbb{V}$	$\Delta M$	ΛΛ	rate	
				4				W			- 3.0%	
- 20,000			And	MMM.	h	$\mathbb{N}$		I	V		0.070	
		4.5% positiv	e today 🔨 🏹	i pm	m in			1,	872,660 ca	ses cumulative	- 2.0%	
10 000 -	+21,140 cases today									ases today	2.070	
10,000	7-day moving average cases 105,912 deaths cumul								ths cumulative	- 1.0%		
					1	/			+1,036 de	eaths today	1.070	
								~~~	$\sim$	$\sim \sim$	0.0%	
Dec 31 Jan 14 Jan 28 Feb 11 Feb 25 Mar 10 Mar 24 Apr 7 Apr 21 May 5 May 19 Jun 2											0.070	

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

### Recommended reading

#### Open letter advocating for an anti-racist public health response to demonstrations against systemic injustice occurring during the COVID-19 pandemic

1,288 public health professionals, infectious diseases professionals, and community stakeholders *University of Washington* May 31, 2020

### EO on Accelerating the Nation's Economic Recovery from the COVID-19 Emergency by Expediting Infrastructure Investments and Other Activities

*The White House* June 4. 2020

### Public Health Experts Say the Pandemic Is Exactly Why Protests Must Continue

Shannon Palus *Slate* June 2, 2020

#### Surgisphere: governments and WHO changed Covid-19 policy based on suspect data from tiny US company

Melissa Davey, Stephanie Kirchgaessner, Sarah Boseley *The Guardian* June 3, 2020

### Meme of the day



# Government Jealous Of Rioters' Speed, Efficiency In Destroying Local Businesses

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 exponential growth of Covid-2019

Vertical: number of days it takes to double deaths Horizontal: days from first death



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

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 Jun 5

#### **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



### 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



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

### Impact in continental Europe





### Impact in other hot-spots



### Impact in the BRICs ex-China



#### 1,400 1.8% Israel 1.6% As of Jun 5 1,200 19.77 bp of population infected 1.4% Fatality rate 1.66% Daily new cases and deaths 30.2 median population age 1,000 1.2% 800 1.0% 7-day moving average cases ality 0.8% 600 291 deaths cumulative 0.6% +0 deaths today 17,562 cases cumulative 400 +133 cases today 0.4% 200 0.2% 0.0% Jan 14 Jan 28 Feb 11 Feb 25 Mar 24 Apr 21 May 5 May 19 Jun 2 Dec 31 Mar 10 Apr 7 4,000 40% Iran 3,500 35% 164,269 cases cumulative 18.77 bp of population infected +3,574 cases today 3,000 30% 30.3 median population age Daily new cases and deaths 2,500 25% Case fatality 2,000 20% rate 1,500 15% 1,000 Fatality rate 4.9% 10% 8,071 deaths cumulative +59 deaths today 5% 500 0% Dec 31 Jan 28 Feb 11 Feb 25 Mar 10 Apr 21 Jan 14 Mar 24 Apr 7 May 5 May 19 Jun 2 9,000 6% 169,664 cases cumulative Africa (52 nations) 8,000 +7,646 cases today 5% 1.23 bp of population infected 7,000 19.7 median population age Daily new cases and deaths 6,000 4% Case fatality rate 5,000 3% 4,000 4,740 deaths cumulative 2% 3,000 +160 deaths today Fatality rate 2.79% 2,000 1% 1,000 0% Jan 28 Feb 25 Apr 21 Dec 31 Jan 14 Feb 11 Mar 10 Mar 24 Apr 7 May 5 May 19 Jun 2

### Impact in the Middle East and Africa

