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#### Data Insights: Covid-2019 Monitor

Thursday, July 23, 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		New in	New in hospital		Ourne cases		Curre deaths		Cume in hospital	
CA	+ 12,807	TX	+ 197	R.	+465	CA	413,576	NY	25,068	NY	89,995	
TX	+9,879	Æ	+ 140	GA	+428	NY	408,886	NJ	15,707	R.	22,588	
Æ	+9,785	CA	+115	AZ	+ 153	Æ	379,619	MA	8,468	NJ	21,184	
GA	+3,314	GA	+81	CK	+ 137	TX	351,618	CA	7,870	GA	15,922	
LA	+2,771	œ	+64	CH	+ 128	NJ	177,645	IL	7,540	MD	11,997	
TN	+2,473	LA	+62	TN	+ 109	IL	166,476	PA	7,063	MA	11,761	
NC	+2,140	AL	+61	NJ	+85	GA	152,302	MI	6,388	VA	11,488	
AZ	+1,926	AZ	+56	IN	+79	AZ	150,609	Æ	5,459	CT	10,654	
CK	+1,868	MS	+34	VA	+64	MA	114,320	CT	4,406	СН	9,864	
SC	+1,705	NC	+30	AR	+60	NC	105,001	TX	4,348	AL	8,538	
	+48,668		+840		+1,708		2,420,052		92,317		213,991	
All states	+70,043	All states	+1,126	All states	+2,248	All states	3,946,708	All states	135,438	All states	283,829	
Topten	69%	Topten	75%	Topten	76%	Top ten	61%	Topten	68%	Topten	75%	
·		I										
Five most improved US states												
Fewer daily cases		Fewer new deaths				Fewer r	Fewer new hospitalizations			Most recoveries		
AZ	-1,574			AZ -78	3		SC -31	6		TX	+8,786	
W	-414			NJ -52	2		AL -17	0		LA	+8,168	
PA	-396			MD -17	7		VA -95	5		TN	+1,896	
FR	-381			<b>CH -1</b> 4	ļ		FL -53	}		CK	+1,846	
MD	-233			VA -14	ł		AZ -43	3		CH	+1,349	
90,000	Unite	ed States			As c	f Jul 23					8.0%	
80,000 -	121.912 38.1 me	#12 bp of population infected 3,970,906 cases cumulative   median population age +68,848 cases today								- 7.0%		
70,000 -						and a second second					- 6.0%	
<u>د 00,000 - عنا</u>						1 and the second se			and a second second second	- <i>[)</i> /	- 5.0%	
99 Pue 50,000 -	48,023,828 tests cume								Case fa			
880 A0,000 -	- 796,249 tests today								- 4.0% tality rat			
- 000,00 Dail				ment 1000	MA	MA			Ň		- 3.0%	
20,000 -	8.8% positive today								- 2.0%			
10,000 -	143,190 deaths cumulative +1,124 deaths today											
Dec 31 Jan 14 Jan 28 Feb 11 Feb 25 Mar 10 Mar 24 Apr 7 Apr 21 May 5 May 19 Jun 2 Jun 16 Jun 30 Jul 14												

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

### Recommended reading

### Preschooler Parents Face the Toughest Choice as Offices Reopen

Breanna T Bradham *Bloomberg* July 22, 2020

### <u>Child care costs more in 2020, and the pandemic has</u> parents scrambling for solutions

*Care.com* June 15, 2020

### <u>Contact Tracing during Coronavirus Disease Outbreak,</u> <u>South Korea, 2020</u>

Young Joon Park et al. *Emerging Infectious Diseases* October 2020

### New York Times-Hyped Korean Report Actually Shows

### Kids Are Not Spreading Coronavirus

Phil Kerpen *The Federalist* July 22, 2020

### Meme of the day

# No known case of teacher catching coronavirus from pupils, says scientist

Mark McLaughlin, Marc Horne and Rosemary Bennett *The Times* July 21 2020

# The horror of living with coronavirus asymptomatically

Rucha Mehta Shah *Washington Post* July 21, 2020

### U.S. Orders Up to 600 Million Doses of Pfizer, BioNTech Covid Vaccine

James Paton *Bloomberg* July 22, 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

Source: ECDC, TrendMacro calculations

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



#### 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 100 200 100 World 68 days World ex-China 67 days China 158 days As of Jul 23 0 20 40 60 80 100 120 140 160 180 20 40 60 80 100 120 140 160 180 20 40 60 80 100 120 140 160 180 1 1 100 200 100 United States 78 days New York 97 days US ex-NY 72 days Λ 0 1 20 40 60 80 100 120 140 160 180 1 20 40 60 80 100 120 140 160 180 1 20 40 60 80 100 120 140 160 180 100 50 100 Florida 48 days Arizona 28 days California 56 days 0 20 40 60 80 100 120 140 160 180 40 60 80 100 120 140 160 180 20 40 60 80 100 120 140 160 180 20 1 100 100 100 United Kingdom 90 days Canada 76 days Texas 32 days Λ 0 0 $20 \quad 40 \quad 60 \quad 80 \quad 100 \ 120 \ 140 \ 160 \ 180$ 20 40 60 80 100 120 140 160 180 20 40 60 80 100 120 140 160 180 1 100 100 200 Japan 81 days Germany 94 days France 100 days 0 0 0 1 20 40 60 80 100 120 140 160 180 1 20 40 60 80 100 120 140 160 180 1 20 40 60 80 100 120 140 160 180 200 200 200 Spain 106 days Switzerland 102 days Italy 106 days 0 0 0 1 20 40 60 80 100 120 140 160 180 1 20 40 60 80 100 120 140 160 180 $1 \quad 20 \quad 40 \quad 60 \quad 80 \quad 100 \ 120 \ 140 \ 160 \ 180$ 200 100 100 S. Korea 117 days Iran 59 days Sweden 79 days 0 0 0 1 20 40 60 80 100 120 140 160 180 1 20 40 60 80 100 120 140 160 180 1 20 40 60 80 100 120 140 160 180 100 200 50 Israel 84 days Australia 97 days Africa 31 days 0 0 0 1 20 40 60 80 100 120 140 160 180 1 20 40 60 80 100 120 140 160 180 20 40 60 80 100 120 140 160 180 50 50 50 India 26 days Brazil 41 days Russia 42 days

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

20 40 60 80 100 120 140 160 180

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20 40 60 80 100 120 140 160 180

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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 Downward trajectory Five best Upward trajectory Five worst



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 Downward trajectory Five best Upward trajectory Five worst



Source: Covid Tracking Project, TrendMacro calculations

### Reality-checking the models: actuals versus IHME predictions

#### New daily fatalities

Actual versus first, highest, lowest and latest model mean predictions



#### **Cumulative fatalities**



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

#### 73,943 222,228 224,321 220,643 200,342 260,342 260,342 260,342 ICU beds Hospital beds Ventilators 32,125 32,125 32,518 27,839 27,226 54,083 25,00 34,034 40,156 40,156 40,646 19,481 140,823 631 4,435 33,139 33,139 33,305 Apr 12 ] Jun 15 May 12 ] May 26 ] Jun 29 \_ May 12 ] Mar 30 Apr 5 -Apr 8 Apr 12 ] Apr 21 \_ Apr 28 \_ May 4 May 12 ] May 26 \_ Jun 8 Jun 15 \_ Jun 29 \_ Jul 14 Mar 27 Mar 30 Apr 5 Apr 8 Apr 21 Apr 28 May 4 Jun 8 Jul 14 Mar 27 Mar 30 Apr 12 Apr 21 Apr 28 May 4 May 26 Jun 8 Jun 15 Jun 29 . Jul 14 Mar 27 Apr 1 Apr 1 Apr 5 Apr 8 Apr 1

Source: ECDC, IHME, TrendMacro calculations

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



May 4 133,322 May 10156,019 May 12 145,313 May 20 1412,14 May 26130,742 Jun 5 136,642 Jun 5 136,642 Jun 15 141,974 Jun 15 141,974 Jun 24138,797 Jul 14 143,457 Jul 22 143,750 Actual 143,190 Jun 29 140,873 Jul 7 140,783 Mar 3193,765 Apr 193,765 Apr 293,531 Apr 581,766 Mar 2581,114 Mar 2982,141 Mar 30 83,967 Apr 28 72,860 Apr 29 72,433 Apr 12 68,841 Apr 21 65,976 Apr 22 67,641 Apr 17 60,308 Apr 7 60,415 Apr 8 60,415 Apr 961,545

For this day, versus all model mean predictions

9

As of Jul 23

### From Ground Zero to the Rio Grande



Source: ECDC, TrendMacro calculations



The sun-belt hot-spot states (other than Texas)

Source: ECDC, TrendMacro calculations



Patient zero... and then everyone else

Source: ECDC, TrendMacro calculations



Source: ECDC, TrendMacro calculations



### Impact in The Anglosphere

Source: ECDC, TrendMacro calculations



Source: ECDC, TrendMacro calculations

### Impact in other hot-spots





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