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Data Insights: Covid-2019 Monitor

Friday, July 17, 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 ca	ses	New Deaths		New in	n hospital	Qume o	ases	Curne d	eaths	Qume in	hospital			
R.	+ 13,965	FL.	+156	Æ	+495	NY	404,775	NY	25,014	NY	89,995			
TX	+ 10,291	TX	+129	AL	+293	CA	356,178	NJ	15,665	NJ	20,774			
CA	+8,544	CA	+118	GA	+244	Æ	315,775	MA	8,380	R.	20,154			
GA	+3,441	SC	+72	AZ	+ 193	TX	292,656	L	7,452	GA	14,346			
AZ	+3,259	AZ	+58	VA	+170	NJ	176,501	CA	7,345	MD	11,687			
TN	+2,479	NJ	+58	Ю	+115	IL	159,082	PA	6,973	MA	11,663			
LA	+2,280	СН	VA	10,778										
NC	+2,160	IL	+25	4,782	CT	10,654								
AL	+2,021	LA	+24	4,389	CH	UH 9,324								
SC	+1,838	NC	+20	IN	+61	PA	98,446	TX	3,561	IN	7,747			
	+50,278		+688		+1,798		2,181,882		89,909		207,122			
All states	+71.229	All states	+977	All states	+2.251	All states	3.549.648	All states	130.572	All states	271.758			
Topten	71%	Topten	70%	Topten	80%	Topten	61%	Topten	69%	Topten	76%			
Five most improved US states														
Fewer d	taily cases		Fewer	new deaths		Fewer r	new hospitaliza	tions		Most recoverie	S			
CA	-2,582			AZ -3	39		GA -17	3		TX	+6,661			
KS	-875			AL -2	28		NJ -14	2		TN	+1,393			
CK	-447			GA -2	24		MD -78	3		СН	+1,027			
GA	-430			CA -2	2		NH -73	3		CK	+729			
PA	-213			MA -1	6		KS -50)		AR	+672			
											0.007			
90,000		「 ^{9.0%}												
UIIITEO STATES As of Jul 17														
80,000 -	109.79	5 bp of population inf		- 8.0%										
70.000	38.1 m	edian population age		7.00/										
70,000 -										. 1	- 7.0%			
(n 60 000										Λ	6.0%			
at po ,000 -										N S	- 0.0%			
2 50 000		43,354,874 test	s cume			and the second second	. AV	Cas						
a sa						N	1	'-day moving averag	ecases	NV -	e fat			
2 40 000 -				$\Delta = 100$	ww	·				$M \sim$	ality			
40,000 E		830,900 test	s today	manne	WUVV					4.0 % rate				
⊇ 30,000					N.		Δ /		- M	/	- 3.0%			
- 30,000				H.	- /X	VWM	A A		/X		0.070			
20.000			2.0%											
20,000		v rate 3.76%	- 2.070											
10.000 -				V.]/		13/ 60	1 deaths cum	ulative		- 1.0%			
10,000	+939 deaths today										1.070			
						\sim	<u> </u>			<u> </u>	0.0%			
Dec 3	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 1	4			

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

Recommended reading

<u>Can a Pregnant Woman Spread the Coronavirus to Her</u> <u>Fetus?</u>

Associated Press July 16, 2020

NYC plans child care for 100,000 kids when schools partially reopen

Erin Durkin *Politico* July 16, 2020

<u>No One Knows What Thailand Is Doing Right, but So</u> Far, It's Working

Hannah Beech *New York Times* July 17, 2020

Meme of the day

White House Says Stimulus Bill 'Must' Include Payroll Tax Cut

Justin Sink, Erik Wasson, and Laura Davison *Bloomberg* July 16, 2020

COVID-19 Impact on US National Overdose Crisis

Aliese Alter and Christopher Yeager *OD Map* June 2020

Throw the Bums Out

Alex Pareene *The New Republic* July 14, 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



Source: **ECDC**, 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 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

27,839 27,226 32,125 32,518 32,518 73,943 232,298 224,321 220,643 260,342 260,342 262,092 Hospital beds ICU beds Ventilators 54,083 34,034 40,156 40,156 40,646 19,481 40 823 May 12] Jun 8 Jun 15] Mar 27 Mar 30 _ Apr 12 Apr 28 May 12 May 26 Jun 15 . Jun 29] Apr 5 Apr 8 Apr 12 Apr 28 May 4 May 26 Jun 29 Jul 14 . m ŝ ົດ 13 15 17 19 21 23 25 25 25 27 29 Apr 1 Apr 5 Apr 8 Apr 21 May 4 Jun 8 Mar 30 Apr 21 11 Apr 1

Source: ECDC, IHME, TrendMacro calculations

For this day, versus all model mean predictions



For this day, versus all model mean predictions

			 Q .													May 1 1 2 2 1 7 6	Way + 104,001	May 10 134,967	Midy 12 144,010	May 20 139,/36	May 26 129,896	G58,651 8 NUL	Jun 10 132,246	Jun 15 138,128	Jun 24 135,293	1/1/2/2/10/	Jul / 136,594	Jul 14 138,231	Actual 134,601
Marine 01 111	Midi 23 01,114	Mar 29 62,141 Mar 20 92 067	Mar 31 93,/1	Apr 1 93, /65	Apr 2 93,531	Apr 581,/60	Apr 7 60,415	Apr 8 60,415	Apr 9 61,545	Apr 12 68,841	Apr 17 60,308	Apr 21 65,976	Apr 22 67,641	Apr 28 72,860	Anr 29 72 433														
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Mar 27

As of Jul 17

Jul 14

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

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

• 0.0%

Jul 14



Source: ECDC, TrendMacro calculations

Impact in The Anglosphere 10,000 18% 9,000 United Kingdom 16% As of Jul 17. 8,000 48.48 bp of population infected 14% 40.5 median population age Fatality rate 14.0% 7,000 12% Case fatality 6,000 10% 5,000 323,107 cases cumulative 8% +641 cases today 4,000 rate 6% 45,119 deaths cumulative 3,000 +66 deaths today -day moving average case 4% 2,000 2% 1,000 0% Mar 24 Dec 31 Jan 14 Jan 28 Feb 11 Feb 25 Mar 10 Apr 7 Jun 2 Jun 16 Jun 30 Jul 14 Apr 21 May 5 May 19 3,000 9.0% Canada 8.0% 2,500 28.83 bp of population infected Fatality rate 8.1% 7.0% 40.8 median population age 2,000 6.0% 5.0% 1,500 109,253 cases cumulative 4.0% +437 cases today 1,000 3.0% 2.0% 8,827 deaths cumulative 500 +17 deaths today 1.0% 0.0% Jun 30 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 Jul 14 700 4.5% Australia 4.0% 600 3.91 bp of population infected 3.5% 37.9 median population age 500 10,810 cases cumulative 3.0% +315 cases today 400 2.5% 2.0% 300 Fatality rate 1.0% 1.5% 200 1.0% 100 113 deaths cumulative 0.5% +2 deaths today 0.0% Jan 28 Feb 11 Feb 25 May 5 Jun 30 Dec 31 Jan 14 Mar 10 Mar 24 Apr 7 Apr 21 May 19 Jun 2 Jun 16 Jul 14

Source: ECDC, TrendMacro calculations





Source: ECDC, TrendMacro calculations

Impact in other hot-spots



Impact in the BRICs ex-China



