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Data Insights: Covid-2019 Monitor

Tuesday, April 14, 2020

The global scorecard



Source: ECDC, TrendMacro calculations

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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 infections		New Deaths		New in hospital		Curre infections		Qume deaths		Cume in hospital		
NY	+6,337	NY	+671	RI	+331	NY	195,031	NY	10,056	NY	42,712	
NJ	+2,734	MI	+115	KY	+208	NJ	64,584	NJ	2,443	FL	2,833	
MA	+1,392	NJ	+93	WV	+164	MA	26,867	MI	1,602	GA	2,589	
PA	+1,366	MA	+88	NY	+118	MI	25,635	LA	884	MA	2,340	
CT	+1,346	IL	+74	MD	+115	PA	24,199	MA	844	OH	2,033	
R.	+1,246	CT	+48	MA	+105	CA	22,348	L	794	MD	1,975	
IL	+1,173	LA	+44	CO	+96	IL	22,025	CA	687	CO	1,472	
M	+997	CA	+36	OH	+85	LA	21,016	CT	602	WI	993	
GA	+863	GA	+31	GA	+84	R.	20,601	PA	524	KY	667	
00	+791	0	+30	FL	+61	TX	13,906	WA	508	TN	579	
	+18,245		+1,230		+1,367		436,212		18,944		58,193	
All states	+24,948	All states	+ 1,450	All states	+1,472	All states	576,774	All states	23,369	All states	62,673	
Top ten	73%	Topten	85%	Top ten	93%	Topten	76%	Top ten	81%	Top ten	93%	
Five most immoved LIS states												
Fewer d	aily infections	Fewer new deaths				Fewer new hospitalizations			Most recoveries			
NY	-1.899			NY -87	7		NY -1.75	97		TX	+255	
CA	-1.768			CA -74	1		FL -50)		ய	+218	
MA	-1 223			NI -74	1		MD -36	5		TN	+167	
NI	-965			CT -12	>		MN -21	1		MD	+ 147	
TX	-501			FL -9	-		MS -19	9		KY	+ 143	
				•								
40,000 -											г 8.0%	
	Unite	d States			٨٩	f Apr 1/						
25.000	As of Apr 14											
55,000 -	JU 1 17.886 bp of population infected											
	38.1 me	lian population age						582,594	cases cum	ulative		
30,000 -								+25,0	23 cases to	iday	- 6.0%	
s					•							
gt 25,000 -									/		5.0%	
p pu		2,952,165 test	s cume					Fatality rate 4.0	06% —		Cas	
s 20,000 -				•	\mathcal{M}		$\sim \chi$		\mathcal{N}	and the second second	ality	
New		129,854 test	s today	~/~	\checkmark					1	rate	
. <u>≥</u> 15,000 -				~~~					1	de la compañía de la	- 3.0%	
			Λ				1.			Constant of the second s		
10,000 -		19.3% positiv	e today 📈	~~~	\sim			Λ .			- 2.0%	
			* L	\sim								
F 000								28,64	9 deaths c	umulative _	1.00/	
5,000 -								+1,	541 deaths	s today	- 1.0%	
									_	\sim	6	
Dec	31 Jan 7	Jan 14 Jan 21	Jan 28 Fe	:b 4 Feb 11	⊦eb 18	Feb 25 Mar 3	3 Mar 10	Mar 17 Mar	24 Mar 3	1 Apr7 Ap	r 14	

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

Recommended reading

Mass Antibody Testing in This Rural Colorado County Sheds Light on COVID-19's Prevalence and Lethality

Jacob Sullum *Reason* April 8, 2020

An Unnerving Review of Accidents in High-Level Labs Handling Viruses

Jim Geraghty *National Review* April 13, 2020

Eight Reasons to End the Lockdowns As Soon as Possible

Jonathan Geach, M.D. et al. *Medium* April 11, 2020

High transmissibility of COVID-19 near symptom onset

Hao-Yuan Cheng et al. *medRvix* March 18, 2020

Coronavirus In Five States

John Hinderaker *Powerline Blog* April 12, 2020

Meme of the day



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*

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*



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.



Reality-checking the models: actual fatalities 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 14



Cumulative fatalities

Actual versus first, highest and latest model mean predictions Mar 31 100,000 Highest 90,000 prediction 93,734 80,000 70,000 60,000 Mar 25 Apr 12 First prediction 50,000 Latest prediction 81,067 68,841 40,000 Actual 23,649 30,000 Apr 9 20,000 Prior prediction 61,545 10,000 Feb 6 Feb 27 Feb 27 Mar 5 Mar 19 Apr 26 Apr 26 Apr 26 Apr 23 Jun 11 Jun 11 Jun 12 Jul 29 Jul 19 Jul 19 Jul 23 Jul 23 Jul 23 Jul 23 Jul 23 Jul 23 Jul 23

For this day, versus all model mean predictions



Source: ECDC, 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: ECDC, TrendMacro calculations

Impact in continental Europe



Source: ECDC, TrendMacro calculations

Impact in other hot-spots

