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Data Insights: Covid-2019 Monitor

Monday, April 5, 2021

The global scorecard



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The US scorecard

The ten worst US states													
New cas	New Dea	aths	New in hospital		Ourre cases		Curre deaths		Qurre in hospital		Hospital use	ICU use	
NY	+7,636	NY	+82	FR	+ 199	CA	3,675,272	CA	59,614	TX	227,856	RI 90%	MI 22%
R.	+4,794	VA	+42	MI	+ 167	TX	2,802,225	NY	50,633	CA	223,829	MD 83%	MD 21%
NJ	+3,799	R.	+22	PA	+66	Æ	2,081,826	TX	48,697	R.	154,044	MA 83%	NY 19%
PA	+2,832	TX	+21	IL	+50	NY	1,905,737	R.	33,674	NY	117,289	CT 79%	PA 14%
L	+2,442	L	+19	IN	+29	IL	1,256,533	PA	25,173	GA	95,447	PA 79%	MN 13%
MD	+1,669	MD	+8	MN	+24	GA	1,064,554	NJ	24,637	CH	76,322	MI 78%	WV 13%
VA	+1,267	PA	+7	FL 200	+20	PA	1,043,524	L	23,654	PA	75,283	MO 78%	TX 13%
ω T	+1,220	NJ	+5	SC	+20	CH NI	1,024,011	GA	19,212	IL IA(69,309	HL 78%	DC 13%
IX INI	+1,007		+5		+ 19	NJ NC	927,195	UH MA	18,643	KY AZ	68,680	VVV 77%	ID 13%
IN	+ 940	AR	+2	VVA	+ 19	NC	910,109	IVIA	201 210	AZ	1 166 692	GA 76%	NU 13%
	+21,011		+215		+013		10,097,000		JZ1,Z10		1,100,000		
All states	+ 34 282		±222		±447	All states	30 706 126		555 001		2077072	All states 70%	67%
Tonten	+ 0+,202 81%		+ <u>///</u> 96%		137%	Tonten	54%		58%		56%	Median 70%	0776 0%
TOP TOT	0170		5070		101 /0	lopion	0470		Sa	me states n	ot renorting	Weddarf 7070	570
Five most improved US states													
Fewer daily cases Fewer new deaths Fewer new hospitalizations Most pop immunuity growth													
MI	-9.292				IA	-68			NY	-162		WY	+162.bp
MA	-2,453				MI	-65			СН	-133		ME	+100 bp
PA	-2,301				ТХ	-56			NJ	-73		AK	+83 bp
СН	-2,293				Æ	-44			VA	-53		R	+77 bp
MN	-2,064				GA	-32			GA	-39		Æ	+75 bp
350.000 -													- 12.0%
330,000													12.070
300,000 -										1.		- 10.0%	
	942.7	18 bp of po	opulation in	fected							11		10.070
050.000	17 039 bn of monulation fatalities												
250,000 -	,000 38.1 median population are										0.00/		
द्व Cume fatality rate 1.81%									- 0.0%				
원 달 200,000 -						2-w	reek fatality rat	e 1.64% -		. 1//			Cas
es ar					····.		,				' III I		e fat
cas					and the second	30,706,126 ca	ses cumulative	9				M	- 0.0% ality
출 150,000 -						+34,282 c	ases today					M	rate
Jaily			1			555.001 dea	aths cumulative	;				<u> </u>	4.00/
100.000						+222 de	aths today						- 4.0%
100,000 -							*************					M	
						AMA			NN			AAA M	
50,000 -			5 () 			M V	MARIA	MA.M	N .			- ANA	2.0%
Man and									•				
			1	V.	r		7-	day moving a	verage cases				0.00/
Dec 31 Jan 28 Feb 25 Mar 24 Apr 21 May 19 Jun 16 Jul 14 Aug 11 Sen 8 Oct 6 Nov 3 Dec 1 Dec 29 Jan 26 Feb 23 Mar 23													
Decisi jan zo redizo marza aprzi may io junito junita augiti Sepix. Ucto indvisi deci decizo jan zo redizo Marzo													

Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

	j out ti II				o unu		Over last o	lav	Immunity	Full	Partial	
217 16 million doses distributed							+0.02 mill	ion/dav	US	18.4%	31.8%	
171.74 mil	lion doses	administer	red		+3.47 million/day					UK	7.9%	46.4%
109.86 million persons partially immunized							+2.05 mill	ion/day	20⁄ 1&1	France	4.5%	13.6%
63.97 milli		+1.61 milli	ion/day	3 /0	Spain	6.1%	12.2%					
7.74 millio		+0.00 milli	ion/də [,]		Germany	5.2%	12.0%					
79.1% of	distribut	ed doses	administe	ered				Moderna	Pfizer	r Italy	5.7%	12.6%
32.9% of	US pop p	artial		19.1% fu	ll immun	itv		46%	51%	Australia	0.7%	0.6%
100% of	LTC partia	al		63.6% fu	ll immun	ity					55.9%	60.9%
						At today'	s dosing ı	oace.		Canada	1.9%	14.8%
						everv Am	erican >1	8 immune	e in	Japan	0.1%	0.7%
		C+.]		00	day			Africa	0.3%	0.6%
	State					ðU	Udy	S	India	0.8%	5.0%	
	Doses distributed			Deet		by Jun 22	2, 2021		Brazil	2.2%	7.8%	
	as % population			US achieves adult herd immu						Global data diff	ers due to sou	rces
AK	AK Partial immunity					20	day			China NA	ME	
87.0%	as % population			wildule		39	Udy	5			68.1%	
35.2%	35.2% Full immunity					by May 1	2, 2021				37.8%	
24.2%		as % po	pulation	WOISL							22.9%	
						WI				VT	NH	
						59.6%				73.3%	62.0%	
						34.9%				36.4%	40.4%	
						21.0%				21.4%	19.7%	1
	WA	ID	MT	ND	MN	IL	MI		NY	MA		
	63.5%	57.5%	67.6%	64.3%	59.7%	63.3%	61.1%		65.4%	66.8%		
	32.4%	27.9%	33.0%	34.5%	34.3%	34.0%	31.0%		34.1%	37.4%		
	20.1%	18.0%	21.4%	22.9%	21.3%	18.2%	19.1%	DA	20.7%	21.2%		1
			VV Y	5D			UH		NJ		RI	
	00.5%	57.5% 20.7%	70.1%		00.8%	54.1%	03.4%	03.9%	bZ.1%	72.3%	04.0%	
	30.8%	29.7%	29.0%	37.0%	33.5%	27.4%	31.7%	34.8%	30.4%	38.3%	30.2%	
		17.8%	20.5%	24.8%	21.3% MO	18.3%		18.0% VA	21.3% MD	22.9% DE	23.8%	i
	64.1%	54 1 %	61.2%	INE 65.0%	G1 /10/	N 1	60.6%	61 0%	62 0%	65.2%		
	04.1 /0 33 6%	29.1%	22.8%	00.0 /0 32 0%	01.4 /0 28 1 %	01.1 /0 33 7%	21.0%	21.5%	23.0%	3/ 1%		
	17.8%	20.1 /0	10.3%	20.4%	20.170	10.0%	21.2%	10.2%	10.6%	18 1%		
	17.0/0	Δ7	NM	20.470 KS	ΔR	TN	NC.	SC		10.170		
		62.4%	72.2%	64.7%	63.2%	60.3%	62.6%	59.3%	76.9%			
		31.8%	40.9%	33.7%	28.4%	27.1%	30.9%	28.9%	30.4%			
		18.8%	26.0%	19.0%	16.0%	15.4%	18.0%	16.5%	15.6%			
	1	10.070	20.070	0K	LA	MS	AL	GA	10.070	1		
				71.7%	62.5%	61.9%	59.0%	58.7%				
				33.0%	27.7%	25.9%	25.3%	25.7%				
				20.3%	18.2%	16.8%	14.5%	13.1%				
HI				TX					FL] [PR	
71.5%				58.1%					64.6%		65.8%	
33.6%				27.9%					30.5%		23.9%	
21.0%				15.7%		As of Apr 4			17.9%		13.9%	

Rolling out the vaccines in the US and the world

* Adult herd immunity is 60% of population over 18 years either fully vaccinated or prior tested positive, no overlap

Source: <u>CDC</u>, <u>CDC</u>, <u>Our World in Data</u>, TrendMacro calculations



Source: Johns Hopkins, Covid Act Now, TrendMacro calculations



Source: Distributions <u>CDC</u>, Comorbidities <u>CDC</u>, TrendMacro calculations

Recommended reading

J&J Takes Over Contractor's Covid-19 Vaccine

Manufacturing Plant

Peter Loftus and Alex Leary *Wall Street Journal* April 4, 2021

<u>'Godzilla vs. Kong' Roars at Theaters, Suggests Pent-Up Demand</u>

Erich Schwartzel *Wall Street Journal* April 4, 2021

Vaccine 'Fiasco' Damages Europe's Credibility

Steven Erlanger *New York Times* April 2, 2021

Meme of day



Source: Our beloved clients, and Power Line blog "The Week in Pictures"



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: Johns Hopkins, TrendMacro calculations



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



Source: Johns Hopkins, 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: Johns Hopkins, 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 Act Now, TrendMacro calculations



Source: Johns Hopkins, TrendMacro calculations



Source: Johns Hopkins, TrendMacro calculations

Patient zero... and then everyone else





Source: Johns Hopkins, TrendMacro calculations



Source: Johns Hopkins, TrendMacro calculations





Impact in other hot-spots







Impact in Africa, continued

