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Data Insights: Covid-2019 Monitor

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The global scorecard



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The US scorecard

						The te	en worst US	states					
New cases		New Deaths		New in hospital		Ourne cases		Quime deaths		Qume in hospital		Hospital use	ICU use
R.	+6,684	MI	+ 121	FR	+215	CA	3,727,913	CA	61,309	TX	233,223	RI 92%	MI 31%
MI	+5,511	CA	+116	IL	+106	TX	2,867,748	NY	51,830	CA	227,481	MA 84%	MD 26%
NY	+5,238	NY	+98	MI	+41	Æ	2,191,038	TX	49,818	R.	161,133	MD 82%	MN 20%
PA	+4,078	R.	+80	GA	+38	NY	2,018,044	R.	34,696	NY	124,095	PA 82%	RI 19%
TX	+3,429	TX	+70	ΤN	+36	IL	1,312,620	PA	25,869	GA	98,306	MI 82%	NY 18%
NJ	+3,230	PA	+50	NY	+30	PA	1,124,659	NJ	25,301	PA	80,126	CT 81%	PA 16%
IL	+3,161	GA	+46	ан	+30	GA	1,089,497	IL	24,056	CH	79,205	MO 80%	00 14%
CA	+2,825	IL	+38	WI	+29	СН	1,060,119	GA	19,875	IL	72,842	FL 79%	IL 14%
00	+2,361	NJ	+30	KY	+28	NJ	990,580	CH	19,033	KY	70,459	MN 79%	DC 14%
NC	+2,236	NC	+25	WA	+27	NC	954,765	MI	18,251	MI	59,811	SC 79%	ME 13%
	+38,753		+674		+580		17,336,983		330,038		1,206,681		
All states	167.257		1 0/12		1477		21 020 251		570 245		2 152 074	All states 70%	670/
Tonten	-01,201 58%		т 34 5 71%		122%	Tonton	5/0%		58%		2,130,374 56%	Median 73%	10%
lopian	3070		11/0		122/0	lopteri	J 1 /0		5070 Sol	me states n	ot renortina	Median 1370	1070
	Five most improved US states												
Fewer daily cases Fewer new deaths Fewer new hospitalizations Most pop immunuity growth													
ТХ	-998				NJ	-35			NJ ·	-113		 NE	+77 bp
KS	-577				PA	-20			TX	-74		W	+71 bp
MI	-462				CK	-19			ω	-56		ME	+70 bp
PA	-459				NC	-18			R.	-51		DE	+68 bp
NJ	-245				IN	-10			PA	-47		KS	+68 bp
350,000 -													☐ 12.0%
300,000 -	United States As of Apr 22 980.272 bp of population infected										- 10.0%		
- 250,000 - deaths	17.510 bp of population fatalities 31,929,351 cases cumulative 38.1 median population age +67,257 cases today										- 8.0%		
200,000 - 888 200,000 -	Cume fatality rate 1.79%										- 6.0% ase fatality		
- 150,000 - Daily Daily Daily	2-week fatality rate 1.08%										ੇ ਦੇ - 4.0%		
100,000 - 50,000 -	+943-deaths today										2.0%		
			J.	Win	~~~^			• noving avera	ve cases				
Dec 31 Jan 28 Feb 25 Mar 24 Apr 21 May 19 Jun 16 Jul 14 Aug 11 Sep 8 Oct 6 Nov 3 Dec 1 Dec 29 Jan 26 Feb 23 Mar 23 Apr 20													

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

US overall	out in	0 1000					Immunity	Full	Partial			
293.69 mil	lion doses (distributed					US	26.2%	40.2%			
226.77 mil	lion doses a	administere	ed				+3.06 milli	on/day	18.1	UK	15.9%	48.8%
139.86 mil	lion person	s partially i	mmunized				+1.37 milli	on/day	4%	France	7.1%	19.1%
92.42 milli	on persons	fully immu	nized				+1.69 milli	on/day		Spain	7.7%	21.1%
7.78 million shots long-term care residents/staff							+0.002 mil	lion/dr		Germany	6.8%	21.4%
77.2% of c	distributed	doses adm	inistered					Moderna	Pfizer	ltaly	7.9%	19.0%
<mark>41.9% of l</mark>	JS pop par	tial		27.7% full	immunity			<mark>4</mark> 4%	Australia	1.0%	0.6%	
100% of L	TC partial			64.0% full	full immunity					Israel	57.8%	62.0%
						At today's	s dosing p	ace,		Canada	2.5%	26.1%
				-		every Am	erican >18	3 immune	in	Japan	0.7%	1.2%
State			76 davs						Africa	0.4%	0.8%	
			-			uuy	0	India	1.3%	8.1%		
					by Jul 6, 2021						4.3%	11.7%
		as % µuµ Partial i	mmunity	US achieves adult herd immunity*						China NA		
AN		as % no	nulation	Be	Best 6 days						10 00/	
54.9% as % population						by Apr 20	2 2021			40.070 50.7%		
40.0% Full minutity				Mid	dle	by Apr Zo	5, 2021]	34.6%	
JJ.1 /0		00 /0 pc	palation			WI	1			VT	NH	
				Wo	rst	43.5%				52.6%	46.5%	
						43.3%			49.4%	58.9%		
						30.7%				33.3%	29.1%	
	WA	ID	MT	ND	MN	IL	MI	1	NY	MA		8
	44.9%	40.1%	46.6%	42.8%	42.9%	46.0%	45.4%		46.1%	50.0%		
	42.2%	32.7%	39.1%	38.2%	43.6%	43.3%	39.8%		44.4%	50.7%		
	28.4%	24.2%	28.7%	30.4%	30.2%	26.9%	27.7%		30.2%	31.3%		-
	OR	NV	WY	SD	IA	IN	ОН	PA	NJ	CT	RI	
	44.0%	40.3%	43.6%	50.6%	44.1%	40.4%	44.4%	47.8%	46.0%	53.4%	50.5%	
	40.0%	37.4%	33.1%	43.4%	41.9%	34.1%	38.6%	45.3%	47.9%	50.9%	47.5%	
	25.9%	25.2%	25.6%	32.4%	29.7%	23.7%	28.1%	27.9%	31.6%	33.7%	32.9%	
		UI OD 40/		NE	MU	KY		VA	MD	DE		
	47.2%	38.4%	45.0%	44.6%	42.4%	43.0%	47.1%	45.1%	47.0%	47.8%		
	45.0%	37.2%	43.7%	41.8%	35.2%	39.5%	34.9%	43.7%	44.7%	43.4%		
	20.070	Δ7	Z7.7%	29.4%	24.3 % ΔR	20.0% TN	27.0% NC	20.3 %	29.9%	27.070		
		44.3%	49.7%	45.3%	44.1%	40.9%	44.1%	43.5%	55.4%			
		38.5%	48.8%	40.0%	34.2%	32.8%	37.2%	34.9%	43.3%			
		25.9%	33.6%	27.9%	22.7%	21.6%	26.0%	24.0%	25.2%			
		20.070	00.070	OK	LA	MS	AL	GA	20.270			
				48.2%	40.8%	41.9%	41.5%	42.9%				
				37.5%	31.4%	30.0%	31.0%	33.3%				
	_			27.2%	24.5%	21.9%	20.6%	20.7%		_		_
HI				TX					FL		PR]
50.4%				42.7%					47.2%		47.6%	
47.7%				36.1%							33.1%	
31.9%				23.7%		As of Apr 22			25.4%		21.0%	

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

** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

Source: CDC, CDC, Our World in Data, TrendMacro calculations



Source: Johns Hopkins, Covid Act Now, TrendMacro calculations



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

Recommended reading

<u>Cuomo Finishes the Pandemic as He Started It, by</u> Failing Seniors

Allysia Finley *Wall Street Journal* April 22, 2021

<u>Texas Ended Lockdowns and Mask Mandates. Now</u> <u>Locked-Down States Are Where Covid Is Growing</u> <u>Most</u>

Ryan McMaken *Mises Institute* April 21, 2021

Petition to undo Michigan Governor Whitmer's COVID executive orders has enough valid signatures

Nicholas Sherman *Just the News* April 21, 2021

Meme of the day

New Study Confirms Cats Can't Spread COVID-19, But Would If Given Option



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







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



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



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: <u>Covid Act Now</u>, TrendMacro calculations



Source: Johns Hopkins, TrendMacro calculations



Source: Johns Hopkins, TrendMacro calculations

Patient zero... and then everyone else







Source: Johns Hopkins, TrendMacro calculations









Impact in other hot-spots



Impact in the BRICs ex-China





Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations