

Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

#### Data Insights: Covid-2019 Monitor

Saturday, May 2, 2020

#### The global scorecard



#### For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com

Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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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 cas	æs	New Deaths		New in	hospital	Qume c	ases	Qume de	aths	Cume in hospital					
NY	+3,942	NJ	+310	CT	+7,758	NY	308,314	NY	18,610	NY	67,180				
IL	+3,137	NY	+289	NY	+811	NJ	121,190	NJ	7,538	СТ	7,758				
NJ	+2,538	MA	MA	+227	MA	64,311	MI	3,866	MA	6,169					
MA	+2,106	IL +102		MD	MD +159		56,055	MA	3,716	FL	5,795				
MD	+1,730	CA	+91	GA	+113	CA	50,442	IL	2,457	GA	5,269				
CA	+1,525	CT	+82	SC	+110	PA	46,971	PA	2,354	MD	4,718				
TN	+1,525	MI	+77	OH	+ 101	MI	42,356	CT	2,339	VA	3,654				
PA	+1,208	LA	+65	TN	+100	R.	34,728	CA	2,073	OH	3,634				
TX	+1,142	PA +62		CO	+76	TX	29,229	LA	1,927	CO	2,697				
GA	+1,115	IN	+61	MN	+52	CT	28,764	R.	1,314 WI		1,544				
	+ 19,968		+1,293		+9,507		782,360		46,194		108,418				
All states	+33,547	All states	+1,743	All states	+9,793	All states	1,095,681	All states	59,059	All states	121,748				
Topten	60%	Topten	74%	Top ten	97%	Topten	71%	Top ten	78%	Top ten	89%				
	Five most improved US states														
Fewer d	aily cases		Fewer	new deaths		Fewer r	new hospitalizat	ions		Most recoveries	6				
CA	-892			NJ -14	В		FL -171	l		CT	+4,346				
NY	-739			MI -42	2		NY -161	l		NY	+ 1,416				
KS	-289			IL -38	3		RI -105	5		TX	+769				
PA	-189			PA -3:	5		VA -46			AR	+668				
NC	-147			SC -2	)		MN -42			TN	+406				
60,000 United States As of May 2															
50,000 -	33.888 bp of population infected 38.1 median population age 1,103,781 cases cumulative														
- 40,000 - م طوعت	6.553,449 tests cume														
⊑ 88 30,000 - ≥	M ALMII														
Daily nev 000,02	11.0% positive today														
10.000															
62,769 deaths cumulative +2,062 deaths today											- 1.0%				
	31 Jan 7	lan 1/1 lan 01 lan	28 Eah / E	ah 11 Eah 19	Feb 25 Ma	r 3 Mar 10 M	Mar 17 Mar 04	Mar 31 Apr	7 Apr 14	Anr 21 Anr 29	<b>1</b> 0.0%				
Dec		Jun 14 Jun 21 Jun	20 1004 1	CO II IGN 10	I GU ZU IVId	IJ WICHTU W	nui 17 IVIAI 24	ινιαι στ Αφί	, лµт14	πμιζι Μμίζο					

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

### Recommended reading

# Intelligence Community Statement on Origins of COVID-19

*Office of the Director of National Intelligence* April 30, 2020

#### We need the real CDC back, and we need it now

Ashish K. Jha *Stat* April 29, 2020

Oregonians have died at rate well above average since mid-March, but tie to COVID-19 unclear, state data show

Andrew Theen *The Oregonean* April 29, 2020

## Meme of the day

#### <u>The Forgotten Hong Kong Flu Pandemic of 1968 Has</u> <u>Lessons for Today</u>

John Fund *National Review* April 26, 2020

# Full lockdown policies in Western Europe countries have no evident impacts on the COVID-19 epidemic.

Thomas A. J. Meunier *medRvix* May 1, 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 *Share of infected population from first day with 100 confirmed cases, log scale*



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 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.



Source: ECDC, TrendMacro calculations

Requirement to Open Up America Again: 14-day "downward trajectory" in new cases 14-day moving average, last 14 days Most recent value displayed

![](_page_6_Figure_1.jpeg)

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* 

![](_page_7_Figure_1.jpeg)

Source: Covid Tracking Project, TrendMacro calculations

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

#### New daily fatalities

Actual versus first, highest and latest model mean predictions

![](_page_8_Figure_3.jpeg)

For this day, versus all model mean predictions

![](_page_8_Figure_5.jpeg)

#### **Cumulative fatalities**

Actual versus first, highest and latest model mean predictions

![](_page_8_Figure_8.jpeg)

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

![](_page_8_Figure_10.jpeg)

Source: ECDC, TrendMacro calculations

As of May 2

For this day, versus all model mean predictions  $\bigotimes_{i=1}^{\infty} \sum_{j=1}^{\infty} \sum_{i=1}^{\infty} \sum_{j=1}^{\infty} \sum_{j$ 

Mar 25 62,226		Mar 29 60,946	Mar 30 60, 734		Mar 31 69,7	Apr 1 69,78	Apr 2 69,55	Apr 5 72 9	Apr 7 53,376	Apr 8 53,376	r 9 49,961	pr 12 52,487	Apr 17 56,086	Apr 21 59,879	Apr 22 60,510	Api 20 02,423	C16,20 52 1014	Actual 02,703
									-		Api	4						
-	-	_		-	-	_	_	_	-	_	_			_				

### From Ground Zero to the Rio Grande

![](_page_9_Figure_1.jpeg)

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

## Patient zero... and then everyone else

![](_page_10_Figure_1.jpeg)

![](_page_10_Figure_2.jpeg)

Source: ECDC, TrendMacro calculations

## Impact in the largest economies

![](_page_11_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

## Impact in The Anglosphere

![](_page_12_Figure_1.jpeg)

![](_page_12_Figure_2.jpeg)

![](_page_12_Figure_3.jpeg)

![](_page_12_Figure_4.jpeg)

100

Dec 31 Jan 7 Jan 14 Jan 21 Jan 28 Feb 4 Feb 11 Feb 18 Feb 25 Mar 3 Mar 10 Mar 17 Mar 24 Mar 31 Apr 7

1.0%

0.5%

Apr 14 Apr 21 Apr 28

## Impact in continental Europe

![](_page_13_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations

## Impact in other hot-spots

![](_page_14_Figure_1.jpeg)

## Impact in the fragile emerging world

![](_page_15_Figure_1.jpeg)

Source: ECDC, TrendMacro calculations