



# COVID-19 UPDATE: Americans broke their "shelter at home diets" and next 2 weeks will tell us a lot. Most at stake are "social distance victim stocks" = barometer next 2 weeks

### THIS MESSAGE IS BEING SENT SOLELY TO CLIENTS OF FS INSIGHT

There are sources if the US sees "renewed" outbreak in the number and intensity of COVID-19 cases. We touched upon these yesterday, the first is the 75 cities seeing widespread protests stemming from the senseless death of George Floyd; and the second, is imported cases along the US-Mexico border (as discussed below, in the 23 counties bordering US-Mexico, daily cases +162% in the past month). From a healthcare perspective, the mass gatherings, laying aside social distance protocol, PPE (for most part) and sanitization, is equivalent to a dieter being 27 days into a 30 day "no carb" diet and suddenly breaking fast.

But I don't know what will happen in two weeks. And this is why the path of COVID-19 in the US is dependent on the outcome from these protests. No doubt, Americans gathering in density is similar to the Champion League events in Northern Italy that resulted in that country's massive outbreak. We now have transmission risk in high gear in the US in 75 cities. This is a fact. And the outcome could be 1 of several:

- USA cases explode in the next two weeks;
- USA cases remain flat/steady next two weeks, more of the same trend as today;
- USA cases collapse in the next two weeks;

If this last one is what we see, then this, by far, is the biggest development for COVID-19 anywhere in the World. This suggests the combination of using PPE, and/or better weather (>vitamin D) and/or mutations are making COVID-19 less of a health risk. And this means no second wave (for now), and no need for future shutdowns. Very likely, Americans will resist a future effort to shelter-at-home, with Americans breaking their "shelter at home diets," it is doubtful that genie can be put back in the bottle.

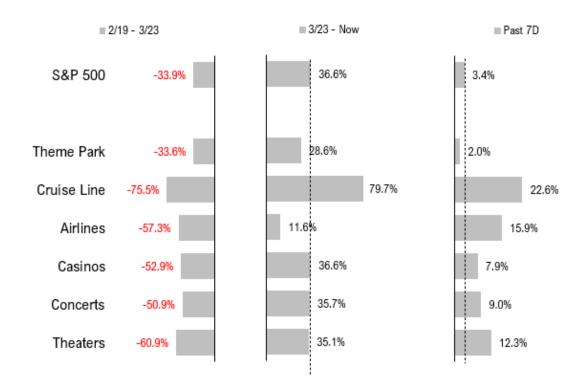
The biggest winners if there is no "second wave" in two weeks:

- theme parks
- cruise lines
- airlines
- casinos
- outdoor events
- sports and stadiums
- concerts
- bars and nightclubs
- theaters



Put another way, the equities of these groups are worth watching. If they continue rallying, they are telling us the protests are not triggering a second wave. So far, these groups have been strong over the past week.

- we will see how they do in the next 2 weeks.
- if strongly, then likely no second wave



POINT #1: Ex-MA, US cases count plunged to a new all-time low of <16,500. MA "adjustment" includes ~3,000 "probable" cases

The total USA COVID-19 case count came in at 19,959, -2115 from 1D ago and -3977 from 2D ago. Total tests administered rose to ~414k today vs ~375K 1D ago. And the total case count would have been even lower as Massachusetts reported a massive +3,840 cases today (+3,176) as it "adjusted" its case counts to reflect past "probable" cases.







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# Mass. sees 3,840 new coronavirus cases, 189 new deaths as officials begin reporting 'probable' cases

By Jaclyn Reiss Globe Staff, Updated June 1, 2020, 2 hours ago













Massachusetts Governor Charlie Baker, SAM DORAN/POOL

The state reported Monday that the death toll from the coronavirus outbreak in Massachusetts had risen by 189 and that the number of cases had climbed by 3,840.

https://www.bostonglobe.com/2020/06/01/metro/mass-coronavirus-death-toll-surges-over-7000-cases-surpass-100000-state-begins-including-probable-cases/



# 2 states see sizable jumps:

Massachusetts	3,840 vs 664 (10	0) +3,176
Connecticut	539 vs 179	+360
Total		+3,536

# 6 states see sizable declines (usual ping-pong):

Texas	593 vs 1,949 (1D)	-1,356
California	2,423 vs 3,705	-1,282
Arizona	187 vs 681	-494
Michigan	135 vs 513	-378
Illinois	974 vs 1,343	-369
New Jersey	473 vs 837	-364
Total		-4,243

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# Daily Case Increases (by State) (06/01)

% total new cases (state cases/ total US cases) % total US pop (state population/ total US population)

# Sorted Last 3-day trend growth rates

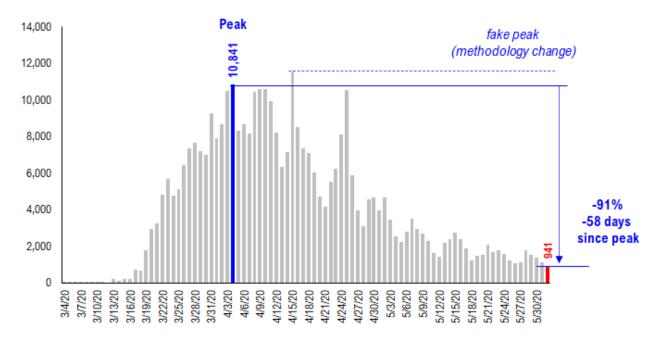
		5/30/20	5/31/20	6/1/20	
	United States	00.000	00.074	40.050	
	United States	23,936	22,074	19,959	
	States:				
1	Massachusetts	789	664	3,840	<higher< td=""></higher<>
2	California	2,992	3,705	2,423	
3	Illinois	1,462	1,343	974	
4	New York	1,376	1,110	941	
5	Virginia	1,078	996	791	
6	North Carolina	1,185	916	674	
7	Florida	927	739	667	
8	Georgia	616	700	632	
9	Texas	1,332	1,949	593	
10	Maryland	1,027	763	549	
11	Tennessee	481	440	548	
12	Connecticut	260	179	539	<higher< td=""></higher<>
13	New Jersey	764	837	473	
14	Ohio	468	479	471	
15	Alabama	536	544	460	
16	Louisiana	775	339	425	
17	Minnesota	659	660	358	
18	Pennsylvania	680	511	356	
19	Washington	307	278	353	
20	Kentucky	240	0	342	<higher< td=""></higher<>
21	Kansas	0	0	292	
22	South Carolina	263	467	287	
23	Indiana	653	363	256	
24	Mississippi	439	272	251	
25	Nebraska	251	196	244	
26	Utah	269	264	202	
27	Colorado	485	280	199	
28	Arkansas	236	240	190	
29	Arizona	790	681	187	
30	Missouri	167	185	180	
31	Iowa	288	308	145	
32	Wisconsin	523	173	140	
33	Michigan	263	513	135	
34	New Mexico	131	65	111	
35	Delaware	186	76	107	
36	Puerto Rico	71	58		<higher< td=""></higher<>
37	Nevada	145	98	95	
38	Oklahoma	80	88	67	
39	Rhode Island	184	109	63	
40	Oregon	54	58	59	
41	District of Columbia	179	84	56	
42	North Dakota	34	23		<higher< td=""></higher<>
43	South Dakota	94	33	41	
44	New Hampshire	53	106	34	
45	Maine	56	43	24	
46	Idaho Wyomina	36	57	10	
47	Wyoming Wood Virginia	7	5	7	
48	West Virginia	23	36	7 7	
49	Alaska Montana	4	26		
50 51		12	10	4	
51	Vermont	2	4	2	
52 53	Guam U.S. Virgin Islands	1	0	2	
53 54	Northern Mariana Islands	0	0	0	
54 55	Hawaii	3	1	0	
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Source: COVID-19 Tracking Project



## NY state cases are now down -91% from peak (58 days ago)

Look at how much progress NY state has made as its total cases fell below 1,000 and are now down 91% from its peak. NY state is clearly on the other side of the battle of COVID-19.

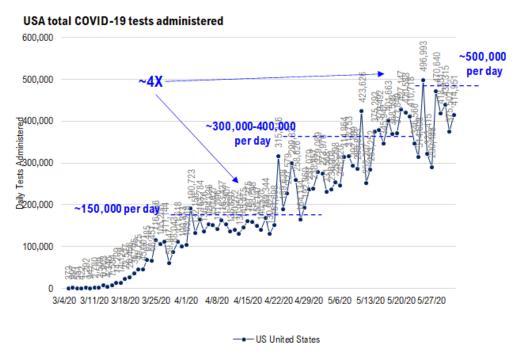


Source: COVID-19 Tracking Project



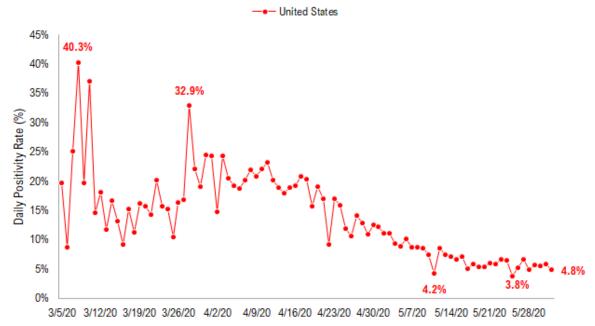
### Total tests administered came in at 414,951, up 11% vs 1D ago...

Total tests administered today increased sizably, up 11% and is hovering around the 400,000 level over the past few weeks.



Source: COVID-19 Tracking Project

And this led to positivity rate falling to 4.8%. This is not as low as the 3.8% reported a few weeks ago. But the figure today also reflects a big one-time adjustment from MA.



Source: COVID-19 Tracking Project



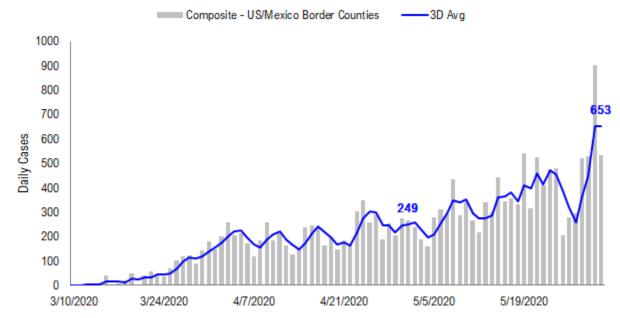
POINT #2: USA importing COVID-19 along US-Mexico border counties as daily cases +162% in past month. For states open prior to 5/1/2020 (4 weeks now), daily cases -11%

# USA seeing imported COVID-19 cases from Mexico along US-Mexico border, cases +162% in past month...

Yesterday, I was struck by the case data reported by Imperial County, CA, which noted that they saw a surge in cases due to overflow from Mexico. So tireless Ken, our data scientist, compiled the daily case data for US counties bordering Mexico. There are 23 counties and the composite is shown below.

- it is clear the cases have been rising sharply in these 23 counties over the past few weeks.
- in the past month, daily cases +162% from 249 to 653.

So these border counties are seeing a surge in cases, by contrast with the rest of the USA.



Source: State Health depts for CA and TX, Johns Hopkins CSSE

We have listed the daily case data for the 23 counties below (sorted by total cases in past 10D). There are case surges across CA, TX, NM and AZ.

- Imperial County saw a massive surge
- Yuma, AZ went virtually zero a month ago to 100/day



		New Cases in Past	Dailly New Cases in the Past 10 Days									
County	Population	10D	5/22	5/23	5/24	5/25	5/26	5/27	5/28	5/29	5/30	5/31
Composite	7,820,962	4,624	409	476	479	204	278	297	521	528	900	532
San Diego, CA	3,338,330	1,166	119	125	142	96	85	101	117	140	145	96
Imperial, CA	181,215	1,101	118	69	86	0	0	0	61	177	484	106
El Paso, TX	839,238	718	114	105	75	36	17	68	108	54	81	60
Yuma, AZ	213,787	597	0	96	66	0	127	41	98	0	46	123
Pima, AZ	1,047,279	424	30	28	25	19	29	44	48	67	56	78
Santa Cruz, AZ	46,498	207	8	12	26	17	1	1	37	37	35	33
Doña Ana, AZ	218,195	104	8	0	37	16	5	11	3	7	11	6
Cameron, TX	423,163	100	0	22	12	0	0	13	20	12	11	10
Hidalgo, TX	868,707	93	5	10	0	15	7	12	21	0	11	12
Webb, TX	276,652	48	2	2	9	5	0	5	3	11	5	6
Cochise, AZ	125,922	23	5	2	1	0	5	-1	4	0	5	2
Maverick, TX	58,722	22	0	3	0	0	0	0	0	12	7	0
Starr, TX	64,633	11	0	2	0	0	0	2	1	6	0	0
Val Verde, TX	49,025	5	0	0	0	0	1	0	0	4	0	0
Hudspeth, TX	4,886	2	0	0	0	0	1	0	0	0	1	0
Zapata, TX	14,179	1	0	0	0	0	0	0	0	0	1	0
Presidio, TX	6,704	1	0	0	0	1	0	0	0	0	0	0
Kinney, TX	3,667	1	0	0	0	0	0	0	0	0	1	0
Luna, AZ	23,709	0	0	0	0	-1	0	0	0	1	0	0
Brewster, TX	9,203	0	0	0	0	0	0	0	0	0	0	0
Hidalgo, AZ	4,198	0	0	0	0	0	0	0	0	0	0	0
Jeff Davis, TX	2,274	0	0	0	0	0	0	0	0	0	0	0
Terrell, TX	776	0	0	0	0	0	0	0	0	0	0	0

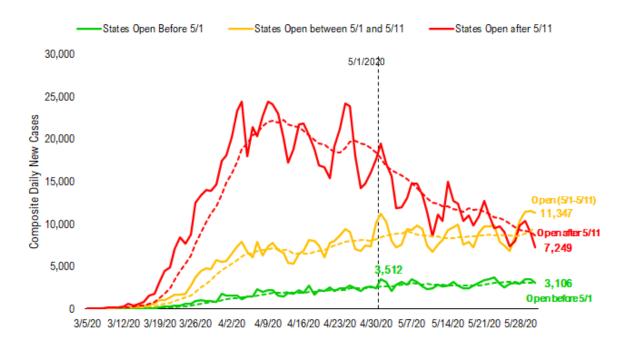
Source: State Health depts for CA and TX, Johns Hopkins CSSE

# By contrast, states open prior to 5/1/2020 are seeing no surge in cases and daily deaths now down -23% since 5/1

We have updated our daily case composites, to show trends for states open, based on date of opening. The surge in yellow is MA. So, it may be worth giving that one a mulligan.

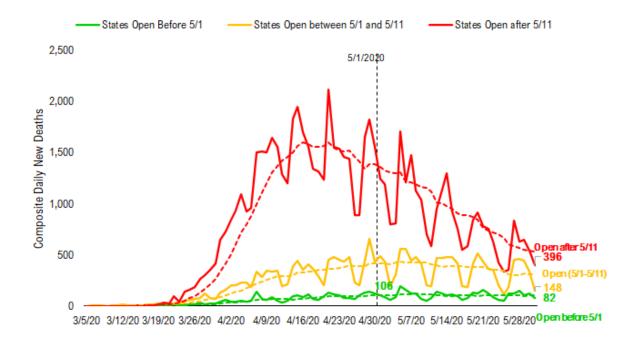
- states open prior to 5/1 have seen daily cases of 3,106, down 11% from 5/1.
- it has been >4 weeks and yet daily cases have been muted





Source: COVID-19 Tracking Project

Similarly, daily deaths in the 13 states (open prior to 5/1/2020) are down 22% Similarly, daily deaths have been falling in these 13 states and are now down 22% from 5/1. This is all fairly positive news, as it suggests these states, which have seen relaxed restrictions >4 weeks, are not experiencing a surge in cases.



Source: COVID-19 Tracking Project

The 13 states are listed below. Despite all the commentary prognosticating doom, none of the



13 states seems to be having any renewed outbreak. Not even Georgia.

			New										
State	Reopen	Population	Cases in Past 10D	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20	5/30/20	5/31/20	6/1/20
Composite	Date	43,940,372	30,955	3,708	2,932		2,933	3,041	2,980	3,514	3,474		2,693
Georgia	4/24/2020	10.617.423	6,400	914	706	506	386	691	649	600	616	700	632
Minnesota	4/30/2020	5,639,632	6,203	840		742	645	504	483	584	659	200	358
Alabama	4/30/2020	4,903,185	4,800	375			666	447	467	513		10.5.13	460
lowa	4/27/2020	3,155,070	3,189	390	353	326	126	657	226	370	288	308	145
Mississippi	4/27/2020	2,976,149	3,128	381	247	206	273	313	328	418	439	272	251
Utah	3/15/2020	3,205,958	1,942	203	132	129	99	86	215	343	269	264	202
Arkansas	3/15/2020	3,017,804	1,831	163	147	107	151	97	261	239	236	240	190
Kentucky	4/27/2020	4,467,673	1,620	145	0	0	380	126	107	280	240	0	342
South Dakota	3/15/2020	884,659	678	112	95	23	67	57	83	73	94	33	41
West Virginia	4/20/2020	1,792,147	401	101	42	15	80	13	68	16	23	36	7
North Dakota	3/15/2020	762,062	389	49	54	40	43	17	42	39	34	23	48
ldaho	4/30/2020	1,787,065	311	31	39	19	15	32	38	34	36	57	10
Alaska	4/27/2020	731,545	63	4	0	1	2	1	13	5	4	26	7

Source: COVID-19 Tracking Project

# POINT #3: The weekend protests across the US is 1,000X super spreader events all in one day

The protests that erupted across the US reflect a nation that is rallying behind a cause, a cause that compelled Americans to break quarantine and even disregard the social distance measures prescribed by health experts. In other words, the biggest development in COVID-19 over the past week are the widespread protests across the US. Thousands of Americans left their homes to gather in large groups, with "recommended" social distance measures not being maintained (6 feet) and without proper sanitation and likely insufficient PPE (protective equipment).





10:15 PM · Jun 1, 2020 · Twitter for Android

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And the reason health experts are concerned, is these large gatherings are the source for widespread transmission. Recall, the concerns about the Memorial Day gatherings in the Lake of the Ozarks, Missouri. The dense crowds are not that different than the density seen over this past weekend across the US.

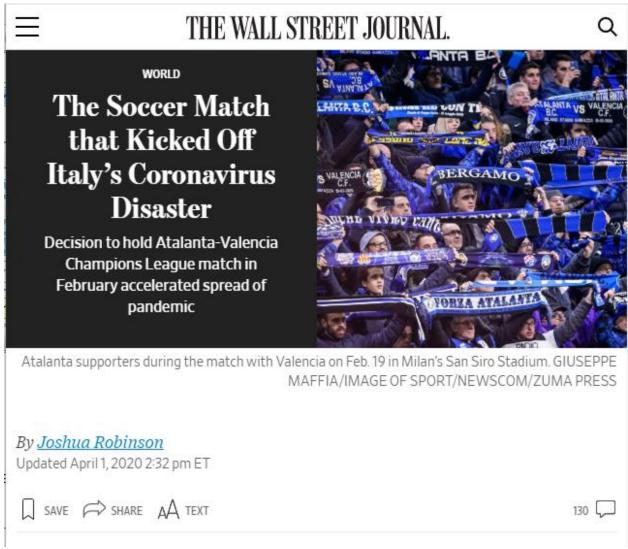




# Italy's initial outbreak is attributed to a football (American = soccer) Champions League match in Atalanta-Valencia...

And moving back in time, the initial outbreak in Italy and Spain is considered to be tied to a soccer match that attracted 40,000 fans. That was 40,000 fans in one match, and we got two nations with COVID-19 spreading rapidly. Granted, more people wear face masks, so this should be helpful.

And as we mentioned above, this is a real-time test. If COVID-19 cases do not surge across the US in the next few weeks, then the country can even accelerate the pace of re-opening.



https://www.wsj.com/articles/the-soccer-match-that-kicked-off-italys-coronavirus-disaster-11585752012



A recent study by Meher K Prakash did a meta-analysis of the known COVID-19 super spreader events...









Comment on this paper

# Eat, Pray, Work: A meta-analysis of COVID-19 Transmission Risk in Common Activities of Work and Leisure

Meher K Prakash

doi: https://doi.org/10.1101/2020.05.22.20110726

This article is a preprint and has not been peer-reviewed [what does this mean?]. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.

https://www.medrxiv.org/content/10.1101/2020.05.22.20110726v1

This study, published on 5/22/2020 looked at 16 documented events which involved a known superspreader. The biggest outbreak studied is a cruise ship, where one passenger infected 2,817 (of 10,000 passengers) over 3-4 weeks.

- None of the studies looked at spread after an outdoor activity, such as the widespread US protests.
- But some superspreader events happened after only 2-3 hours of exposure. 53 from a choir. 52 from a birthday party in CT. 94 from a nightclub. All listed below and fully explained in the paper.



	Duration Infected (A)			Susceptible	New infections	Average attack rate	Super-spreaders?	
			omatic					
		Α	S					
Workspace interactions								
Meeting in smaller groups with direct interactions (ST.1)	Brief to 1 hour	8	1	11	8	72.7% (43.6-98.0%)	4 cases, at househol	
Open work space with	A few	1	0	113	89	78.7%	6	
everyone talking and no	days					(70.3-85.3%)	Superspread when	
physical separation (S.2A)							there was no	
Open work space with	A few	1	0	216	94	43.5%	physical separation	
everyone talking a partial	days					(37.0-50.1%)		
separation and less mixing								
between two halves (S.2B)								
Larger conference with some	3 days	1	0	111	7	6.3%	-	
(S.3A)						(3.1-12.4%)		
Time out								
Night club (S.17B)	4 hours	2	0	1500,	94	6.27%	Yes, 2 spread	
				Number of direct	<u> </u>	(5.15-7.61%)	infection to 94 in	
				contacts unknown		Expected to be >	Itaewon night club	
						50% among actual	area	
						contacts		
Vacation together (ST.2)	4 days	4	0	15	8	53.3 %	At least 6 infections	
						(30.1-75.2%)	only at Chalet.	
Cruise/Ship (S.20)	3 - 4	U	U	10011	2817	28.1%	-	
	weeks					(27.3-29.0%)		
Singing in a group with mixing	2.5	2	0	61	53	86.9%	1 person spread to	
together (ST.3)	hours					(76.2-93.2)	52 others in 1	
							session	
Gathering in a closed space	2 hours	3	0	Many	9	Low	Patient 31 of South	
with less chance of mixing							Korea, 7 infections in	
(ST.4)							a Church, 10 outside	
							(not considered in	
							this work)	
Shopping with direct	30 min-	0	2	5	5	25.00	-	
interactions with sales agent:	1hour					(10.2-49.5%)		
talking, touching to apply								
products (ST.5)								
Family events								
Family dinners (ST.6)	2-3	7	1	30	20	66.7%	-	
	hours					(48.8-80.8%)		
Sit-down dinners with less	3-5	4	1	318	50	15.7%	1 person spread	
mixing (ST.7)	hours					(12.1-20.1%)	infection to 36 at	
					$\overline{}$		Safra Jurong	
Birthday party (ST.8)	2-3	2	1	99	52	52.5%	1 person spread	
	hours					(42.8-62.0%)	infection to 25 in	
							Connecticut party	
Mobility								
Sharing a ride with a family		1	0	1	1	100%	-	
member, possibly talking						(20%-100%)		
(S.4A)								
Elevator & lobby, with possible	Brief	97	0	1143	Almost no	0%	None. Call center	
use of masks (S.2C)					one outside		Infections are mostly	
					the floor		restricted to one hal	
					worked		of 11 <sup>th</sup> floor	
Metro trains, with possible use	30 min	f*	0	Very high	Almost no	0%	None. By looking at	
of masks (S.2D)		97			one outside		the new infections in	
					the call		Seoul during March	
					center		6-11, and comparing	
							them with call cente	
							infections	

https://www.medrxiv.org/content/10.1101/2020.05.22.20110726v1

These events took place mostly without the updated guidelines of masks, distance and



sanitation. So, these protests are not comparable. But some of the information is useful anyways. Take a look at the spread that took place in an office space (below) which involved 1 person infecting 89 people -- and this took place over a few days.

# Figure 2

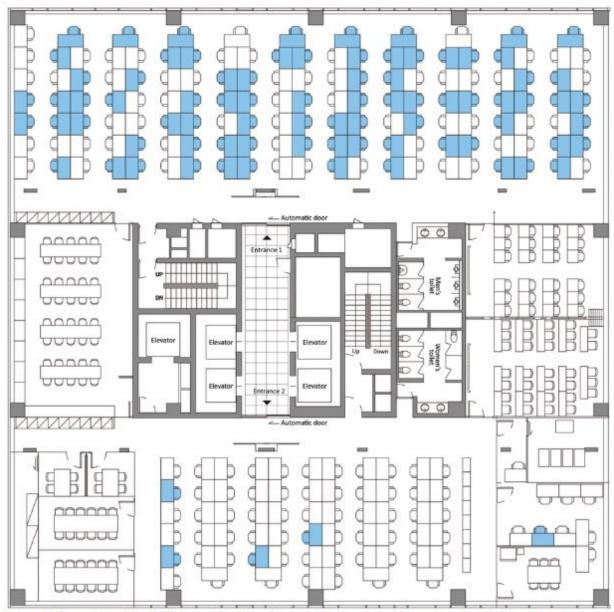


Figure 2. Floor plan of the 11th floor of building X, site of a coronavirus disease outbreak, Seoul, South Korea, 2020. Blue coloring indicates the seating places of persons with confirmed cases.

https://wwwnc.cdc.gov/eid/article/26/8/20-1274-f2

STRATEGY: If the protests do not trigger a massive new outbreak, this would be the



most positive possible outcome as it definitely answers whether it is safe to go outside... If the hundreds of protests and the multiple thousands of participants over multiple days do not trigger an outbreak, then COVID-19 is largely fading from the US. And this makes even "social distance" victim businesses safer. The following industries, if this happened, would be considered safer than perceived.

The biggest winners if there is no "second wave" in two weeks:

- theme parks
- cruise lines
- airlines
- casinos
- outdoor events
- sports and stadiums
- concerts
- bars and nightclubs
- theaters

Put another way, the equities of these groups are worth watching. If they continue rallying, they are telling us the protests are not triggering a second wave.



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