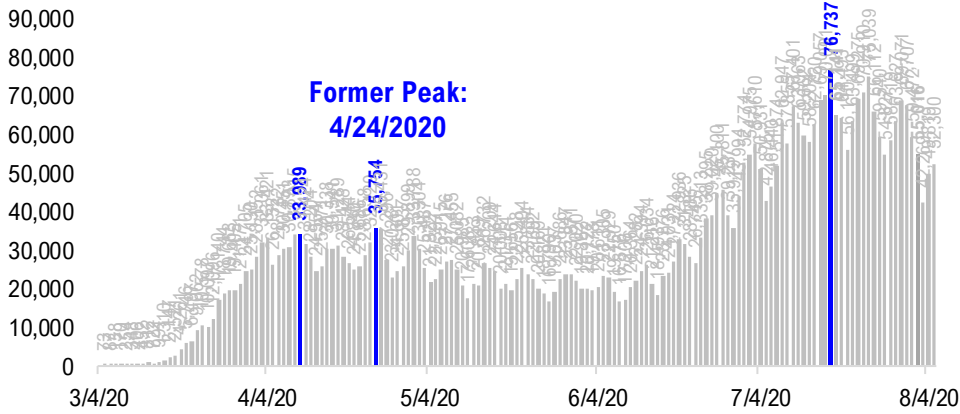


# FSInsight Daily COVID-19 Chartbook

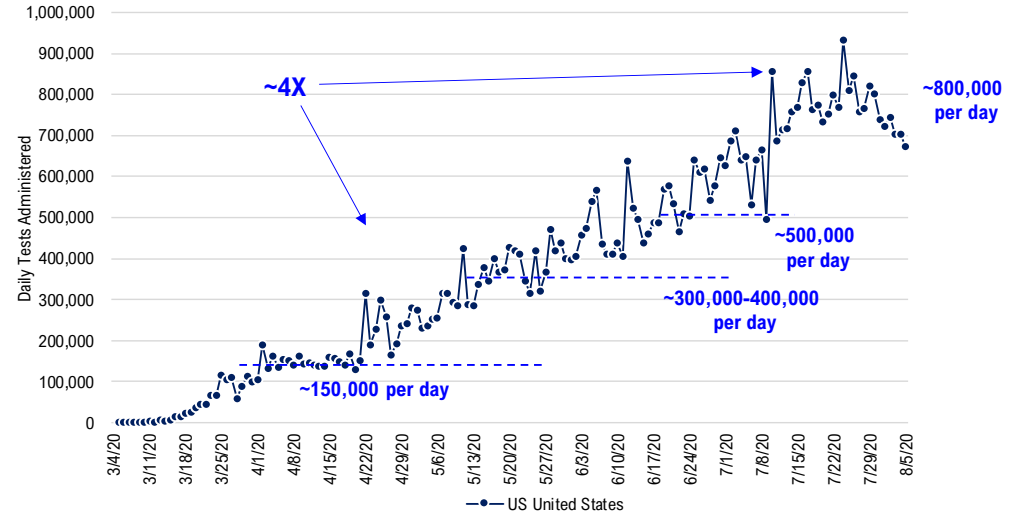


# #1: USA COVID-19 Situation at a Glance...

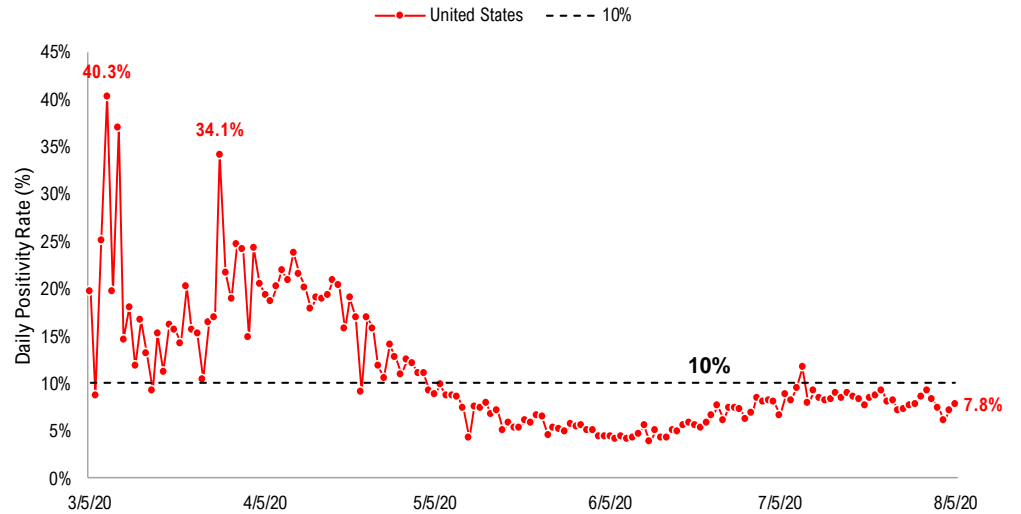
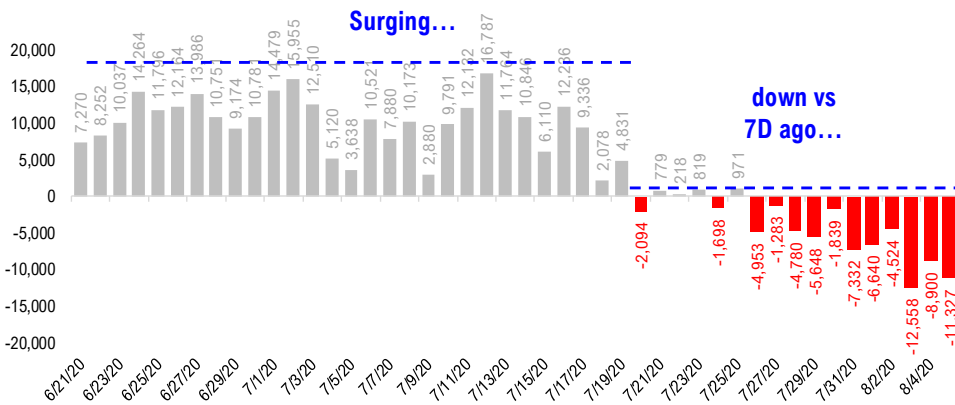
**US daily new cases**



**USA total COVID-19 tests administered**



**US daily new cases rolling 7D delta - past 6 weeks**



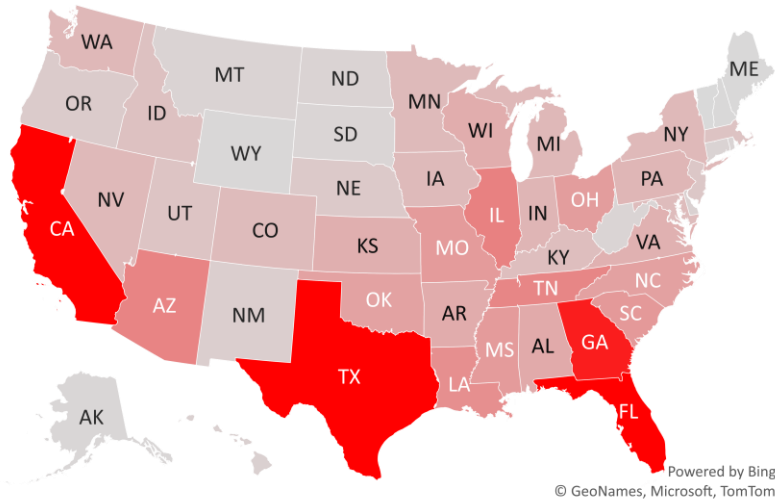
# #2: USA State COVID-19 Situation at a Glance...

	Sorted Daily Cases					Daily Cases (3D avg) per 1mm residents			Since Peak			Sorted Daily Cases					Daily Cases (3D avg) per 1mm residents			Since Peak	
	% US Pop	8/5/20	7D Delta	8/5/20	7D Delta	# Days	% Decline in Daily Cases		# Days	% US Pop		8/5/20	7D Delta	8/5/20	7D Delta	# Days	% Decline in Daily Cases				
United States	100%	52,300	-11,327	147	-33	19	-33%		19	-33%		United States	100%	52,300	-11,327	147	-33	19	-33%		
<b>States:</b>																					
1 Texas	8.7%	8,706	-336	266	+18	19	-36%	29	Maryland	1.8%	572	-189	119	-21	76	-43%					
2 Florida	6.5%	5,409	-4,037	242	-186	23	-59%	30	Kentucky	1.3%	544	-57	116	-7	11	-30%					
3 California	11.9%	5,295	-3,460	131	-51	12	-55%	31	Idaho	0.5%	473	+16	254	-26	19	-33%					
4 Georgia	3.2%	3,765	+494	268	-58	11	-34%	32	Massachusetts	2.1%	440	-62	57	+7	102	-89%					
5 Illinois	3.8%	1,759	+366	119	+22	83	-49%	33	Utah	1.0%	421	+82	120	-7	18	-53%					
6 Arizona	2.2%	1,698	-641	171	-116	34	-71%	34	New Jersey	2.7%	357	-114	37	-16	122	-92%					
7 Tennessee	2.1%	1,657	-121	218	-118	8	-46%	35	Nebraska	0.6%	311	+46	136	-3	95	-49%					
8 Louisiana	1.4%	1,482	-253	319	-53	15	-44%	36	Oregon	1.3%	280	-25	70	-7	4	-19%					
9 South Carolina	1.6%	1,282	-455	239	-62	24	-38%	37	Puerto Rico	1.0%	271	+156	89	+40	2	-24%					
10 Mississippi	0.9%	1,245	-260	324	-68	6	-37%	38	New Mexico	0.6%	226	-119	87	-86	7	-50%					
11 Missouri	1.8%	1,241	-686	189	-73	6	-40%	39	Hawaii	0.4%	173	+64	123	+80	0	0%					
12 Ohio	3.5%	1,199	-197	93	-16	5	-30%	40	Delaware	0.3%	159	+33	119	+12	99	-65%					
13 North Carolina	3.2%	1,127	-636	129	-34	18	-39%	41	North Dakota	0.2%	124	+38	174	+20	12	-2%					
14 Oklahoma	1.2%	1,101	+253	197	-84	8	-37%	42	Montana	0.3%	115	-86	80	-25	5	-48%					
15 Alabama	1.5%	952	-464	218	-87	11	-49%	43	Connecticut	1.1%	115	+36	39	+3	105	-91%					
16 Arkansas	0.9%	912	+125	274	+15	11	-9%	44	West Virginia	0.5%	108	-45	57	-11	26	-42%					
17 Wisconsin	1.8%	884	+14	115	-12	11	-33%	45	Rhode Island	0.3%	91	+16	91	-11	102	-78%					
18 Kansas	0.9%	841	+143	218	+16	21	-18%	46	South Dakota	0.3%	89	-60	80	-12	88	-65%					
19 Virginia	2.6%	798	-201	128	-6	70	-18%	47	Alaska	0.2%	55	-13	77	-47	3	-58%					
20 Indiana	2.0%	720	+99	105	+9	11	-26%	48	District of Columbia	0.2%	45	-9	80	-24	94	-76%					
21 Pennsylvania	3.9%	705	-129	55	-17	117	-61%	49	Wyoming	0.2%	39	+0	66	-22	98	-34%					
22 Washington	2.3%	664	-220	80	-23	21	-40%	50	New Hampshire	0.4%	26	+13	21	+2	95	-77%					
23 Michigan	3.0%	657	-339	64	-8	103	-48%	51	U.S. Virgin Islands	0.0%	18	+8	187	+112	21	-3%					
24 Nevada	0.9%	649	-221	284	-37	18	-35%	52	Maine	0.4%	17	-11	8	-4	75	-84%					
25 New York	5.9%	636	-79	33	+1	117	-94%	53	Guam	0.0%	14	+12	44	+16	46	-35%					
26 Minnesota	1.7%	617	-49	109	+3	10	-24%	54	Vermont	0.2%	5	+4	5	+2	122	-94%					
27 Iowa	1.0%	617	+117	123	+10	25	-45%	55	Northern Mariana Islands	0.0%	0	+0	6	+6	124	-83%					
28 Colorado	1.7%	594	+112	74	-11	101	-42%	56	American Samoa	0.0%	0	+0	0	+0	-	-					

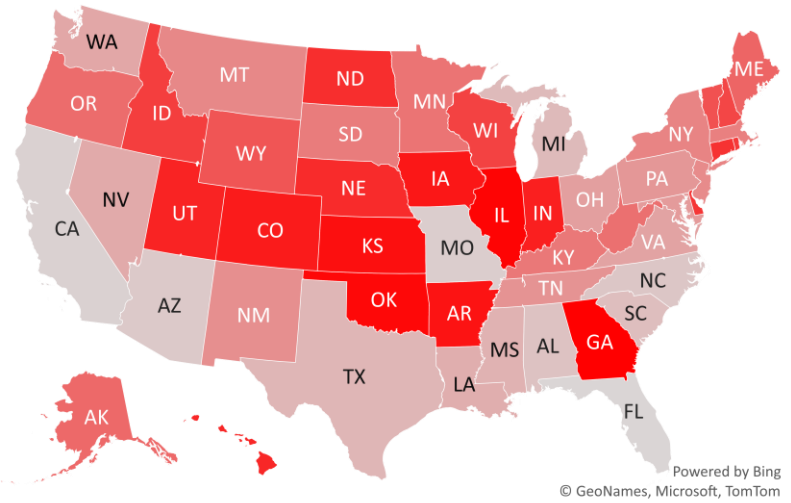
\* 1,741 backlog cases were removed from Louisiana's stats for August 4th.  
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

# #3: USA COVID-19 Heat Map...

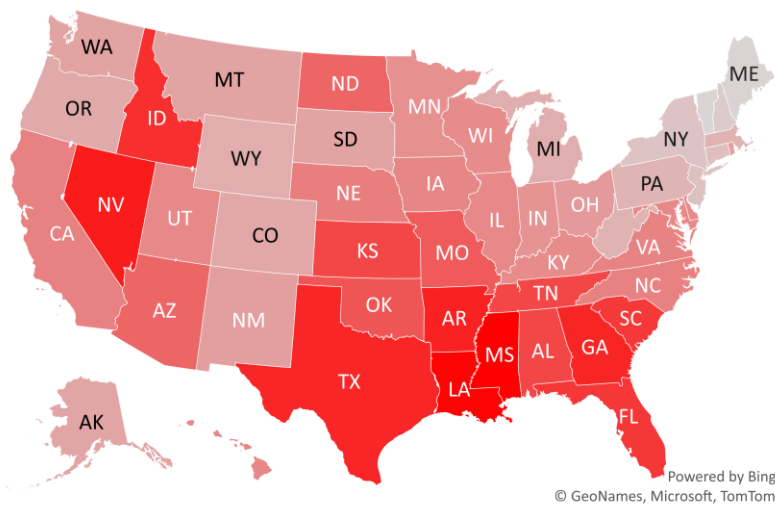
### Daily Case Increases



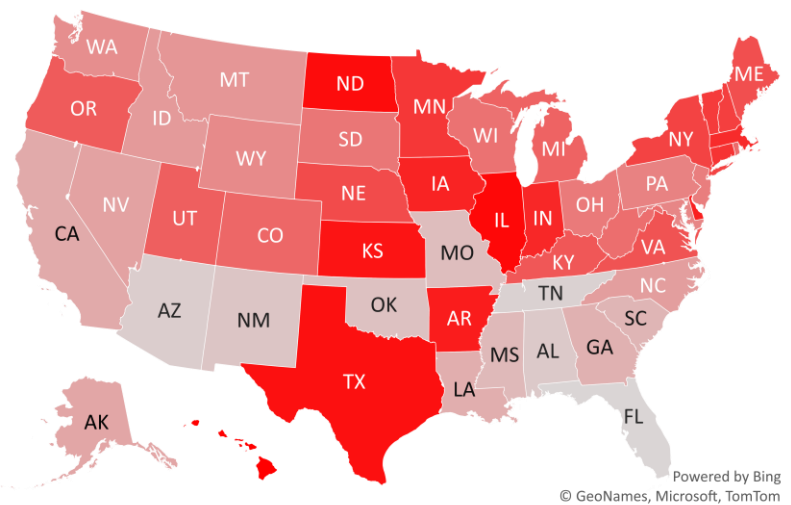
### 7D Delta in Daily New Cases



### Daily Case Increases per 1mm Resident (3D Avg)



### 7D Delta in Daily New Cases per 1mm (3D Avg)



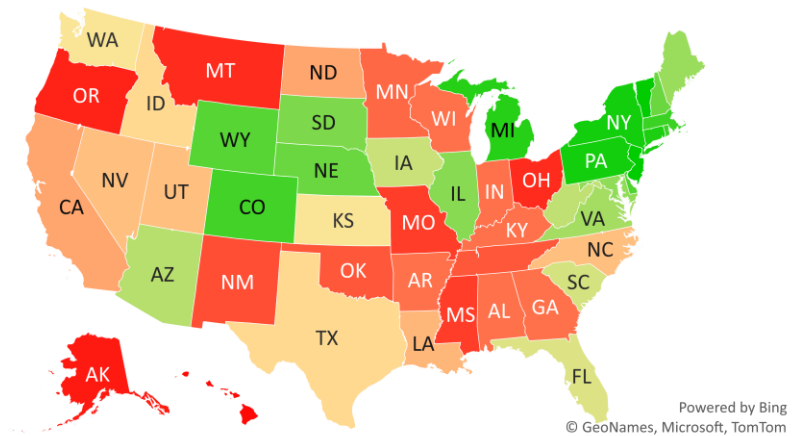
\* 1,741 backlog cases were removed from Louisiana's stats for August 4th.

# #4: # of Days since Daily Case Peaked by States...

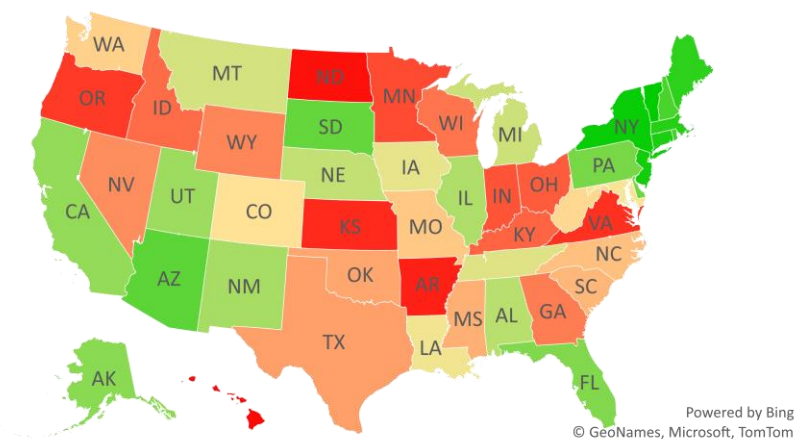
## # Days since Daily Cases (3D Avg) Peak (as of 8/5)

Sorted					Sorted				
	Peak Date	8/5/20	% off the Peak	% US Pop		Peak Date	8/5/20	% off the Peak	% US Pop
United States	7/17/20	19	-33%	100%	United States	7/17/20	19	-33%	100%
<b>States:</b>					<b>States:</b>				
Northern Mariana I.	4/3/20	124	-83%	0.0%	Kansas	7/15/20	21	-18%	0.9%
Vermont	4/5/20	122	-94%	0.2%	Texas	7/17/20	19	-36%	8.7%
New Jersey	4/5/20	122	-92%	2.7%	Idaho	7/17/20	19	-33%	0.5%
Pennsylvania	4/10/20	117	-61%	3.9%	Utah	7/18/20	18	-53%	1.0%
New York	4/10/20	117	-94%	5.9%	Nevada	7/18/20	18	-35%	0.9%
Connecticut	4/22/20	105	-91%	1.1%	North Carolina	7/18/20	18	-39%	3.2%
Michigan	4/24/20	103	-48%	3.0%	Louisiana	7/21/20	15	-44%	1.4%
Rhode Island	4/25/20	102	-78%	0.3%	North Dakota	7/24/20	12	-2%	0.2%
Massachusetts	4/25/20	102	-89%	2.1%	California	7/24/20	12	-55%	11.9%
Colorado	4/26/20	101	-42%	1.7%	Wisconsin	7/25/20	11	-33%	1.8%
Delaware	4/28/20	99	-65%	0.3%	Kentucky	7/25/20	11	-30%	1.3%
Wyoming	4/29/20	98	-34%	0.2%	Indiana	7/25/20	11	-26%	2.0%
New Hampshire	5/2/20	95	-77%	0.4%	Georgia	7/25/20	11	-34%	3.2%
Nebraska	5/2/20	95	-49%	0.6%	Arkansas	7/25/20	11	-9%	0.9%
District of Columbia	5/3/20	94	-76%	0.2%	Alabama	7/25/20	11	-49%	1.5%
South Dakota	5/9/20	88	-65%	0.3%	Minnesota	7/26/20	10	-24%	1.7%
Illinois	5/14/20	83	-49%	3.8%	Tennessee	7/28/20	8	-46%	2.1%
Maryland	5/21/20	76	-43%	1.8%	Oklahoma	7/28/20	8	-37%	1.2%
Maine	5/22/20	75	-84%	0.4%	New Mexico	7/29/20	7	-50%	0.6%
Virginia	5/27/20	70	-18%	2.6%	Mississippi	7/30/20	6	-37%	0.9%
Guam	6/20/20	46	-35%	0.0%	Missouri	7/30/20	6	-40%	1.8%
Arizona	7/2/20	34	-71%	2.2%	Ohio	7/31/20	5	-30%	3.5%
West Virginia	7/10/20	26	-42%	0.5%	Montana	7/31/20	5	-48%	0.3%
Iowa	7/11/20	25	-45%	1.0%	Oregon	8/1/20	4	-19%	1.3%
South Carolina	7/12/20	24	-38%	1.6%	Alaska	8/2/20	3	-58%	0.2%
Florida	7/13/20	23	-59%	6.5%	Puerto Rico	8/3/20	2	-24%	1.0%
Washington	7/15/20	21	-40%	2.3%	Hawaii	8/5/20	0	0%	0.4%
U.S. Virgin Islands	7/15/20	21	-3%	0.0%					

## # Days since Daily Case Peak: Greener = More Days



## Daily Cases % off the Peak: Greener = Larger Decline



# #5: US New Cases by States... (sorted by today's new cases)

**Sorted**  
Last 3-day trend growth rates

	8/3/20	8/4/20	8/5/20	
United States	42,269	49,819	52,300	+2,481
<b>States:</b>				
1 Texas	5,303	9,167	8,706	
2 Florida	4,752	5,446	5,409	
3 California	5,739	4,526	5,295	
4 Georgia	2,258	2,513	3,765	<--higher
5 Illinois	1,298	1,471	1,759	
6 Arizona	1,030	1,008	1,698	<--higher
7 Tennessee	1,009	1,805	1,657	
8 Louisiana	1,099	1,874	1,482	
9 South Carolina	1,163	1,239	1,282	
10 Mississippi	572	1,074	1,245	
11 Missouri	1,047	1,193	1,241	
12 Ohio	932	1,143	1,199	
13 North Carolina	1,313	1,629	1,127	
14 Oklahoma	377	861	1,101	<--higher
15 Alabama	1,217	1,041	952	
16 Arkansas	787	784	912	
17 Wisconsin	404	728	884	<--higher
18 Kansas	1,064	0	841	
19 Virginia	1,324	1,145	798	
20 Indiana	576	822	720	
21 Pennsylvania	565	854	705	
22 Washington	632	542	664	
23 Michigan	604	664	657	
24 Nevada	994	980	649	
25 New York	545	746	636	
26 Minnesota	622	602	617	
27 Iowa	349	201	617	<--higher
28 Colorado	252	426	594	<--higher

**Sorted**  
Last 3-day trend growth rates

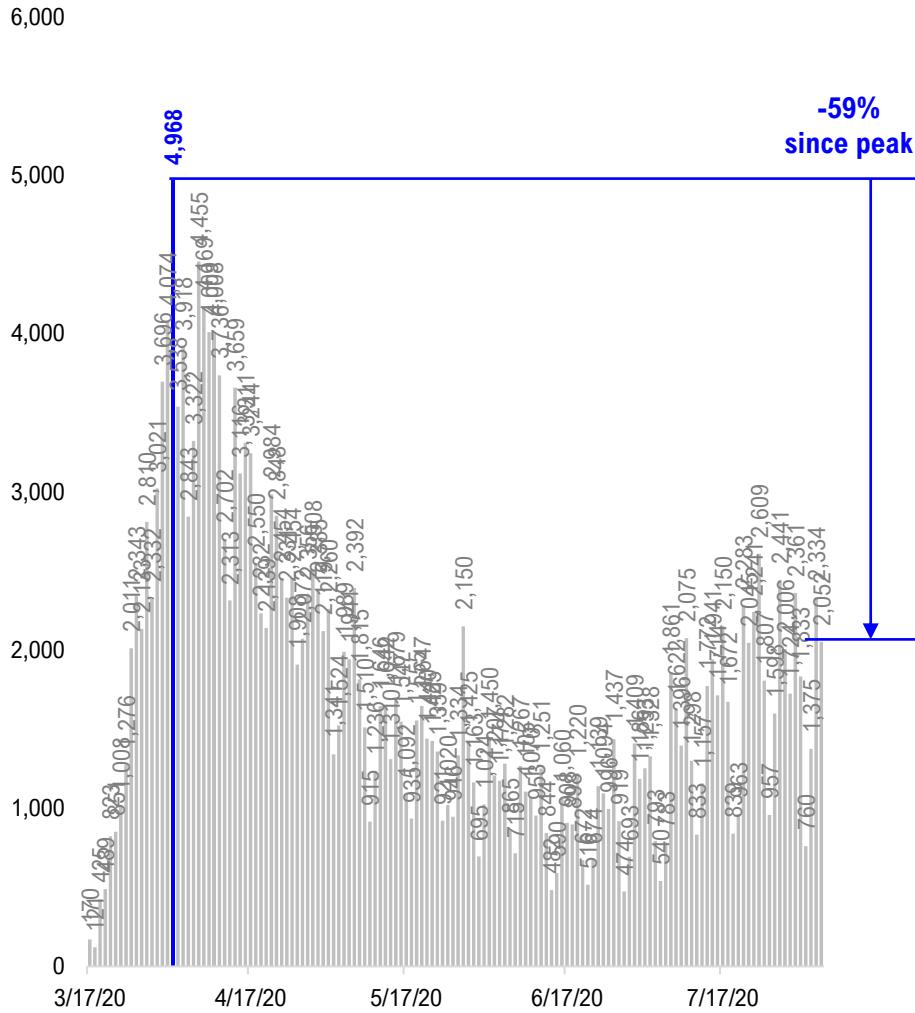
	8/3/20	8/4/20	8/5/20	
United States	42,269	49,819	52,300	+2,481
<b>States:</b>				
29 Maryland	870	710	572	
30 Kentucky	323	689	544	
31 Idaho	331	559	473	
32 Massachusetts	199	546	440	
33 Utah	354	378	421	
34 New Jersey	264	356	357	
35 Nebraska	254	222	311	<--higher
36 Oregon	272	333	280	
37 Puerto Rico	278	300	271	
38 New Mexico	114	210	226	
39 Hawaii	205	143	173	
40 Delaware	106	82	159	<--higher
41 North Dakota	125	148	124	
42 Montana	60	82	115	<--higher
43 Connecticut	252	48	115	
44 West Virginia	119	78	108	
45 Rhode Island	53	144	91	
46 South Dakota	65	59	89	<--higher
47 Alaska	61	53	55	
48 District of Columbia	39	85	45	
49 Wyoming	40	36	39	
50 New Hampshire	26	33	26	
51 U.S. Virgin Islands	18	24	18	
52 Maine	12	5	17	
53 Guam	1	7	14	<--higher
54 Vermont	0	5	5	
55 Northern Mariana Islands	1	0	0	
56 American Samoa	0	0	0	

<--higher – if the state has 20% or more daily cases than prior two days...  
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

# #6: US Daily Hospitalizations...(aggregated by data type)

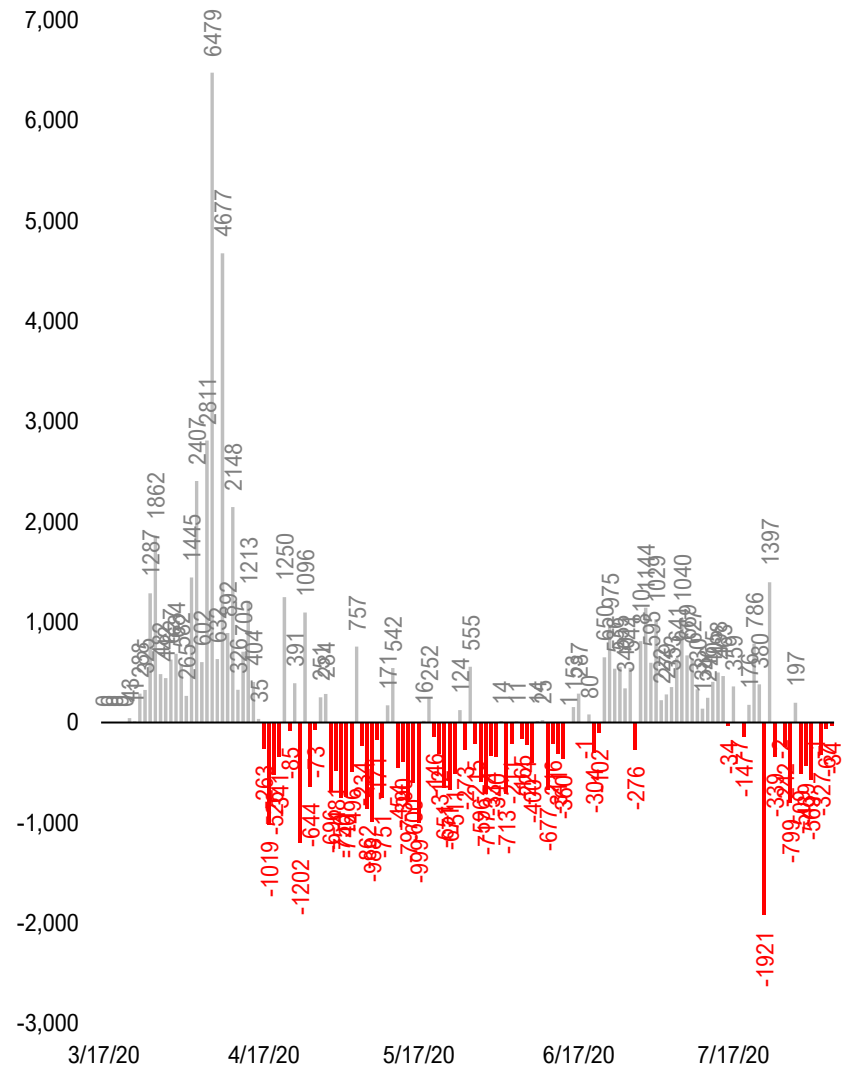
## US Gross Hospitalizations

(Composite of 33 states that report "gross hospitalizations")



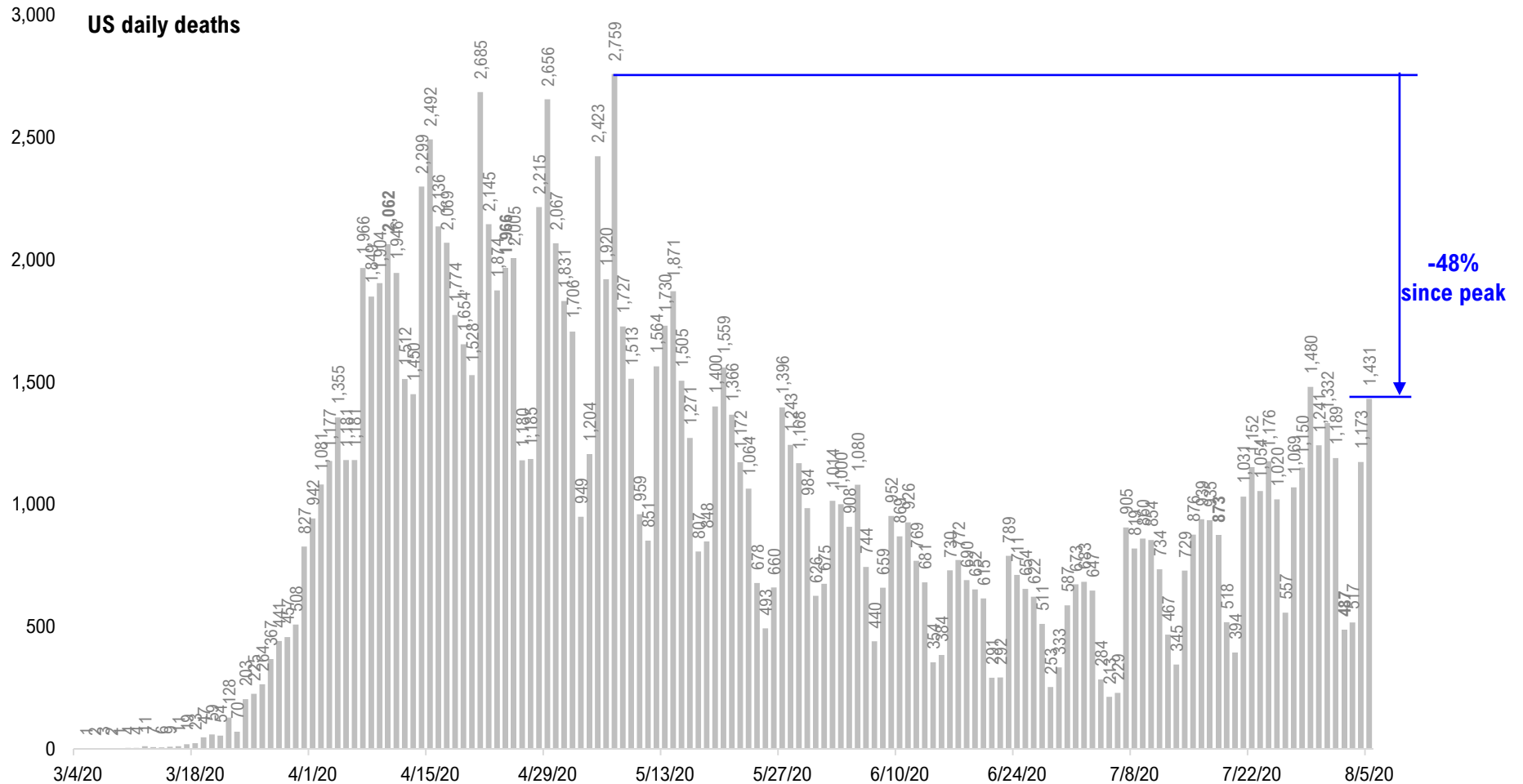
## US Net Hospitalizations

(Composite of 18 states that report "net/current hospitalizations")



# #7: US Daily New Fatalities...

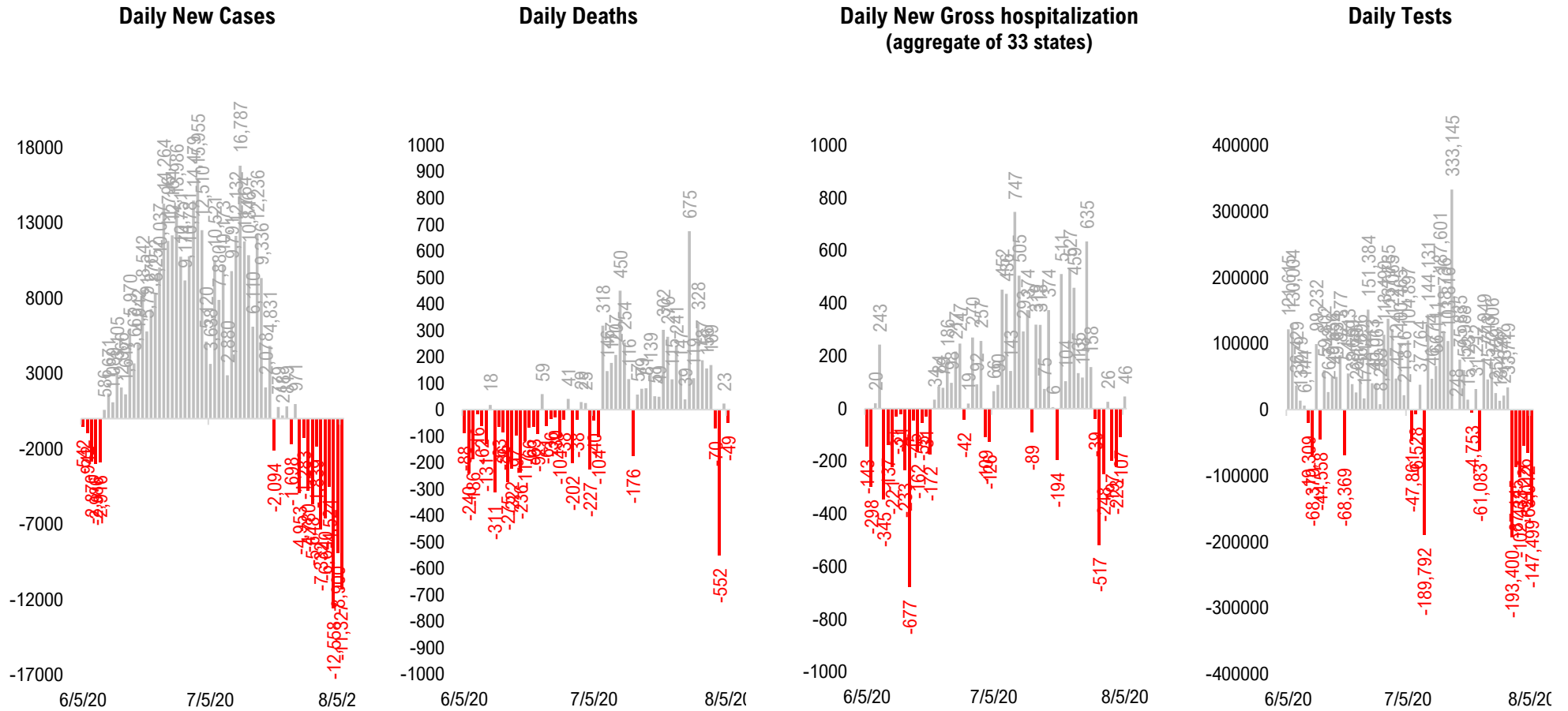
## US daily COVID-19 Fatalities



Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

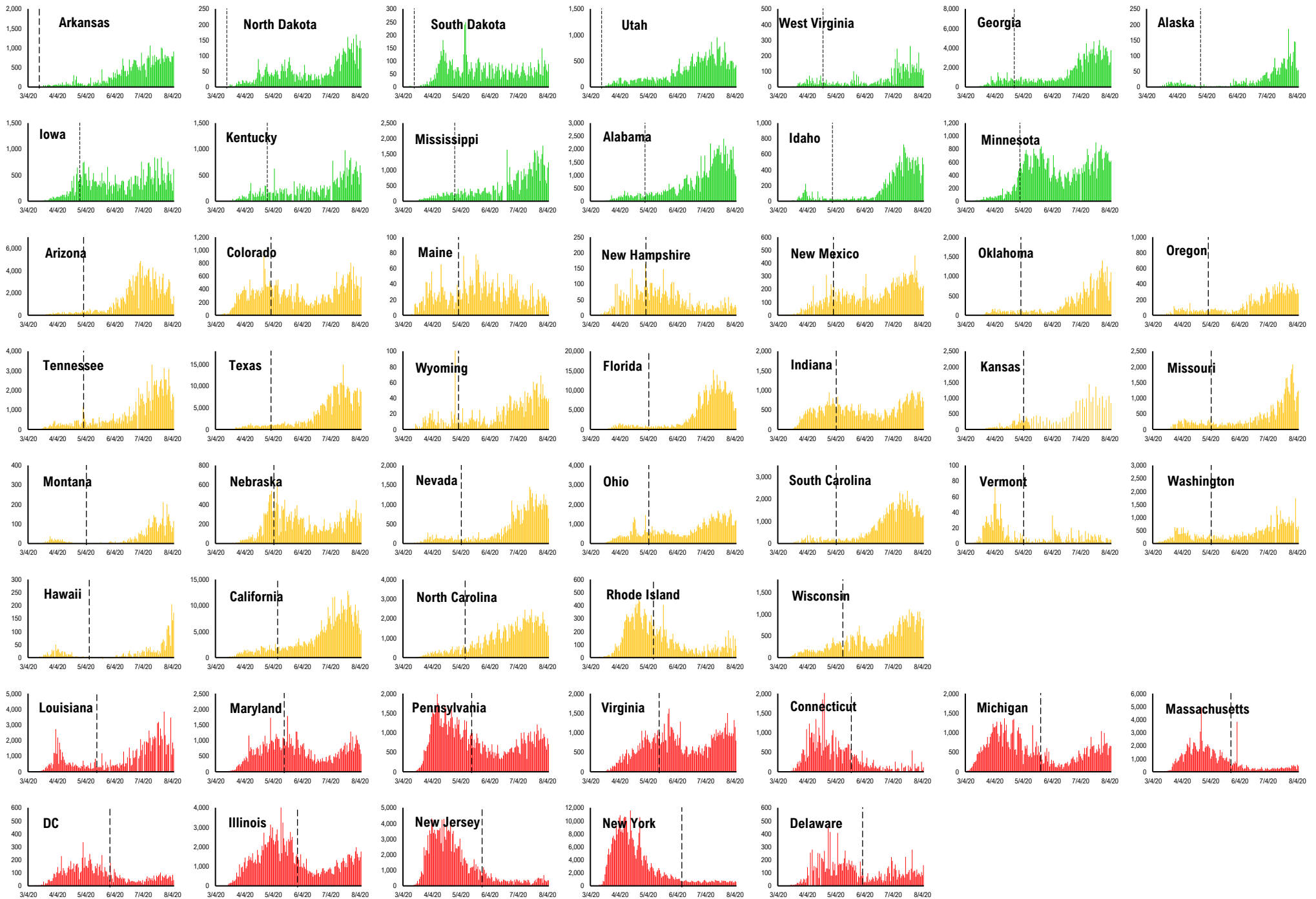


# #8: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

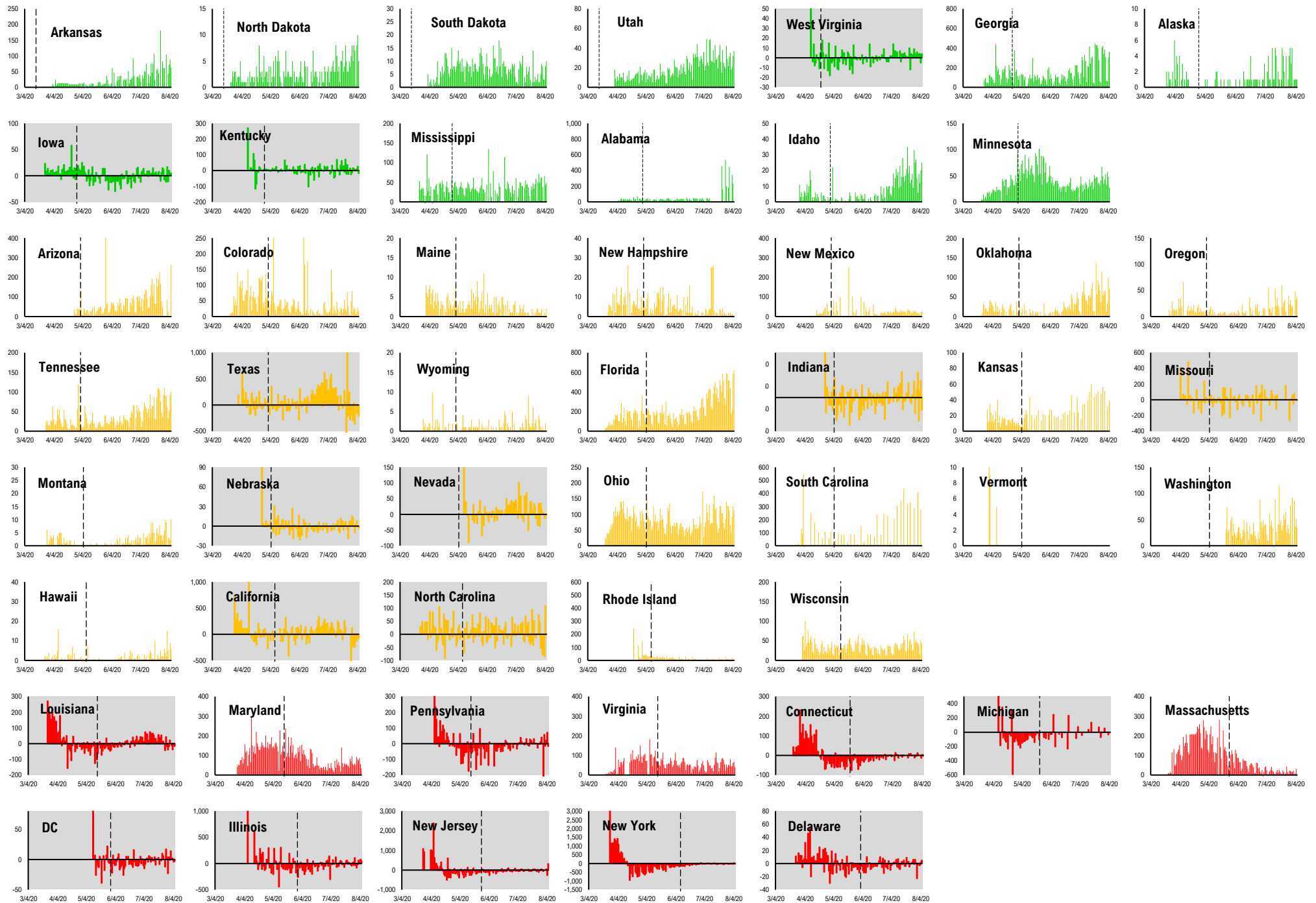


Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

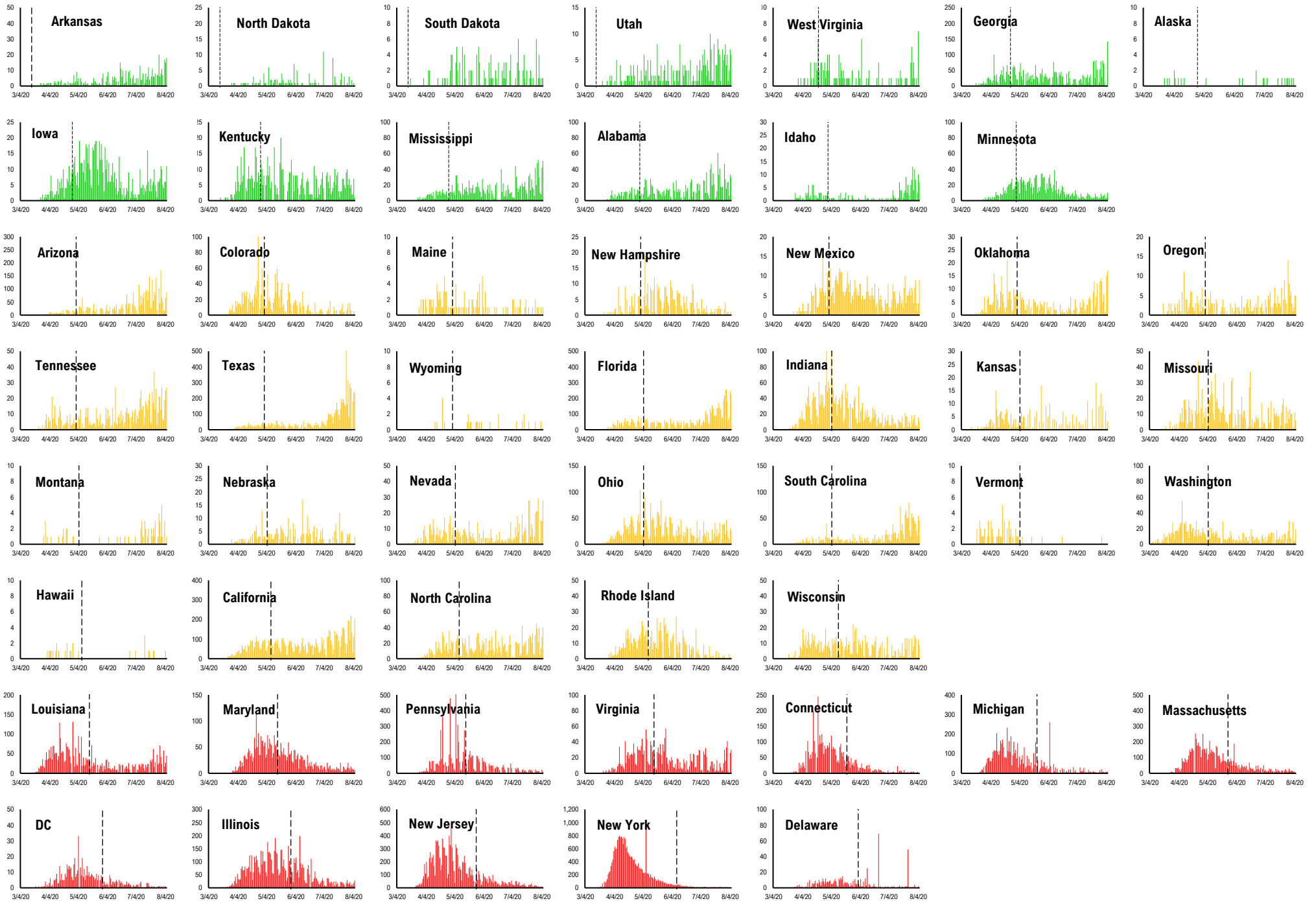
# #9: Daily New Cases by States... (sorted by "open" date)



# #10: Daily Hospitalizations by States... (sorted by "open" date)



# #11: Daily New Deaths by States... (sorted by "open" date)



# #12: State COVID-19 situation by Reopen Date...

**Daily Cases**

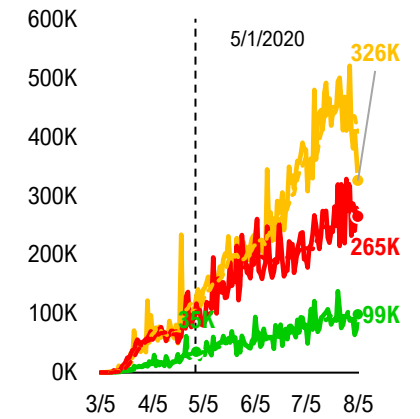
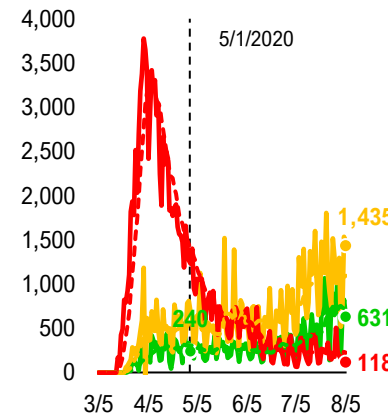
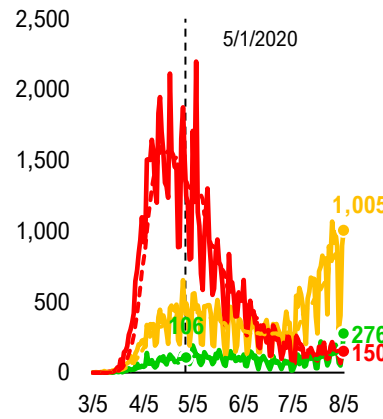
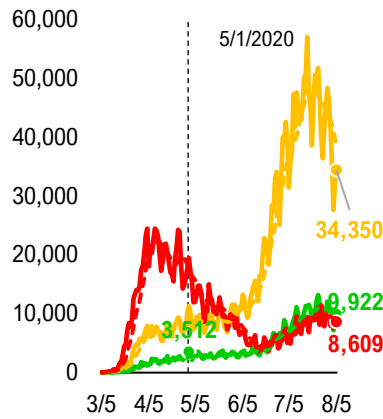
**Daily Deaths**

**Daily Hospitalization**

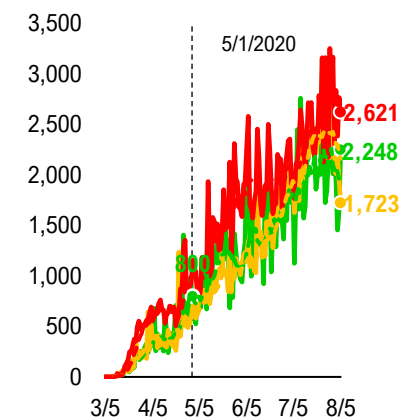
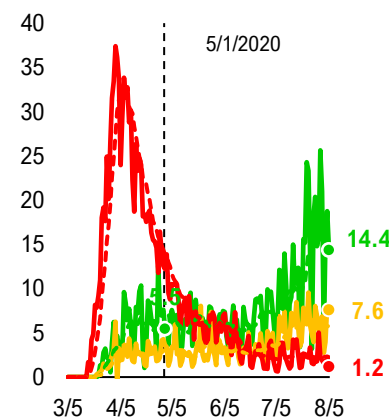
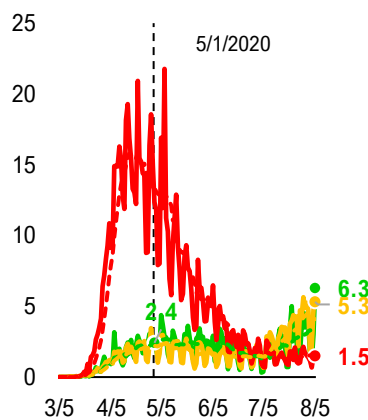
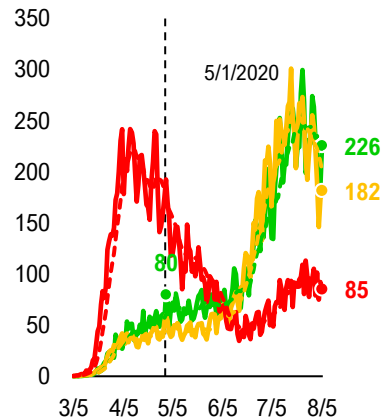
**Daily Testing**

— States Open Before 5/1    — States Open between 5/1 and 5/11    — States Open after 5/11

**Composite Daily Aggregate**

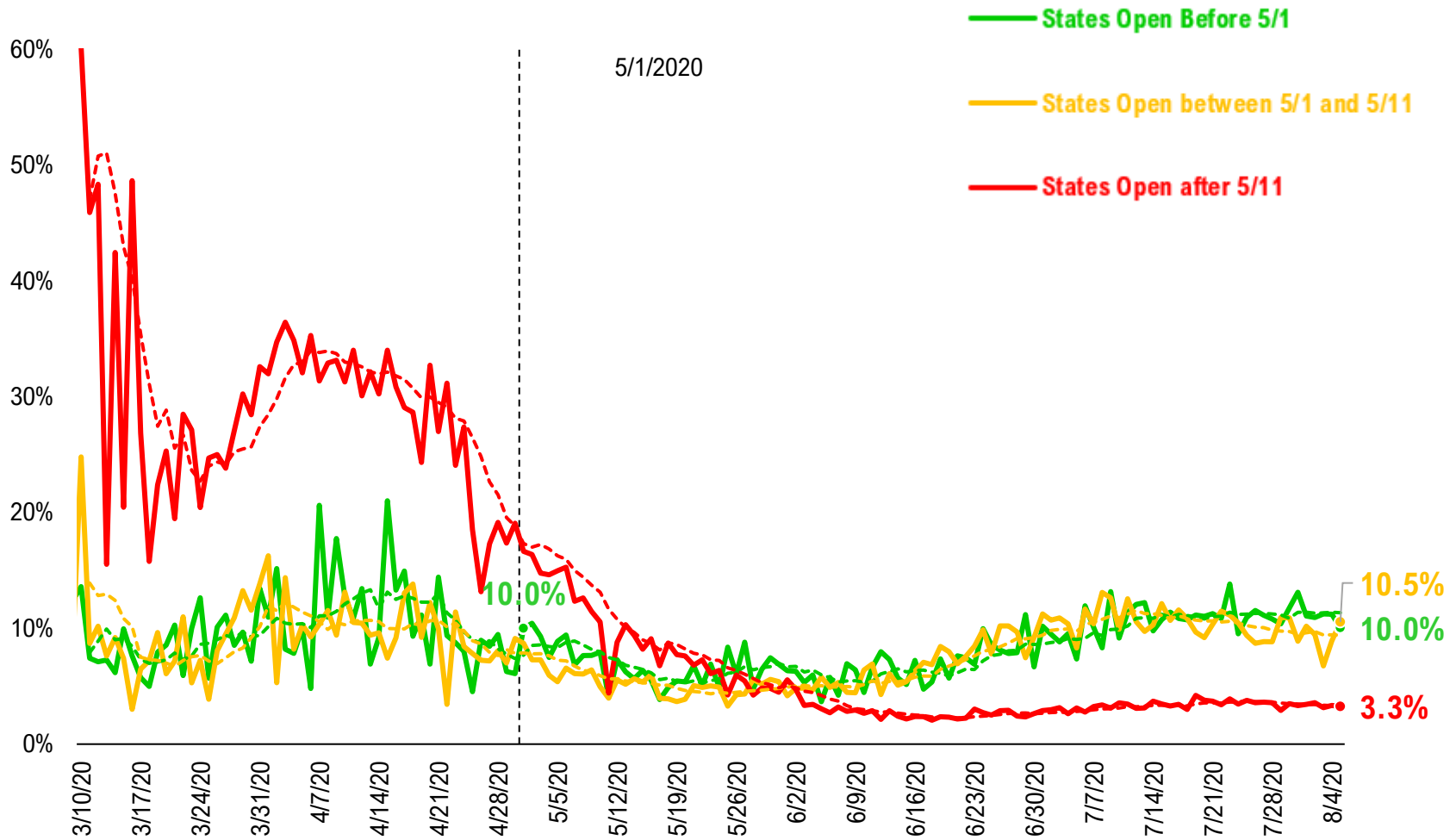


**Composite Daily Aggregate Per 1mm Pop**

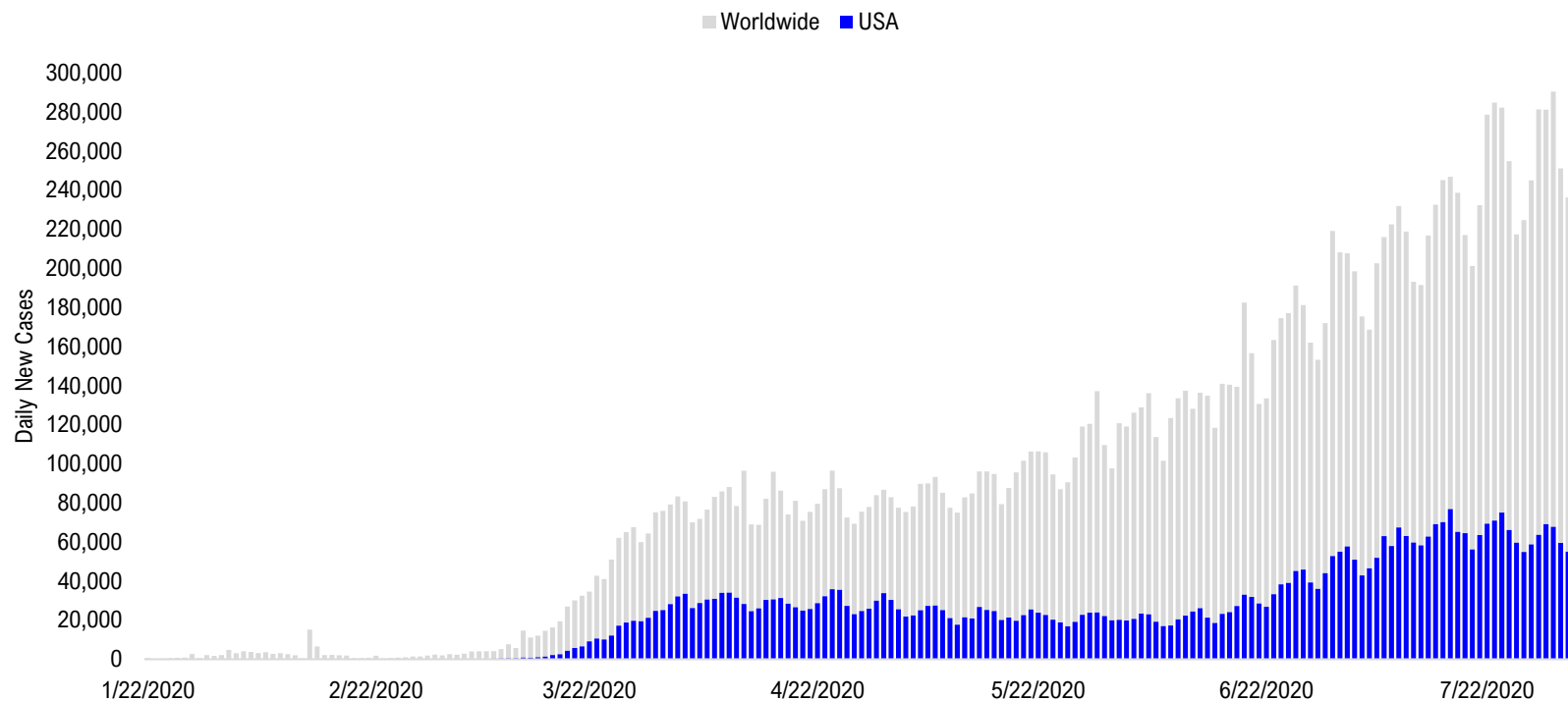


# #13: State COVID-19 Daily Positivity Rate by Reopen Date...

## Composite Daily Positivity Rate



# #14: Global COVID-19 Situation at a Glance...



3/20/2020	4/3/2020	4/17/2020	5/1/2020	5/15/2020	5/29/2020	6/12/2020	6/26/2020	7/10/2020	7/24/2020	8/4/2020
Europe 18,086	Europe 39,667	Europe 40,604	US + Canada 31,572	US + Canada 25,443	Latin America 42,759	Latin America 51,123	Latin America 68,227	Latin America 73,176	Latin America 97,008	Latin America 71,529
US + Canada 4,331	US + Canada 29,751	US + Canada 32,649	Europe 25,383	Latin America 25,394	US + Canada 22,796	US + Canada 22,798	US + Canada 41,092	US + Canada 63,055	US + Canada 72,289	Pakistan + India + Bangladesh 54,616
Asia ex- India+Pakistan 602	Latin America 2,723	Latin America 6,026	Latin America 13,595	Europe 22,139	Europe 19,027	Pakistan + India + Bangladesh 18,309	Pakistan + India + Bangladesh 24,668	Pakistan + India + Bangladesh 32,386	Pakistan + India + Bangladesh 52,184	US + Canada 49,414
Latin America 560	Asia ex- India+Pakistan 1,433	Asia ex- India+Pakistan 2,264	Pakistan + India + Bangladesh 3,762	Pakistan + India + Bangladesh 6,133	Pakistan + India + Bangladesh 12,032	Europe 18,047	Europe 17,928	Africa 17,127	Africa 20,063	Europe 20,579
Pakistan + India + Bangladesh 181	Africa 711	Pakistan + India + Bangladesh 1,649	Asia ex- India+Pakistan 2,022	Africa 2,942	Africa 5,307	Africa 7,322	Africa 11,684	Europe 16,305	Europe 18,783	Asia ex- India+Pakistan 11,394
Africa 162	Pakistan + India + Bangladesh 627	Africa 1,176	Africa 1,926	Asia ex- India+Pakistan 2,033	Asia ex- India+Pakistan 2,762	Asia ex- India+Pakistan 3,064	Asia ex- India+Pakistan 3,866	Asia ex- India+Pakistan 7,373	Asia ex- India+Pakistan 8,636	Africa 11,132

# Disclosures

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Neutral (N): The analyst expects the performance of his or her industry/sector coverage universe over the next 6-18 months to be in line with the relevant broad market benchmark, being the S&P 500 for North America.

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