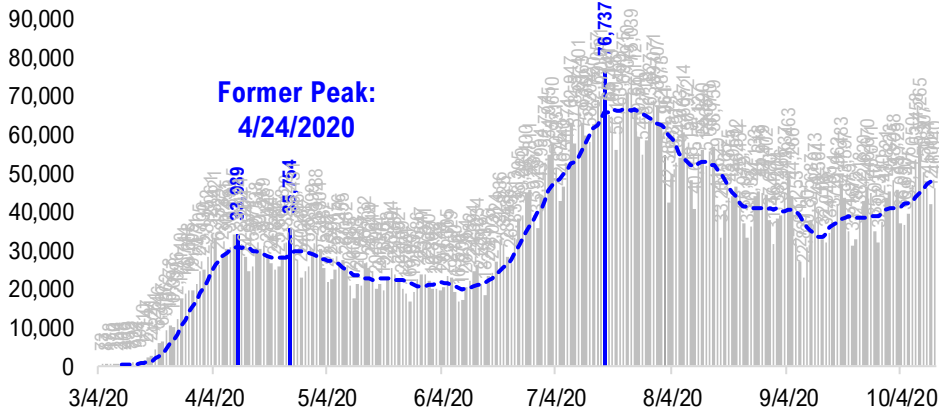


FSInsight Daily COVID-19 Chartbook

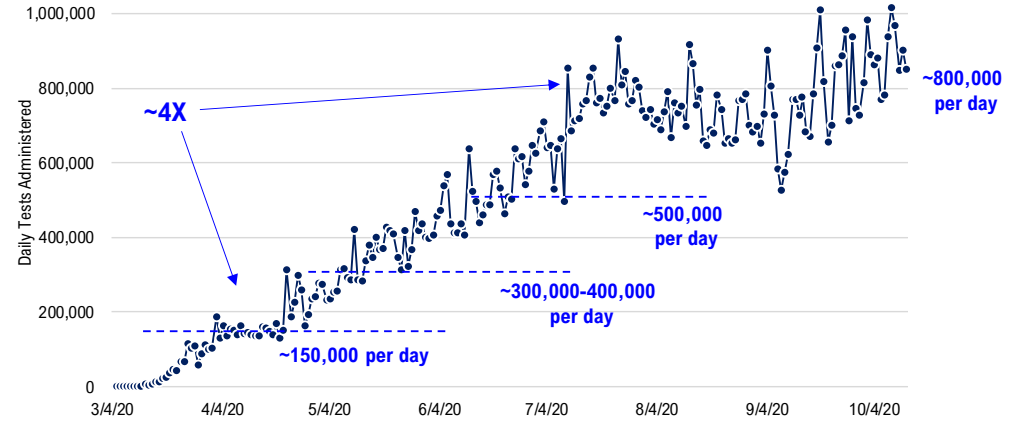


#1: USA COVID-19 Situation at a Glance...

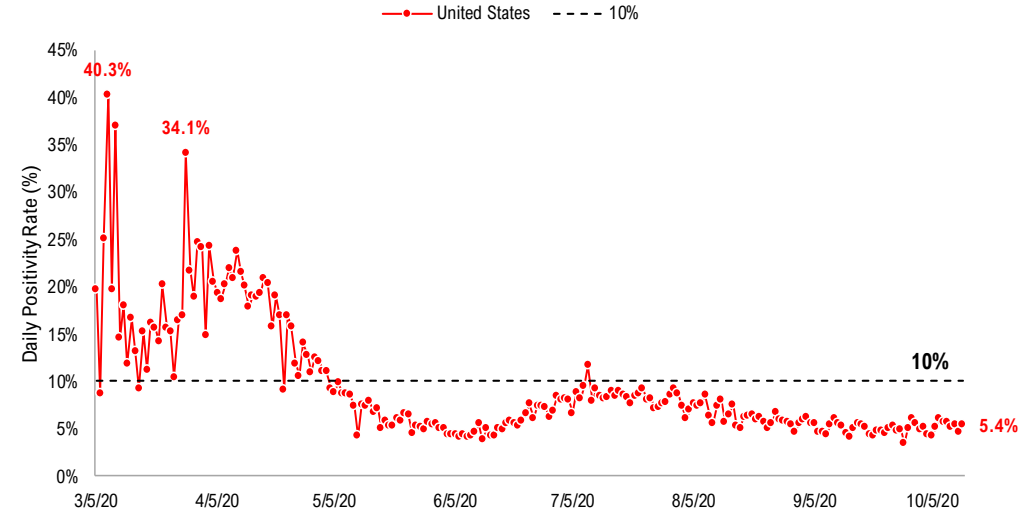
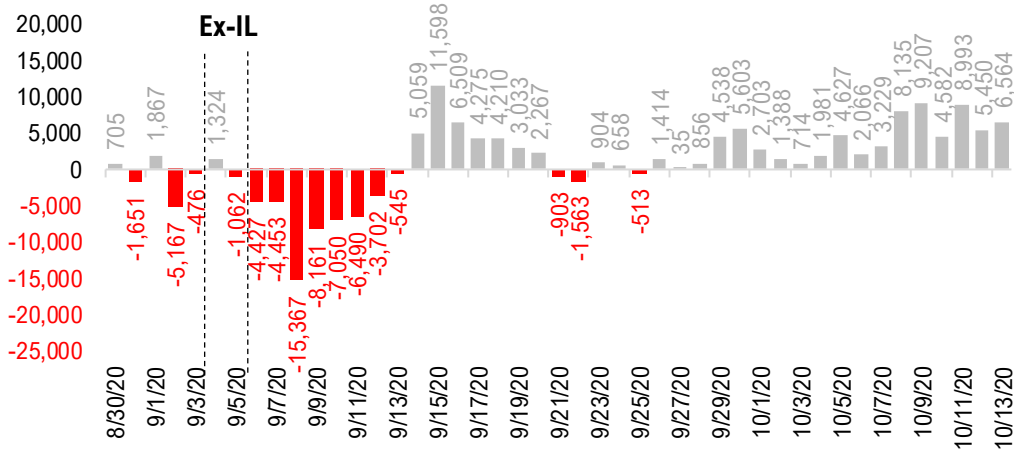
US daily new cases



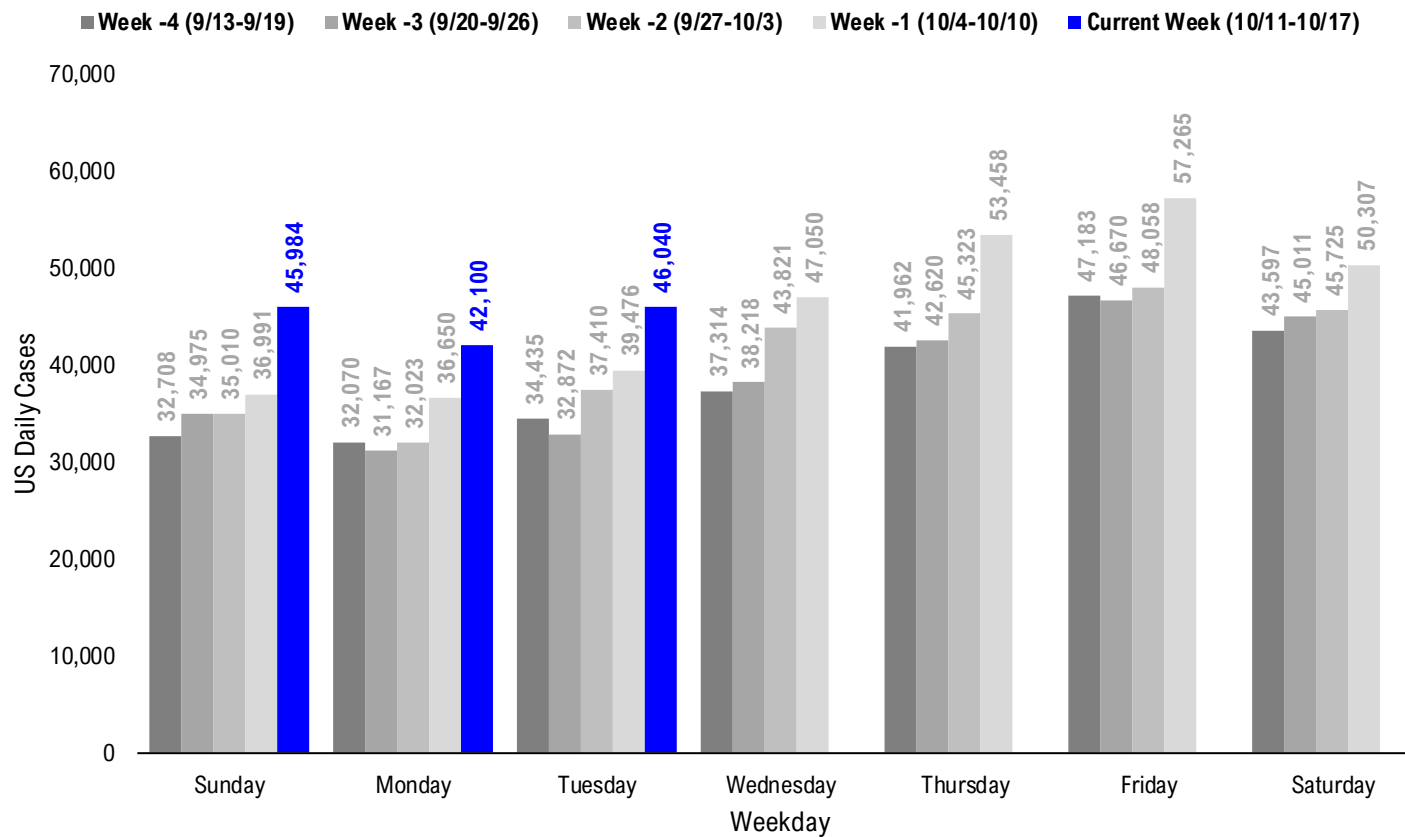
USA total COVID-19 tests administered



US daily new cases rolling 7D delta



#2: USA COVID-19 Daily Cases Weekday Seasonality (Past 4 Weeks) ...



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

	Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents				Hospitalization			
	% US Pop	% US GDP	7D		Since Peak		% Decline in Daily Cases	7D Net Hospitalization	7D Net Hospitalization / 7D New Cases	
			10/13	Delta	10/13	Delta				# Days
United States	100%	100%	46.040	+6.564	136	+21	88	-38%	3,526	1.0%

States:

1 Texas	8.7%	8.8%	5,209	+1,337	113	+19	88	-73%	659	2.6%
2 Wisconsin	1.8%	1.6%	3,279	+1,259	453	+133	3	-11%	106	0.6%
3 Illinois	3.8%	4.2%	2,851	+1,234	219	+89	37	-15%	175	0.9%
4 Florida	6.5%	5.0%	2,725	+474	153	+67	92	-74%	-24	(0.1%)
5 California	11.9%	14.6%	2,378	+701	81	+5	81	-72%	-115	(0.5%)
6 North Carolina	3.2%	2.7%	1,734	+230	150	+11	3	-30%	90	0.7%
7 Indiana	2.0%	1.8%	1,549	+579	232	+89	2	-12%	150	1.3%
8 Ohio	3.5%	3.3%	1,447	+112	119	+24	4	-13%	239	2.3%
9 New York	5.9%	8.1%	1,393	+0	61	+0	186	-89%	218	2.2%
10 Pennsylvania	3.9%	3.8%	1,342	+306	94	-9	186	-34%	140	1.5%
11 Oklahoma	1.2%	1.0%	1,309	-55	242	+23	3	-33%	61	0.7%
12 Michigan	3.0%	2.6%	1,237	+334	102	+25	3	-20%	221	2.8%
13 Virginia	2.6%	2.6%	1,235	+610	113	+20	65	-31%	73	1.0%
14 Tennessee	2.1%	1.8%	1,147	-529	302	+20	77	-25%	130	1.0%
15 Minnesota	1.7%	1.8%	1,135	+194	221	+47	2	-14%	114	1.3%
16 Alabama	1.5%	1.1%	1,117	+353	181	+39	80	-58%	59	0.9%
17 Colorado	1.7%	1.8%	1,048	+394	141	+47	3	-10%	45	0.8%
18 Georgia	3.2%	2.9%	993	+57	95	+15	80	-76%	-26	(0.3%)
19 New Jersey	2.7%	3.0%	988	+359	83	+17	191	-81%	96	1.7%
20 Utah	1.0%	0.9%	987	+271	330	-4	3	-24%	9	0.1%
21 Kentucky	1.3%	1.0%	761	-275	168	+4	10	-29%	112	1.9%
22 Massachusetts	2.1%	2.8%	749	+254	100	+20	171	-80%	20	0.4%
23 Mississippi	0.9%	0.6%	713	-262	146	-23	75	-72%	46	1.1%
24 South Carolina	1.6%	1.1%	695	-129	140	+8	73	-73%	90	1.5%
25 Arizona	2.2%	1.7%	684	-180	80	+10	103	-86%	41	0.9%
26 Louisiana	1.4%	1.3%	653	+147	135	+19	84	-76%	6	0.2%
27 Idaho	0.5%	0.4%	584	-76	288	+31	88	-24%	36	0.9%
28 Iowa	1.0%	0.9%	529	+55	218	+64	46	-44%	50	0.8%

	Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents				Hospitalization			
	% US Pop	% US GDP	7D		Since Peak		% Decline in Daily Cases	7D Net Hospitalization	7D Net Hospitalization / 7D New Cases	
			10/13	Delta	10/13	Delta				# Days
United States	100%	100%	46.040	+6.564	136	+21	88	-38%	3,526	1.0%

States:

29 North Dakota	0.2%	0.3%	508	+6	707	+169	2	-14%	90	2.3%
30 Nevada	0.9%	0.8%	487	+8	155	+25	87	-64%	20	0.5%
31 Montana	0.3%	0.2%	486	-14	466	+157	3	-27%	78	1.8%
32 Maryland	1.8%	2.0%	482	+69	85	+9	145	-59%	42	1.0%
33 Arkansas	0.9%	0.6%	481	-51	177	+25	3	-43%	78	1.5%
34 Nebraska	0.6%	0.6%	457	+5	292	+71	2	-32%	28	0.6%
35 South Dakota	0.3%	0.3%	414	+136	524	+189	4	-40%	53	1.2%
36 New Mexico	0.6%	0.5%	351	+36	158	+54	3	-27%	15	0.5%
37 Connecticut	1.1%	1.3%	320	+199	130	+41	174	-69%	43	2.0%
38 Oregon	1.3%	1.2%	313	+22	68	+2	3	-34%	32	1.3%
39 West Virginia	0.5%	0.4%	274	+80	119	+32	2	-20%	13	0.8%
40 Wyoming	0.2%	0.2%	162	+21	293	+60	4	-10%	2	0.2%
41 Alaska	0.2%	0.3%	151	+12	272	+28	1	-14%	14	1.1%
42 Puerto Rico	1.0%	0.5%	135	-103	61	-26	17	-66%	-19	(1.3%)
43 Rhode Island	0.3%	0.3%	129	-48	120	+9	171	-70%	33	2.4%
44 Delaware	0.3%	0.4%	105	+2	136	+19	168	-60%	25	2.7%
45 Guam	0.0%	0.0%	96	+35	422	+191	47	-35%	20	4.4%
46 New Hampshire	0.4%	0.4%	71	+20	46	+13	164	-50%	-3	(0.5%)
47 Hawaii	0.4%	0.5%	62	-19	48	+1	45	-77%	-25	(3.3%)
48 District of Columbia	0.2%	0.7%	46	-59	71	-14	163	-78%	-17	(4.1%)
49 Maine	0.4%	0.3%	28	+8	21	+1	144	-59%	1	0.5%
50 Vermont	0.2%	0.2%	11	+7	15	-7	191	-83%	4	6.2%
51 Washington	2.3%	2.7%	0	-402	21	-43	90	-85%	9	0.3%
52 U.S. Virgin Islands	0.0%	0.0%	0	+5	3	+16	53	-99%	0	0.0%
53 Northern Mariana	0.0%	0.0%	0	+0	0	-12	21	-100%	0	0.0%
54 Missouri	1.8%	1.5%	0	-1,165	0	-189	75	-100%	166	3.6%
55 Kansas	0.9%	0.8%	0	+0	235	+52	13	-35%	3	0.1%
56 American Samoa	0.0%	0.0%	0	+0	0	+0	0	0%	0	

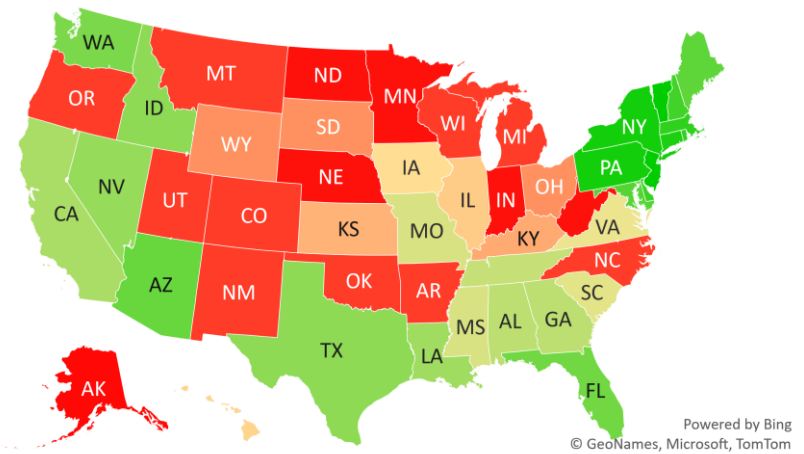
#5: # of Days since Daily Case Peaked by States...

Days since Daily Cases (3D Avg) Peak (as of 10/13)

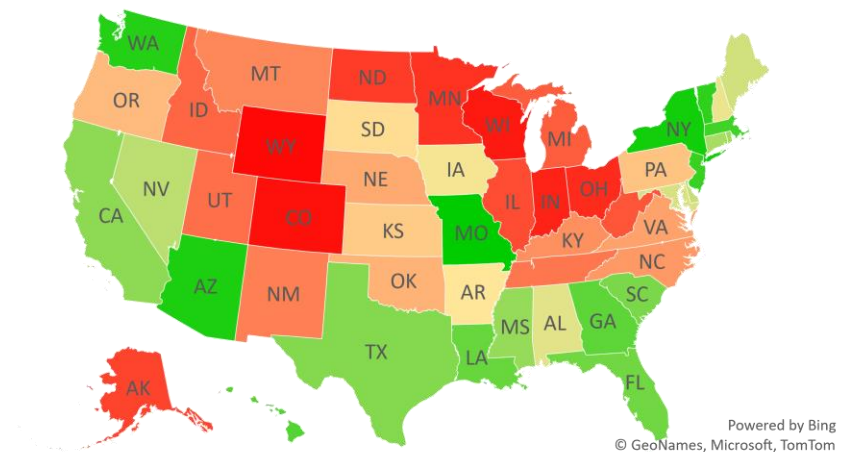
	Sorted			
	Peak Date	10/13/20	% off the Peak	% US Pop
United States	7/17/20	88	-38%	100%
States:				
Vermont	4/5/20	191	-83%	0.2%
New Jersey	4/5/20	191	-81%	2.7%
Pennsylvania	4/10/20	186	-34%	3.9%
New York	4/10/20	186	-89%	5.9%
Connecticut	4/22/20	174	-69%	1.1%
Rhode Island	4/25/20	171	-70%	0.3%
Massachusetts	4/25/20	171	-80%	2.1%
Delaware	4/28/20	168	-60%	0.3%
New Hampshire	5/2/20	164	-50%	0.4%
District of Columbia	5/3/20	163	-78%	0.2%
Maryland	5/21/20	145	-59%	1.8%
Maine	5/22/20	144	-59%	0.4%
Arizona	7/2/20	103	-86%	2.2%
Florida	7/13/20	92	-74%	6.5%
Washington	7/15/20	90	-85%	2.3%
Texas	7/17/20	88	-73%	8.7%
Idaho	7/17/20	88	-24%	0.5%
Nevada	7/18/20	87	-64%	0.9%
Louisiana	7/21/20	84	-76%	1.4%
California	7/24/20	81	-72%	11.9%
Georgia	7/25/20	80	-76%	3.2%
Alabama	7/25/20	80	-58%	1.5%
Tennessee	7/28/20	77	-25%	2.1%
Mississippi	7/30/20	75	-72%	0.9%
Missouri	7/30/20	75	-100%	1.8%
South Carolina	8/1/20	73	-73%	1.6%
Virginia	8/9/20	65	-31%	2.6%
U.S. Virgin Islands	8/21/20	53	-99%	0.0%

	Sorted			
	Peak Date	10/13/20	% off the Peak	% US Pop
United States	7/17/20	88	-38%	100%
States:				
Guam	8/27/20	47	-35%	0.0%
Iowa	8/28/20	46	-44%	1.0%
Hawaii	8/29/20	45	-77%	0.4%
Illinois	9/6/20	37	-15%	3.8%
Northern Mariana Island	9/22/20	21	-100%	0.0%
Puerto Rico	9/26/20	17	-66%	1.0%
Kansas	9/30/20	13	-35%	0.9%
Kentucky	10/3/20	10	-29%	1.3%
Wyoming	10/9/20	4	-10%	0.2%
South Dakota	10/9/20	4	-40%	0.3%
Ohio	10/9/20	4	-13%	3.5%
Wisconsin	10/10/20	3	-11%	1.8%
Utah	10/10/20	3	-24%	1.0%
Oregon	10/10/20	3	-34%	1.3%
Oklahoma	10/10/20	3	-33%	1.2%
New Mexico	10/10/20	3	-27%	0.6%
North Carolina	10/10/20	3	-30%	3.2%
Montana	10/10/20	3	-27%	0.3%
Michigan	10/10/20	3	-20%	3.0%
Colorado	10/10/20	3	-10%	1.7%
Arkansas	10/10/20	3	-43%	0.9%
West Virginia	10/11/20	2	-20%	0.5%
Nebraska	10/11/20	2	-32%	0.6%
North Dakota	10/11/20	2	-14%	0.2%
Minnesota	10/11/20	2	-14%	1.7%
Indiana	10/11/20	2	-12%	2.0%
Alaska	10/12/20	1	-14%	0.2%

Days since Daily Case Peak: **Longer = Good**



Daily Cases % off the Peak: **Larger Decline = Good**



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

Sorted

7D Ago Last 3-day Trend

WA didn't report stats on Mon & Tue due to data issues.
MO's stats in the past 4 days are not available due to database error.

	10/6/20	10/11/20	10/12/20	10/13/20	vs 7D ago
United States	39,476	45,984	42,100	46,040	+6,564
States:					
Texas	3,872	2,262	2,384	5,209	<--higher
Wisconsin	2,020	2,676	1,956	3,279	<--higher
Illinois	1,617	2,727	2,742	2,851	<--higher
Florida	2,251	5,570	1,533	2,725	<--higher
California	1,677	3,803	3,449	2,378	<--higher
North Carolina	1,504	1,719	1,276	1,734	
Indiana	970	1,570	1,574	1,549	<--higher
Ohio	1,335	1,291	1,430	1,447	
New York	1,393	1,143	1,029	1,393	
Pennsylvania	1,036	1,166	1,088	1,342	<--higher
Oklahoma	1,364	766	797	1,309	
Michigan	903	0	1,809	1,237	<--higher
Virginia	625	811	854	1,235	<--higher
Tennessee	1,676	2,068	2,965	1,147	
Minnesota	941	1,440	1,171	1,135	<--higher
Alabama	764	816	734	1,117	<--higher
Colorado	654	819	576	1,048	<--higher
Georgia	936	1,140	902	993	
New Jersey	629	751	469	988	<--higher
Utah	716	1,200	988	987	<--higher
Kentucky	1,036	847	638	761	
Massachusetts	495	563	760	749	<--higher
Mississippi	975	294	296	713	
South Carolina	824	766	702	695	
Arizona	864	597	475	684	
Louisiana	506	1,168	63	653	<--higher
Idaho	660	365	597	584	
Iowa	474	1,075	463	529	

Sorted

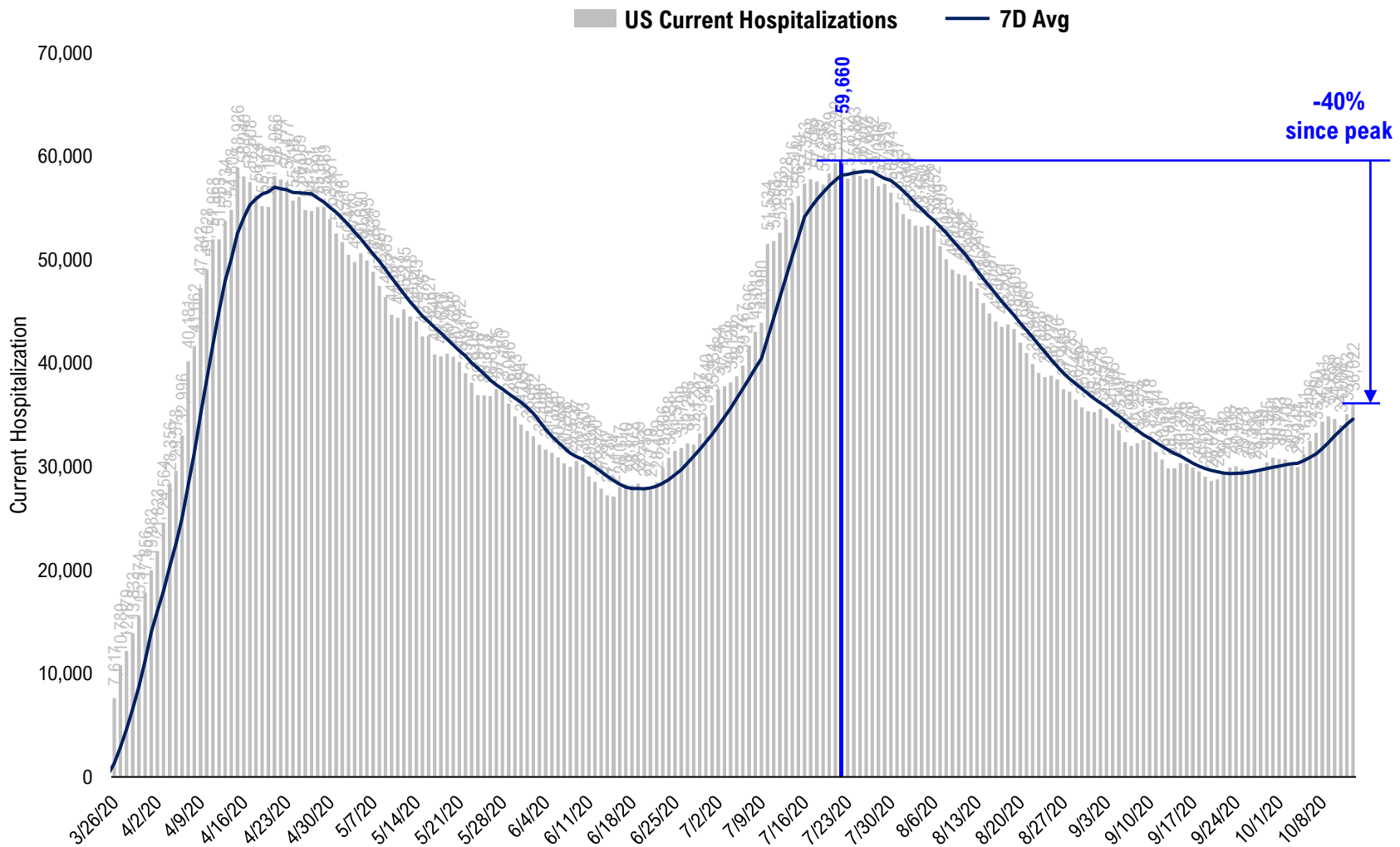
7D Ago Last 3-day Trend

WA didn't report stats on Mon & Tue due to data issues.
MO's stats in the past 4 days are not available due to database error.

	10/6/20	10/11/20	10/12/20	10/13/20	vs 7D ago
United States	39,476	45,984	42,100	46,040	+6,564
States:					
North Dakota	502	637	472	508	
Nevada	479	380	569	487	
Montana	500	585	423	486	
Maryland	413	562	504	482	
Arkansas	532	554	568	481	
Nebraska	452	743	495	457	
South Dakota	278	617	361	414	<--higher
New Mexico	315	261	379	351	
Connecticut	121	0	1,066	320	<--higher
Oregon	291	331	212	313	
West Virginia	194	215	153	274	<--higher
Wyoming	141	156	191	162	
Alaska	139	255	191	151	
Puerto Rico	238	218	228	135	
Rhode Island	177	170	81	129	
Delaware	103	132	159	105	
Guam	61	22	92	96	<--higher
New Hampshire	51	51	65	71	<--higher
Hawaii	81	103	41	62	
District of Columbia	105	66	38	46	
Maine	20	27	29	28	<--higher
Vermont	4	10	8	11	<--higher
Washington	402	475	0	0	
U.S. Virgin Islands	-5	1	0	0	
Northern Mariana Islands	0	0	0	0	
Missouri	1,165	0	0	0	
Kansas	0	0	2,055	0	
American Samoa	0	0	0	0	

#7: US Daily Hospitalizations...

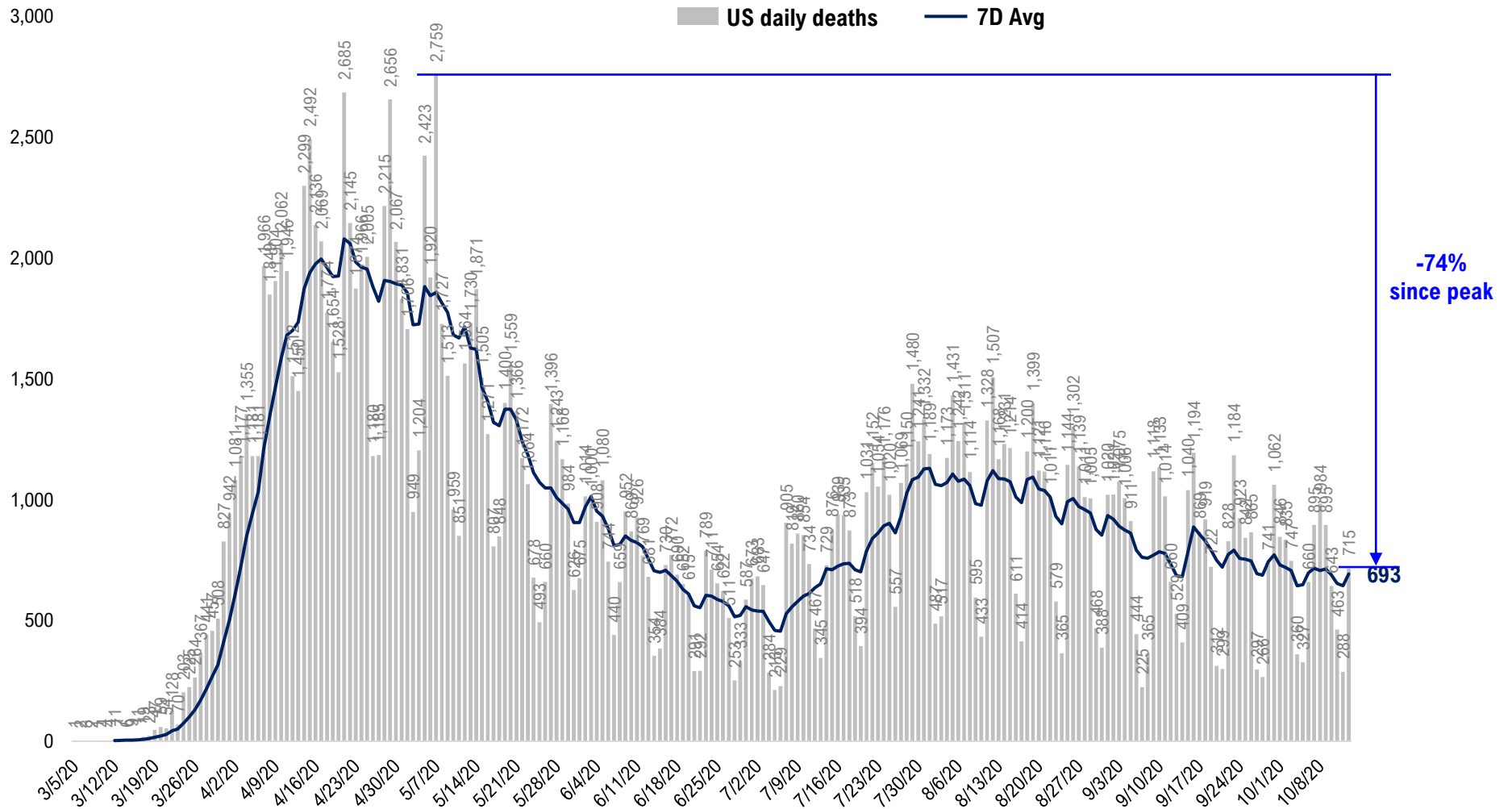
US Net Hospitalizations (aggregate of 50 states + Washington, D.C.)



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

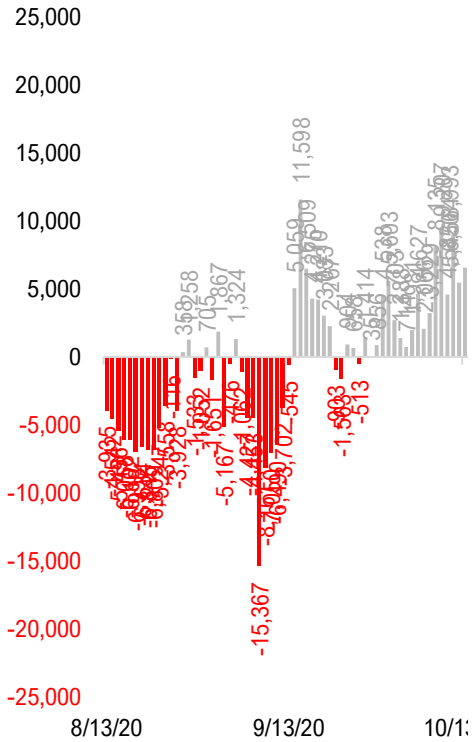
#8: US Daily New Fatalities...

US daily COVID-19 Fatalities

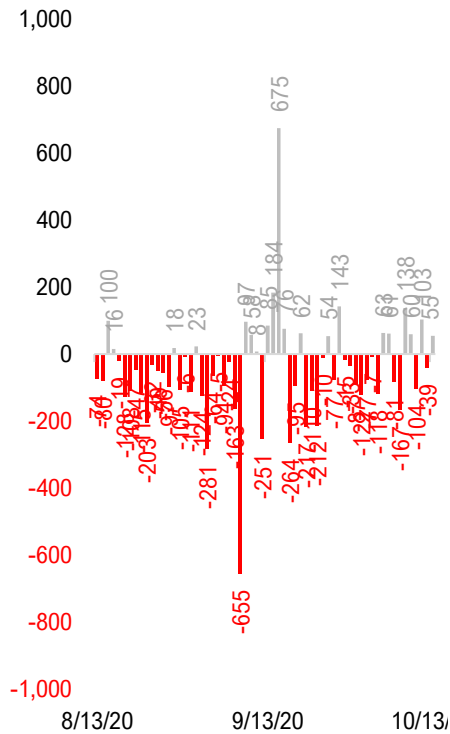


#9: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

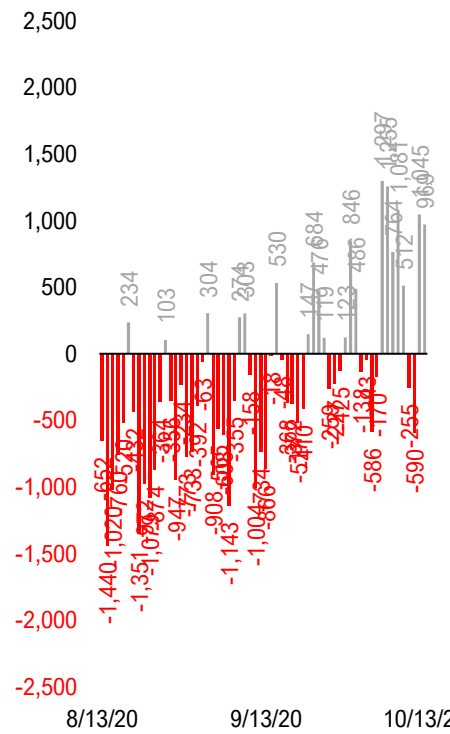
Daily New Cases
(8/10-8/23 ex-CA; 9/4-9/5 ex-IL)



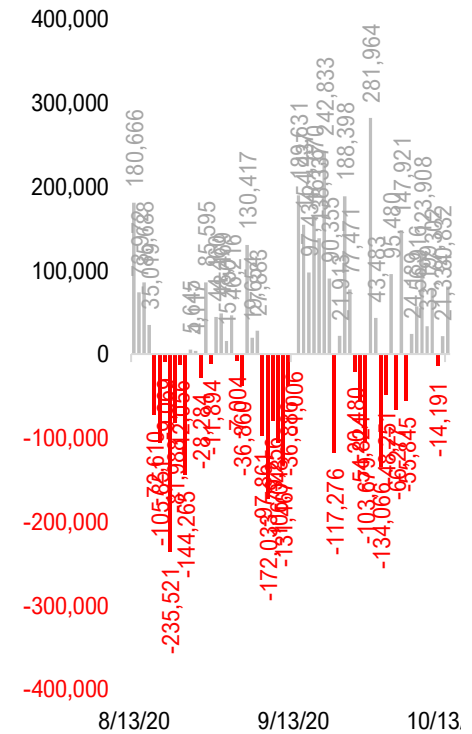
Daily Deaths



Daily Net Hospitalization
(Red = more discharge than admission)

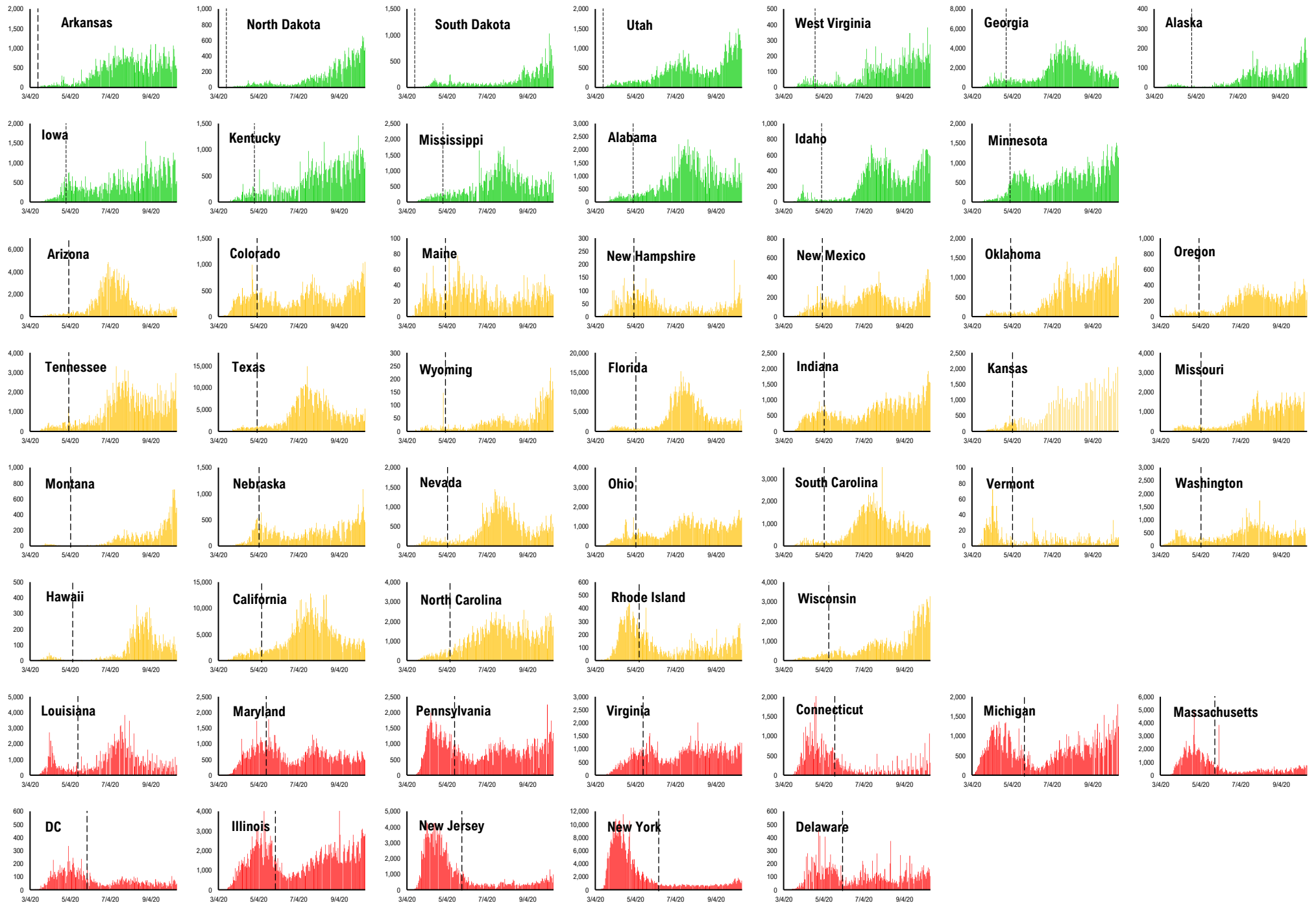


Daily Tests



* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

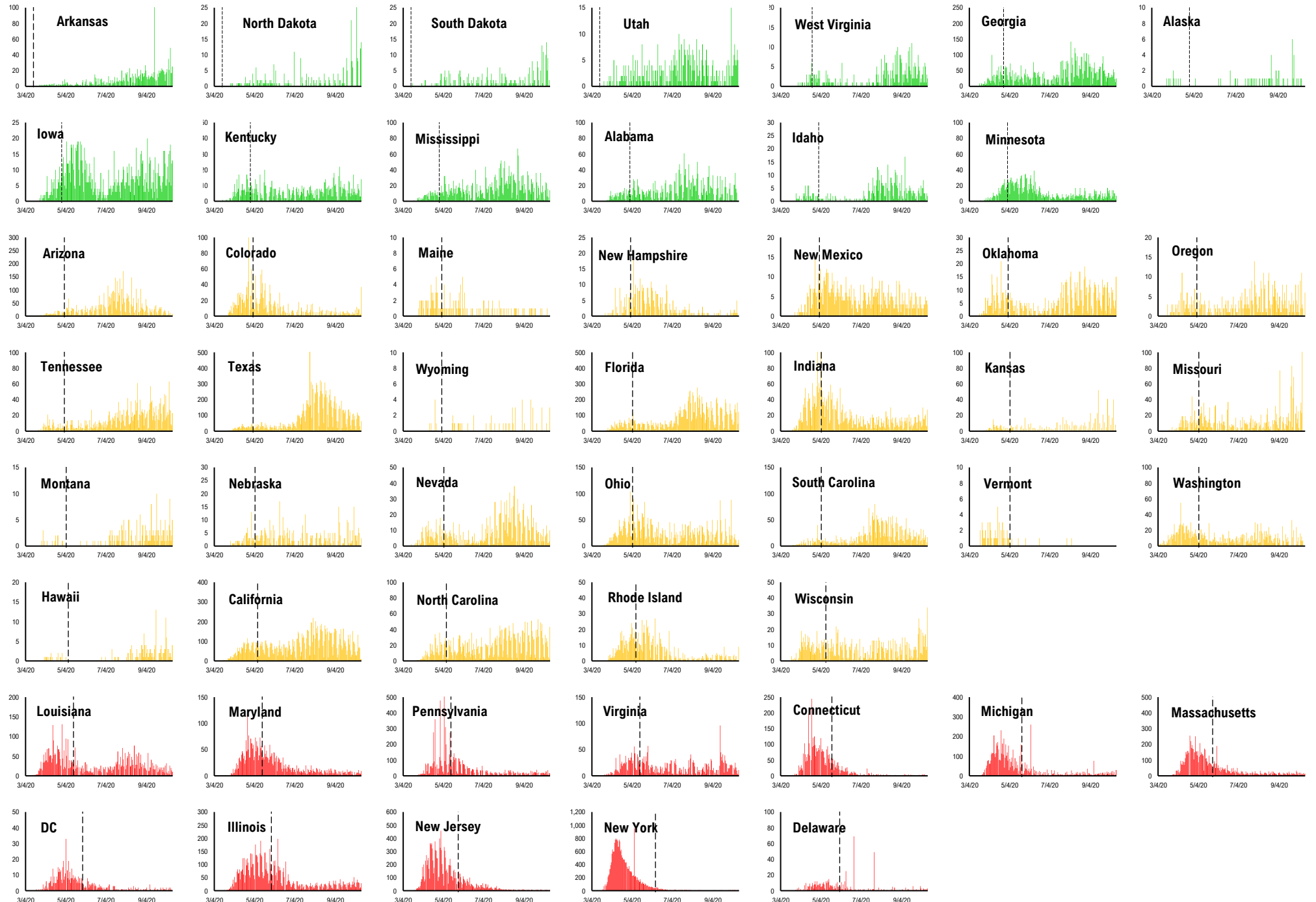
#10: Daily New Cases by States... (sorted by "open" date)



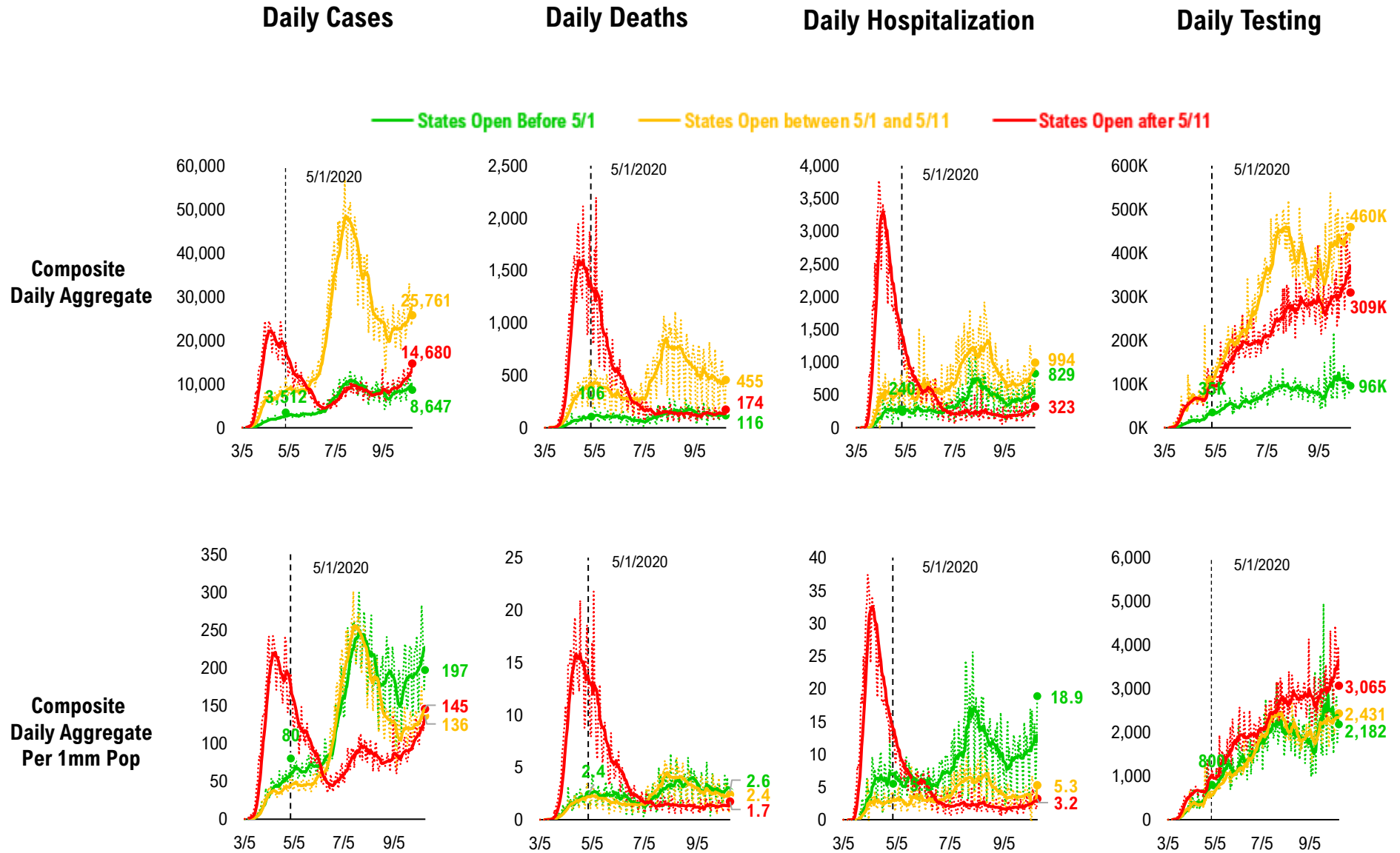
#11: Daily Hospitalizations by States... (sorted by "open" date)



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

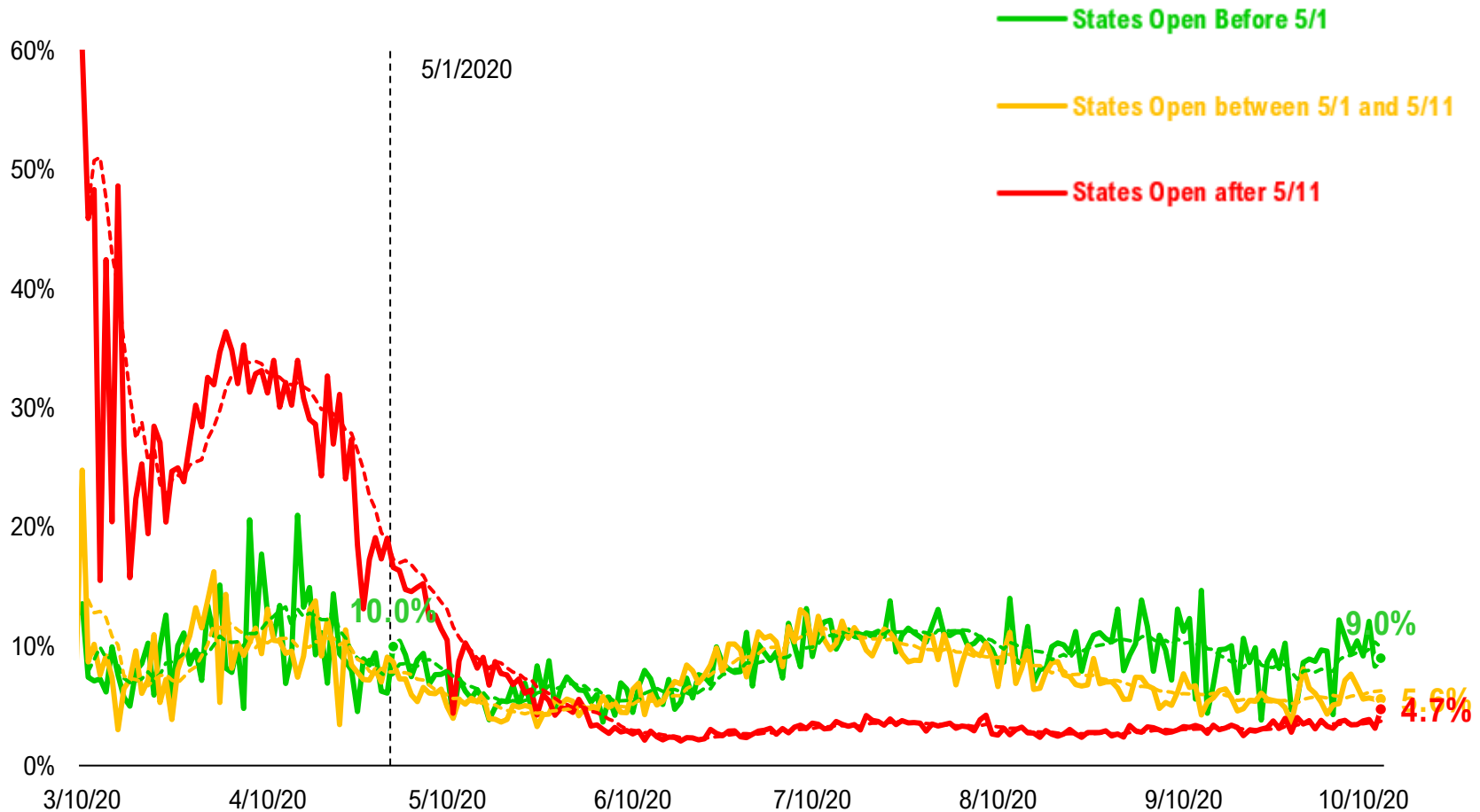


#13: State COVID-19 situation by Reopen Date...

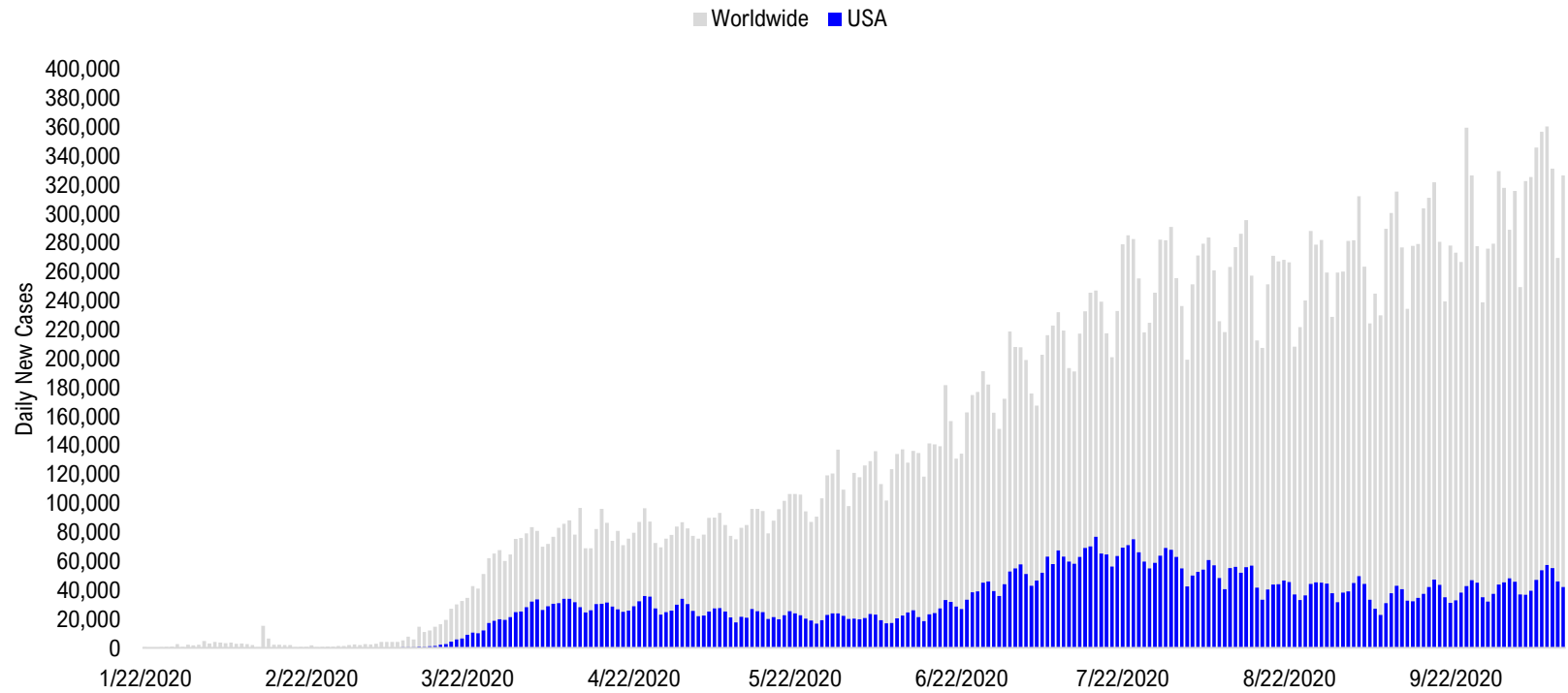


#14: State COVID-19 Daily Positivity Rate by Reopen Date...

Composite Daily Positivity Rate



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



5/29/2020	6/12/2020	6/26/2020	7/10/2020	7/24/2020	8/7/2020	8/21/2020	9/4/2020	9/18/2020	10/2/2020	10/12/2020
Latin America 42,759	Latin America 51,123	Latin America 68,227	Latin America 73,176	Latin America 97,008	Latin America 97,310	Latin America 85,471	Latin America 88,295	Pakistan + India + Bangladesh 98,115	Pakistan + India + Bangladesh 84,614	Europe 104,059
US + Canada 22,796	US + Canada 22,798	US + Canada 41,092	US + Canada 63,055	US + Canada 72,289	Pakistan + India + Bangladesh 63,674	Pakistan + India + Bangladesh 72,740	Pakistan + India + Bangladesh 87,400	Latin America 76,730	Europe 77,734	Pakistan + India + Bangladesh 67,302
Europe 19,130	Pakistan + India + Bangladesh 18,309	Pakistan + India + Bangladesh 24,668	Pakistan + India + Bangladesh 32,386	Pakistan + India + Bangladesh 52,184	US + Canada 56,201	US + Canada 45,159	US + Canada 44,962	Europe 57,930	Latin America 61,017	Latin America 50,094
Pakistan + India + Bangladesh 12,032	Europe 18,149	Europe 17,889	Africa 17,127	Africa 20,063	Europe 23,878	Europe 32,466	Europe 40,116	US + Canada 43,204	US + Canada 47,755	US + Canada 49,202
Africa 5,307	Africa 7,322	Africa 11,684	Europe 16,204	Europe 18,765	Africa 14,390	Africa 10,566	Asia ex- India+Pakistan 8,720	Asia ex- India+Pakistan 10,763	Asia ex- India+Pakistan 11,417	Asia ex- India+Pakistan 14,170
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	Asia ex- India+Pakistan 10,424	Asia ex- India+Pakistan 10,047	Africa 8,318	Africa 7,997	Africa 8,146	Africa 9,465

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