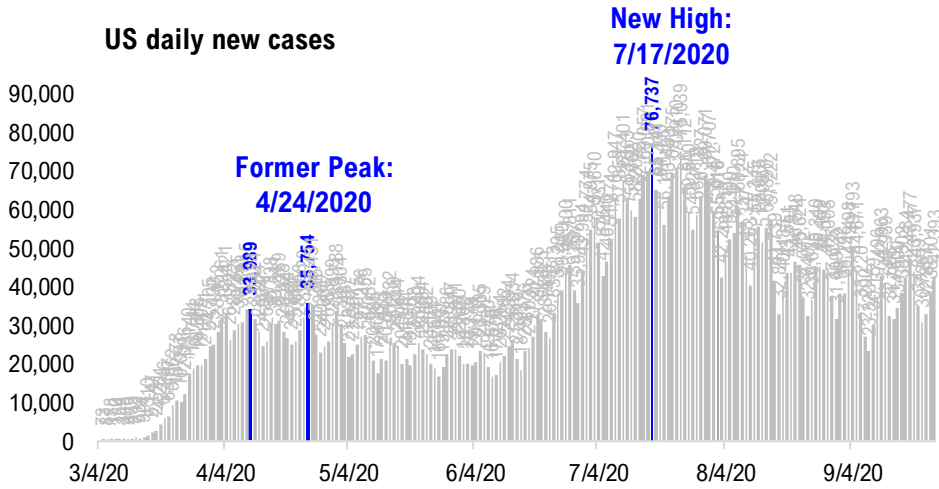


FSInsight Daily COVID-19 Chartbook

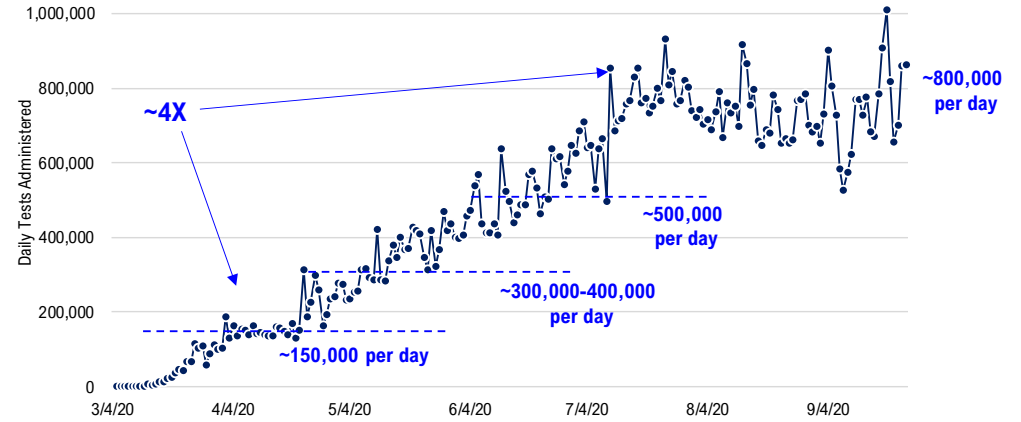


#1: USA COVID-19 Situation at a Glance...

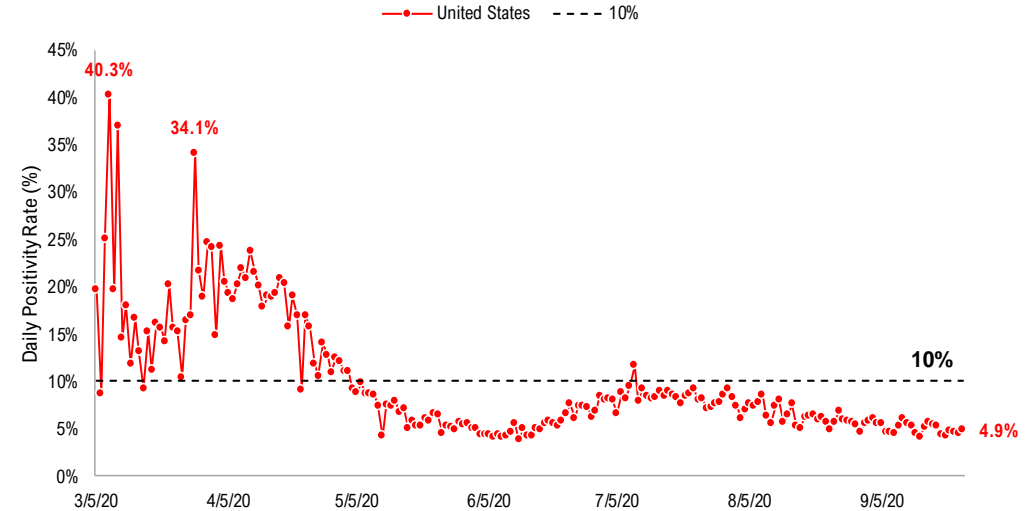
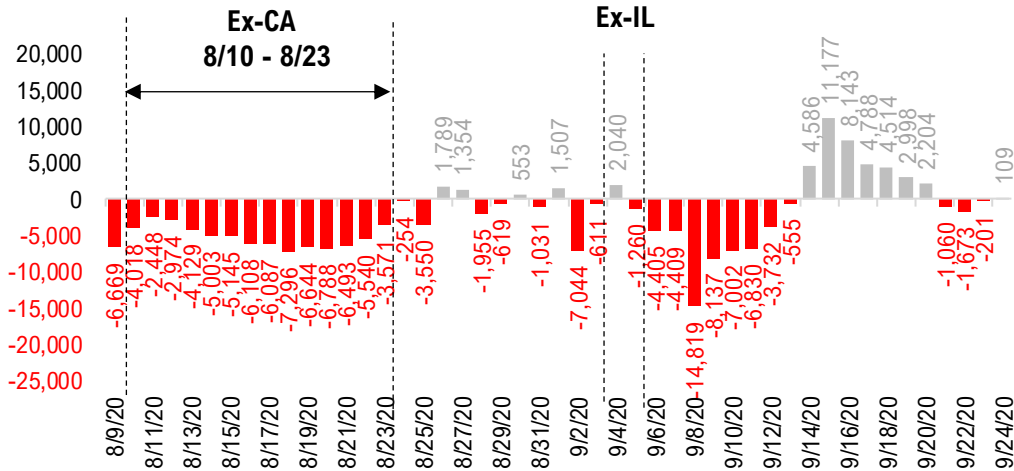
US daily new cases



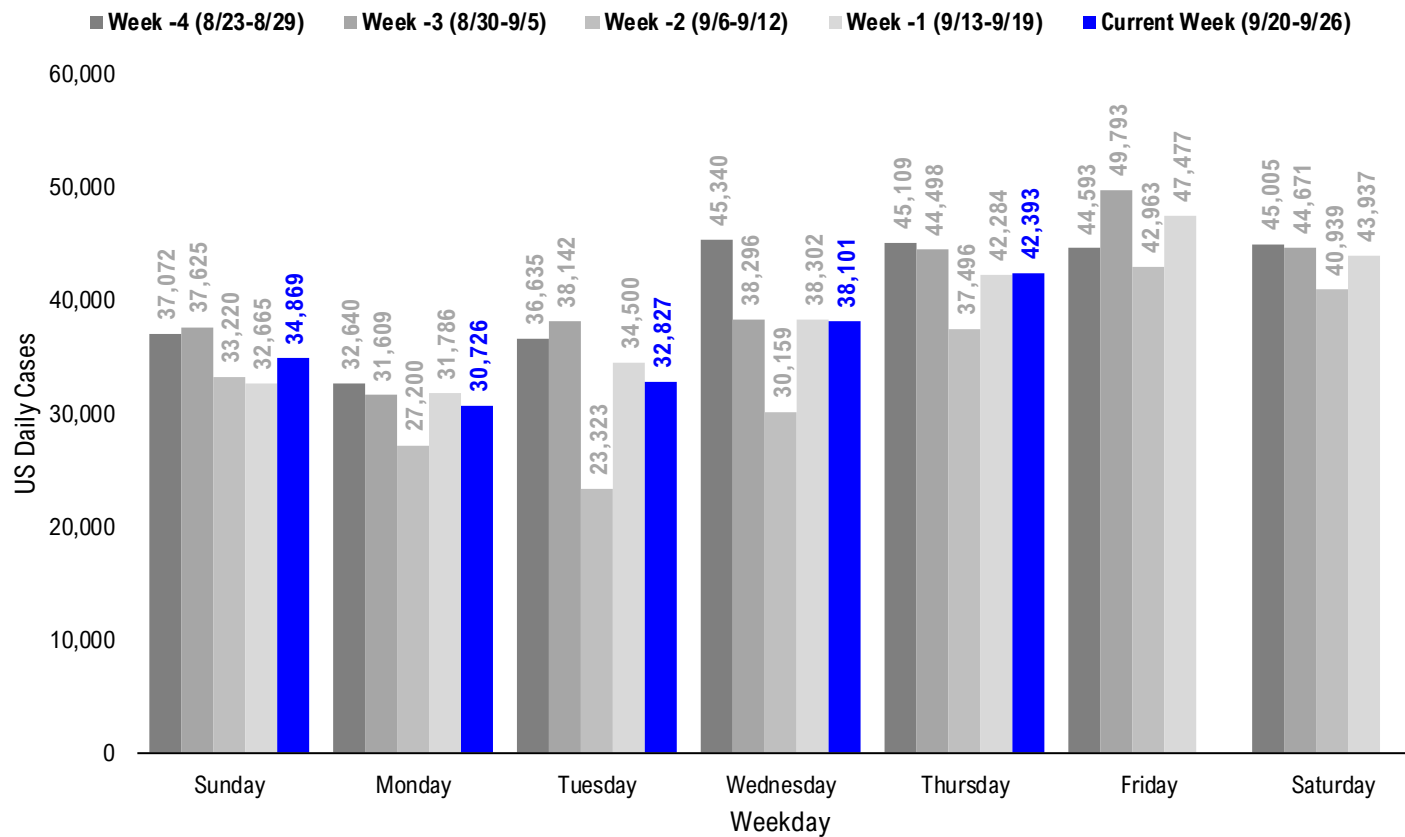
USA total COVID-19 tests administered



US daily new cases rolling 7D delta



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



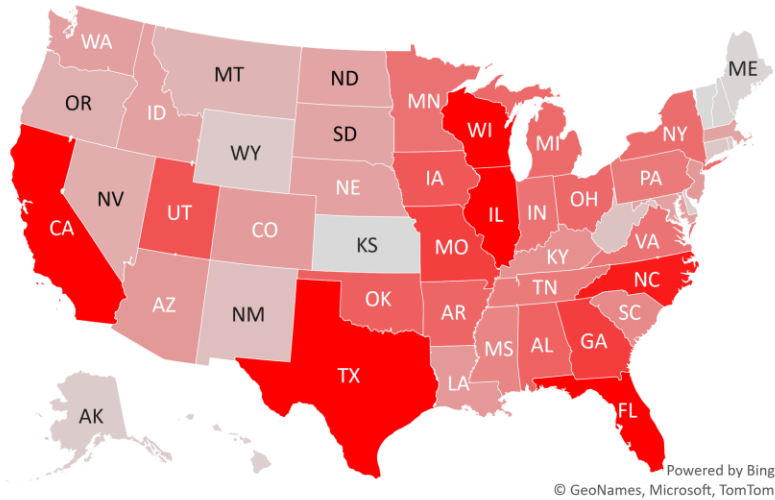
#3: USA State COVID-19 Situation at a Glance...

		Sorted Daily Cases			Daily Cases (3D avg) per 1mm residents		Since Peak			
		9/24/20	7D Delta	9/24/20	7D Delta	# Days	% Decline in Daily Cases			
United States		42,393	+109	115	-2	69	-48%			
States:										
1	Texas	3,840	+322	124	-11	69	-70%			
2	California	3,170	-68	75	+4	62	-74%			
3	Florida	2,541	-714	118	-17	73	-80%			
4	Wisconsin	2,392	+358	334	+59	5	-15%			
5	Illinois	2,257	+201	148	+5	18	-43%			
6	North Carolina	1,688	+136	121	+0	68	-43%			
7	Georgia	1,368	-479	116	-58	61	-71%			
8	Missouri	1,365	-382	217	-14	56	-31%			
9	Utah	1,198	+287	283	+53	4	-12%			
10	Iowa	1,148	+200	289	+61	27	-26%			
11	Oklahoma	1,083	+49	281	+20	58	-10%			
12	Alabama	1,053	+383	165	+9	61	-62%			
13	Arkansas	1,030	+147	264	+25	61	-13%			
14	Ohio	991	-76	74	-15	55	-45%			
15	Michigan	982	+153	73	+4	153	-40%			
16	New York	955	+59	41	+1	167	-92%			
17	Minnesota	912	+3	122	+18	4	-37%			
18	Virginia	902	-199	92	-21	46	-44%			
19	Indiana	899	+62	109	+5	11	-38%			
20	Pennsylvania	853	-80	67	-7	167	-52%			
21	Tennessee	835	-218	153	-36	58	-62%			
22	Mississippi	737	+36	196	-18	56	-62%			
23	Puerto Rico	717	+335	88	+20	5	-46%			
24	South Carolina	707	-718	147	-116	74	-62%			
25	Kentucky	641	+35	167	+11	41	-11%			
26	Louisiana	577	+99	126	+29	65	-78%			
27	Arizona	568	-608	73	-35	84	-88%			
28	New Jersey	564	-5	52	+0	172	-88%			

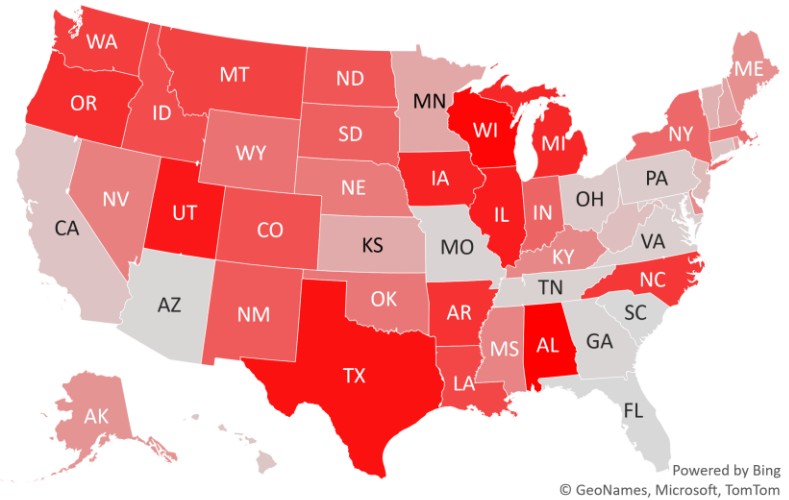
		Sorted Daily Cases			Daily Cases (3D avg) per 1mm residents		Since Peak			
		9/24/20	7D Delta	9/24/20	7D Delta	# Days	% Decline in Daily Cases			
United States		42,393	+109	115	-2	69	-48%			
States:										
29	Colorado	548	+89	105	+22	151	-17%			
30	Washington	509	+123	51	+4	71	-63%			
31	Maryland	503	-128	68	-35	126	-67%			
32	Nebraska	493	+44	206	+19	145	-23%			
33	Idaho	491	+95	249	+70	69	-34%			
34	Massachusetts	481	+52	58	+7	152	-88%			
35	North Dakota	470	+80	528	+138	5	-5%			
36	South Dakota	463	+68	463	+129	0	0%			
37	Nevada	390	+43	126	+41	68	-71%			
38	Oregon	362	+152	69	+23	54	-21%			
39	Montana	330	+114	254	+85	0	0%			
40	New Mexico	237	+79	86	+29	57	-51%			
41	West Virginia	202	-32	100	-14	12	-25%			
42	Connecticut	157	-63	42	-4	155	-90%			
43	Wyoming	136	+50	208	+58	0	0%			
44	Rhode Island	134	+4	119	+7	152	-71%			
45	Alaska	128	+23	103	+14	53	-44%			
46	Delaware	117	+33	96	-35	149	-72%			
47	Hawaii	90	-70	75	-2	26	-64%			
48	District of Columbia	56	+9	60	-19	144	-82%			
49	Maine	44	+23	27	+12	125	-47%			
50	New Hampshire	37	+3	23	-2	145	-75%			
51	Guam	28	-4	233	-4	28	-64%			
52	U.S. Virgin Islands	12	+6	65	+12	34	-85%			
53	Vermont	2	-1	3	-3	172	-97%			
54	Northern Mariana Islands	0	-1	0	-6	2	-100%			
55	Kansas	0	+0	145	+34	29	-59%			
56	American Samoa	0	+0	0	+0	-	-			

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

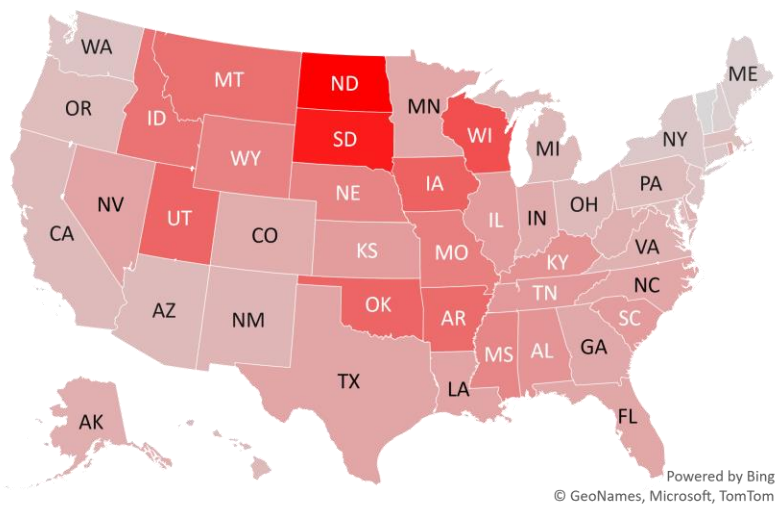
Daily Case Increases



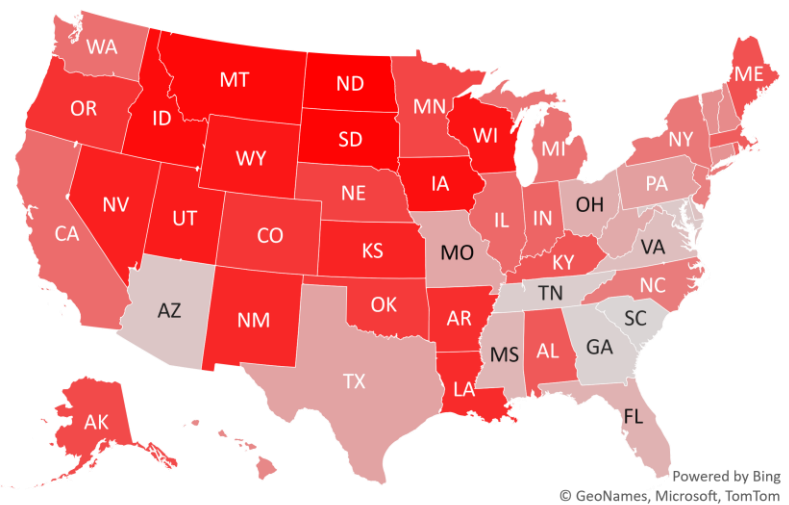
7D Delta in Daily New Cases



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



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



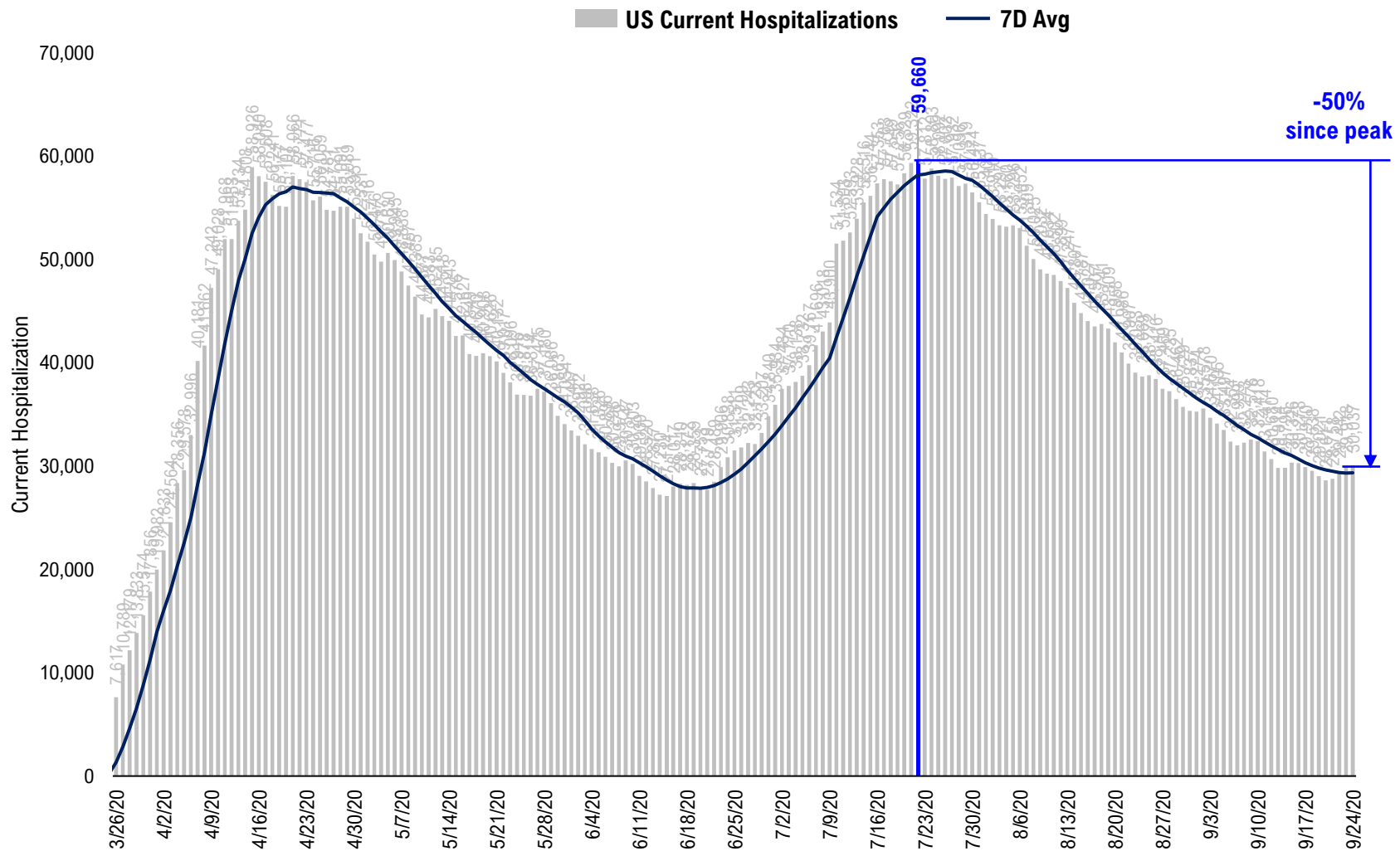
#6: US New Cases by States... (sorted by today's new cases)

	Sorted				
	7D Ago	Last 3-day Trend			
	9/17/20	9/22/20	9/23/20	9/24/20	vs 7D ago
United States	42,284	32,827	38,101	42,393	+109
States:					
Texas	3,518	3,964	2,977	3,840	
California	3,238	2,630	3,146	3,170	
Florida	3,255	2,470	2,590	2,541	
Wisconsin	2,034	1,672	1,762	2,392	
Illinois	2,056	1,531	1,848	2,257	
North Carolina	1,552	1,168	952	1,688	
Georgia	1,847	882	1,457	1,368	
Missouri	1,747	1,059	1,580	1,365	
Utah	911	650	877	1,198	<--higher
Iowa	948	548	1,036	1,148	<--higher
Oklahoma	1,034	1,164	1,089	1,083	
Alabama	670	804	569	1,053	<--higher
Arkansas	883	486	874	1,030	
Ohio	1,067	685	903	991	
Michigan	829	504	705	982	
New York	896	754	665	955	
Minnesota	909	480	678	912	
Virginia	1,101	872	580	902	
Indiana	837	599	711	899	
Pennsylvania	933	834	898	853	
Tennessee	1,053	739	1,561	835	
Mississippi	701	465	552	737	
Puerto Rico	382	88	40	717	
South Carolina	1,425	822	742	707	
Kentucky	606	814	786	641	
Louisiana	478	752	431	577	<--higher
Arizona	1,176	595	438	568	
New Jersey	569	426	408	564	

	Sorted				
	7D Ago	Last 3-day Trend			
	9/17/20	9/22/20	9/23/20	9/24/20	vs 7D ago
United States	42,284	32,827	38,101	42,393	+109
States:					
Colorado	459	654	616	548	
Washington	386	0	645	509	<--higher
Maryland	631	344	385	503	
Nebraska	449	305	397	493	
Idaho	396	446	396	491	<--higher
Massachusetts	429	173	543	481	
North Dakota	390	264	473	470	<--higher
South Dakota	395	320	445	463	
Nevada	347	262	509	390	
Oregon	210	318	190	362	<--higher
Montana	216	271	212	330	<--higher
New Mexico	158	107	197	237	<--higher
West Virginia	234	213	120	202	
Connecticut	220	136	155	157	
Wyoming	86	72	153	136	<--higher
Rhode Island	130	112	133	134	
Alaska	105	44	54	128	<--higher
Delaware	84	94	69	117	<--higher
Hawaii	160	62	168	90	
District of Columbia	47	43	29	56	
Maine	21	40	25	44	<--higher
New Hampshire	34	38	17	37	
Guam	32	43	45	28	
U.S. Virgin Islands	6	7	2	12	<--higher
Vermont	3	2	1	2	
Northern Mariana Islands	1	0	0	0	
Kansas	0	0	1,267	0	
American Samoa	0	0	0	0	

#7: US Daily Hospitalizations...

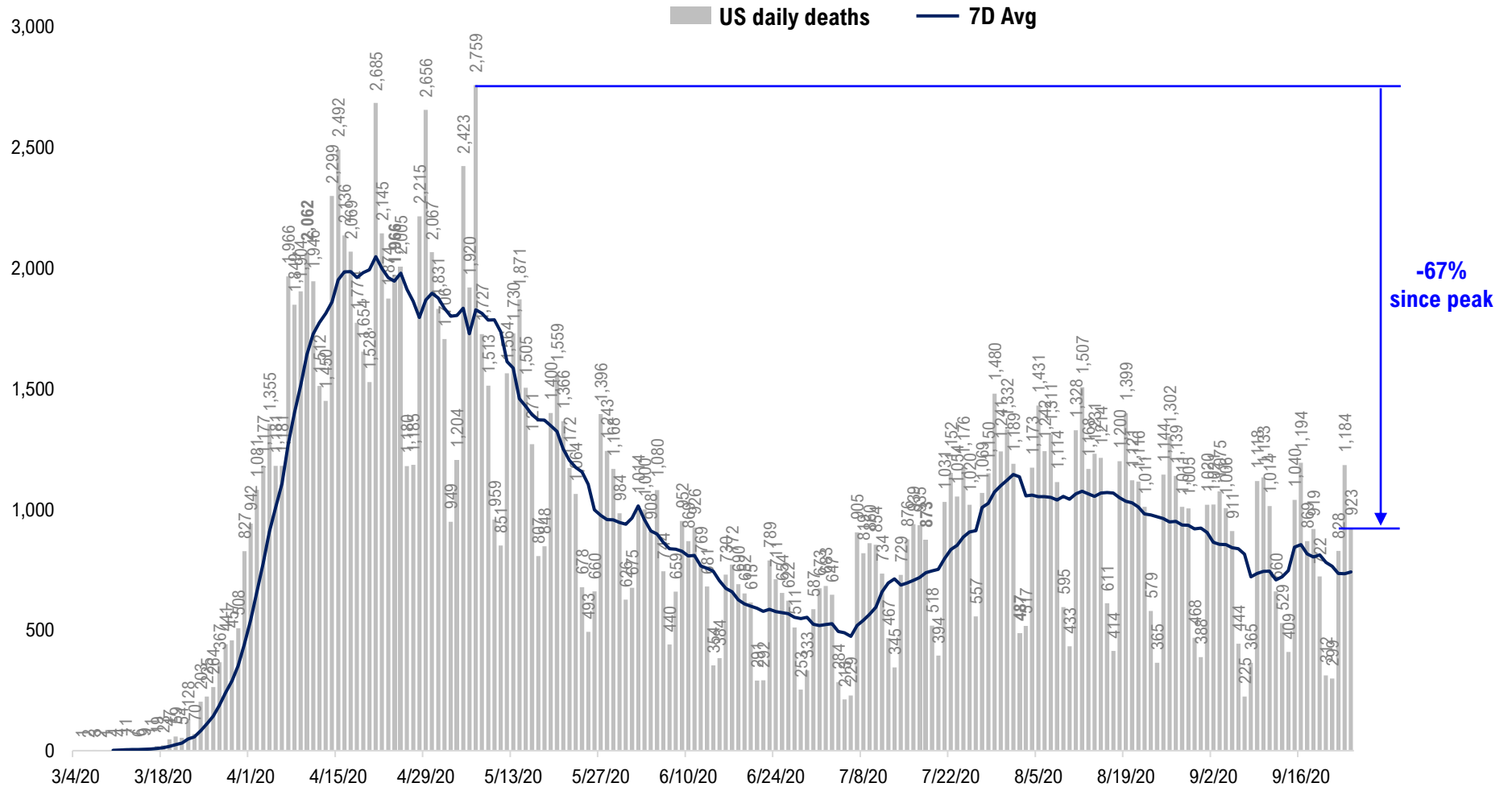
US Net Hospitalizations (aggregate of 50 states + Washington, D.C.)



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

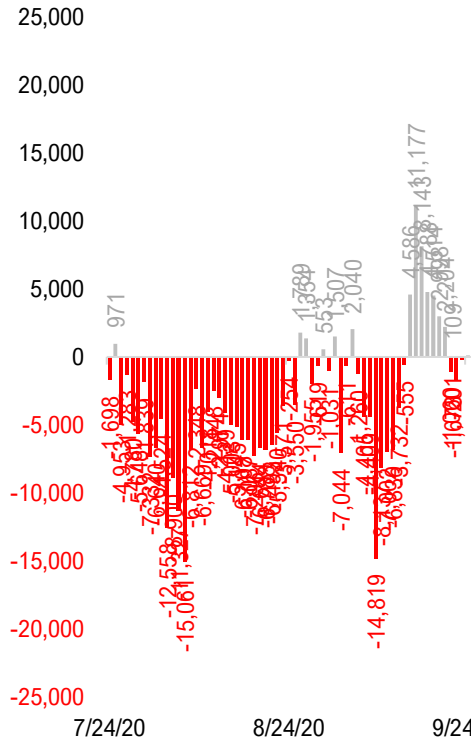
#8: US Daily New Fatalities...

US daily COVID-19 Fatalities

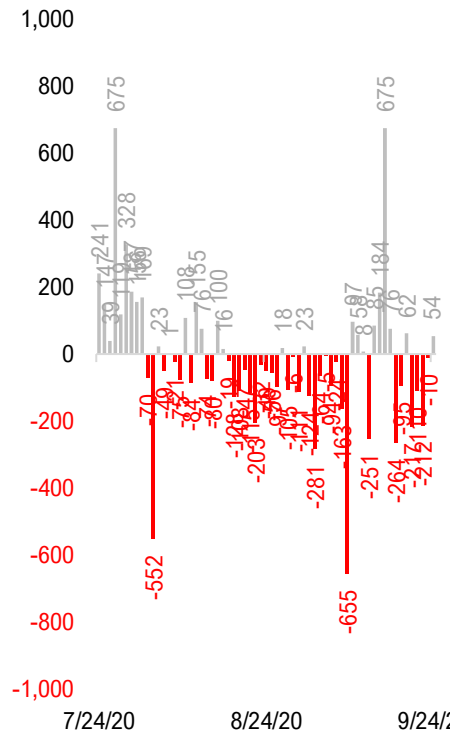


#9: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

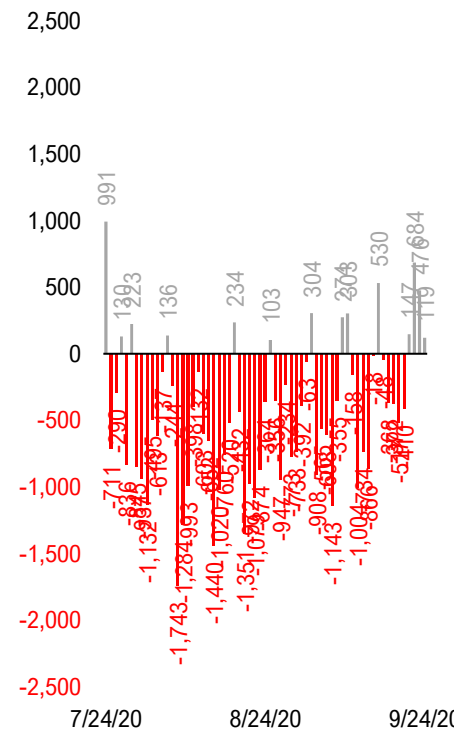
Daily New Cases
(8/10-8/23 ex-CA; 9/4-9/5 ex-IL)



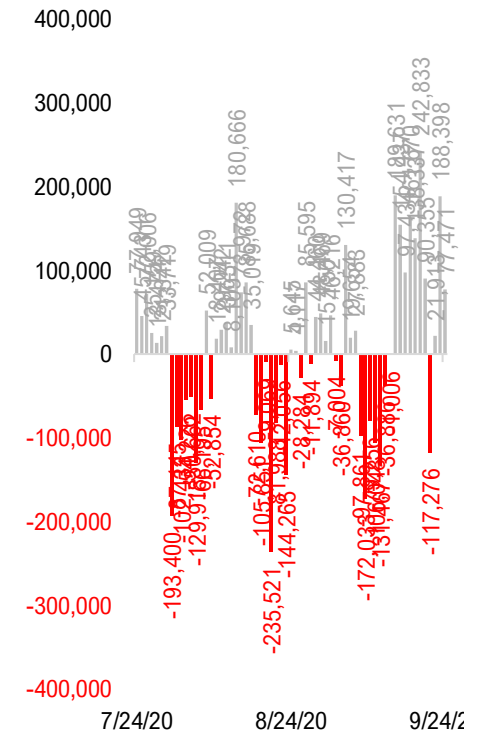
Daily Deaths



Daily Net Hospitalization
(Red = more discharge than admission)

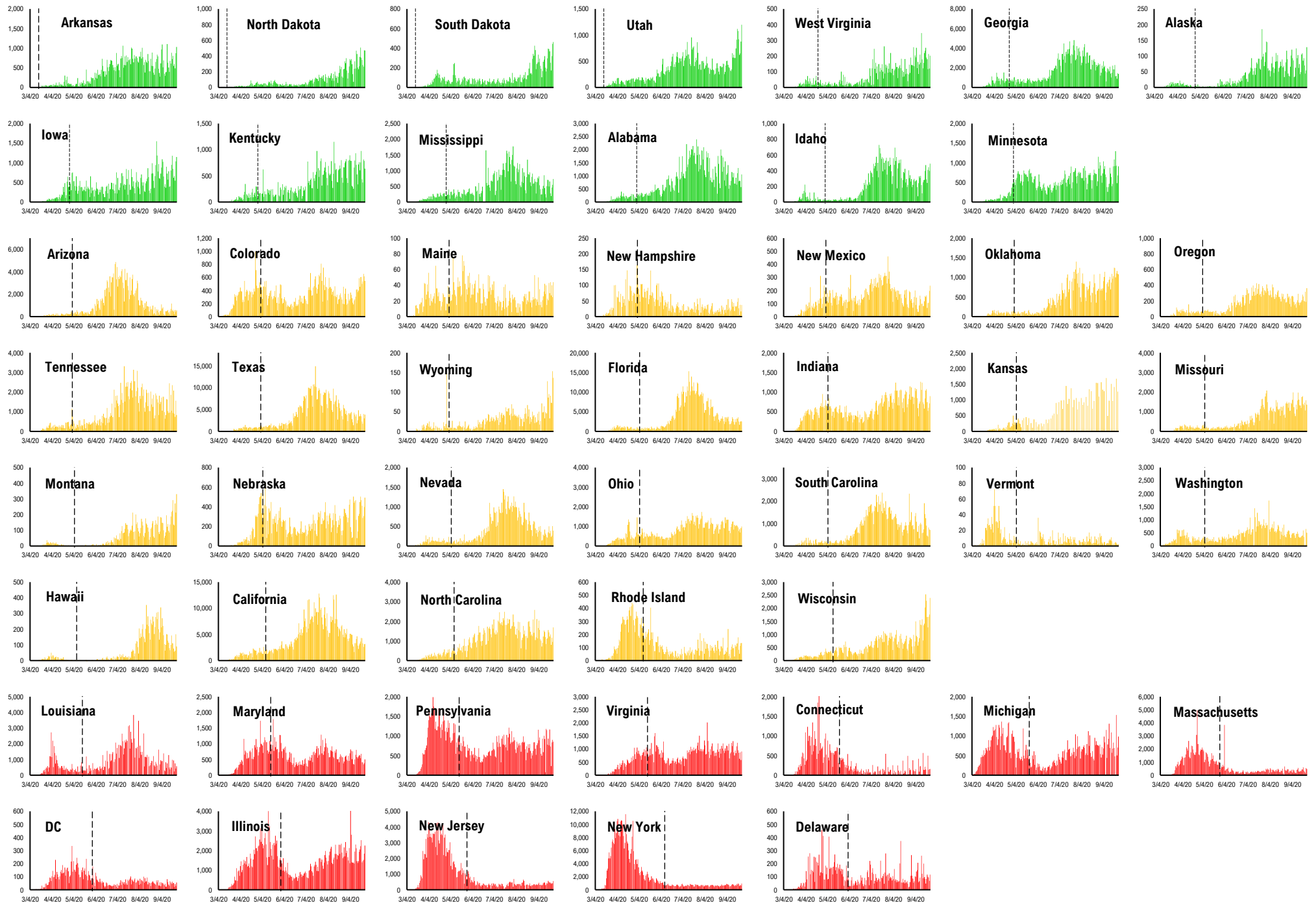


Daily Tests

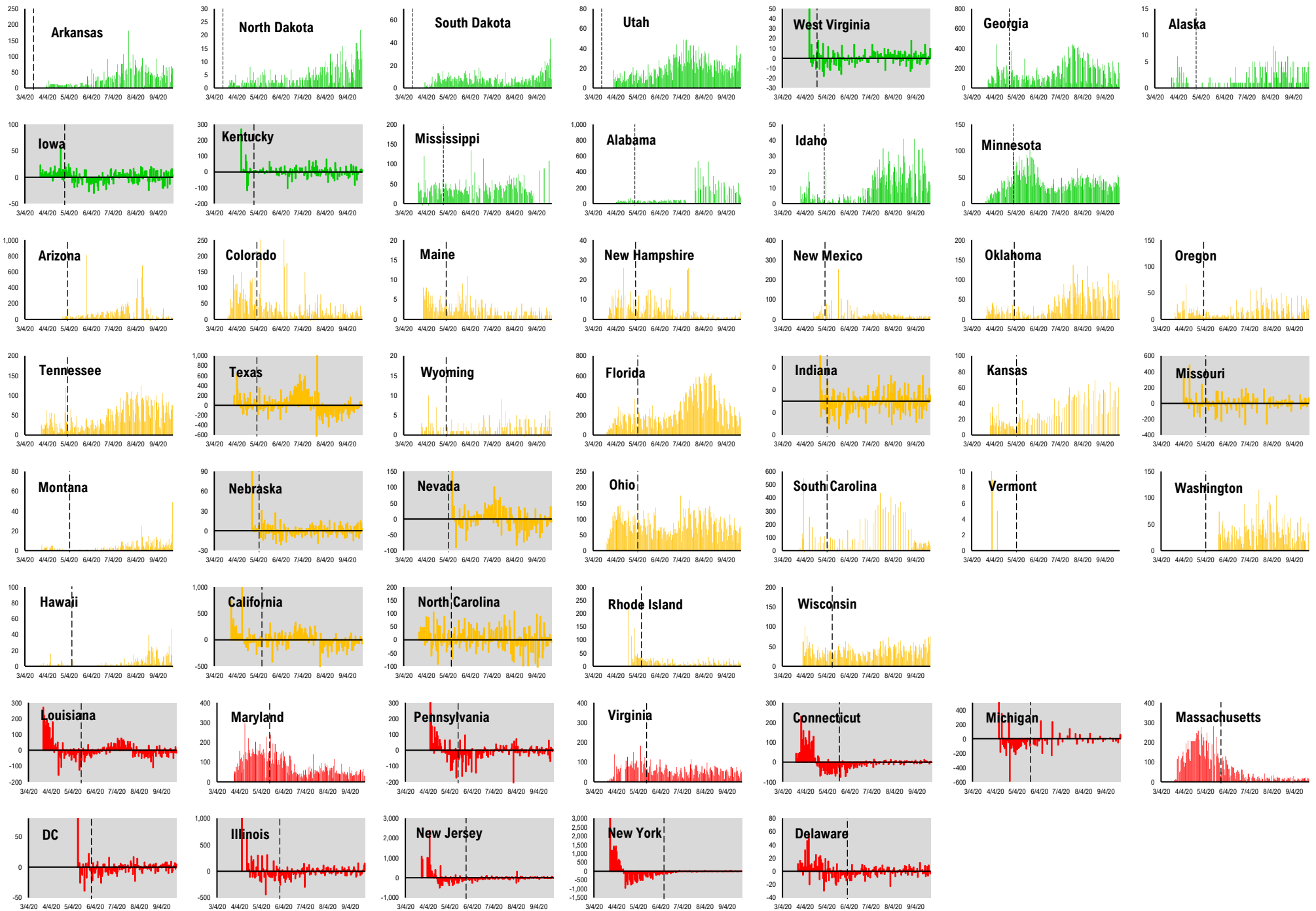


* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

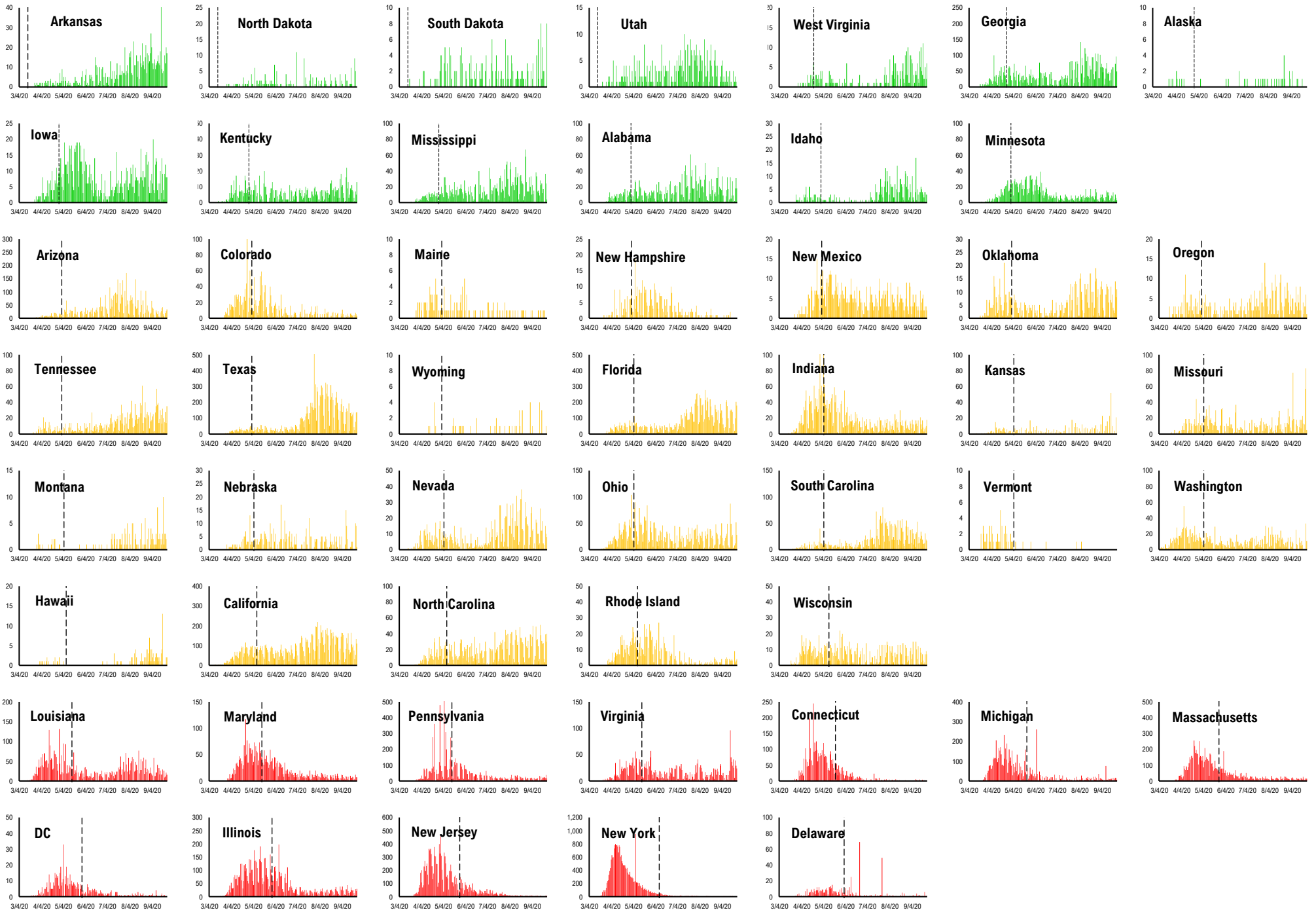
#10: Daily New Cases by States... (sorted by "open" date)



#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...

Daily Cases

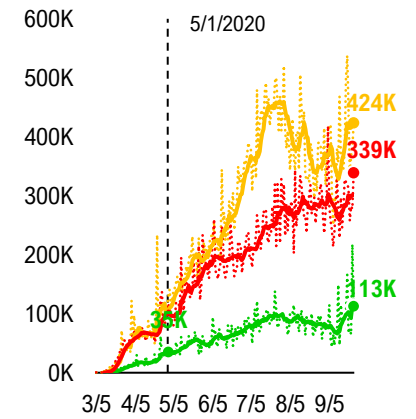
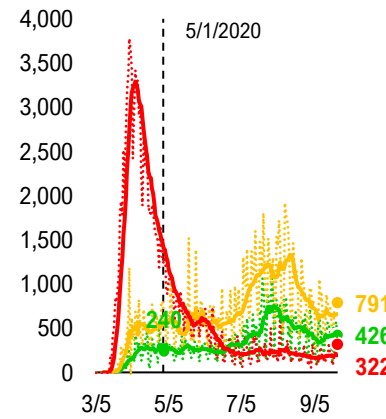
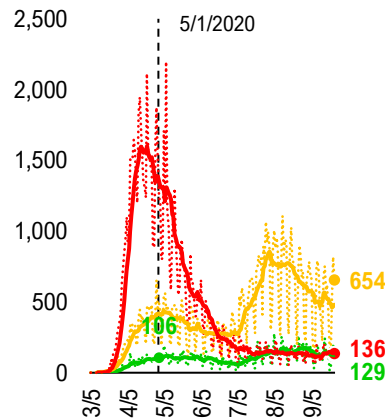
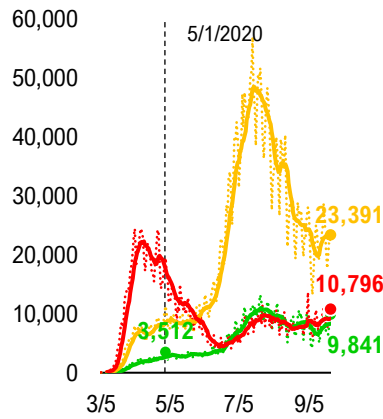
Daily Deaths

Daily Hospitalization

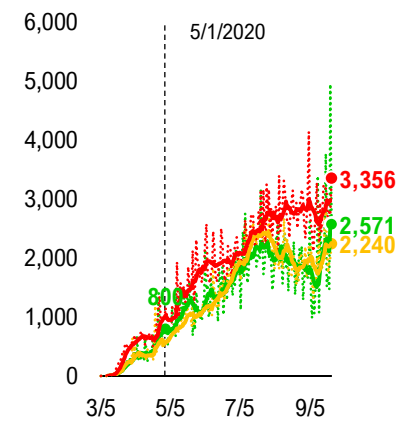
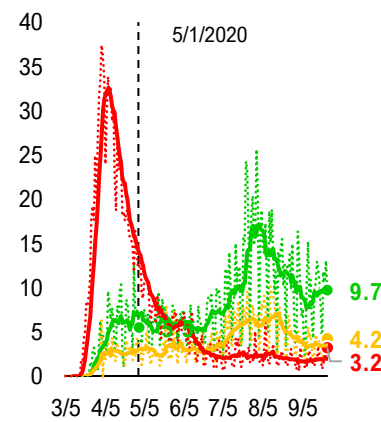
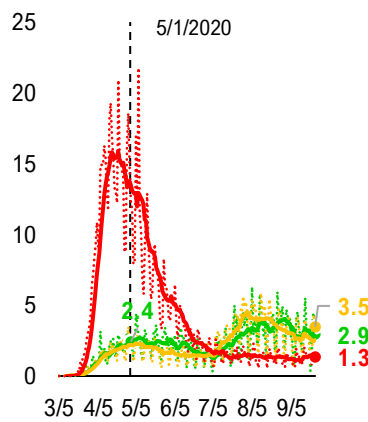
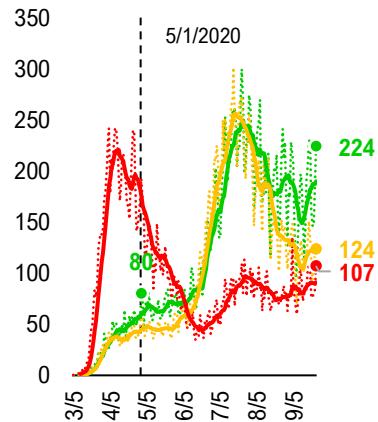
Daily Testing

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

Composite Daily Aggregate

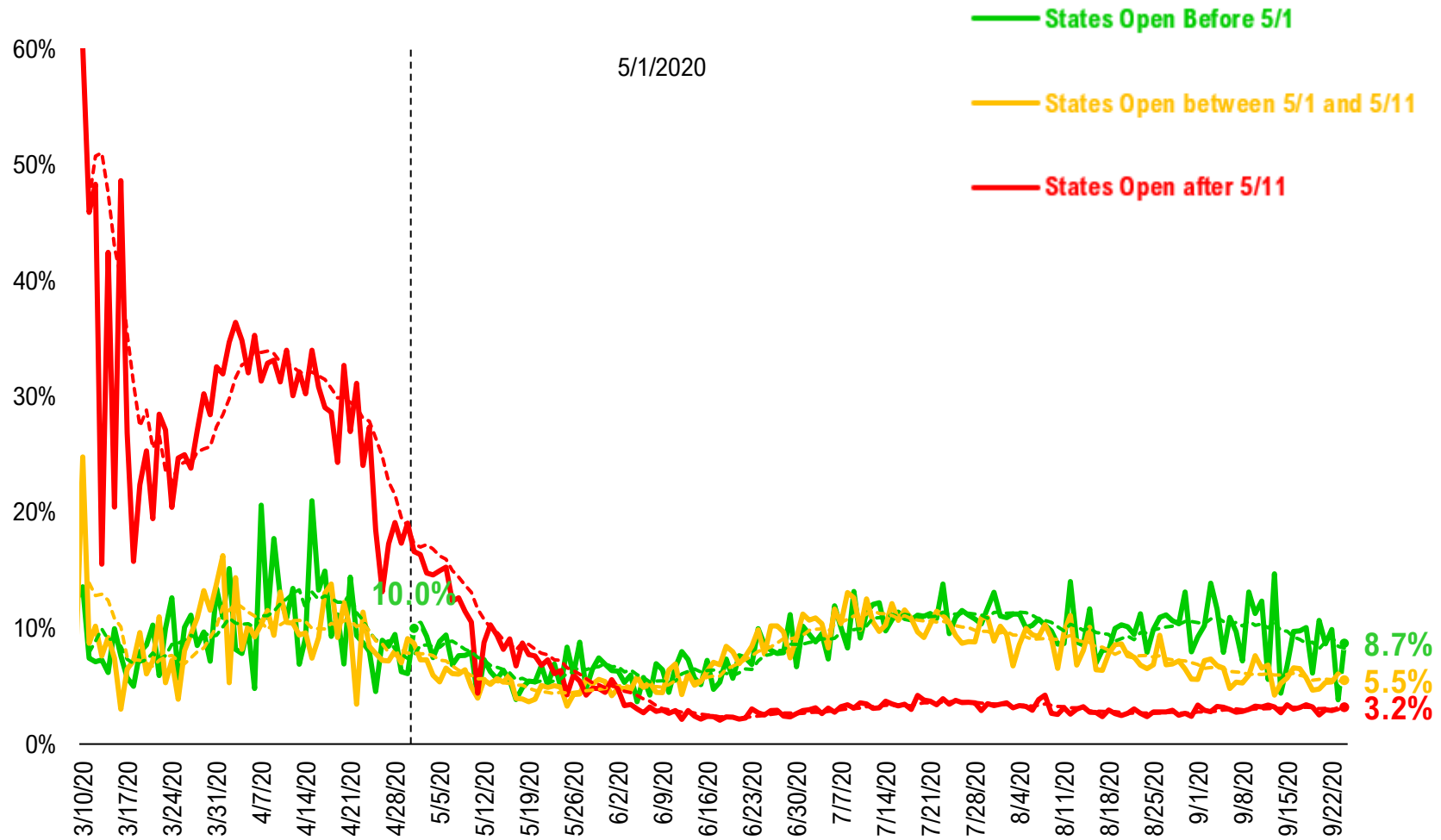


Composite Daily Aggregate Per 1mm Pop

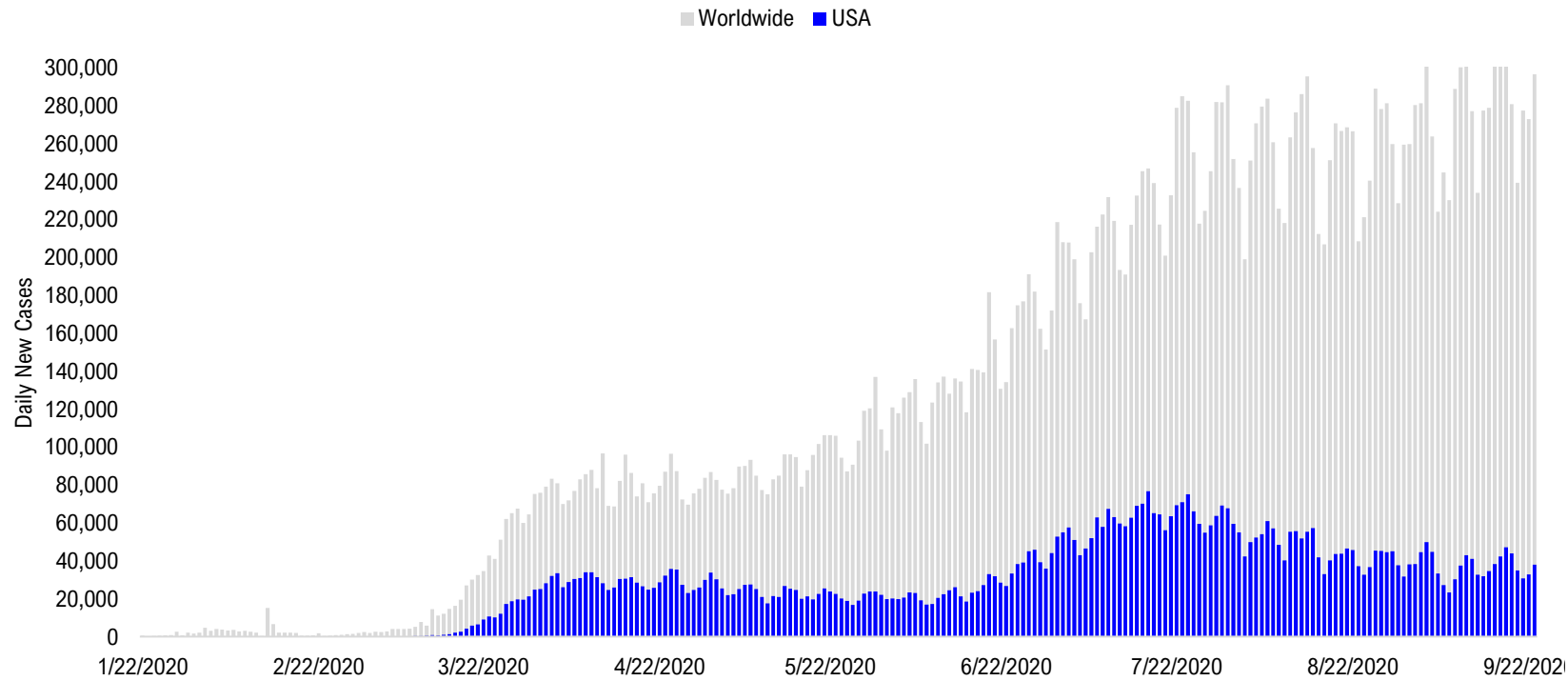


#14: State COVID-19 Daily Positivity Rate by Reopen Date...

Composite Daily Positivity Rate



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



5/8/2020	5/22/2020	6/5/2020	6/19/2020	7/3/2020	7/17/2020	7/31/2020	8/14/2020	8/28/2020	9/11/2020	9/23/2020
US + Canada 28,068	Latin America 33,875	Latin America 47,182	Latin America 58,570	Latin America 72,231	Latin America 72,602	Latin America 97,308	Latin America 100,636	Latin America 88,255	Pakistan + India + Bangladesh 98,888	Pakistan + India + Bangladesh 82,872
Europe 27,484	US + Canada 25,073	US + Canada 21,894	US + Canada 28,473	US + Canada 55,408	US + Canada 72,365	US + Canada 67,272	Pakistan + India + Bangladesh 68,924	Pakistan + India + Bangladesh 82,644	Latin America 83,501	Europe 66,333
Latin America 18,868	Europe 19,494	Europe 17,839	Pakistan + India + Bangladesh 22,981	Pakistan + India + Bangladesh 27,389	Pakistan + India + Bangladesh 39,450	Pakistan + India + Bangladesh 58,625	US + Canada 54,663	US + Canada 45,494	Europe 47,368	Latin America 61,579
Pakistan + India + Bangladesh 5,721	Pakistan + India + Bangladesh 9,981	Pakistan + India + Bangladesh 16,820	Europe 18,534	Europe 15,950	Africa 19,290	Europe 20,854	Europe 28,282	Europe 35,826	US + Canada 37,512	US + Canada 35,239
Africa 2,945	Africa 4,166	Africa 6,467	Africa 8,930	Africa 14,218	Europe 17,320	Africa 17,999	Africa 10,680	Asia ex- India+Pakistan 9,999	Asia ex- India+Pakistan 10,612	Asia ex- India+Pakistan 10,066
Asia ex- India+Pakistan 1,906	Asia ex- India+Pakistan 2,225	Asia ex- India+Pakistan 2,565	Asia ex- India+Pakistan 3,314	Asia ex- India+Pakistan 12,006	Asia ex- India+Pakistan 7,321	Asia ex- India+Pakistan 10,630	Asia ex- India+Pakistan 10,512	Africa 8,468	Africa 8,309	Africa 7,210

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