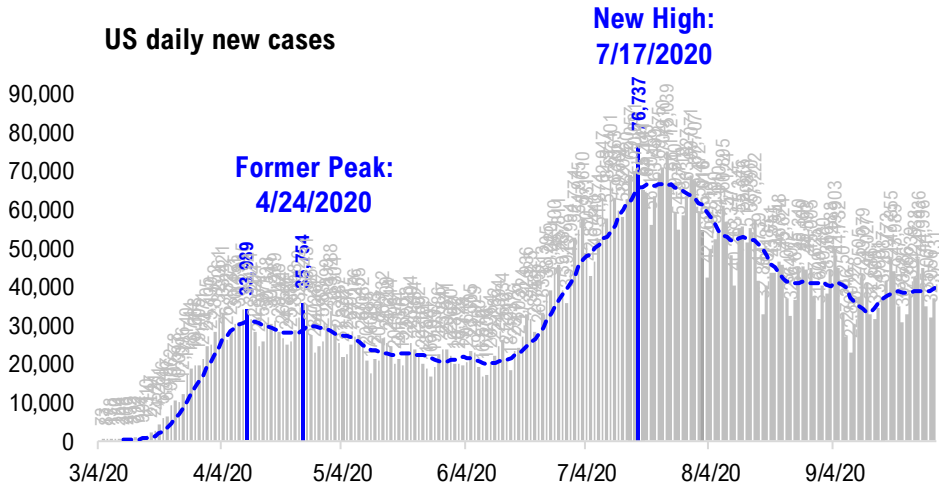


# FSInsight Daily COVID-19 Chartbook

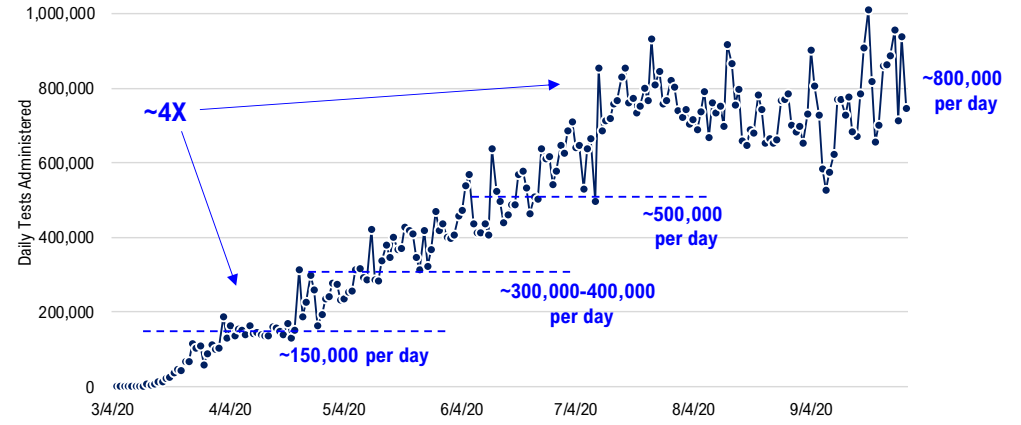


# #1: USA COVID-19 Situation at a Glance...

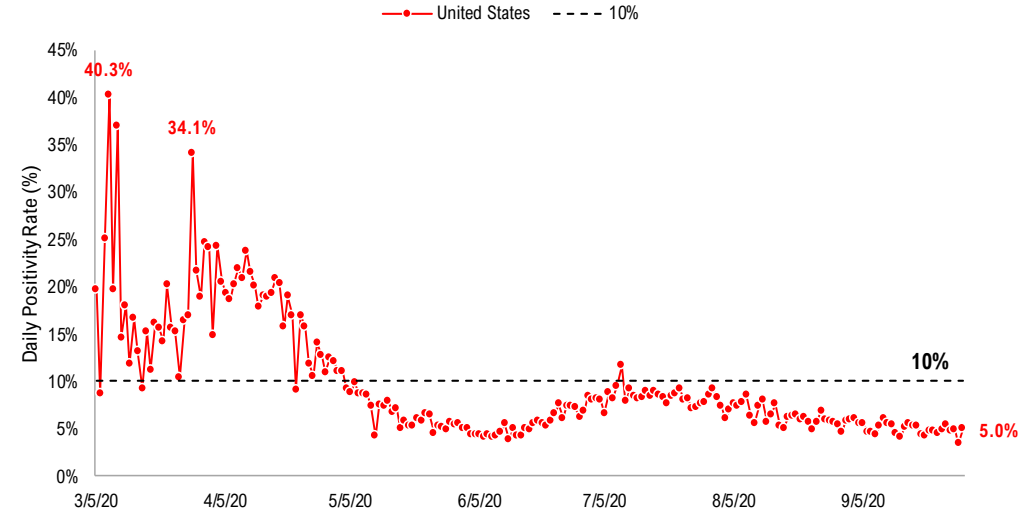
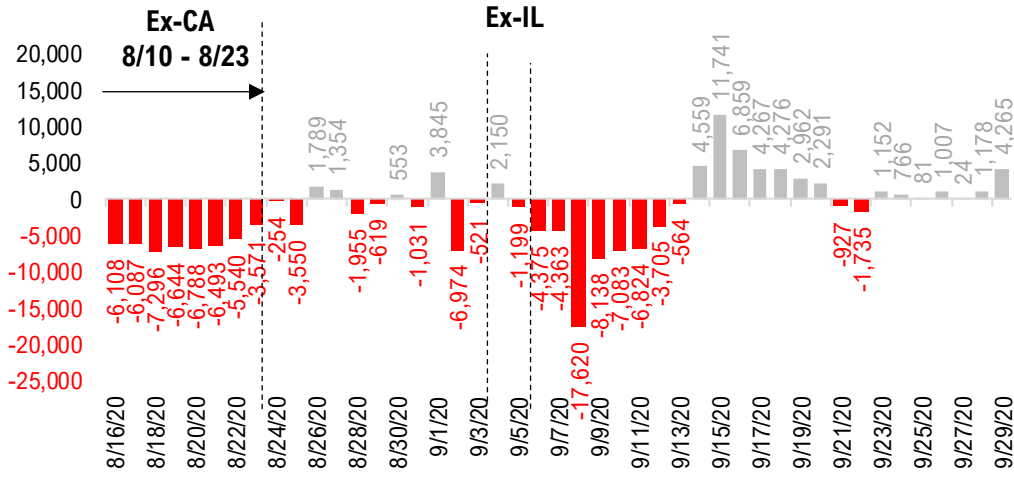
US daily new cases



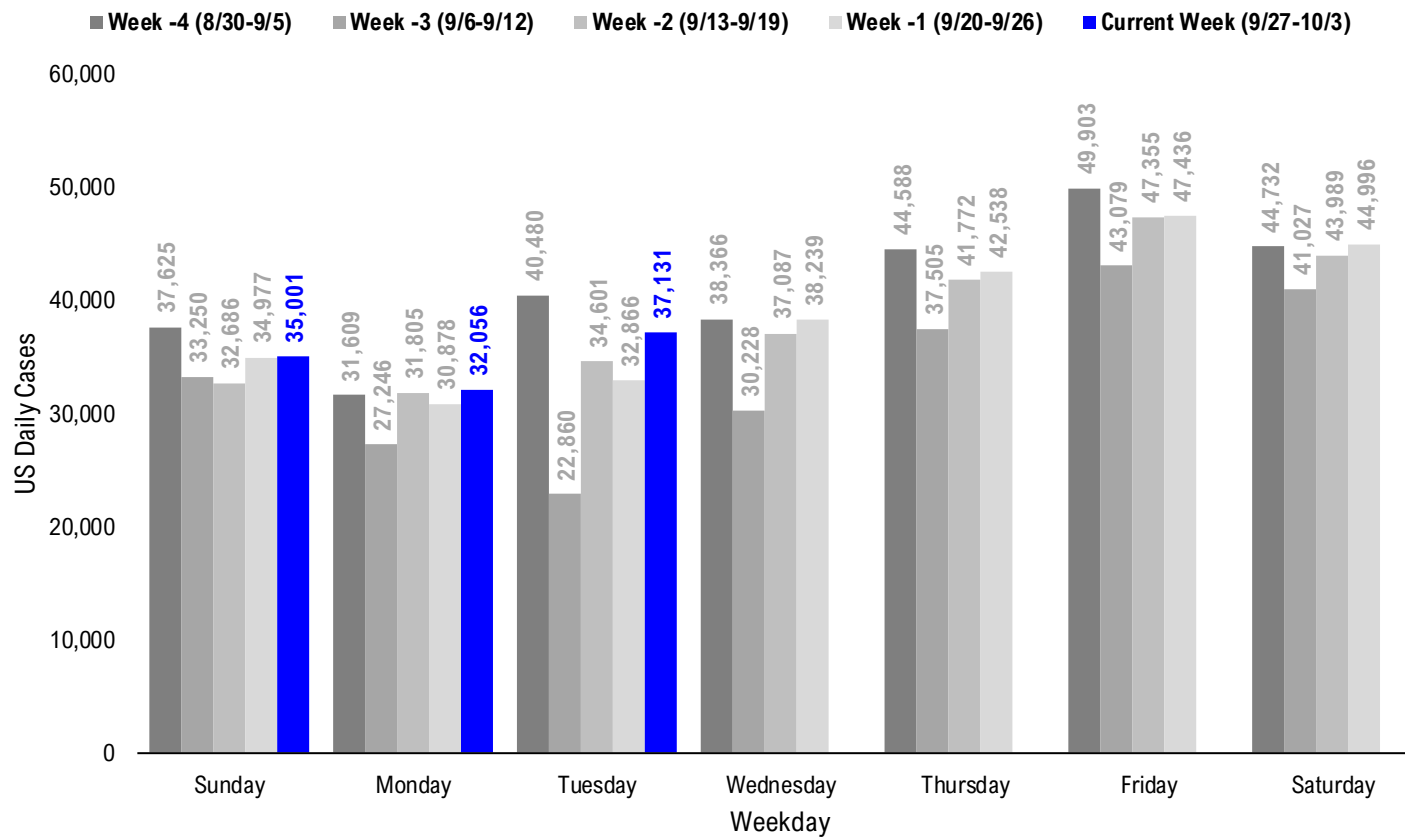
USA total COVID-19 tests administered



US daily new cases rolling 7D delta



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



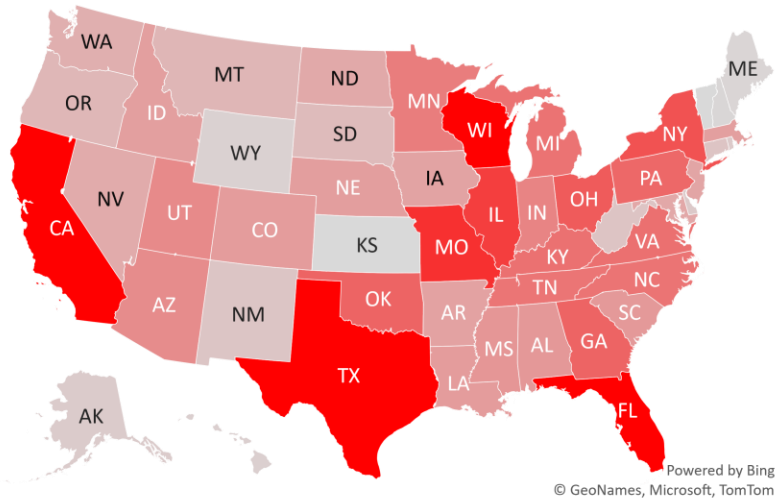
# #3: USA State COVID-19 Situation at a Glance...

		Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents		Since Peak		% Decline in Daily Cases	
		% US Pop	9/29/20	7D Delta	9/29/20	7D Delta	# Days	Cases	
United States		100%	37,131	+4,265	106	+6	74	-52%	
<b>States:</b>									
1	Texas	8.7%	3,812	-152	75	-17	74	-82%	
2	Florida	6.5%	3,266	+796	91	-12	78	-85%	
3	Wisconsin	1.8%	2,367	+695	361	+97	3	-18%	
4	California	11.9%	2,162	-468	78	-8	67	-73%	
5	Missouri	1.8%	1,486	+427	226	+17	61	-28%	
6	Illinois	3.8%	1,362	-169	123	+7	23	-52%	
7	New York	5.9%	1,189	+435	50	+12	172	-91%	
8	Ohio	3.5%	1,105	+420	83	+17	60	-38%	
9	Oklahoma	1.2%	1,025	-139	228	-47	63	-27%	
10	Georgia	3.2%	1,025	+143	76	-24	66	-81%	
11	Pennsylvania	3.9%	988	+154	67	+20	172	-52%	
12	Virginia	2.6%	923	+51	82	-10	51	-50%	
13	Kentucky	1.3%	917	+103	136	+15	3	-28%	
14	Michigan	3.0%	898	+394	74	+6	158	-40%	
15	North Carolina	3.2%	889	-279	97	-8	73	-54%	
16	Tennessee	2.1%	879	+140	182	+1	63	-55%	
17	Minnesota	1.7%	809	+329	165	+5	2	-25%	
18	Indiana	2.0%	744	+145	125	+32	16	-29%	
19	Utah	1.0%	694	+44	269	+41	3	-29%	
20	Arizona	2.2%	674	+79	62	+3	89	-89%	
21	Mississippi	0.9%	589	+124	108	+3	61	-79%	
22	Alabama	1.5%	571	-233	133	-31	66	-69%	
23	South Carolina	1.6%	564	-297	113	-15	79	-71%	
24	Colorado	1.7%	535	-119	88	-11	156	-30%	
25	Louisiana	1.4%	533	-219	122	-17	70	-79%	
26	Nebraska	0.6%	515	+210	244	+72	150	-8%	
27	Massachusetts	2.1%	512	+339	74	+36	157	-85%	
28	Idaho	0.5%	511	+65	212	+7	74	-44%	

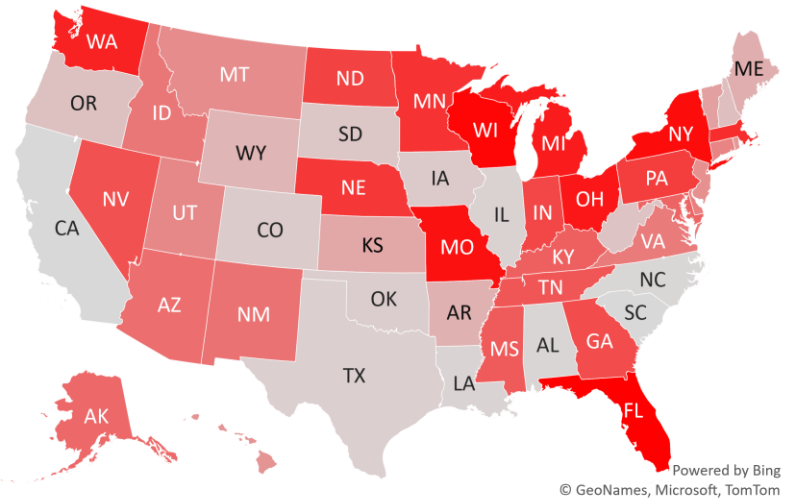
		Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents		Since Peak		% Decline in Daily Cases	
		% US Pop	9/29/20	7D Delta	9/29/20	7D Delta	# Days	Cases	
United States		100%	37,131	+4,265	106	+6	74	-52%	
<b>States:</b>									
29	Arkansas	0.9%	482	-4	193	+12	66	-36%	
30	Iowa	1.0%	474	-74	162	-31	32	-58%	
31	New Jersey	2.7%	456	+30	64	+17	177	-86%	
32	Puerto Rico	1.0%	444	+356	171	+109	3	-5%	
33	Maryland	1.8%	431	+87	74	+9	131	-64%	
34	North Dakota	0.2%	418	+154	447	+52	3	-27%	
35	Nevada	0.9%	404	+142	134	+39	73	-69%	
36	Washington	2.3%	369	+369	62	+47	76	-54%	
37	Montana	0.3%	311	+40	255	+87	3	-18%	
38	Oregon	1.3%	297	-21	56	-0	59	-35%	
39	South Dakota	0.3%	259	-61	326	+45	3	-42%	
40	Connecticut	1.1%	182	+46	69	+10	160	-84%	
41	West Virginia	0.5%	180	-33	99	+4	17	-25%	
42	New Mexico	0.6%	172	+65	74	+30	62	-57%	
43	Delaware	0.3%	142	+48	128	+22	154	-62%	
44	Rhode Island	0.3%	132	+20	86	+8	157	-79%	
45	Alaska	0.2%	124	+80	161	+67	58	-12%	
46	Hawaii	0.4%	87	+25	64	+18	31	-69%	
47	Wyoming	0.2%	67	-5	205	+69	4	-12%	
48	Guam	0.0%	53	+10	179	+32	33	-73%	
49	Maine	0.4%	37	-3	19	-8	130	-63%	
50	District of Columbia	0.2%	36	-7	40	-16	149	-88%	
51	New Hampshire	0.4%	25	-13	27	+10	150	-70%	
52	Vermont	0.2%	4	+2	5	-1	177	-95%	
53	U.S. Virgin Islands	0.0%	1	-6	69	-37	39	-84%	
54	Northern Mariana Islands	0.0%	0	+0	6	-35	7	-86%	
55	Kansas	0.9%	0	+0	233	+42	34	-34%	
56	American Samoa	0.0%	0	+0		+0	-	-	

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

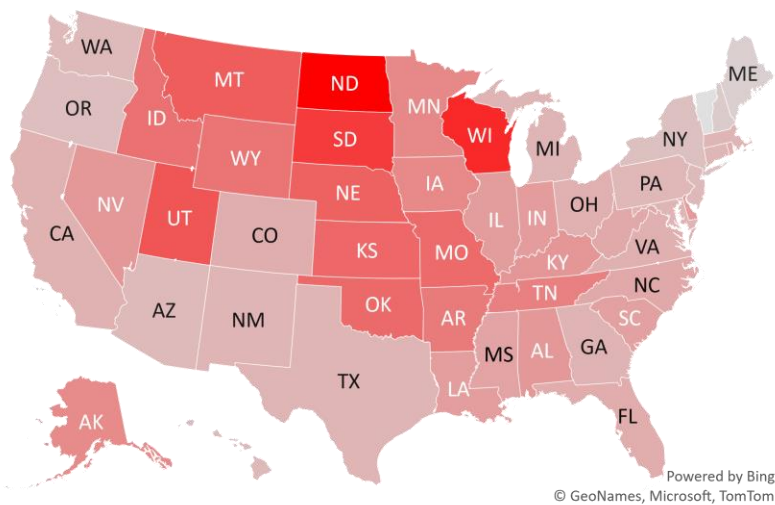
### Daily Case Increases



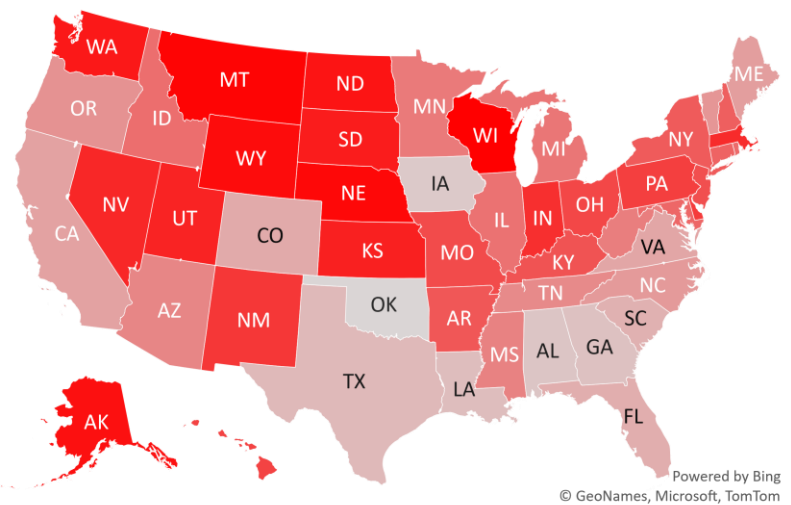
### 7D Delta in Daily New Cases



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



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



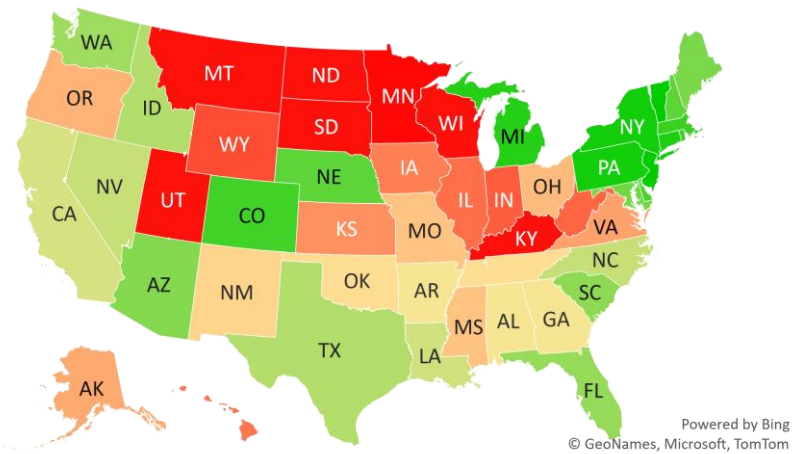
# #5: # of Days since Daily Case Peaked by States...

## # Days since Daily Cases (3D Avg) Peak (as of 9/29)

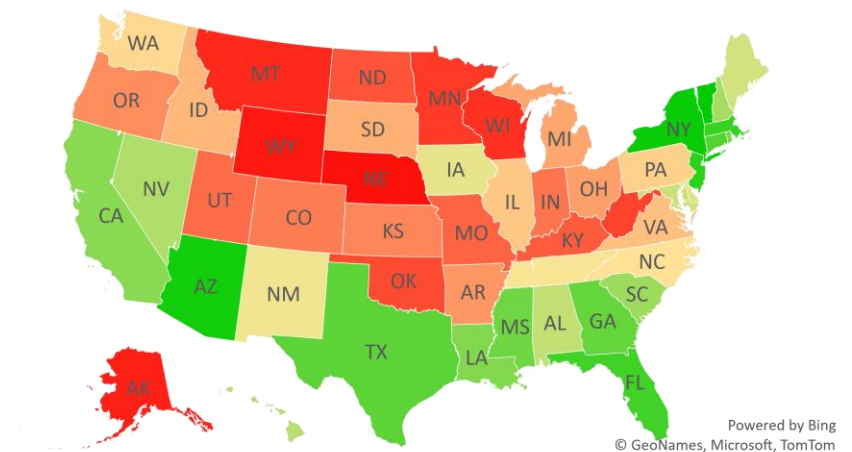
	Sorted			
	Peak Date	9/29/20	% off the Peak	% US Pop
United States	7/17/20	74	-52%	100%
<b>States:</b>				
Vermont	4/5/20	177	-95%	0.2%
New Jersey	4/5/20	177	-86%	2.7%
Pennsylvania	4/10/20	172	-52%	3.9%
New York	4/10/20	172	-91%	5.9%
Connecticut	4/22/20	160	-84%	1.1%
Michigan	4/24/20	158	-40%	3.0%
Rhode Island	4/25/20	157	-79%	0.3%
Massachusetts	4/25/20	157	-85%	2.1%
Colorado	4/26/20	156	-30%	1.7%
Delaware	4/28/20	154	-62%	0.3%
New Hampshire	5/2/20	150	-70%	0.4%
Nebraska	5/2/20	150	-8%	0.6%
District of Columbia	5/3/20	149	-88%	0.2%
Maryland	5/21/20	131	-64%	1.8%
Maine	5/22/20	130	-63%	0.4%
Arizona	7/2/20	89	-89%	2.2%
South Carolina	7/12/20	79	-71%	1.6%
Florida	7/13/20	78	-85%	6.5%
Washington	7/15/20	76	-54%	2.3%
Texas	7/17/20	74	-82%	8.7%
Idaho	7/17/20	74	-44%	0.5%
Nevada	7/18/20	73	-69%	0.9%
North Carolina	7/18/20	73	-54%	3.2%
Louisiana	7/21/20	70	-79%	1.4%
California	7/24/20	67	-73%	11.9%
Georgia	7/25/20	66	-81%	3.2%
Arkansas	7/25/20	66	-36%	0.9%
Alabama	7/25/20	66	-69%	1.5%

	Sorted			
	Peak Date	9/29/20	% off the Peak	% US Pop
United States	7/17/20	74	-52%	100%
<b>States:</b>				
Tennessee	7/28/20	63	-55%	2.1%
Oklahoma	7/28/20	63	-27%	1.2%
New Mexico	7/29/20	62	-57%	0.6%
Mississippi	7/30/20	61	-79%	0.9%
Missouri	7/30/20	61	-28%	1.8%
Ohio	7/31/20	60	-38%	3.5%
Oregon	8/1/20	59	-35%	1.3%
Alaska	8/2/20	58	-12%	0.2%
Virginia	8/9/20	51	-50%	2.6%
U.S. Virgin Islands	8/21/20	39	-84%	0.0%
Kansas	8/26/20	34	-34%	0.9%
Guam	8/27/20	33	-73%	0.0%
Iowa	8/28/20	32	-58%	1.0%
Hawaii	8/29/20	31	-69%	0.4%
Illinois	9/6/20	23	-52%	3.8%
West Virginia	9/12/20	17	-25%	0.5%
Indiana	9/13/20	16	-29%	2.0%
Northern Mariana Island	9/22/20	7	-86%	0.0%
Wyoming	9/25/20	4	-12%	0.2%
Wisconsin	9/26/20	3	-18%	1.8%
Utah	9/26/20	3	-29%	1.0%
South Dakota	9/26/20	3	-42%	0.3%
Puerto Rico	9/26/20	3	-5%	1.0%
North Dakota	9/26/20	3	-27%	0.2%
Montana	9/26/20	3	-18%	0.3%
Kentucky	9/26/20	3	-28%	1.3%
Minnesota	9/27/20	2	-25%	1.7%

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



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



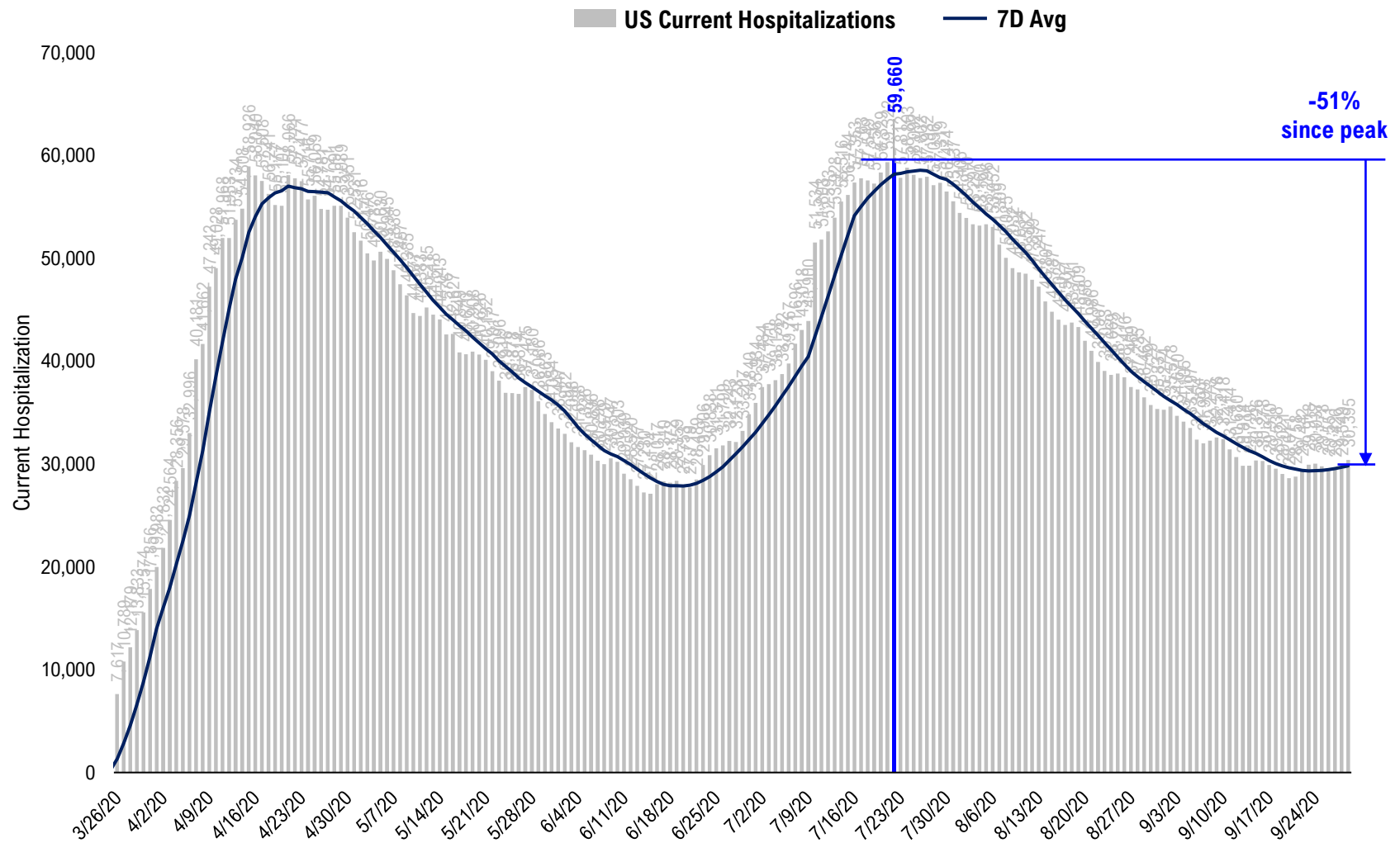
# #6: US New Cases by States... (sorted by today's new cases)

	Sorted				
	7D Ago	Last 3-day Trend			
	9/22/20	9/27/20	9/28/20	9/29/20	vs 7D ago
United States	32,866	35,001	32,056	37,131	+4,265
<b>States:</b>					
Texas	3,964	1,292	1,397	3,812	
Florida	2,470	1,882	738	3,266	<--higher
Wisconsin	1,672	2,217	1,726	2,367	<--higher
California	2,630	4,071	2,955	2,162	
Missouri	1,059	1,392	1,280	1,486	<--higher
Illinois	1,531	1,604	1,709	1,362	
New York	754	866	834	1,189	<--higher
Ohio	685	800	993	1,105	<--higher
Oklahoma	1,164	823	861	1,025	
Georgia	882	812	596	1,025	
Pennsylvania	834	918	676	988	
Virginia	872	736	449	923	
Kentucky	814	455	448	917	
Michigan	504	0	1,308	898	<--higher
North Carolina	1,168	1,290	868	889	
Tennessee	739	2,104	737	879	
Minnesota	480	1,075	904	809	<--higher
Indiana	599	901	872	744	<--higher
Utah	650	1,068	827	694	
Arizona	595	411	273	674	
Mississippi	465	182	190	589	<--higher
Alabama	804	730	662	571	
South Carolina	861	577	612	564	
Colorado	654	569	411	535	
Louisiana	752	923	240	533	
Nebraska	305	434	467	515	<--higher
Massachusetts	173	592	430	512	<--higher
Idaho	446	205	422	511	

	Sorted				
	7D Ago	Last 3-day Trend			
	9/22/20	9/27/20	9/28/20	9/29/20	vs 7D ago
United States	32,866	35,001	32,056	37,131	+4,265
<b>States:</b>					
Arkansas	486	475	786	482	
Iowa	548	692	366	474	
New Jersey	426	698	559	456	
Puerto Rico	88	533	660	444	<--higher
Maryland	344	431	477	431	<--higher
North Dakota	264	344	259	418	<--higher
Nevada	262	373	463	404	<--higher
Washington	0	604	439	369	
Montana	271	200	306	311	
Oregon	318	239	174	297	
South Dakota	320	408	197	259	
Connecticut	136	0	560	182	<--higher
West Virginia	213	190	164	180	
New Mexico	107	152	141	172	<--higher
Delaware	94	104	129	142	<--higher
Rhode Island	112	114	26	132	
Alaska	44	114	116	124	<--higher
Hawaii	62	95	90	87	<--higher
Wyoming	72	168	121	67	
Guam	43	0	36	53	<--higher
Maine	40	28	12	37	
District of Columbia	43	35	14	36	
New Hampshire	38	51	36	25	
Vermont	2	2	3	4	<--higher
U.S. Virgin Islands	7	21	0	1	
Northern Mariana Islands	0	1	0	0	
Kansas	0	0	2,037	0	
American Samoa	0	0	0	0	

# #7: US Daily Hospitalizations...

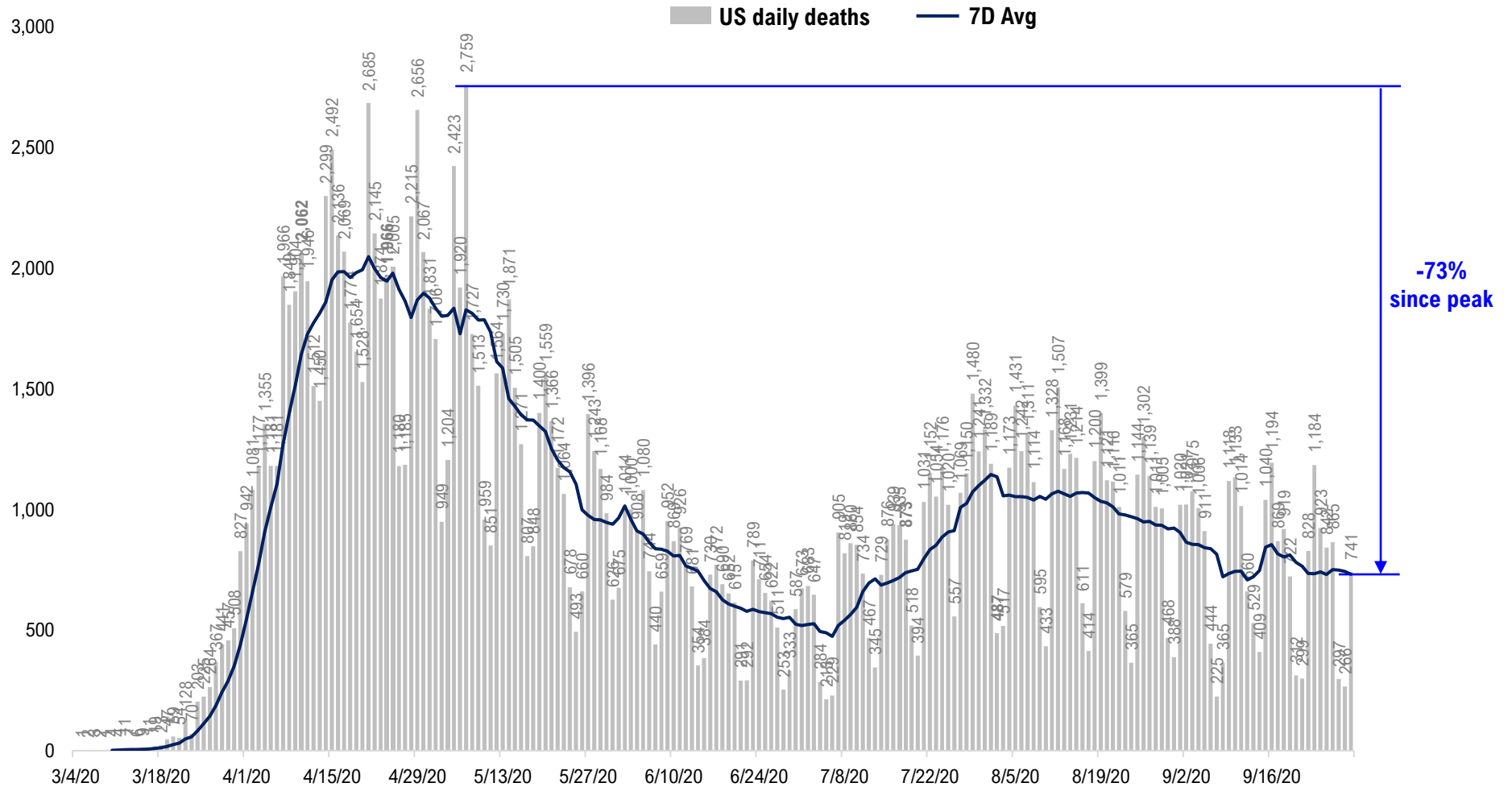
## US Net Hospitalizations (aggregate of 50 states + Washington, D.C.)





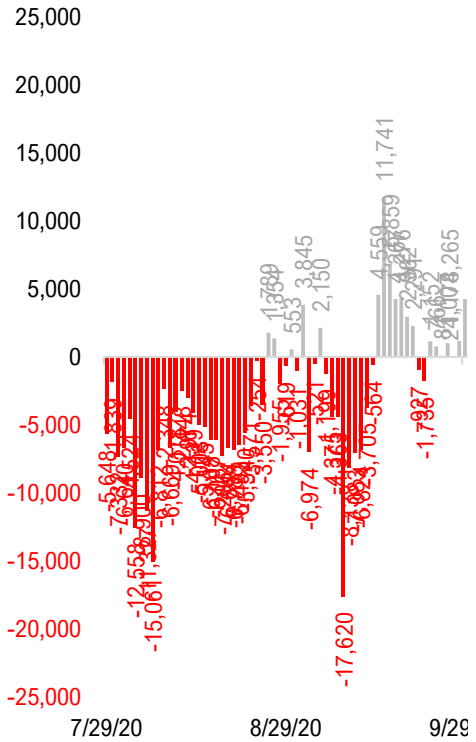
# #8: US Daily New Fatalities...

## US daily COVID-19 Fatalities

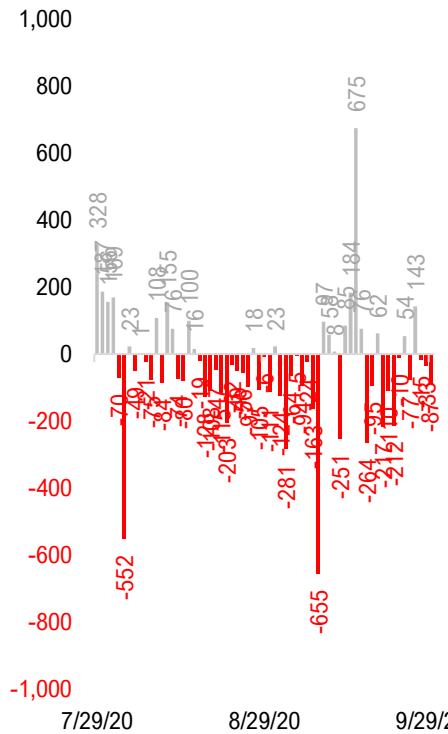


# #9: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

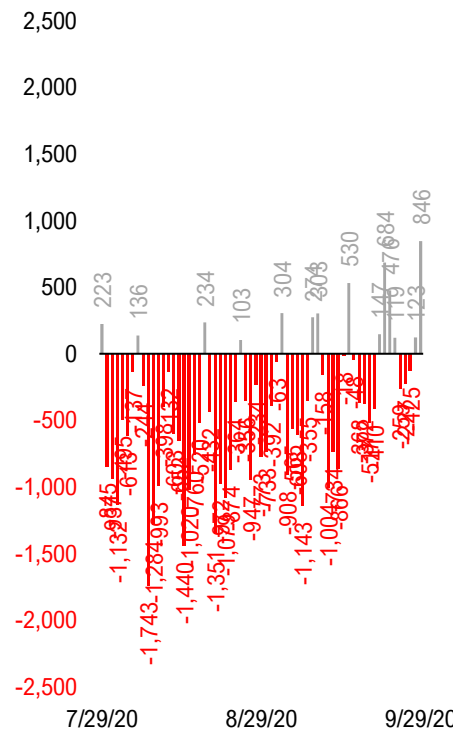
**Daily New Cases**  
(8/10-8/23 ex-CA; 9/4-9/5 ex-IL)



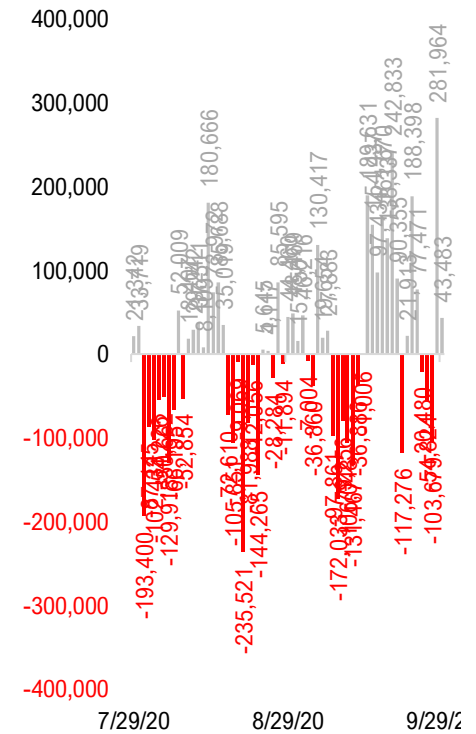
**Daily Deaths**



**Daily Net Hospitalization**  
(Red = more discharge than admission)

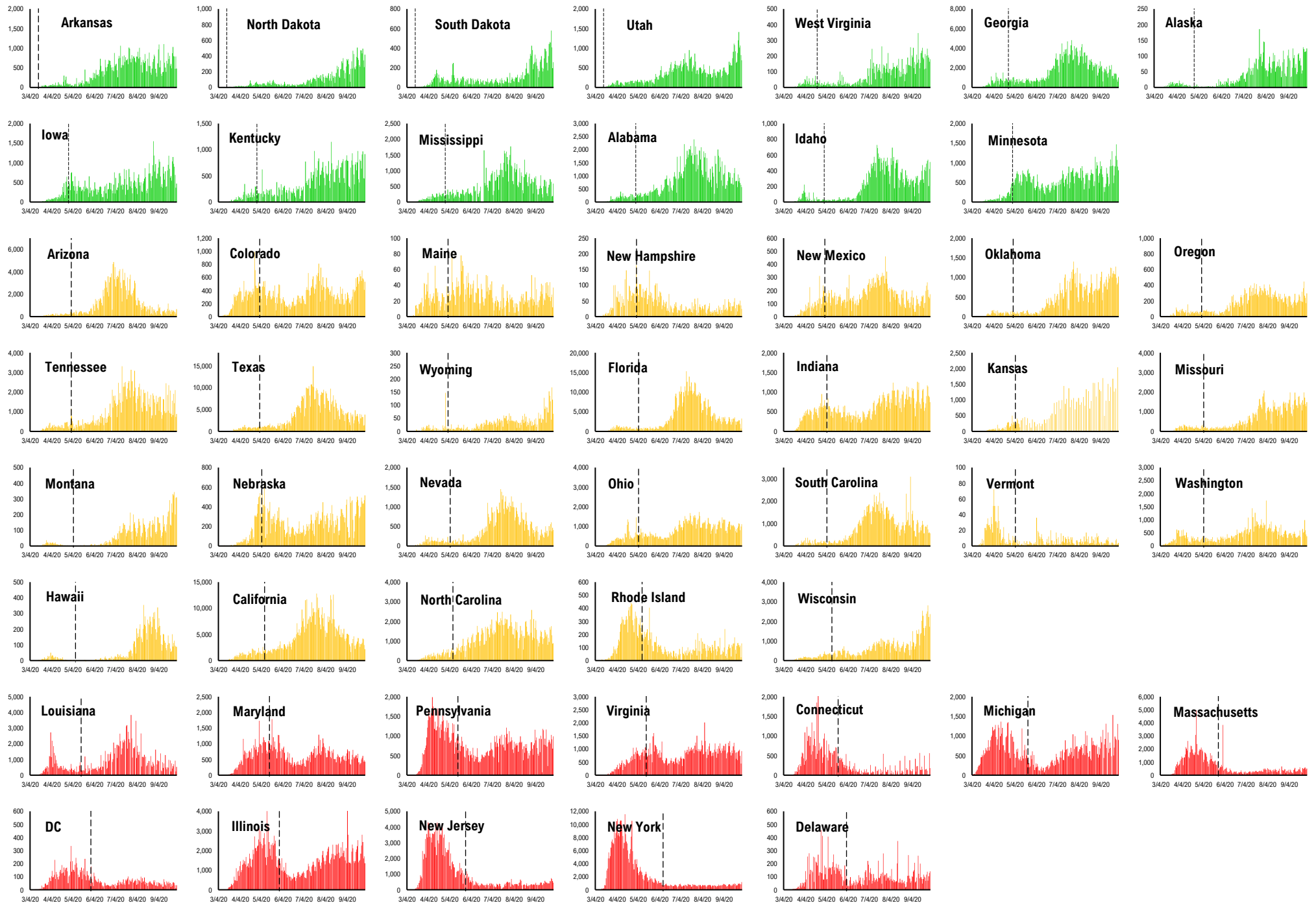


**Daily Tests**

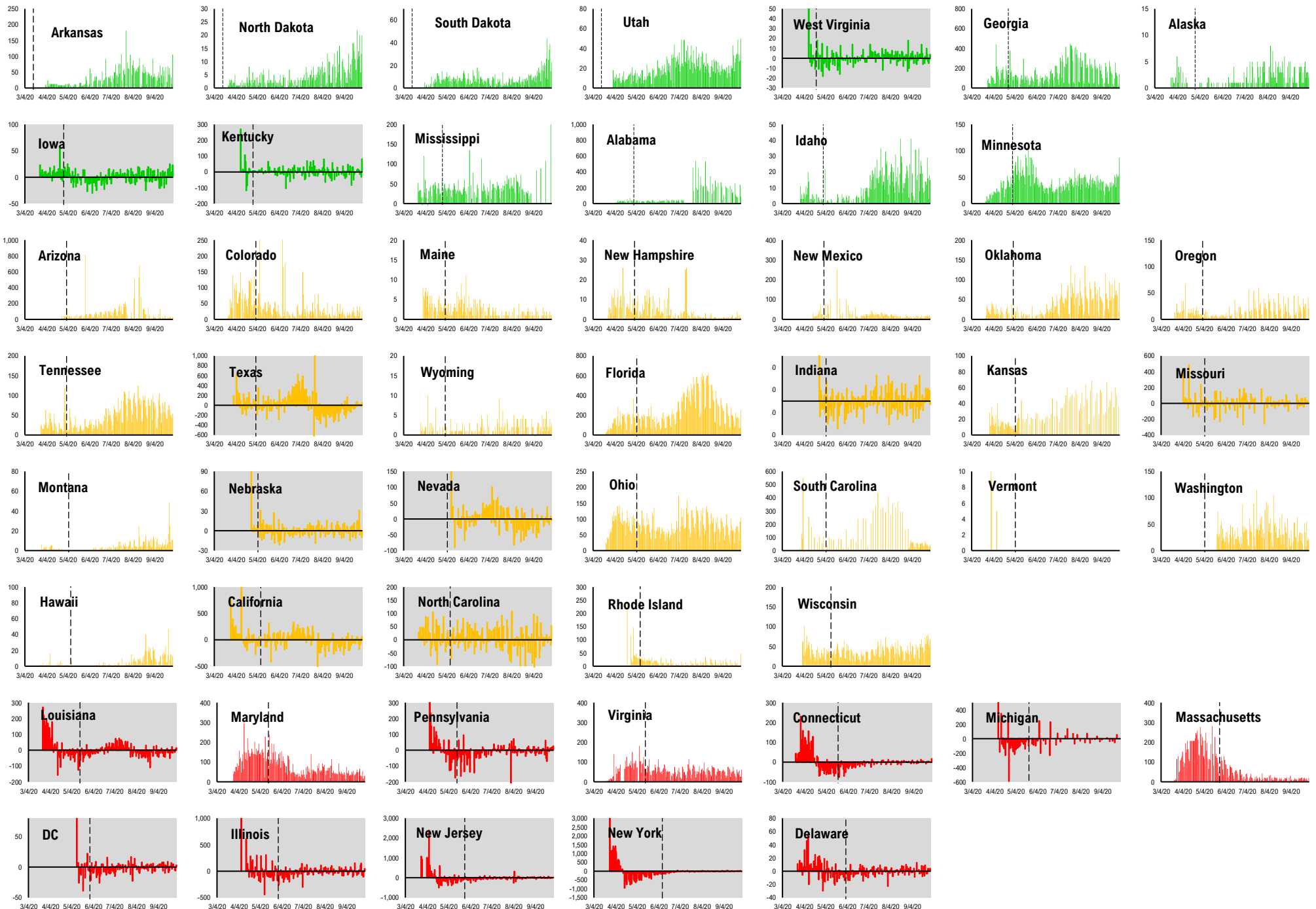


\* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog  
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

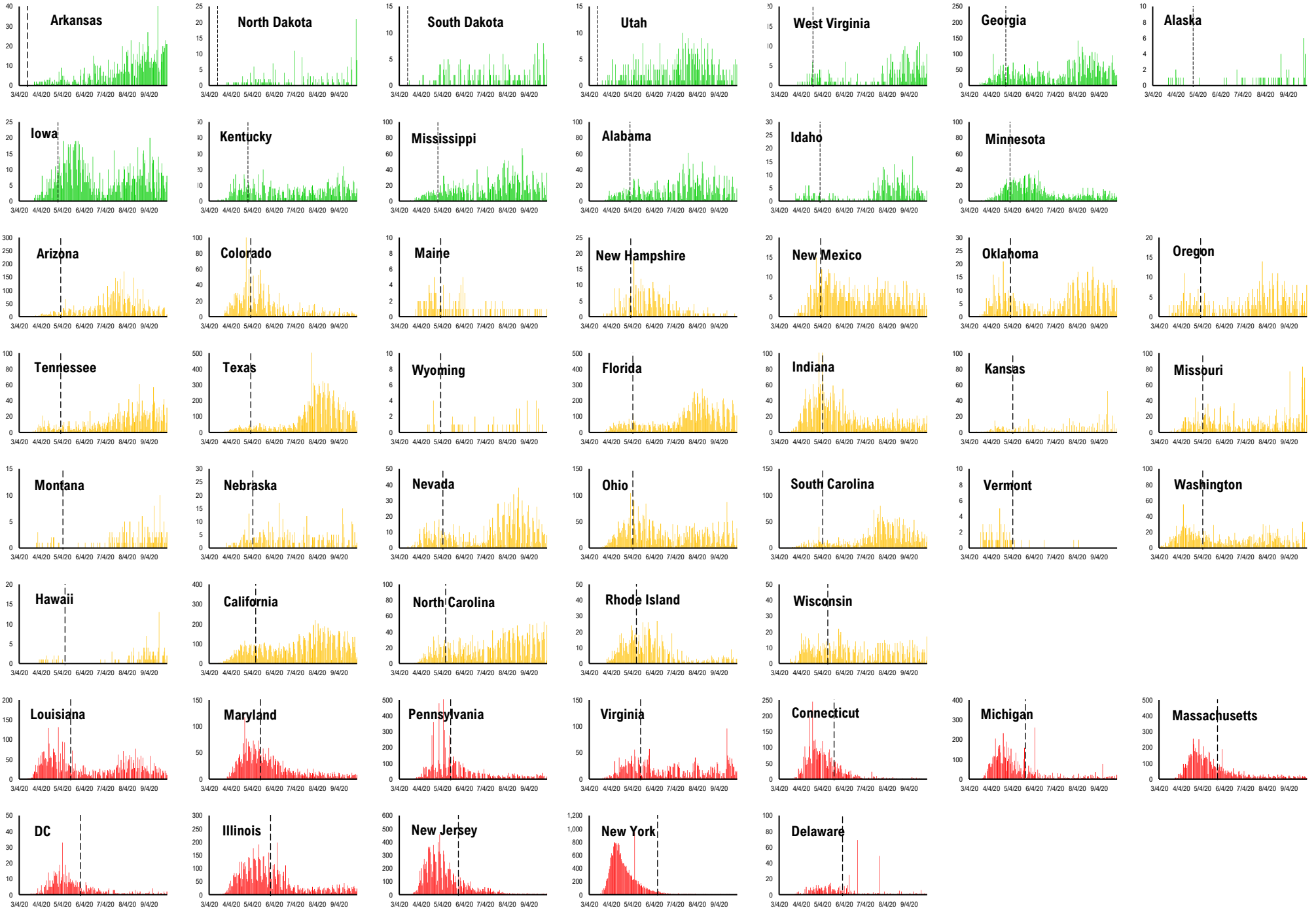
# #10: Daily New Cases by States... (sorted by "open" date)



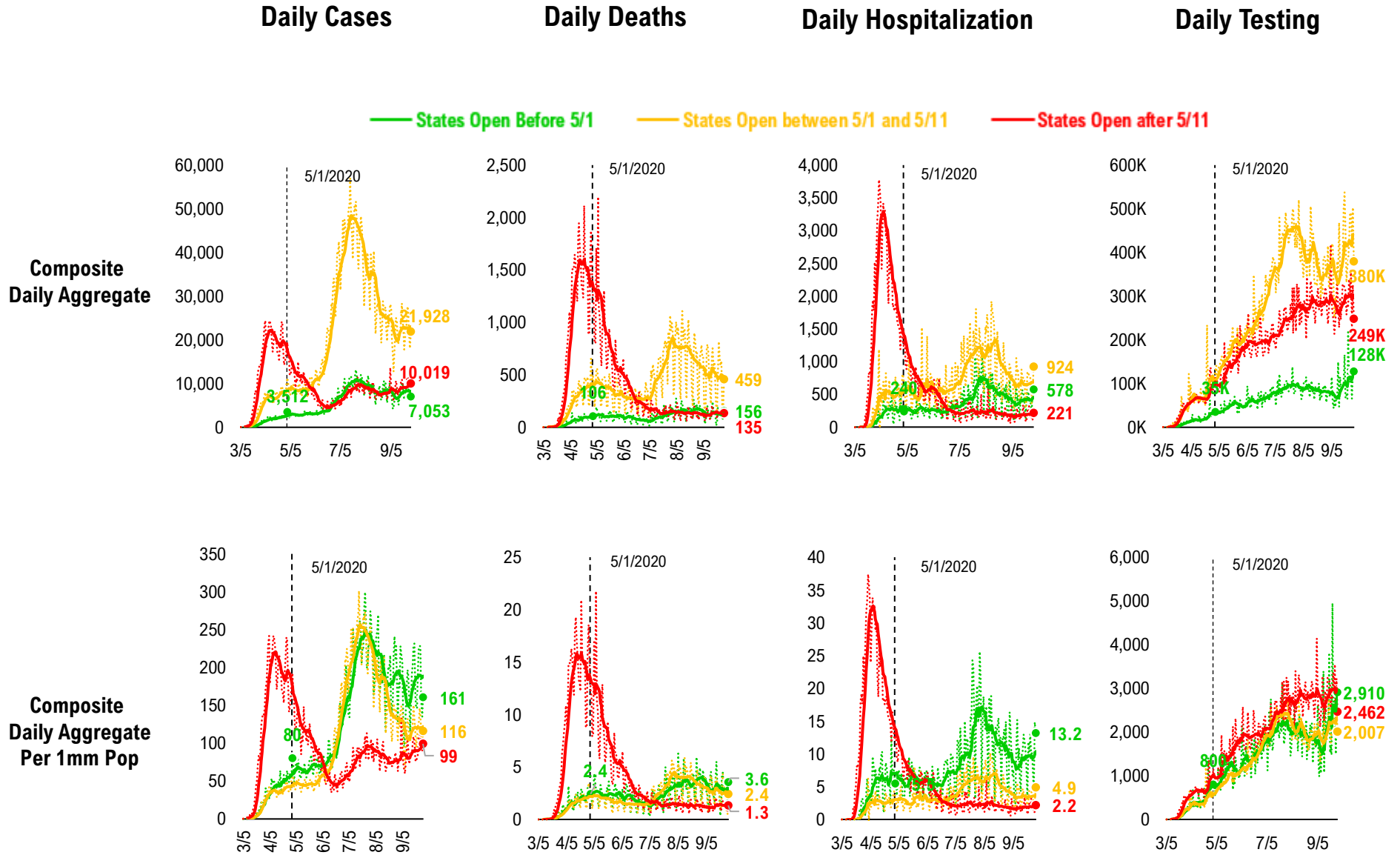
# #11: Daily Hospitalizations by States... (sorted by "open" date)



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

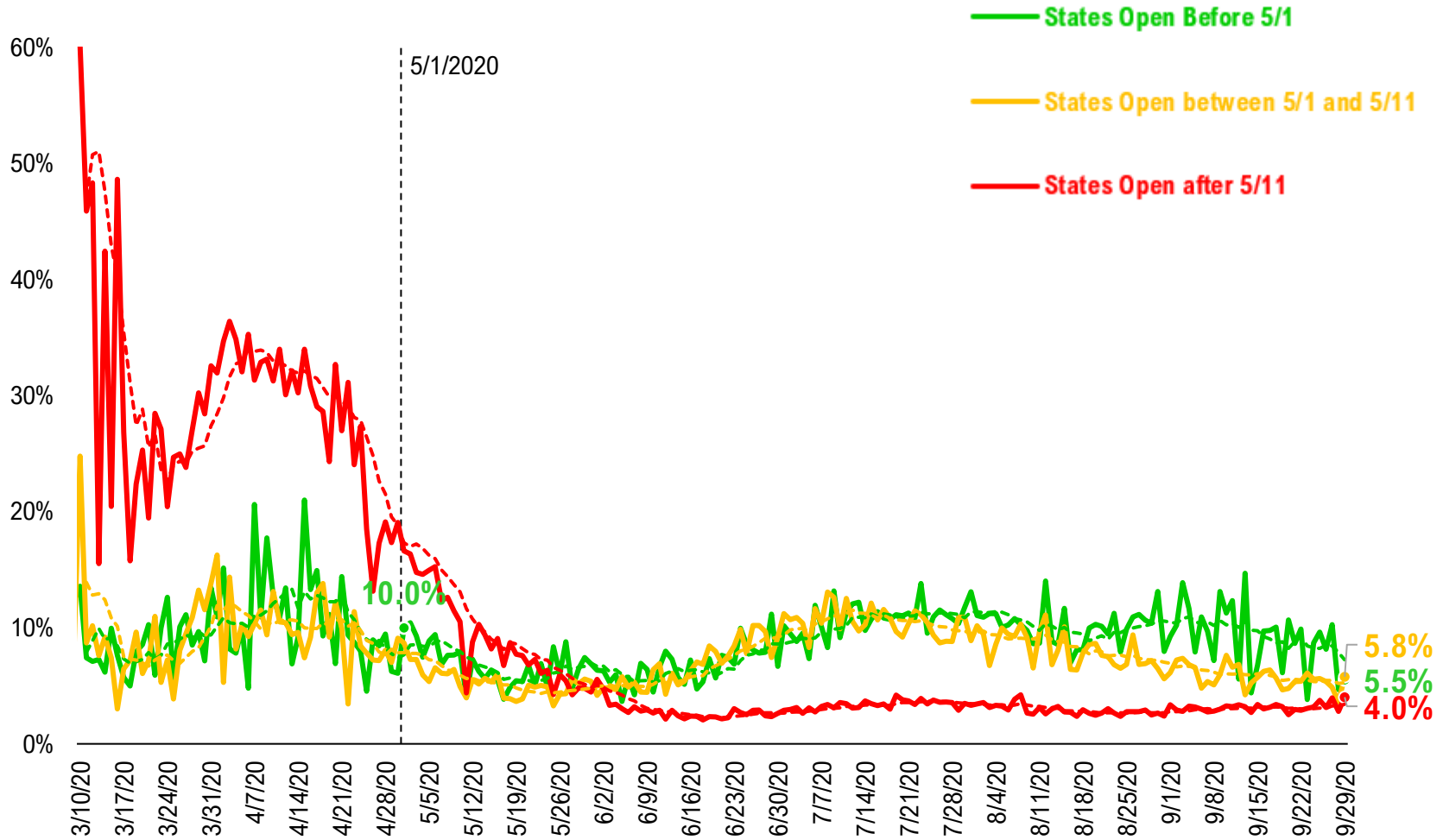


# #13: State COVID-19 situation by Reopen Date...

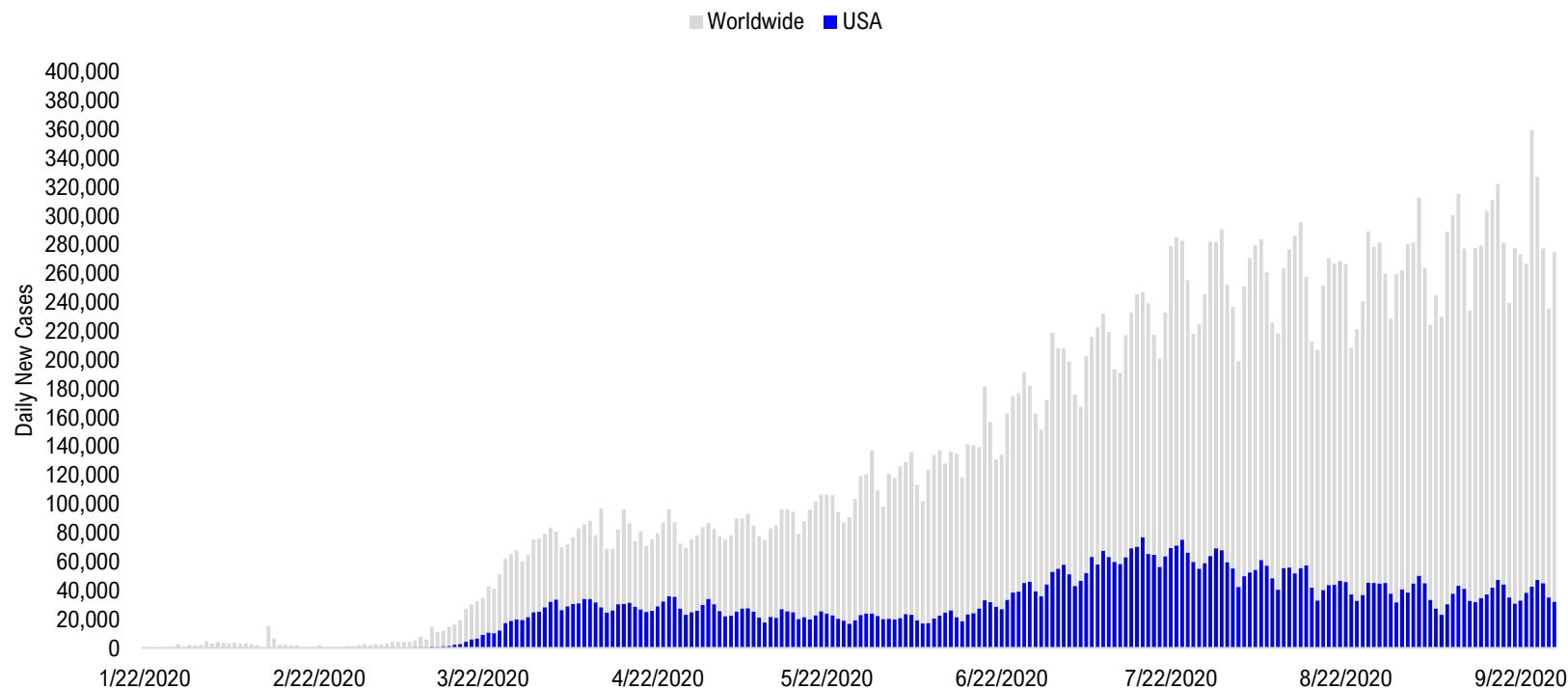


# #14: State COVID-19 Daily Positivity Rate by Reopen Date...

## Composite Daily Positivity Rate



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



5/15/2020	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	9/28/2020
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 97,310	Latin America 85,471	Latin America 88,295	Pakistan + India + Bangladesh 98,115	Pakistan + India + Bangladesh 82,361
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 63,674	Pakistan + India + Bangladesh 72,740	Pakistan + India + Bangladesh 87,400	Latin America 76,730	Europe 54,720
Europe 22,177	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 56,150	US + Canada 45,030	US + Canada 44,859	Europe 57,871	Latin America 51,760
Pakistan + India + Bangladesh 6,133	Pakistan + India + Bangladesh 12,032	Europe 18,149	Europe 17,889	Africa 17,127	Africa 20,063	Europe 23,878	Europe 32,513	Europe 40,013	US + Canada 43,079	US + Canada 38,747
Africa 2,942	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 10,251
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	Asia ex- India+Pakistan 10,424	Asia ex- India+Pakistan 10,047	Africa 8,318	Africa 7,997	Africa 6,814



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