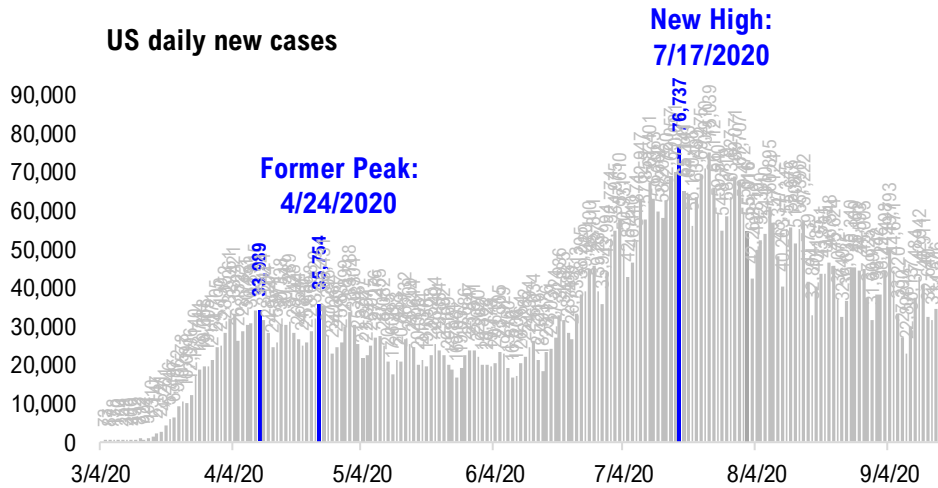


# FSInsight Daily COVID-19 Chartbook

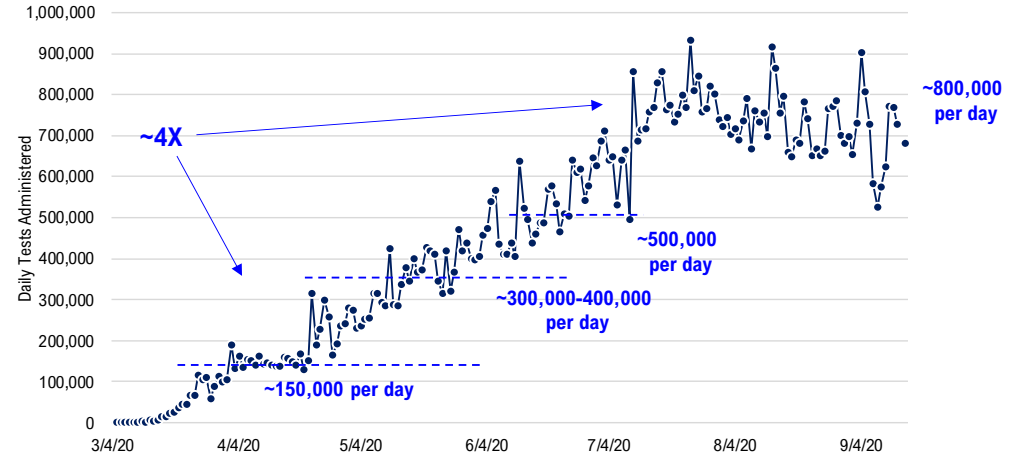


# #1: USA COVID-19 Situation at a Glance...

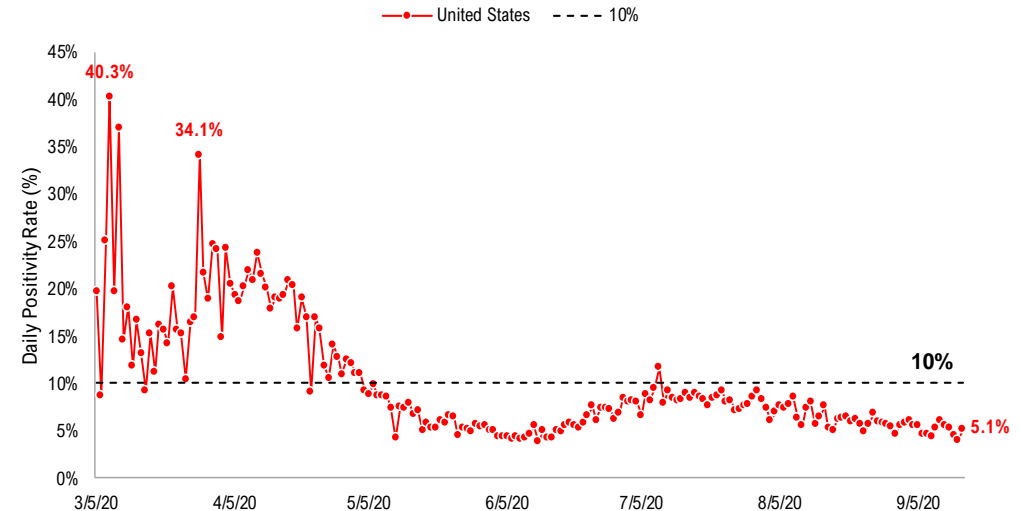
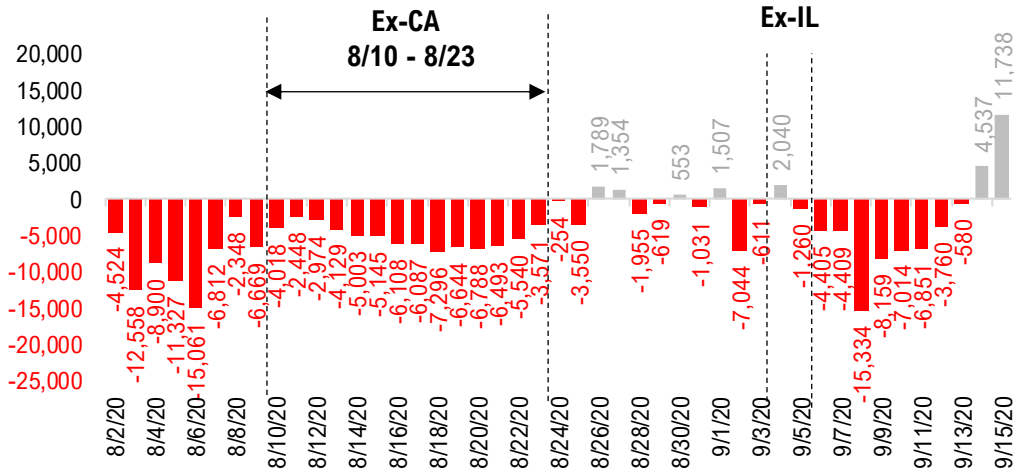
US daily new cases



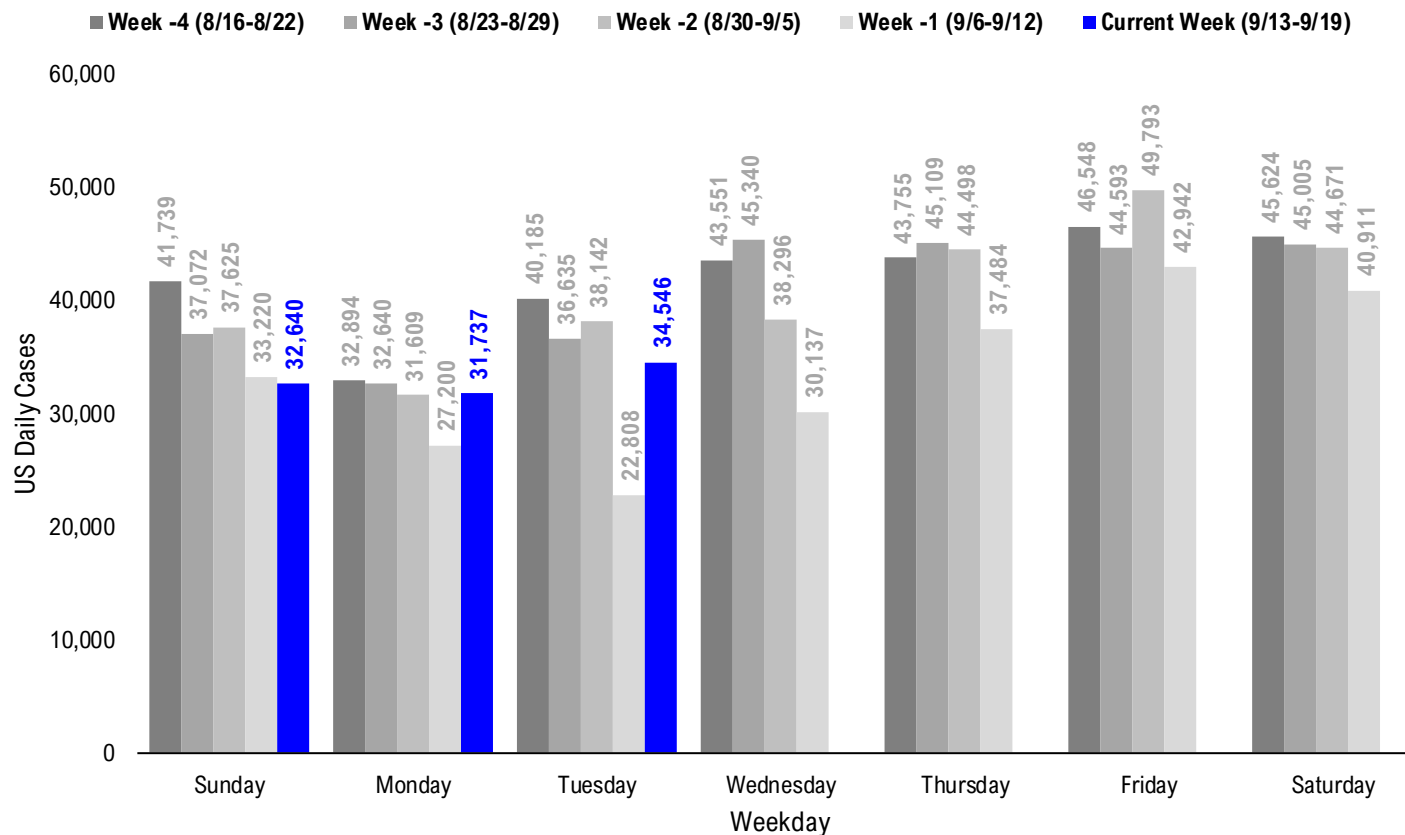
USA total COVID-19 tests administered



US daily new cases rolling 7D delta



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



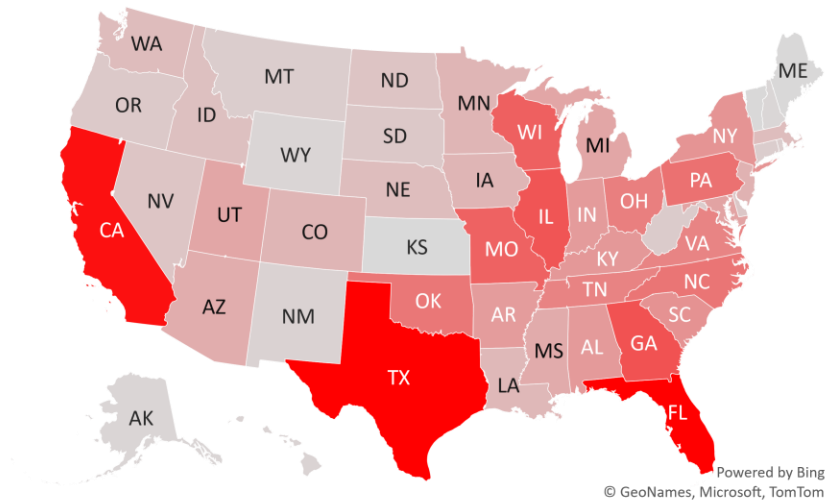
# #3: USA State COVID-19 Situation at a Glance...

		Sorted Daily Cases			Daily Cases (3D avg) per 1mm residents		Since Peak	
		% US Pop	9/15/20	7D Delta	9/15/20	7D Delta	# Days	% Decline in Daily Cases
United States		100%	34,546	+11,738	100	+16	60	-54%
<b>States:</b>								
1	Texas	8.7%	4,816	+3,400	106	+34	60	-74%
2	Florida	6.5%	3,116	+1,293	113	+16	64	-81%
3	California	11.9%	2,235	-441	82	-8	53	-72%
4	Georgia	3.2%	1,496	-47	123	+4	52	-70%
5	Illinois	3.8%	1,466	+74	113	+3	9	-56%
6	Wisconsin	1.8%	1,348	+631	212	+87	2	-14%
7	Missouri	1.8%	1,317	+544	231	+73	47	-26%
8	Pennsylvania	3.9%	1,151	+655	63	+18	158	-56%
9	North Carolina	3.2%	1,106	+390	100	+10	59	-53%
10	Oklahoma	1.2%	1,091	+258	224	+66	49	-28%
11	Ohio	3.5%	1,001	+345	83	+20	46	-37%
12	Tennessee	2.1%	957	+312	212	+46	49	-47%
13	Virginia	2.6%	943	+107	101	-4	37	-39%
14	South Carolina	1.6%	790	+412	121	+15	65	-69%
15	New York	5.9%	766	+209	36	+5	158	-93%
16	Kentucky	1.3%	718	+463	118	+54	32	-37%
17	Alabama	1.5%	701	+68	171	+48	52	-60%
18	Indiana	2.0%	689	+303	132	+42	2	-25%
19	Arkansas	0.9%	676	+382	175	+28	52	-42%
20	Maryland	1.8%	599	+243	94	+4	117	-55%
21	Michigan	3.0%	571	+130	55	+2	144	-55%
22	Utah	1.0%	562	+236	182	+69	59	-28%
23	Mississippi	0.9%	505	+256	101	+0	47	-80%
24	Arizona	2.2%	484	+403	50	+25	75	-92%
25	New Jersey	2.7%	436	+159	40	+6	163	-91%
26	Minnesota	1.7%	402	+19	104	+2	17	-42%
27	Iowa	1.0%	401	-54	166	+8	18	-57%
28	Colorado	1.7%	400	+213	69	+29	142	-45%

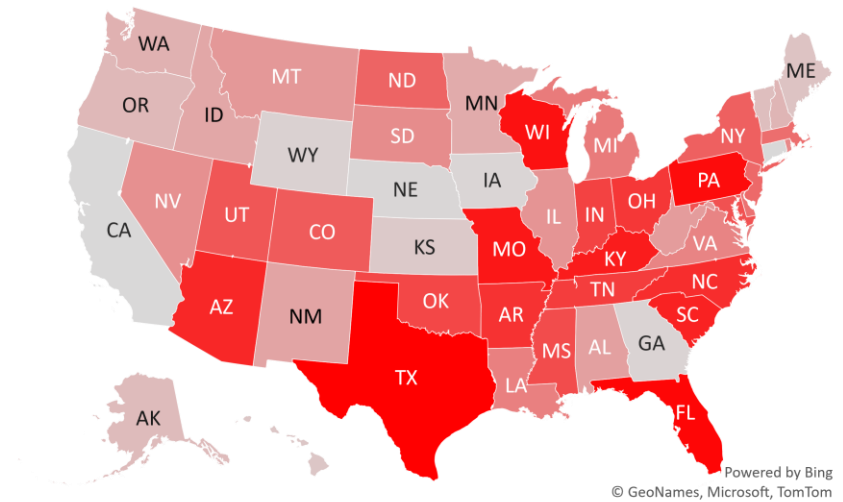
		Sorted Daily Cases			Daily Cases (3D avg) per 1mm residents		Since Peak	
		% US Pop	9/15/20	7D Delta	9/15/20	7D Delta	# Days	% Decline in Daily Cases
United States		100%	34,546	+11,738	100	+16	60	-54%
<b>States:</b>								
29	Louisiana	1.4%	371	+115	154	+13	56	-73%
30	Washington	2.3%	327	+17	43	-10	62	-68%
31	Massachusetts	2.1%	313	+142	41	+4	143	-92%
32	Nebraska	0.6%	307	-195	92	-24	136	-65%
33	Idaho	0.5%	278	+38	120	+26	60	-68%
34	North Dakota	0.2%	233	+162	399	+164	1	-20%
35	Puerto Rico	1.0%	229	+133	63	+7	28	-53%
36	Nevada	0.9%	226	+89	89	-20	59	-80%
37	Delaware	0.3%	200	+142	141	-1	140	-59%
38	South Dakota	0.3%	193	+90	210	+16	16	-51%
39	Oregon	1.3%	178	+13	40	+1	45	-54%
40	West Virginia	0.5%	156	+70	85	+15	3	-36%
41	Montana	0.3%	137	+72	99	+32	11	-38%
42	Connecticut	1.1%	136	-281	66	+27	146	-84%
43	Rhode Island	0.3%	120	+100	79	+45	143	-81%
44	New Mexico	0.6%	81	+44	42	+21	48	-76%
45	Hawaii	0.4%	66	+2	61	-17	17	-71%
46	District of Columbia	0.2%	65	+18	64	+5	135	-81%
47	Wyoming	0.2%	46	-25	81	+25	139	-19%
48	Alaska	0.2%	42	+7	82	+11	44	-55%
49	Guam	0.0%	39	-3	151	+66	19	-77%
50	New Hampshire	0.4%	34	+16	24	+6	136	-74%
51	Maine	0.4%	15	+3	21	+9	116	-59%
52	Vermont	0.2%	7	+4	13	+10	163	-86%
53	U.S. Virgin Islands	0.0%	4	+3	44	-31	25	-90%
54	Northern Mariana Islands	0.0%	0	-1	6	+0	165	-83%
55	Kansas	0.9%	0	+0	173	-21	20	-51%
56	American Samoa	0.0%	0	+0	0	+0	-	-

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

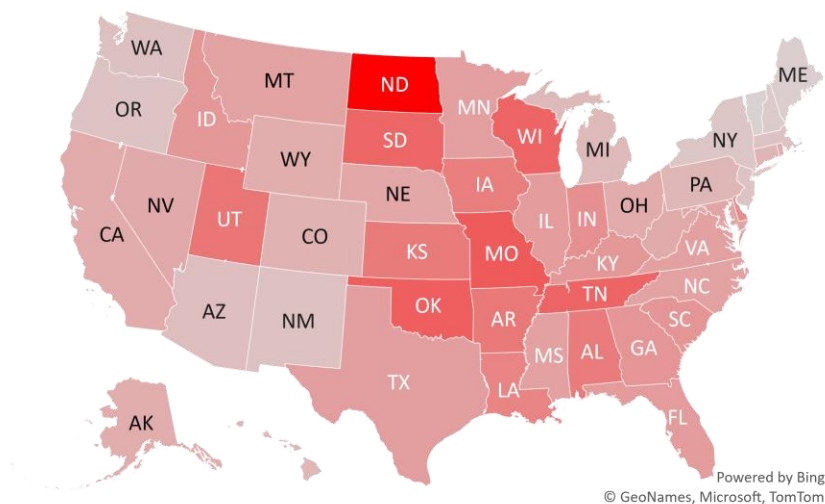
### Daily Case Increases



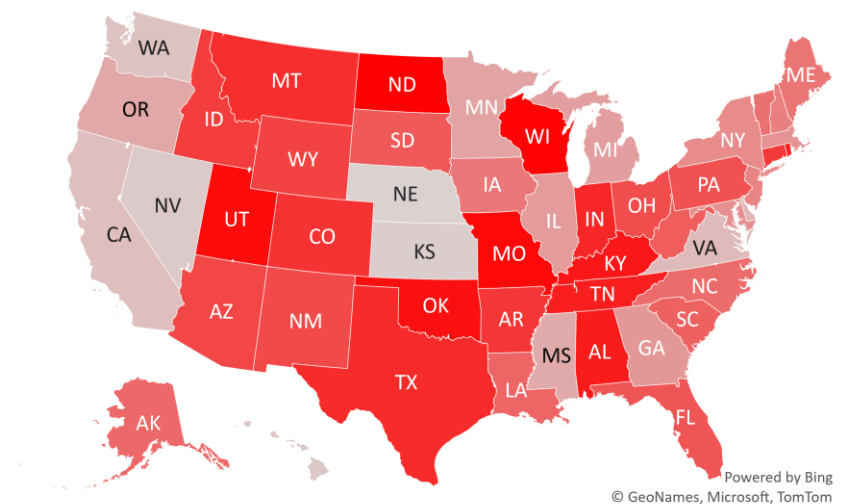
### 7D Delta in Daily New Cases



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



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





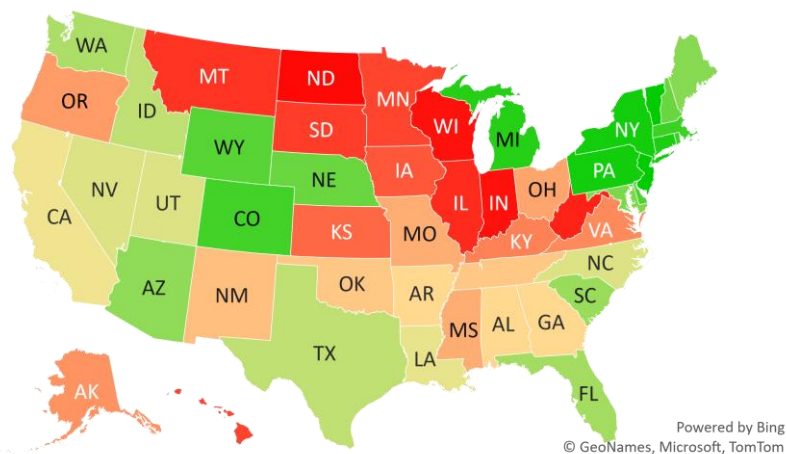
# #5: # of Days since Daily Case Peaked by States...

## # Days since Daily Cases (3D Avg) Peak (as of 9/15)

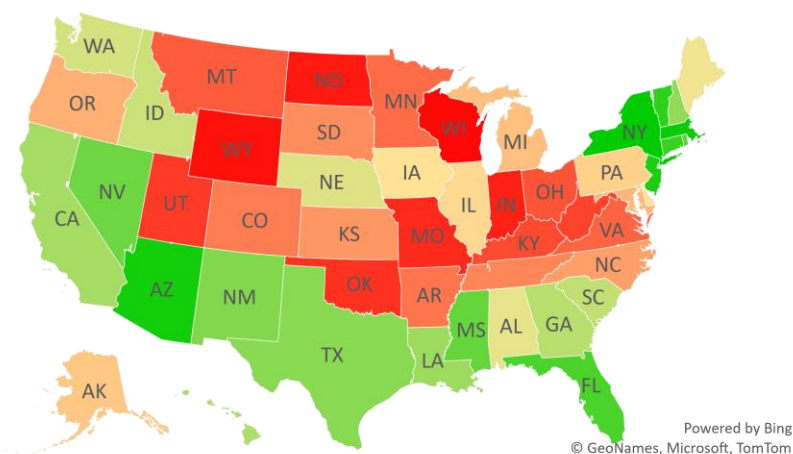
Sorted				
	Peak Date	9/15/20	% off the Peak	% US Pop
United States	7/17/20	60	-54%	100%
<b>States:</b>				
Northern Mariana Island	4/3/20	165	-83%	0.0%
Vermont	4/5/20	163	-86%	0.2%
New Jersey	4/5/20	163	-91%	2.7%
Pennsylvania	4/10/20	158	-56%	3.9%
New York	4/10/20	158	-93%	5.9%
Connecticut	4/22/20	146	-84%	1.1%
Michigan	4/24/20	144	-55%	3.0%
Rhode Island	4/25/20	143	-81%	0.3%
Massachusetts	4/25/20	143	-92%	2.1%
Colorado	4/26/20	142	-45%	1.7%
Delaware	4/28/20	140	-59%	0.3%
Wyoming	4/29/20	139	-19%	0.2%
New Hampshire	5/2/20	136	-74%	0.4%
Nebraska	5/2/20	136	-65%	0.6%
District of Columbia	5/3/20	135	-81%	0.2%
Maryland	5/21/20	117	-55%	1.8%
Maine	5/22/20	116	-59%	0.4%
Arizona	7/2/20	75	-92%	2.2%
South Carolina	7/12/20	65	-69%	1.6%
Florida	7/13/20	64	-81%	6.5%
Washington	7/15/20	62	-68%	2.3%
Texas	7/17/20	60	-74%	8.7%
Idaho	7/17/20	60	-68%	0.5%
Utah	7/18/20	59	-28%	1.0%
Nevada	7/18/20	59	-80%	0.9%
North Carolina	7/18/20	59	-53%	3.2%
Louisiana	7/21/20	56	-73%	1.4%
California	7/24/20	53	-72%	11.9%

Sorted				
	Peak Date	9/15/20	% off the Peak	% US Pop
United States	7/17/20	60	-54%	100%
<b>States:</b>				
Georgia	7/25/20	52	-70%	3.2%
Arkansas	7/25/20	52	-42%	0.9%
Alabama	7/25/20	52	-60%	1.5%
Tennessee	7/28/20	49	-47%	2.1%
Oklahoma	7/28/20	49	-28%	1.2%
New Mexico	7/29/20	48	-76%	0.6%
Mississippi	7/30/20	47	-80%	0.9%
Missouri	7/30/20	47	-26%	1.8%
Ohio	7/31/20	46	-37%	3.5%
Oregon	8/1/20	45	-54%	1.3%
Alaska	8/2/20	44	-55%	0.2%
Virginia	8/9/20	37	-39%	2.6%
Kentucky	8/14/20	32	-37%	1.3%
Puerto Rico	8/18/20	28	-53%	1.0%
U.S. Virgin Islands	8/21/20	25	-90%	0.0%
Kansas	8/26/20	20	-51%	0.9%
Guam	8/27/20	19	-77%	0.0%
Iowa	8/28/20	18	-57%	1.0%
Minnesota	8/29/20	17	-42%	1.7%
Hawaii	8/29/20	17	-71%	0.4%
South Dakota	8/30/20	16	-51%	0.3%
Montana	9/4/20	11	-38%	0.3%
Illinois	9/6/20	9	-56%	3.8%
West Virginia	9/12/20	3	-36%	0.5%
Wisconsin	9/13/20	2	-14%	1.8%
Indiana	9/13/20	2	-25%	2.0%
North Dakota	9/14/20	1	-20%	0.2%

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



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



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

	Sorted				
	7D Ago	Last 3-day Trend			
	9/8/20	9/13/20	9/14/20	9/15/20	vs 7D ago
United States	22,808	32,640	31,737	34,546	+11,738
<b>States:</b>					
Texas	1,416	1,840	2,554	4,816	<--higher
Florida	1,823	2,423	1,736	3,116	<--higher
California	2,676	4,625	2,855	2,235	
Georgia	1,543	1,409	1,023	1,496	
Illinois	1,392	1,462	1,373	1,466	
Wisconsin	717	1,582	771	1,348	<--higher
Missouri	773	1,613	1,332	1,317	<--higher
Pennsylvania	496	76	1,182	1,151	<--higher
North Carolina	716	1,196	845	1,106	<--higher
Oklahoma	833	695	869	1,091	<--higher
Ohio	656	837	1,079	1,001	<--higher
Tennessee	645	933	2,450	957	<--higher
Virginia	836	874	757	943	
South Carolina	378	542	541	790	<--higher
New York	557	725	583	766	<--higher
Kentucky	255	530	337	718	<--higher
Alabama	633	1,109	704	701	
Indiana	386	1,243	736	689	<--higher
Arkansas	294	508	399	676	<--higher
Maryland	356	577	536	599	<--higher
Michigan	441	0	1,088	571	<--higher
Utah	326	628	563	562	<--higher
Mississippi	249	254	144	505	<--higher
Arizona	81	384	213	484	<--higher
New Jersey	277	297	334	436	<--higher
Minnesota	383	723	638	402	
Iowa	455	784	386	401	
Colorado	187	417	375	400	<--higher

	Sorted				
	7D Ago	Last 3-day Trend			
	9/8/20	9/13/20	9/14/20	9/15/20	vs 7D ago
United States	22,808	32,640	31,737	34,546	+11,738
<b>States:</b>					
Louisiana	256	1,281	492	371	<--higher
Washington	310	350	312	327	
Massachusetts	171	286	254	313	<--higher
Nebraska	502	80	147	307	
Idaho	240	112	253	278	
North Dakota	71	426	254	233	<--higher
Puerto Rico	96	171	208	229	<--higher
Nevada	137	317	277	226	<--higher
Delaware	58	123	88	200	<--higher
South Dakota	103	201	163	193	<--higher
Oregon	165	181	147	178	
West Virginia	86	178	121	156	<--higher
Montana	65	96	86	137	<--higher
Connecticut	417	0	569	136	
Rhode Island	20	99	32	120	<--higher
New Mexico	37	100	81	81	<--higher
Hawaii	64	113	79	66	
District of Columbia	47	40	30	65	<--higher
Wyoming	71	49	46	46	
Alaska	35	62	75	42	
Guam	42	0	36	39	
New Hampshire	18	44	18	34	<--higher
Maine	12	29	40	15	<--t
Vermont	3	7	11	7	<--t, g, n, v
U.S. Virgin Islands	1	9	1	4	<--higher
Northern Mariana Islands	1	0	1	0	
Kansas	0	0	1,513	0	
American Samoa	0	0	0	0	

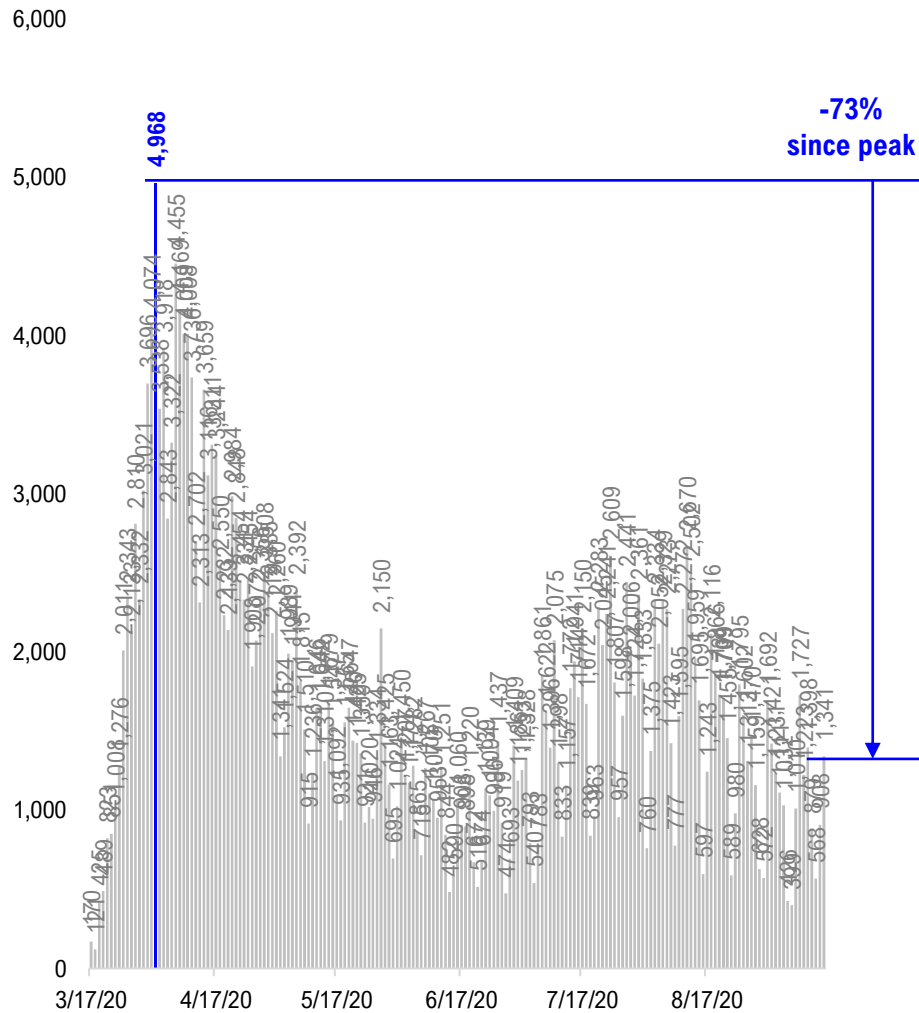
<--higher – if the state has 20% more daily cases than 7D ago...

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

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

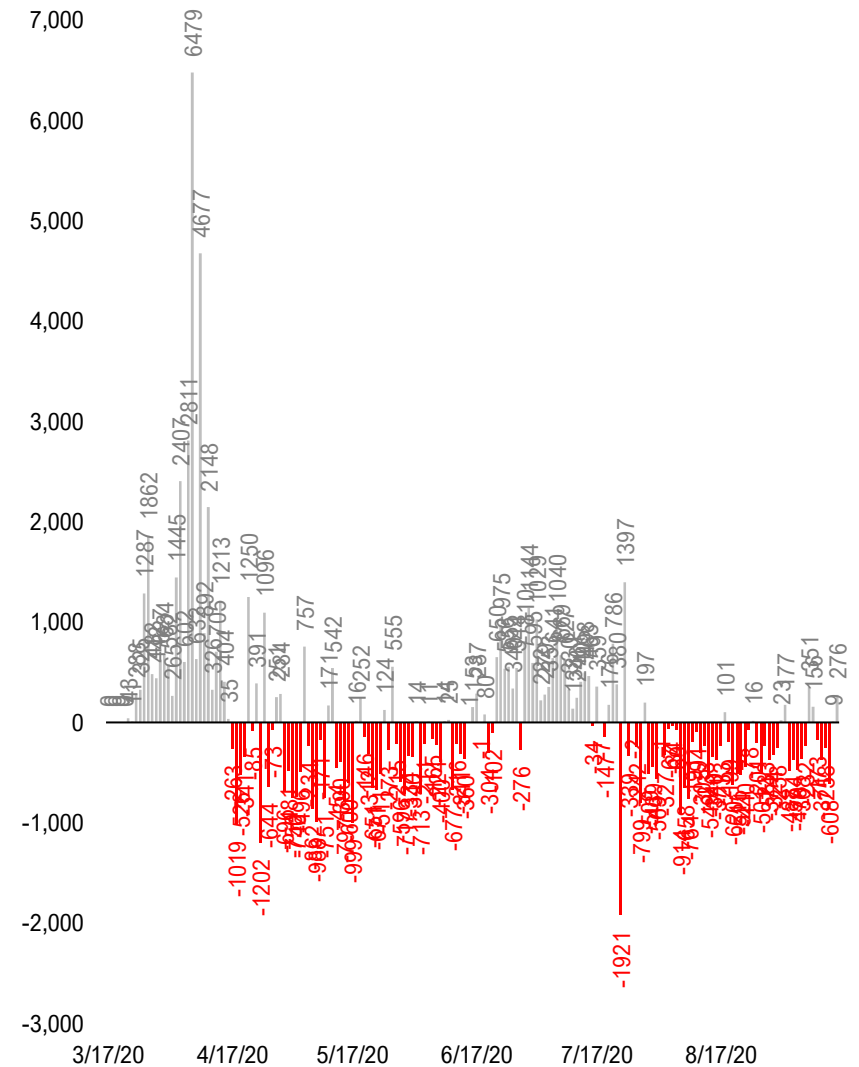
## US Gross Hospitalizations

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



## US Net Hospitalizations

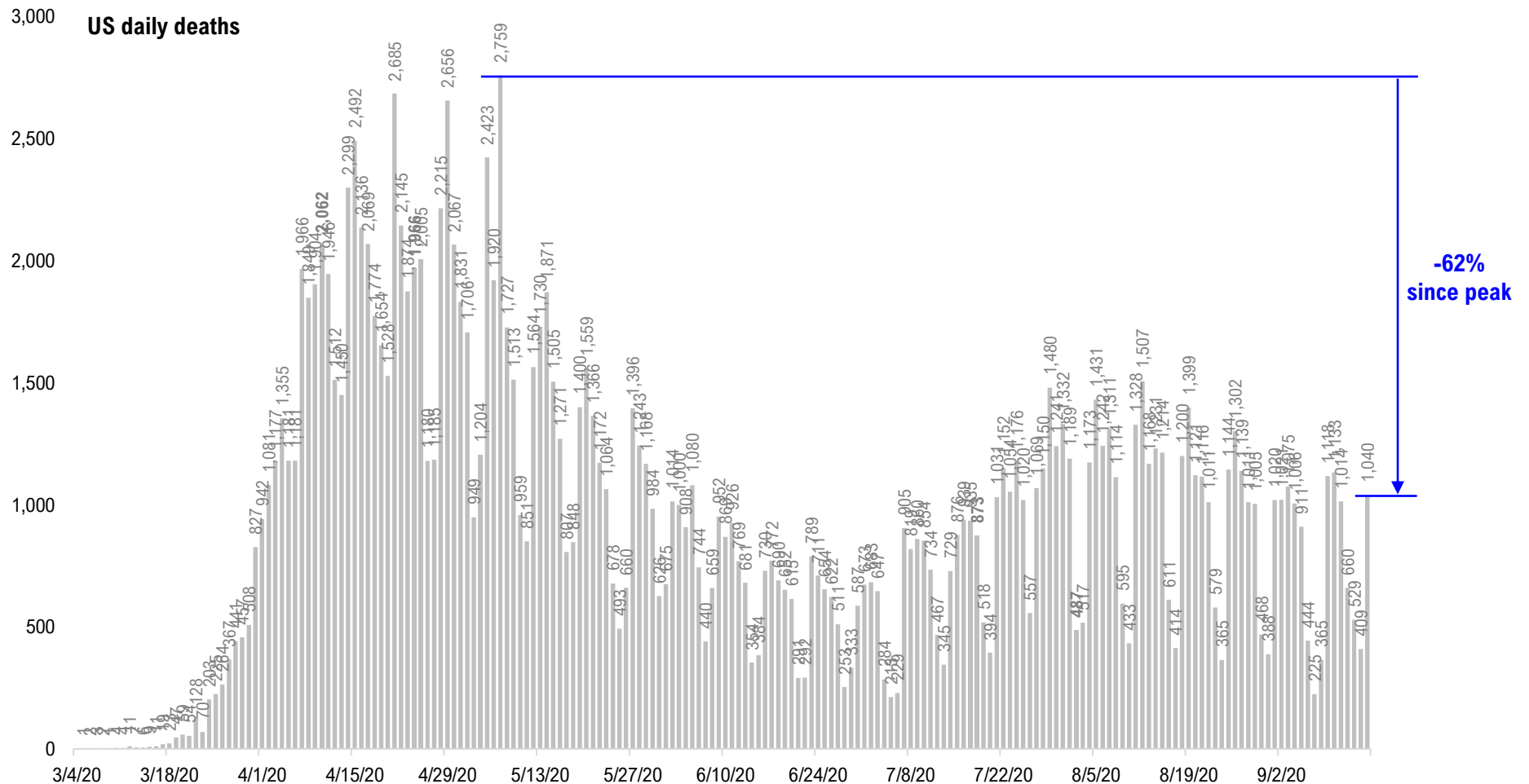
(Composite of 18 states that report "net/current hospitalizations")





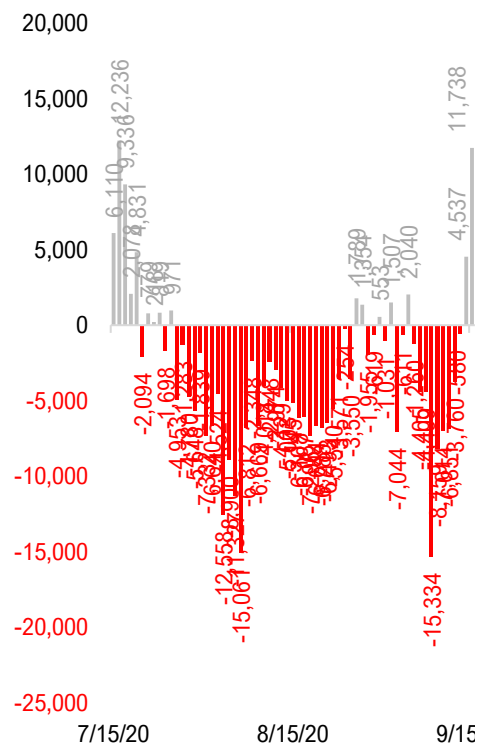
# #8: US Daily New Fatalities...

## US daily COVID-19 Fatalities

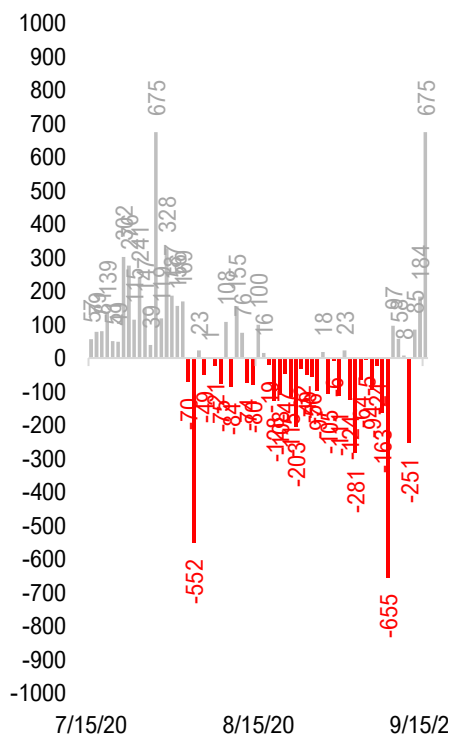


# #9: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

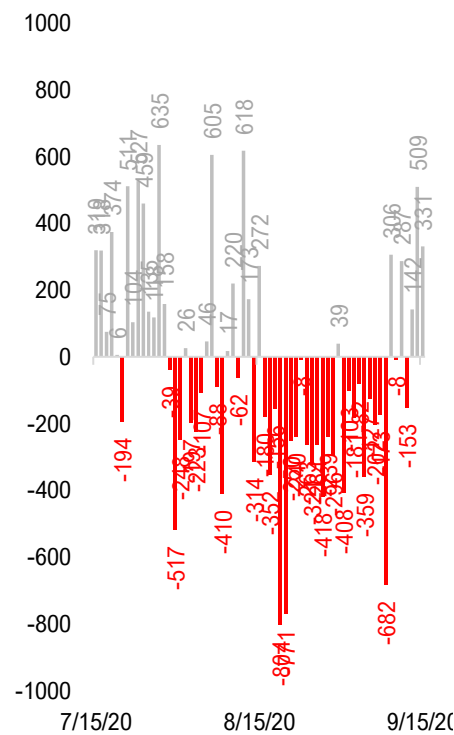
**Daily New Cases**  
(8/10-8/23 ex-CA; 9/4-9/5 ex-IL)



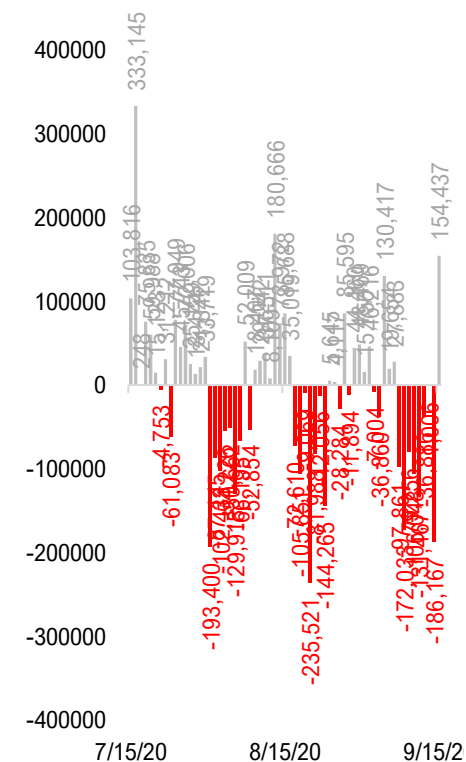
**Daily Deaths**



**Daily New Gross hospitalization**  
(aggregate of 33 states)

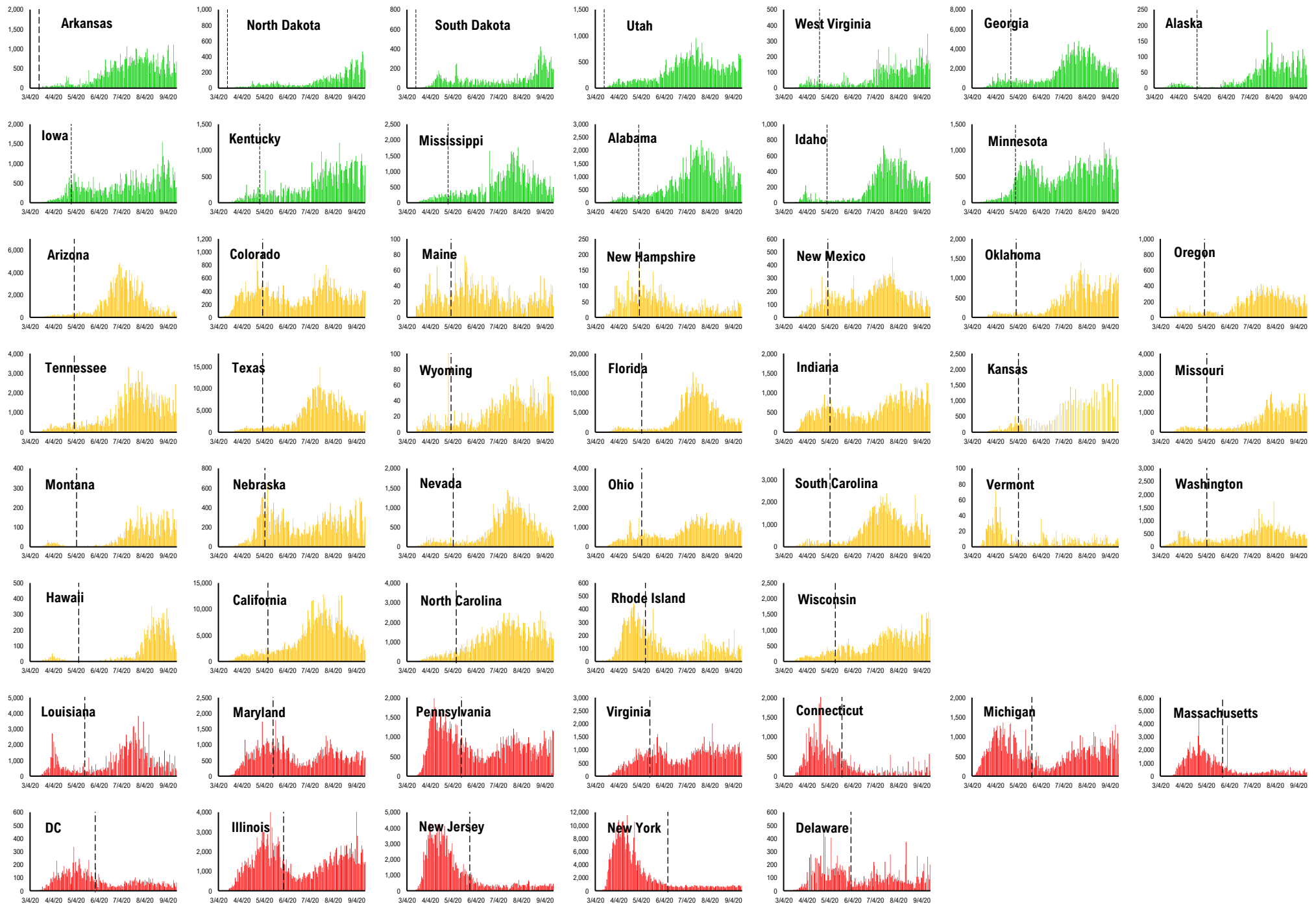


**Daily Tests**

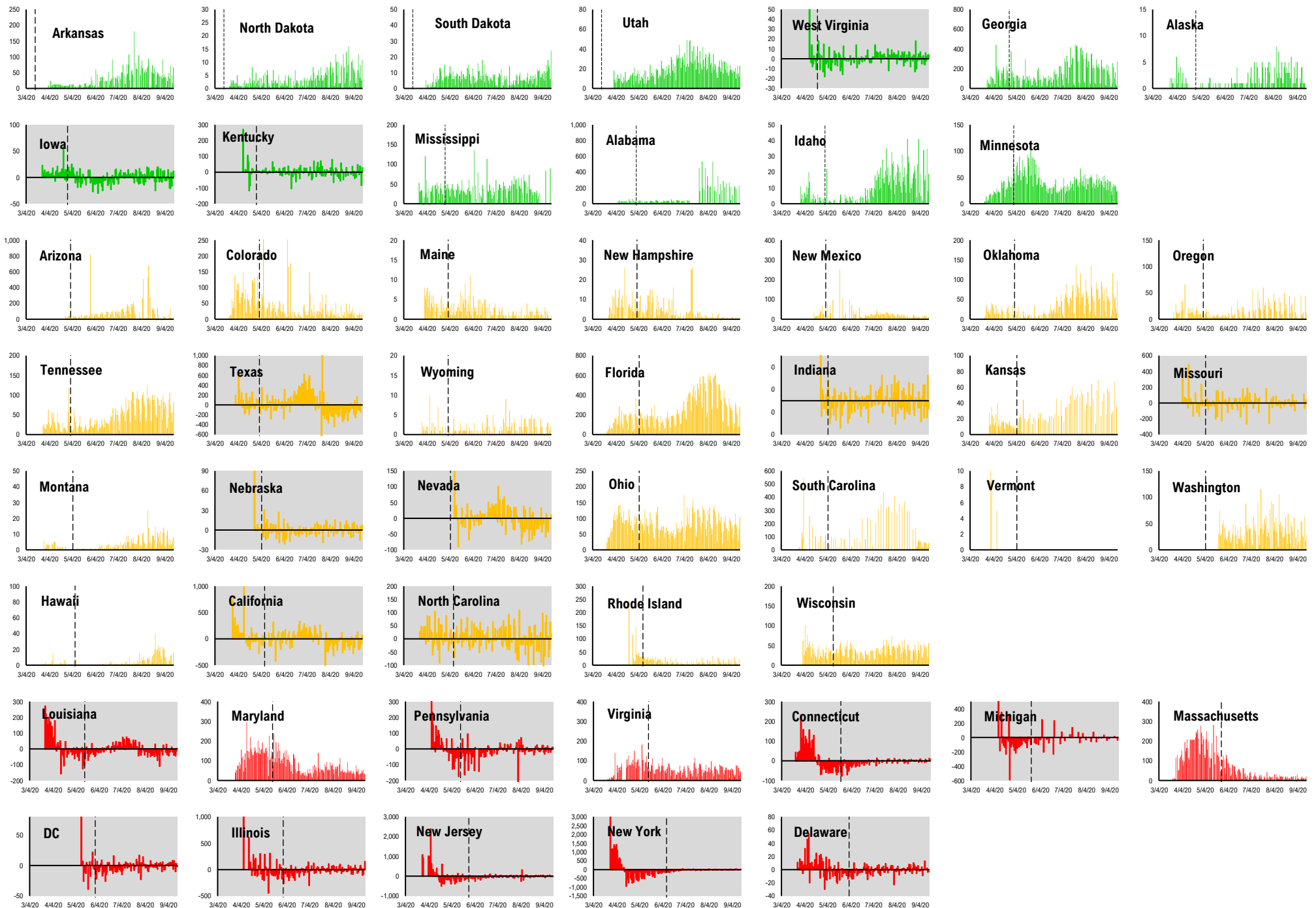


\* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog  
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

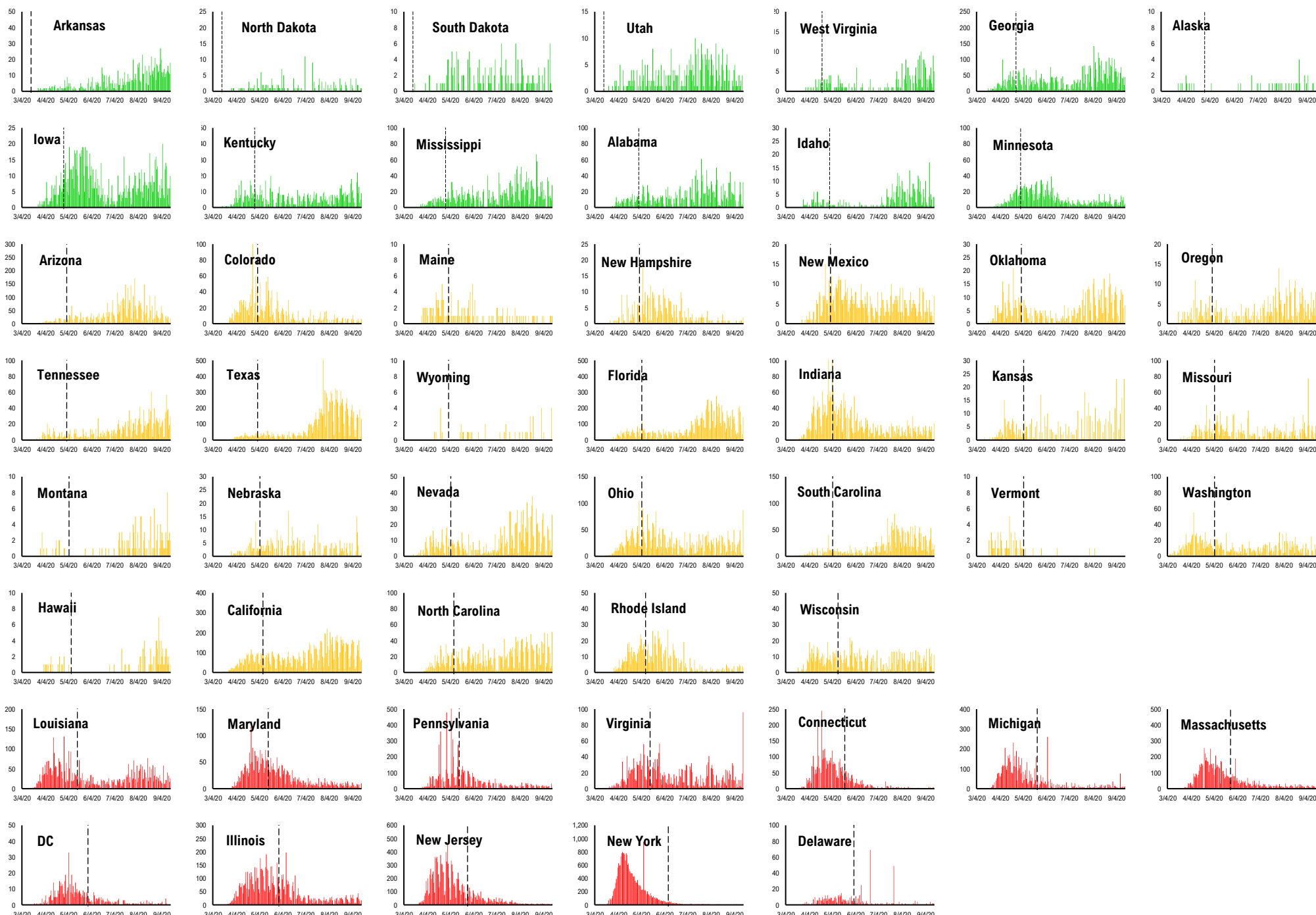
# #10: Daily New Cases by States... (sorted by "open" date)



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

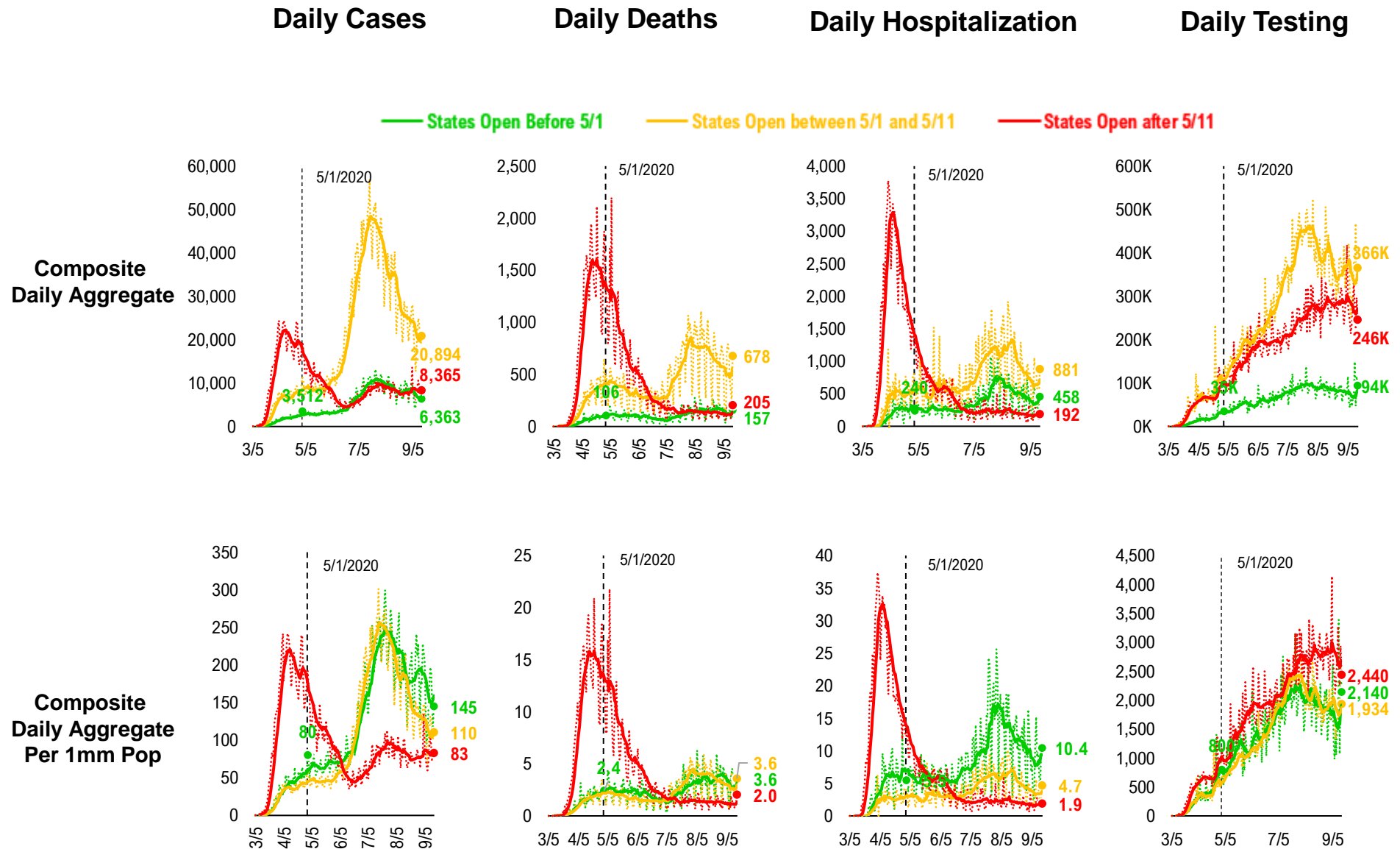


# #12: Daily New Deaths by States... (sorted by "open" date)



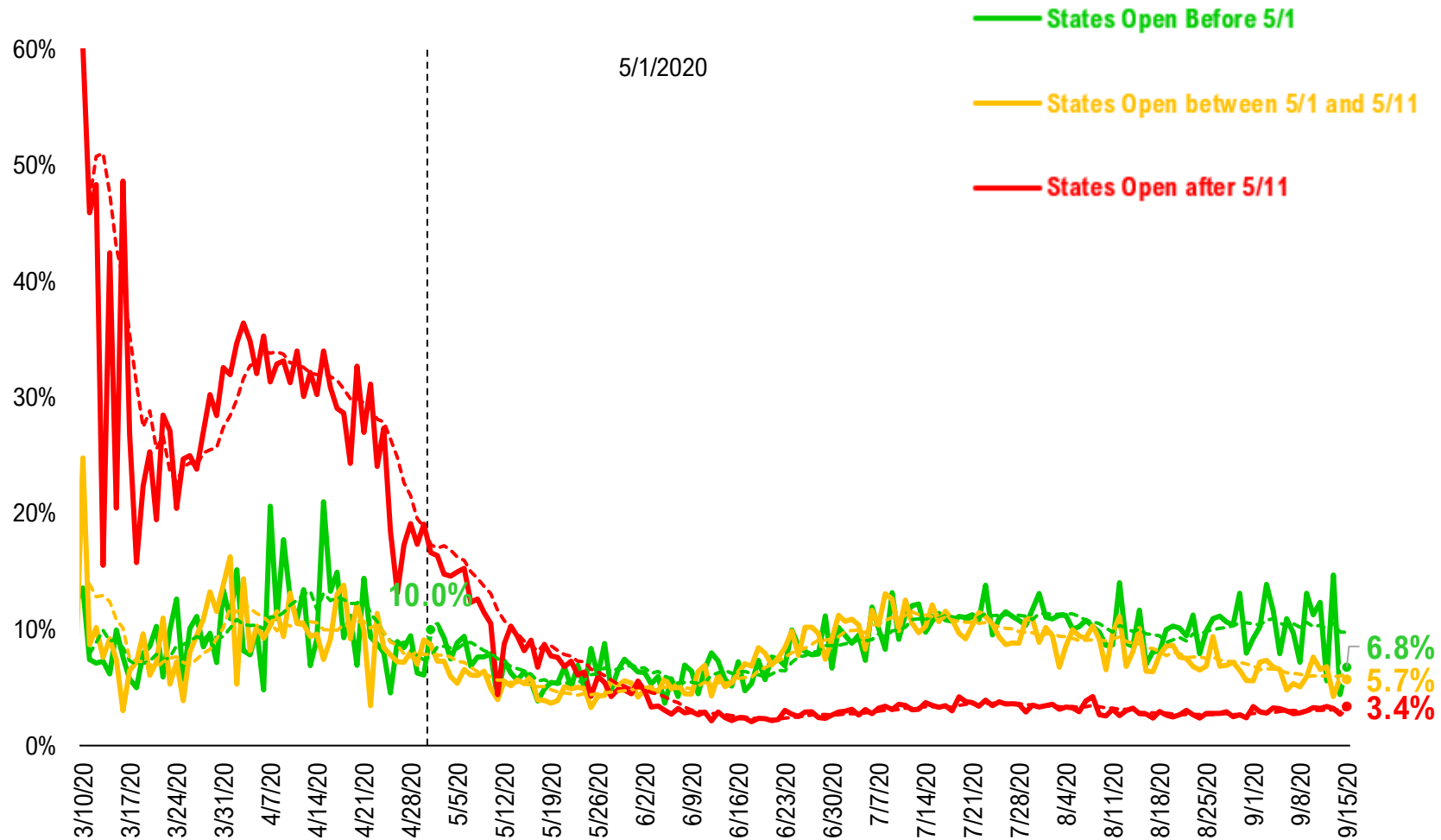


# #13: State COVID-19 situation by Reopen Date...

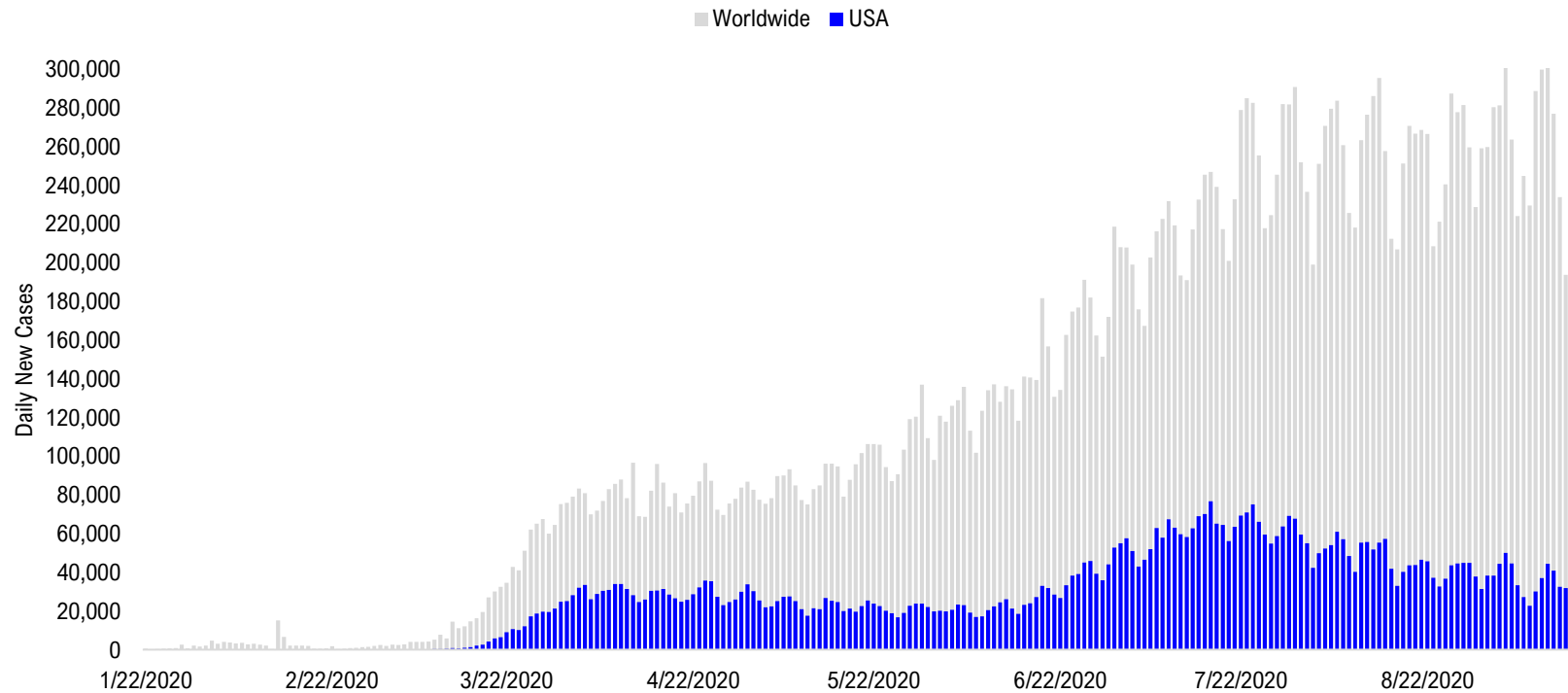


## #14: State COVID-19 Daily Positivity Rate by Reopen Date...

### Composite Daily Positivity Rate



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



5/1/2020	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	9/14/2020
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 97,310	Latin America 85,471	Latin America 88,295	Pakistan + India + Bangladesh 64,161
Europe 25,405	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 58,592
Latin America 13,595	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 44,748	Europe 42,985
Pakistan + India + Bangladesh 3,762	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 35,848
Asia ex- India+Pakistan 2,022	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 10,727
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	Asia ex- India+Pakistan 10,424	Asia ex- India+Pakistan 10,047	Africa 8,318	Africa 6,896

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