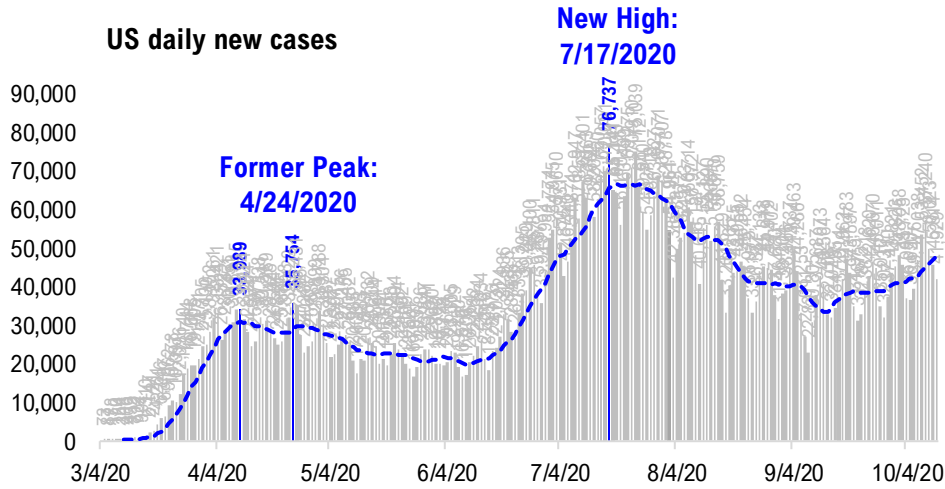


# FSInsight Daily COVID-19 Chartbook

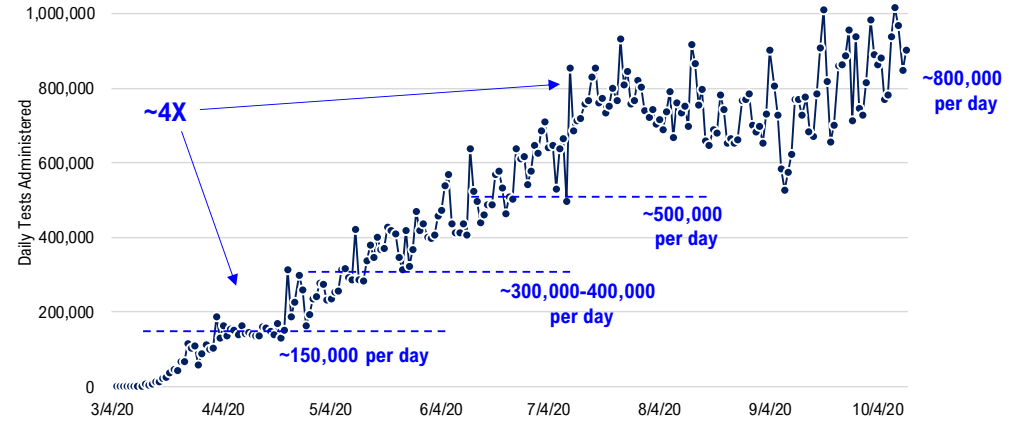


# #1: USA COVID-19 Situation at a Glance...

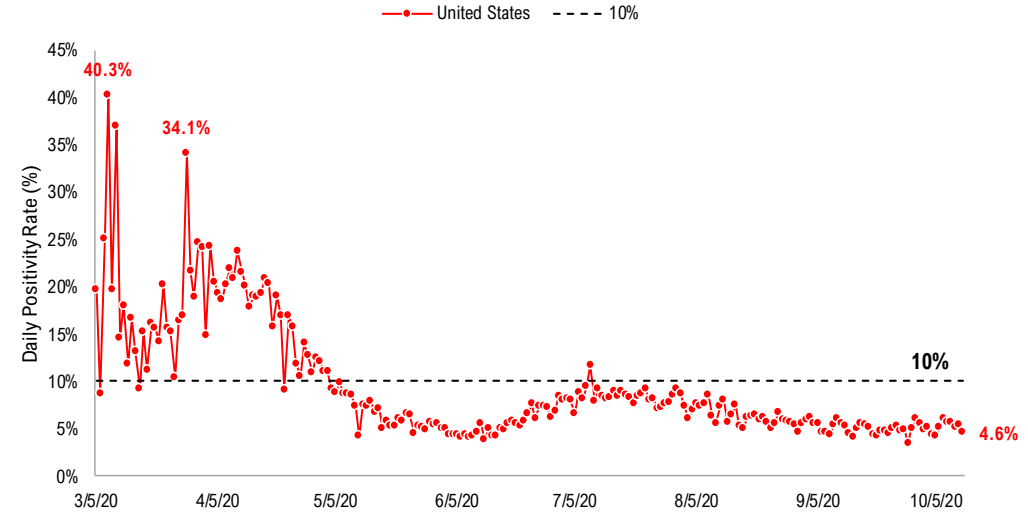
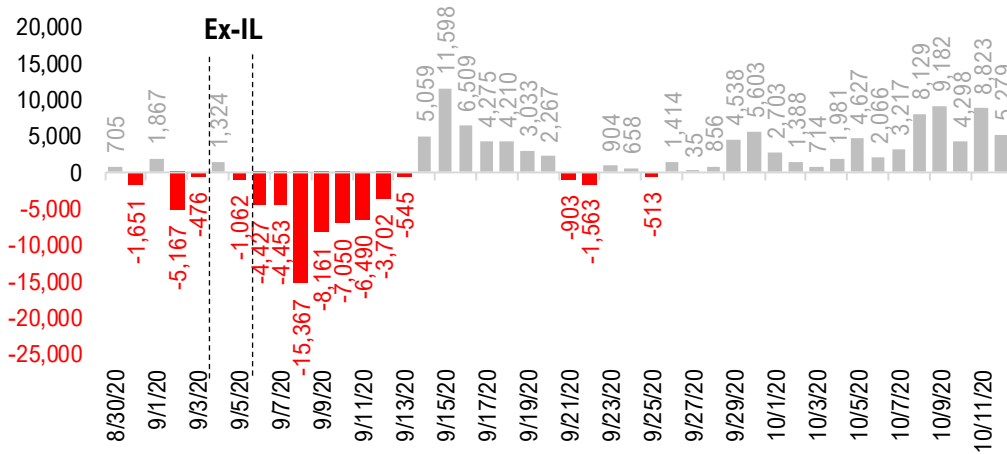
**US daily new cases**



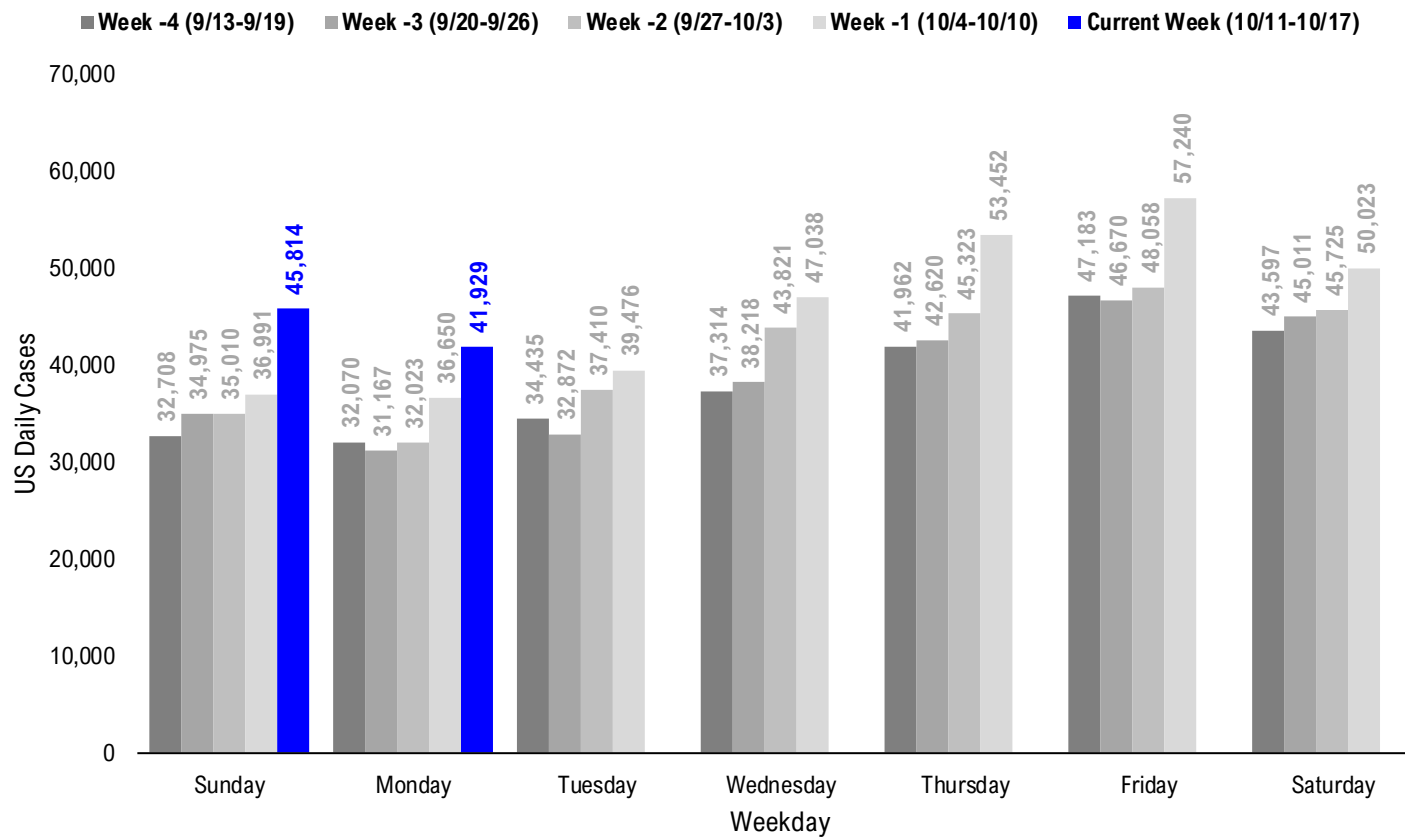
**USA total COVID-19 tests administered**



**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			
			10/12	Delta	10/12	7D Delta	# Days	%	7D Net Hospitalization	7D Net Hospitalization / 7D New Cases
United States	100%	100%	41.929	+5.279	140	+19	87	-36%	3.812	1.1%

### States:

1 California	11.9%	14.6%	3,449	+394	96	+16	80	-67%	-76	(0.3%)
2 Tennessee	2.1%	1.8%	2,965	+476	326	+68	76	-19%	-30	(0.2%)
3 Illinois	3.8%	4.2%	2,742	+889	220	+69	36	-15%	133	0.7%
4 Texas	8.7%	8.8%	2,384	+192	100	+11	87	-76%	552	2.3%
5 Kansas	0.9%	0.8%	2,055	+458	235	+52	12	-35%	3	0.1%
6 Wisconsin	1.8%	1.6%	1,956	+260	422	+53	2	-17%	168	0.9%
7 Michigan	3.0%	2.6%	1,809	+402	111	+26	2	-13%	221	2.9%
8 Indiana	2.0%	1.8%	1,574	+744	251	+85	1	-5%	219	2.1%
9 Florida	6.5%	5.0%	1,533	+118	110	+16	91	-81%	88	0.5%
10 Ohio	3.5%	3.3%	1,430	+373	116	+26	3	-15%	292	2.9%
11 North Carolina	3.2%	2.7%	1,276	-982	169	+8	2	-22%	138	1.1%
12 Minnesota	1.7%	1.8%	1,171	+198	244	+41	1	-5%	79	0.9%
13 Pennsylvania	3.9%	3.8%	1,088	+416	104	+28	185	-26%	131	1.4%
14 Connecticut	1.1%	1.3%	1,066	+243	100	+23	173	-76%	26	1.3%
15 New York	5.9%	8.1%	1,029	+96	62	-5	185	-89%	242	2.5%
16 Utah	1.0%	0.9%	988	-117	368	-2	2	-16%	37	0.5%
17 Georgia	3.2%	2.9%	902	+113	103	+6	79	-75%	-156	(1.8%)
18 Virginia	2.6%	2.6%	854	+167	114	+2	64	-31%	40	0.6%
19 Oklahoma	1.2%	1.0%	797	+132	261	+57	2	-27%	103	1.3%
20 Massachusetts	2.1%	2.8%	760	+245	95	+6	170	-81%	28	0.7%
21 Alabama	1.5%	1.1%	734	+190	178	-27	79	-59%	65	1.0%
22 Kentucky	1.3%	1.0%	638	+97	185	+3	9	-22%	109	1.7%
23 South Carolina	1.6%	1.1%	610	+35	151	+22	72	-71%	91	1.6%
24 Idaho	0.5%	0.4%	597	+139	294	+73	87	-23%	40	0.9%
25 Colorado	1.7%	1.8%	576	+115	140	+45	2	-11%	80	1.5%
26 Nevada	0.9%	0.8%	569	+232	190	+54	86	-56%	68	1.7%
27 Arkansas	0.9%	0.6%	568	+176	211	+58	2	-33%	92	1.8%
28 Maryland	1.8%	2.0%	504	+3	94	+7	144	-55%	46	1.1%

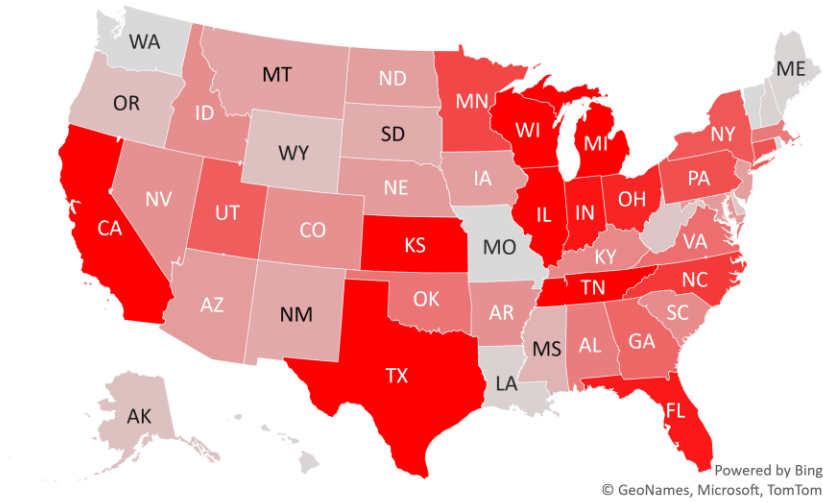
	Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents				Hospitalization			
	% US Pop	% US GDP	7D		Since Peak		% Decline in Daily Cases			
			10/12	Delta	10/12	7D Delta	# Days	%	7D Net Hospitalization	7D Net Hospitalization / 7D New Cases
United States	100%	100%	41,929	+5,279	140	+19	87	-36%	3.812	1.1%

### States:

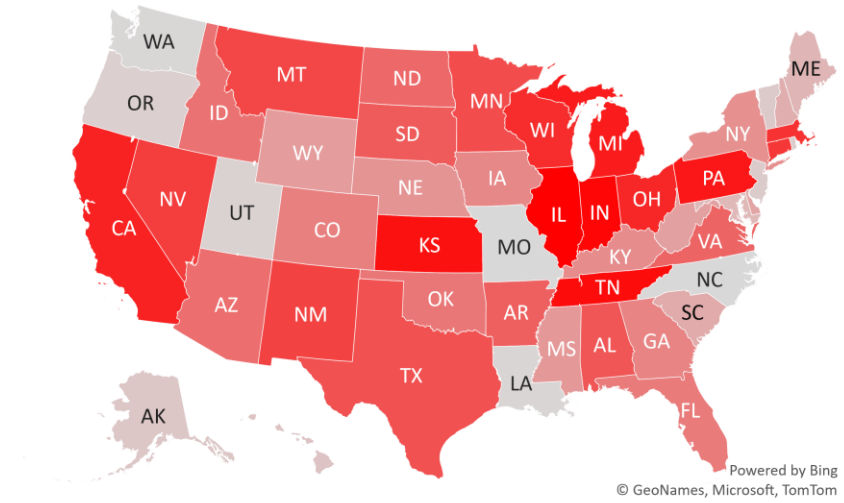
29 Nebraska	0.6%	0.6%	495	+91	400	+121	1	-7%	55	1.2%
30 Arizona	2.2%	1.7%	475	+159	90	+30	102	-85%	100	2.0%
31 North Dakota	0.2%	0.3%	472	+160	742	+231	1	-10%	121	3.1%
32 New Jersey	2.7%	3.0%	469	-42	78	+0	190	-83%	155	2.9%
33 Iowa	1.0%	0.9%	463	+99	277	+76	45	-29%	60	0.9%
34 Montana	0.3%	0.2%	423	+211	538	+229	2	-16%	90	2.1%
35 New Mexico	0.6%	0.5%	379	+224	178	+78	2	-17%	30	1.1%
36 South Dakota	0.3%	0.3%	361	+181	644	+239	3	-27%	37	0.9%
37 Mississippi	0.9%	0.6%	296	+81	173	+45	74	-67%	46	1.0%
38 Puerto Rico	1.0%	0.5%	228	-135	71	-22	16	-61%	-7	(0.4%)
39 Oregon	1.3%	1.2%	212	-67	74	+4	2	-27%	36	1.5%
40 Wyoming	0.2%	0.2%	191	+66	269	+30	3	-17%	15	1.3%
41 Alaska	0.2%	0.3%	191	-17	317	+71	0	0%	5	0.4%
42 Delaware	0.3%	0.4%	159	+39	158	+12	167	-54%	24	2.6%
43 West Virginia	0.5%	0.4%	153	+39	107	+26	1	-29%	3	0.2%
44 Guam	0.0%	0.0%	92	+38	364	+90	46	-44%	32	7.7%
45 New Hampshire	0.4%	0.4%	65	+30	58	+23	163	-37%	0	0.0%
46 Louisiana	1.4%	1.3%	63	-167	88	+9	83	-85%	30	0.8%
47 Hawaii	0.4%	0.5%	42	-10	51	-9	44	-75%	-25	(3.8%)
48 District of Columbi	0.2%	0.7%	38	+10	85	+26	162	-74%	-8	(1.7%)
49 Maine	0.4%	0.3%	29	+3	21	+2	143	-58%	-3	(1.4%)
50 Vermont	0.2%	0.2%	9	-24	16	-9	190	-83%	-1	(1.7%)
51 Washington	2.3%	2.7%	0	-455	49	-28	89	-64%	2	0.1%
52 U.S. Virgin Islands	0.0%	0.0%	0	+0	3	+0	52	-99%	0	0.0%
53 Rhode Island	0.3%	0.3%	0	-50	0	-108	170	-100%	20	2.3%
54 Northern Mariana	0.0%	0.0%	0	-2	12	+0	20	-71%	0	0.0%
55 Missouri	1.8%	1.5%	0	-987	0	-218	74	-100%	166	2.9%
56 American Samoa	0.0%	0.0%	0	+0	0	+0	0	0%	0	0.0%

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

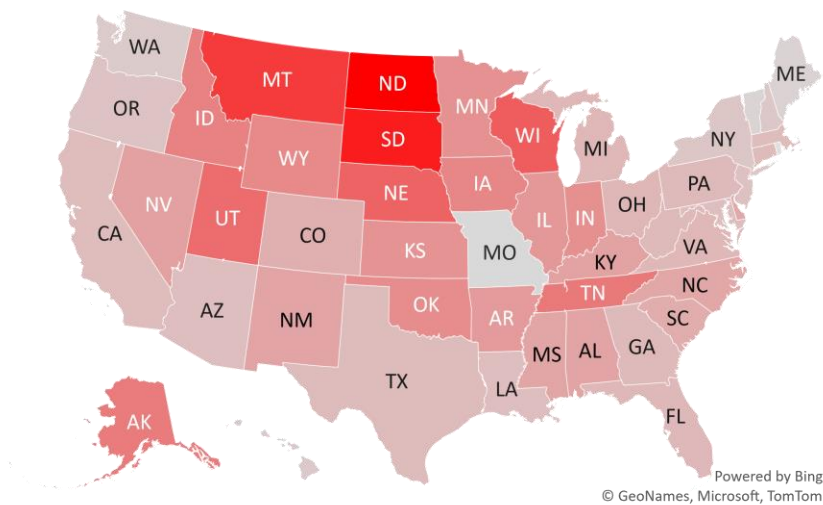
### Daily Case Increases



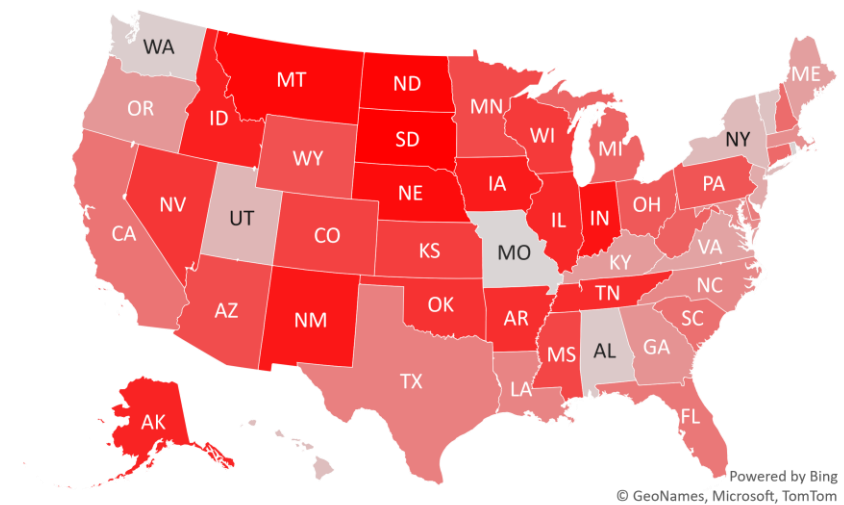
### 7D Delta in Daily New Cases



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



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





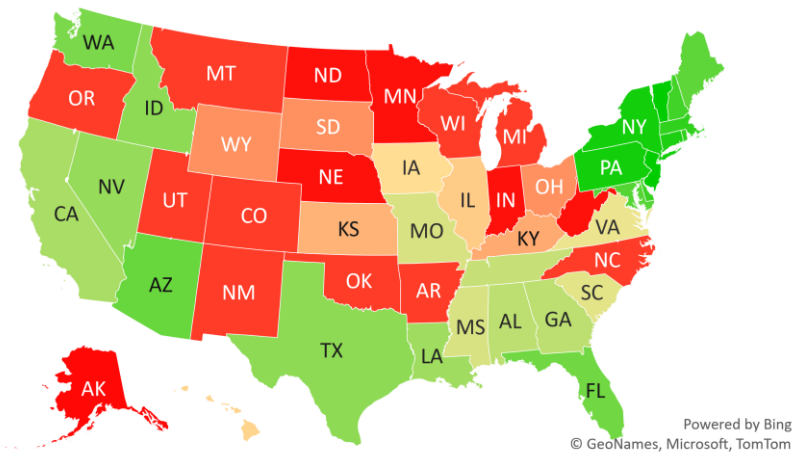
# #5: # of Days since Daily Case Peaked by States...

## # Days since Daily Cases (3D Avg) Peak (as of 10/12)

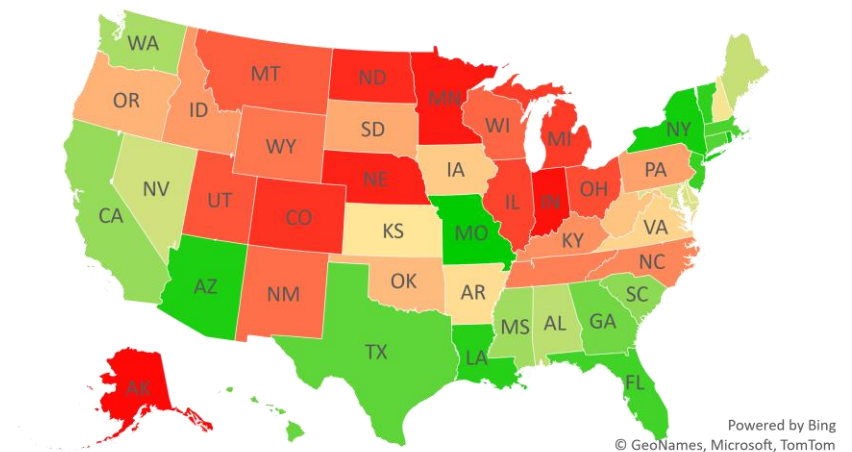
	Sorted			
	Peak Date	10/12/20	% off the Peak	% US Pop
United States	7/17/20	87	-36%	100%
<b>States:</b>				
Vermont	4/5/20	190	-83%	0.2%
New Jersey	4/5/20	190	-83%	2.7%
Pennsylvania	4/10/20	185	-26%	3.9%
New York	4/10/20	185	-89%	5.9%
Connecticut	4/22/20	173	-76%	1.1%
Rhode Island	4/25/20	170	-100%	0.3%
Massachusetts	4/25/20	170	-81%	2.1%
Delaware	4/28/20	167	-54%	0.3%
New Hampshire	5/2/20	163	-37%	0.4%
District of Columbia	5/3/20	162	-74%	0.2%
Maryland	5/21/20	144	-55%	1.8%
Maine	5/22/20	143	-58%	0.4%
Arizona	7/2/20	102	-85%	2.2%
Florida	7/13/20	91	-81%	6.5%
Washington	7/15/20	89	-64%	2.3%
Texas	7/17/20	87	-76%	8.7%
Idaho	7/17/20	87	-23%	0.5%
Nevada	7/18/20	86	-56%	0.9%
Louisiana	7/21/20	83	-85%	1.4%
California	7/24/20	80	-67%	11.9%
Georgia	7/25/20	79	-75%	3.2%
Alabama	7/25/20	79	-59%	1.5%
Tennessee	7/28/20	76	-19%	2.1%
Mississippi	7/30/20	74	-67%	0.9%
Missouri	7/30/20	74	-100%	1.8%
South Carolina	8/1/20	72	-71%	1.6%
Virginia	8/9/20	64	-31%	2.6%
U.S. Virgin Islands	8/21/20	52	-99%	0.0%

	Sorted			
	Peak Date	10/12/20	% off the Peak	% US Pop
United States	7/17/20	87	-36%	100%
<b>States:</b>				
Guam	8/27/20	46	-44%	0.0%
Iowa	8/28/20	45	-29%	1.0%
Hawaii	8/29/20	44	-75%	0.4%
Illinois	9/6/20	36	-15%	3.8%
Northern Mariana Island	9/22/20	20	-71%	0.0%
Puerto Rico	9/26/20	16	-61%	1.0%
Kansas	9/30/20	12	-35%	0.9%
Kentucky	10/3/20	9	-22%	1.3%
Wyoming	10/9/20	3	-17%	0.2%
South Dakota	10/9/20	3	-27%	0.3%
Ohio	10/9/20	3	-15%	3.5%
Wisconsin	10/10/20	2	-17%	1.8%
Utah	10/10/20	2	-16%	1.0%
Oregon	10/10/20	2	-27%	1.3%
Oklahoma	10/10/20	2	-27%	1.2%
New Mexico	10/10/20	2	-17%	0.6%
North Carolina	10/10/20	2	-22%	3.2%
Montana	10/10/20	2	-16%	0.3%
Michigan	10/10/20	2	-13%	3.0%
Colorado	10/10/20	2	-11%	1.7%
Arkansas	10/10/20	2	-33%	0.9%
West Virginia	10/11/20	1	-29%	0.5%
Nebraska	10/11/20	1	-7%	0.6%
North Dakota	10/11/20	1	-10%	0.2%
Minnesota	10/11/20	1	-5%	1.7%
Indiana	10/11/20	1	-5%	2.0%
Alaska	10/12/20	0	0%	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

RI's stats on Monday are not available as of 8PM ET.  
WA didn't report stats on Monday due to data issues.  
MO's stats in the past 3 days are not available due to database error.

	10/5/20	10/10/20	10/11/20	10/12/20	vs 7D ago
United States	36.650	50.023	45.814	41,929	+5,279
<b>States:</b>					
California	3,055	4,170	3,803	3,449	
Tennessee	2,489	1,646	2,068	2,965	
Illinois	1,853	2,905	2,727	2,742	<--higher
Texas	2,192	4,046	2,262	2,384	
Kansas	1,597	0	0	2,055	<--higher
Wisconsin	1,696	2,742	2,676	1,956	
Michigan	1,407	1,522	0	1,809	<--higher
Indiana	830	1,918	1,570	1,574	<--higher
Florida	1,415	0	5,570	1,533	
Ohio	1,057	1,356	1,291	1,430	<--higher
North Carolina	2,258	2,321	1,719	1,276	
Minnesota	973	1,516	1,440	1,171	<--higher
Pennsylvania	672	1,742	1,166	1,088	<--higher
Connecticut	823	0	0	1,066	<--higher
New York	933	1,447	1,143	1,029	
Utah	1,105	1,354	1,200	988	
Georgia	789	1,237	1,140	902	
Virginia	687	1,256	811	854	<--higher
Oklahoma	665	1,533	766	797	
Massachusetts	515	639	563	760	<--higher
Alabama	544	1,061	816	734	<--higher
Kentucky	541	989	847	638	
South Carolina	575	958	766	610	
Idaho	458	613	365	597	<--higher
Colorado	461	1,023	819	576	<--higher
Nevada	337	806	380	569	<--higher
Arkansas	392	788	554	568	<--higher
Maryland	501	636	562	504	

**Sorted**

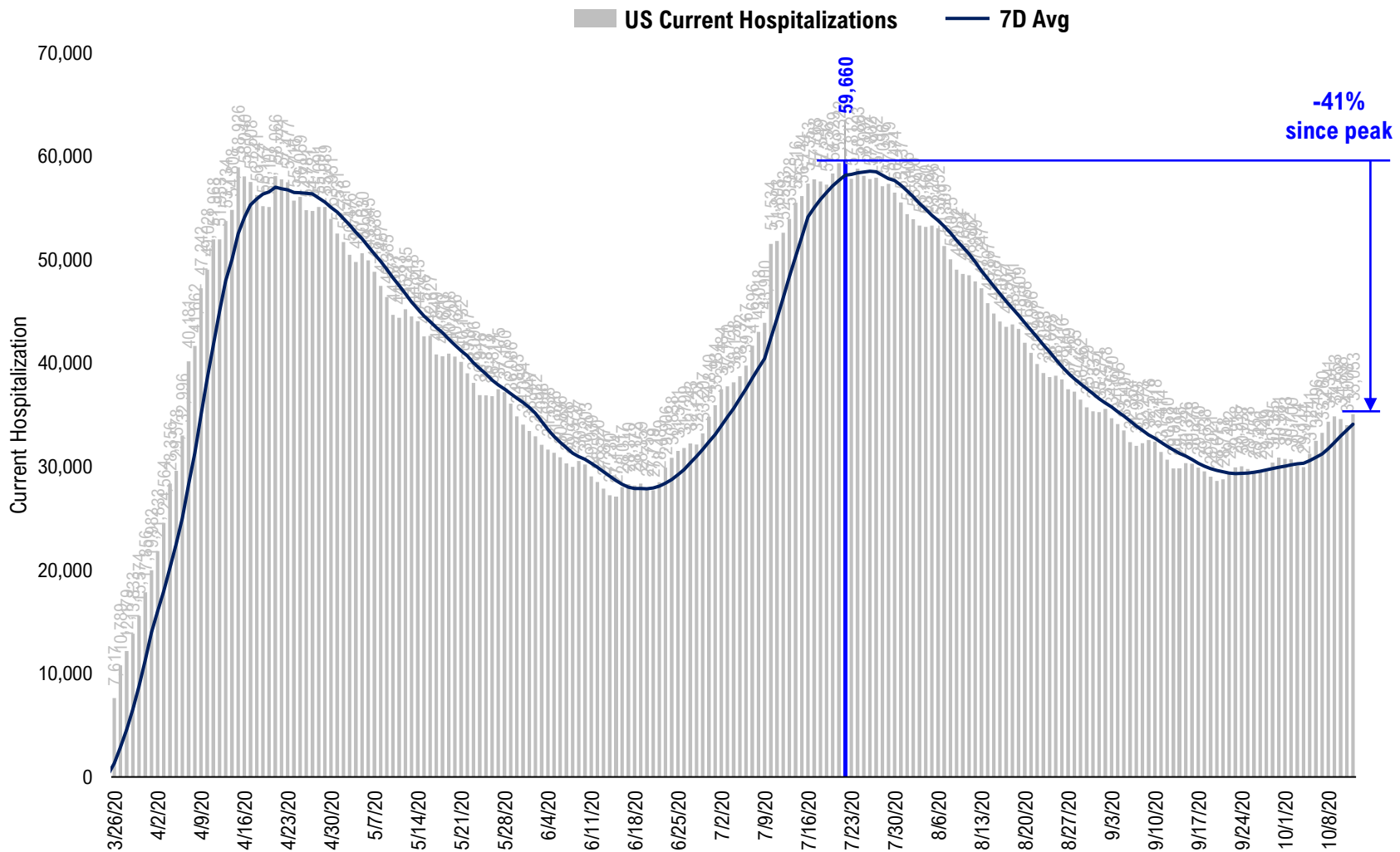
7D Ago      Last 3-day Trend

RI's stats on Monday are not available as of 8PM ET.  
WA didn't report stats on Monday due to data issues.  
MO's stats in the past 3 days are not available due to database error.

	10/5/20	10/10/20	10/11/20	10/12/20	vs 7D ago
United States	36,650	50,023	45,814	41,929	+5,279
<b>States:</b>					
Nebraska	404	1,085	743	495	<--higher
Arizona	316	894	597	475	<--higher
North Dakota	312	588	637	472	<--higher
New Jersey	511	864	751	469	
Iowa	364	1,084	1,075	463	<--higher
Montana	212	718	585	423	<--higher
New Mexico	155	481	261	379	<--higher
South Dakota	180	732	617	361	<--higher
Mississippi	215	957	294	296	<--higher
Puerto Rico	363	232	218	228	
Oregon	279	398	331	212	
Wyoming	125	120	156	191	<--higher
Alaska	208	249	255	191	
Delaware	120	171	132	159	<--higher
West Virginia	114	206	215	153	<--higher
Guam	54	67	22	92	<--higher
New Hampshire	35	122	51	65	<--higher
Louisiana	230	0	1,168	63	
Hawaii	52	71	103	42	
District of Columbia	28	75	66	38	<--higher
Maine	26	30	27	29	
Vermont	33	11	10	9	
Washington	455	642	475	0	
U.S. Virgin Islands	0	0	1	0	
Rhode Island	50	0	0	0	
Northern Mariana Islands	2	2	0	0	
Missouri	987	0	0	0	
American Samoa	0	0	0	0	

# #7: US Daily Hospitalizations...

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

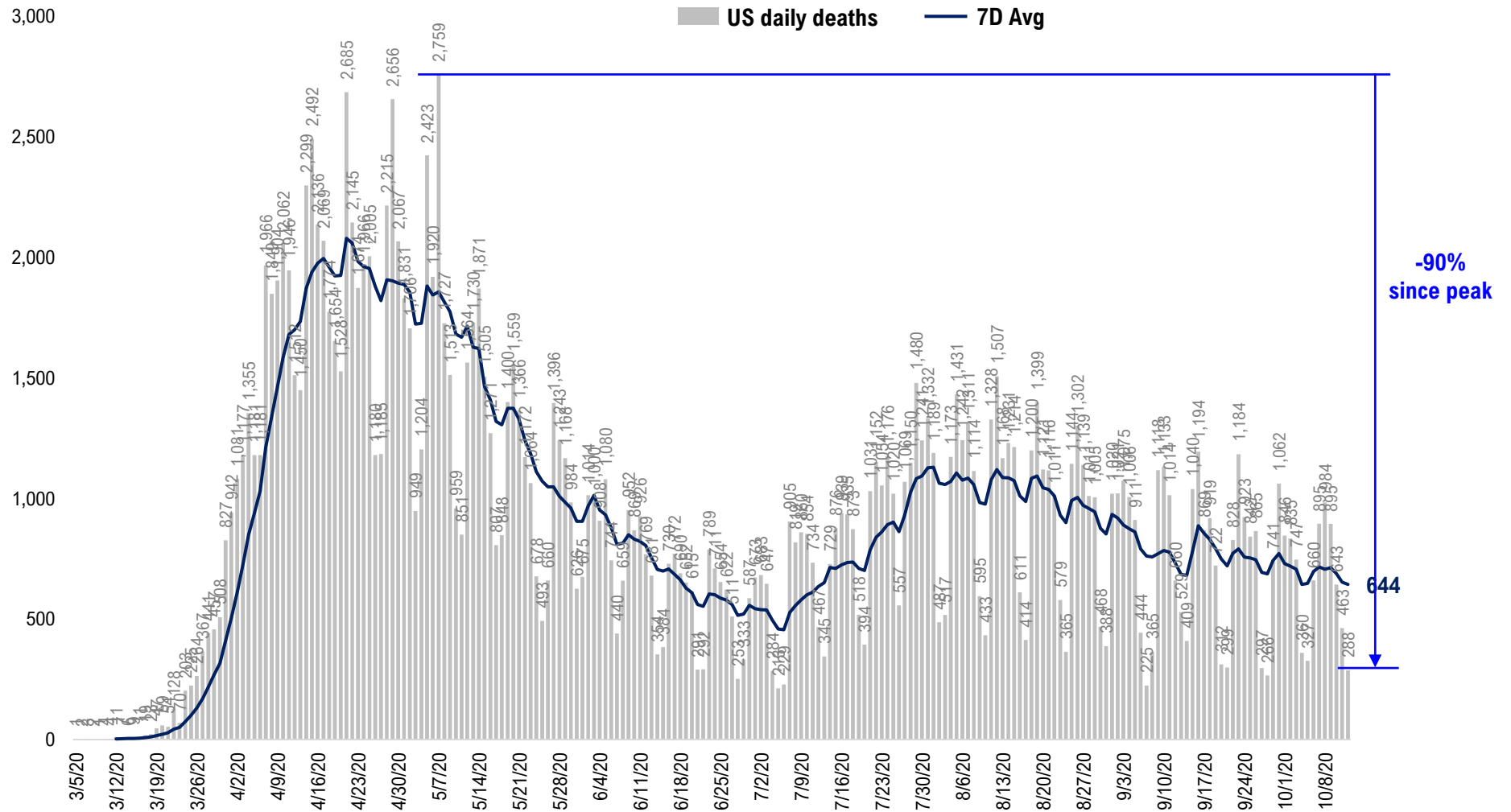


Source: Fundstrat, COVID-19 Tracking Project, State Department of Health



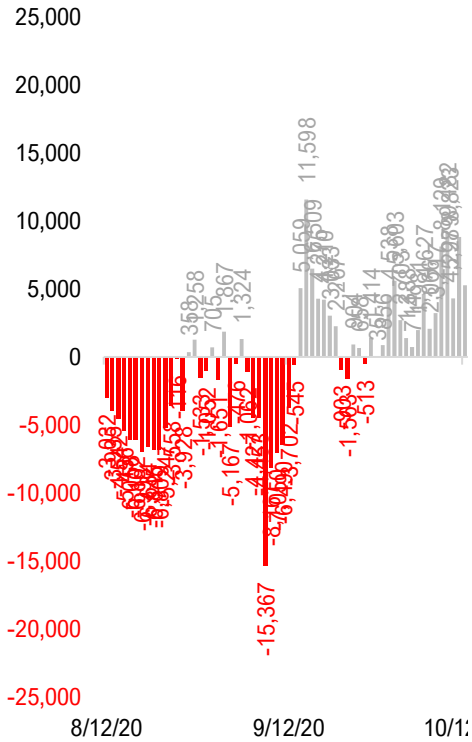
# #8: US Daily New Fatalities...

## US daily COVID-19 Fatalities

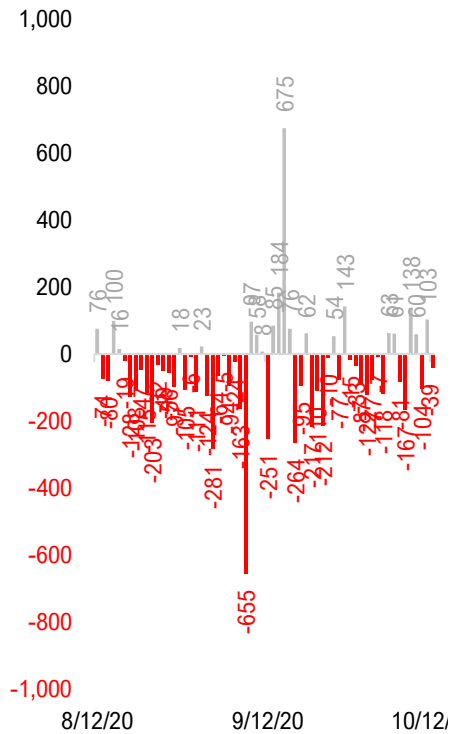


# #9: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

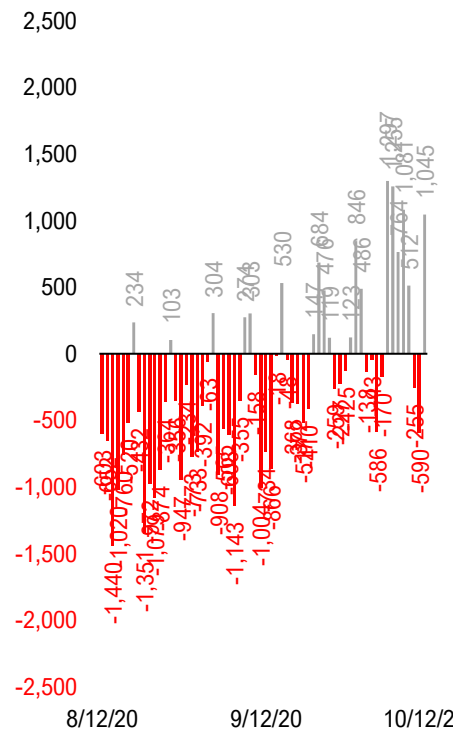
**Daily New Cases**  
(8/10-8/23 ex-CA; 9/4-9/5 ex-IL)



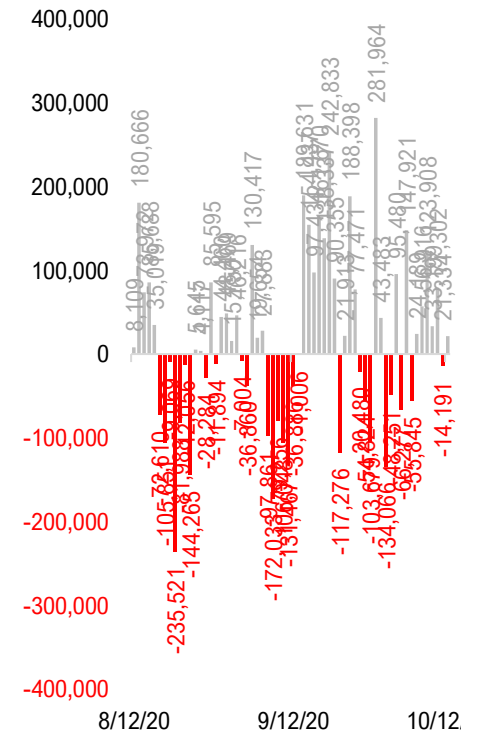
**Daily Deaths**



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

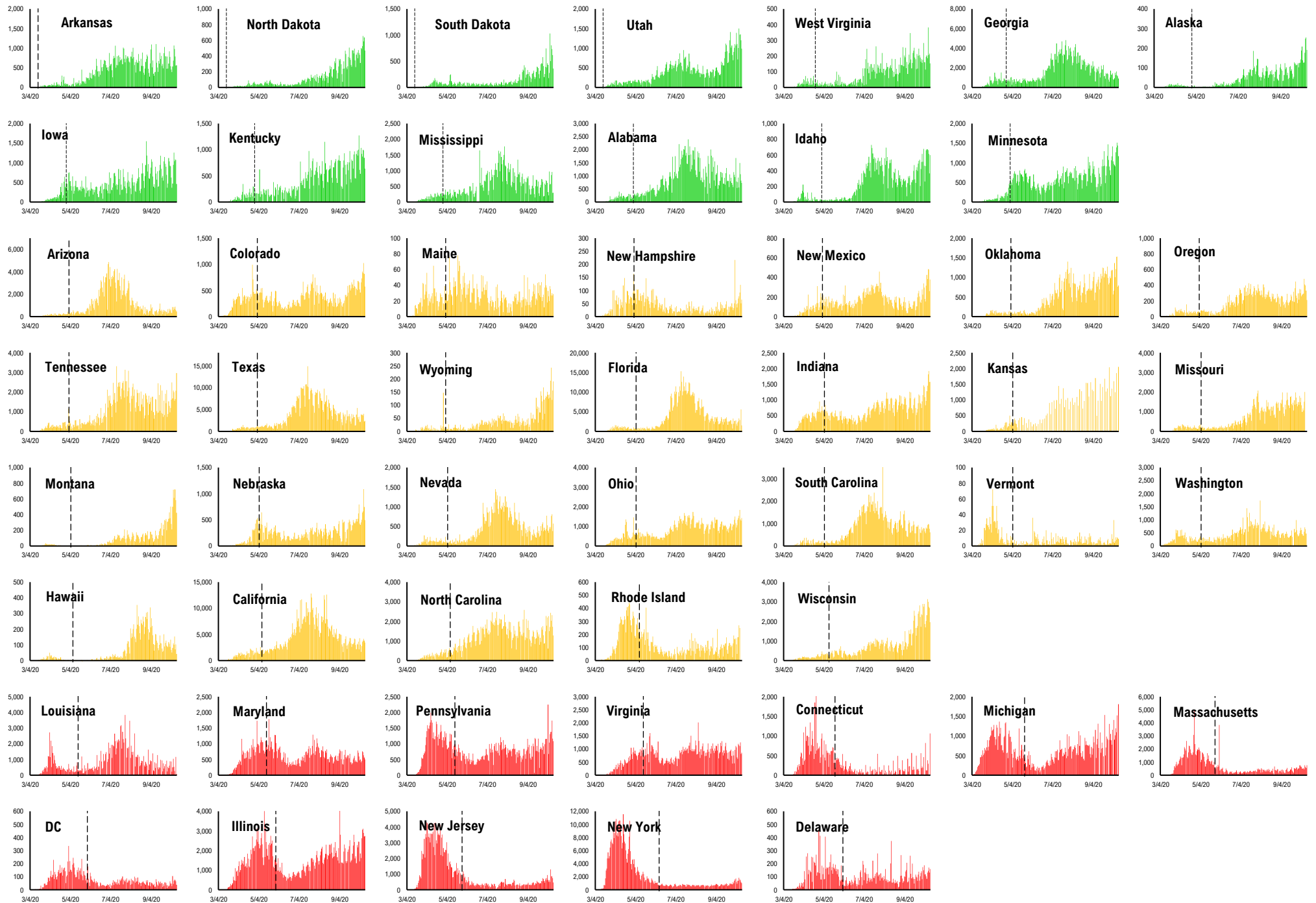


**Daily Tests**

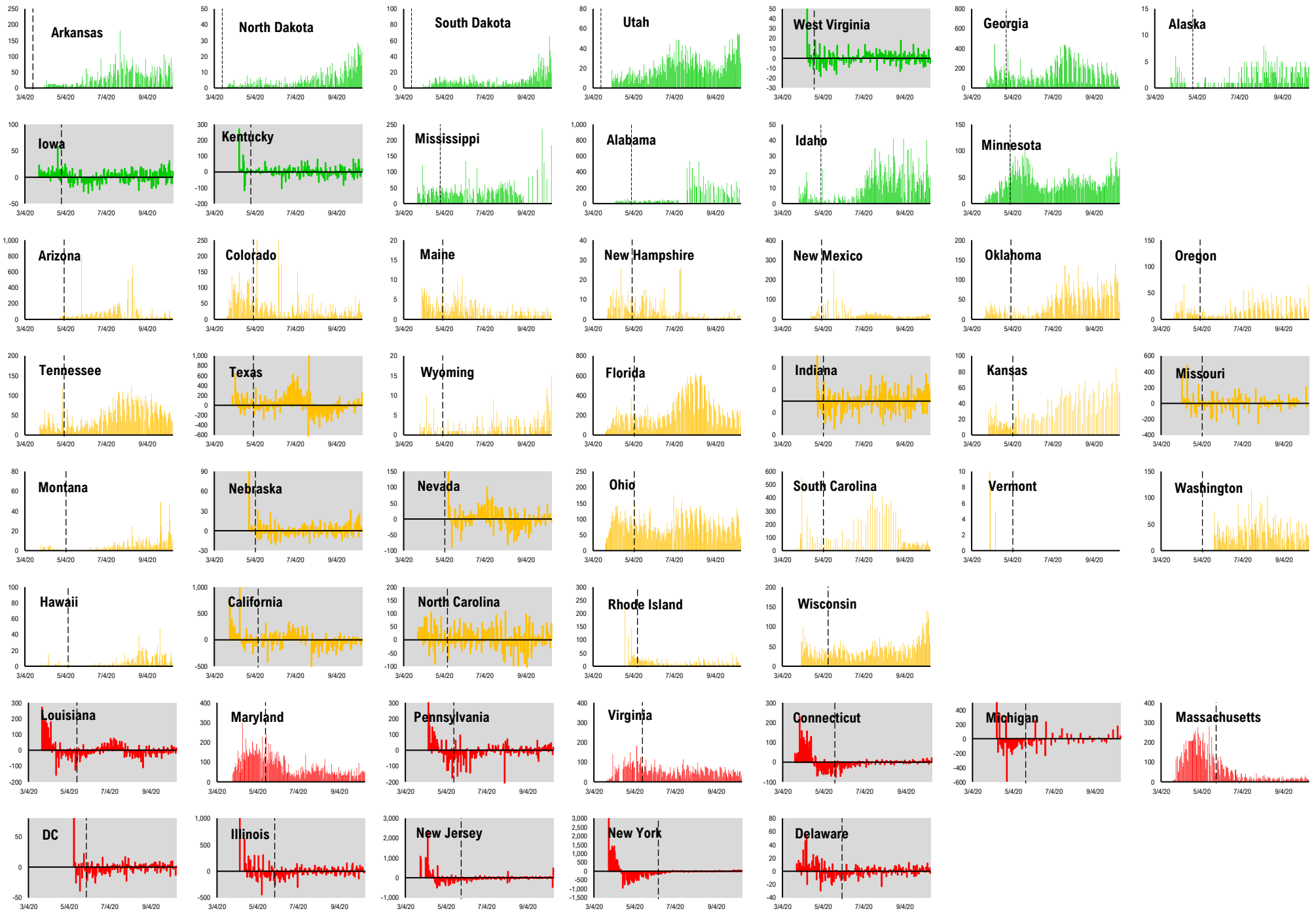


\* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog  
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

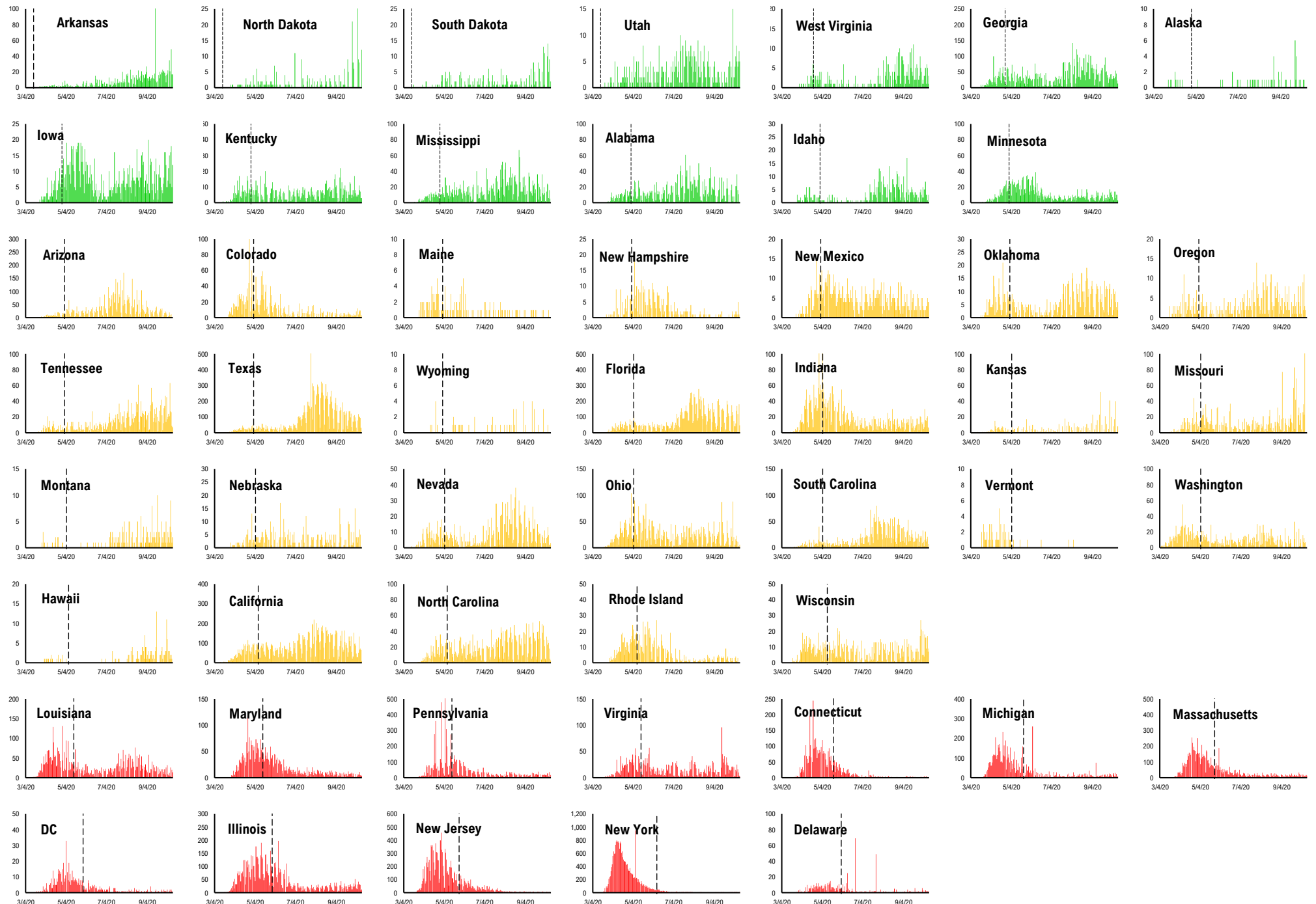
# #10: Daily New Cases by States... (sorted by "open" date)



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

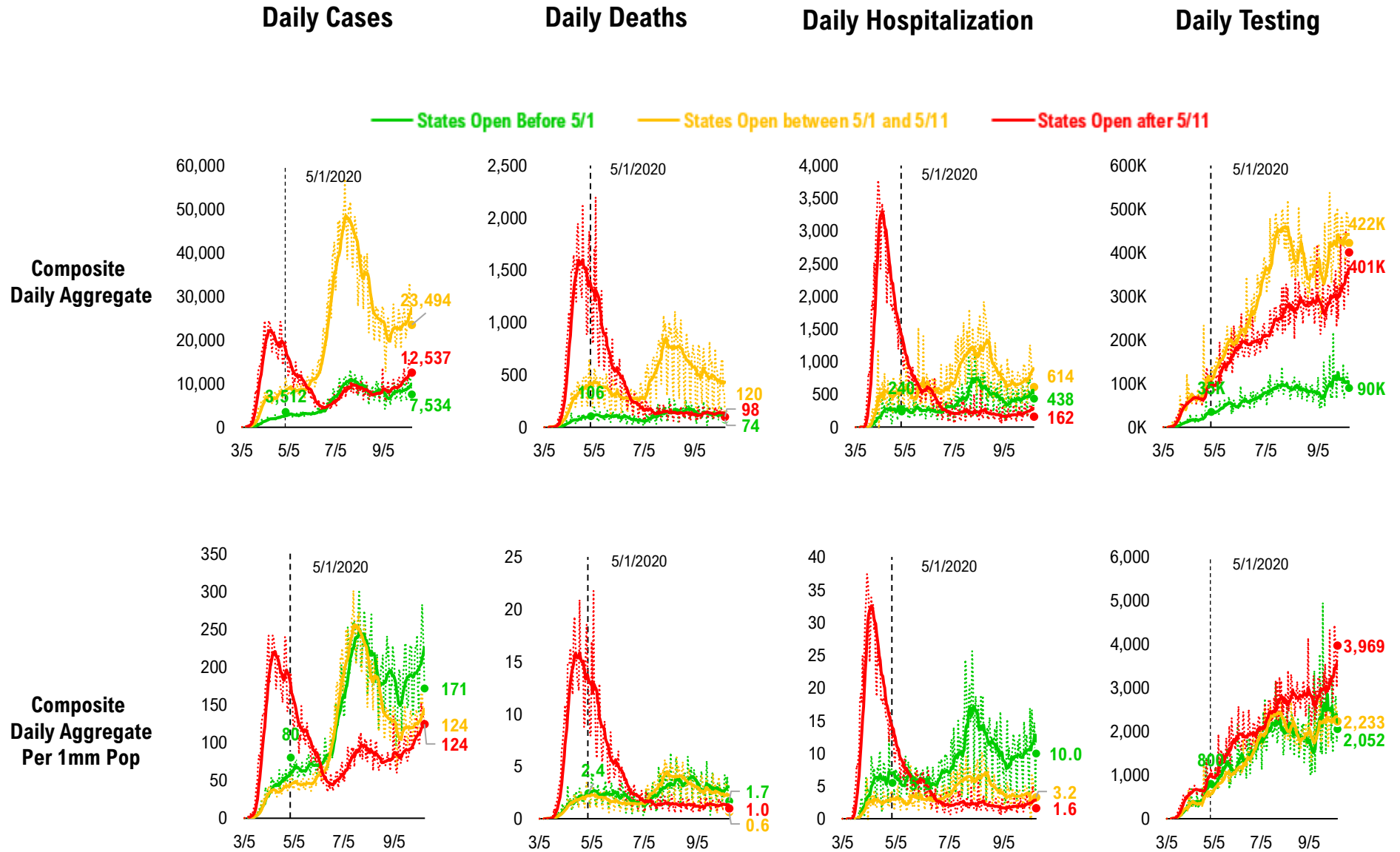


# #12: Daily New Deaths by States... (sorted by "open" date)



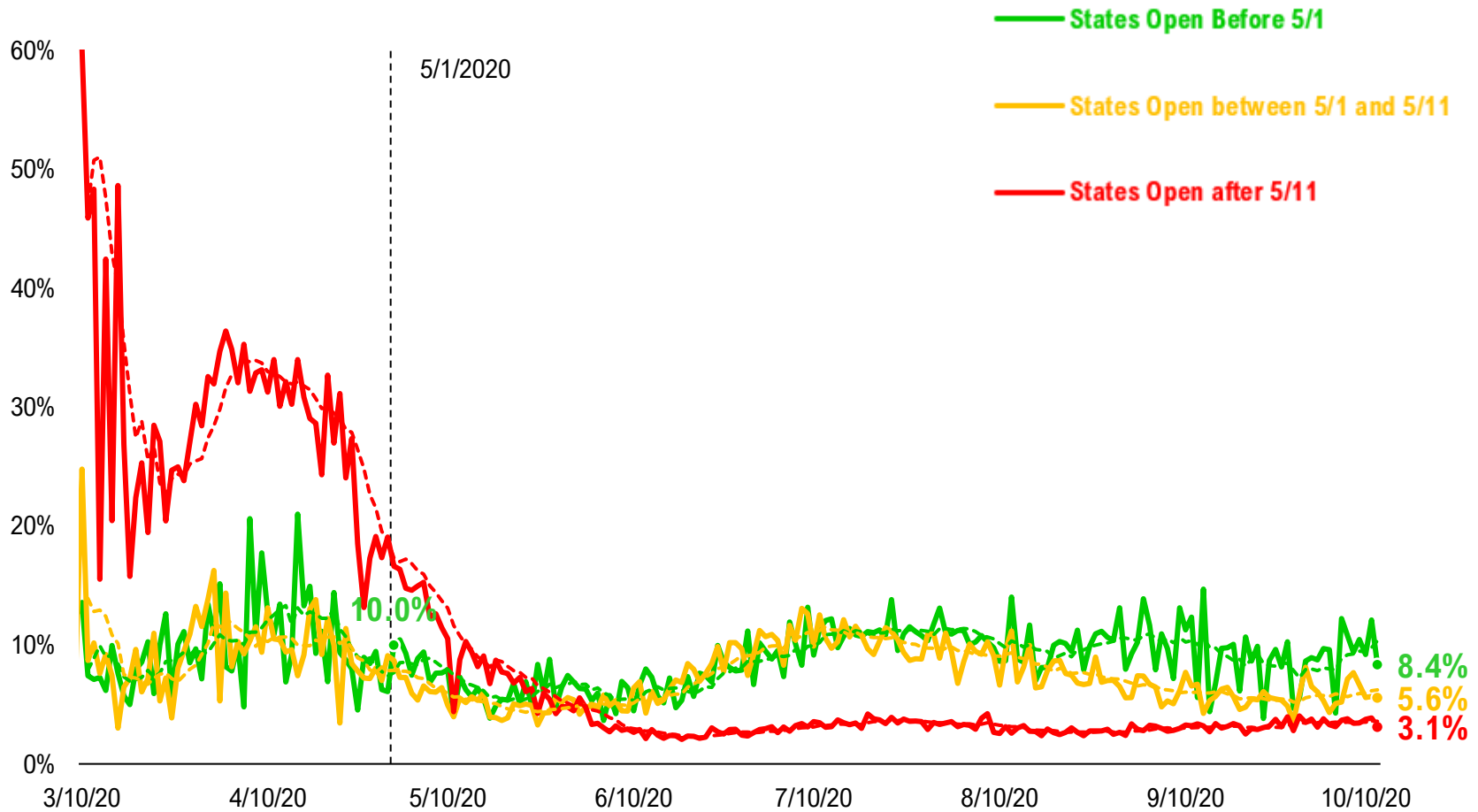


# #13: State COVID-19 situation by Reopen Date...

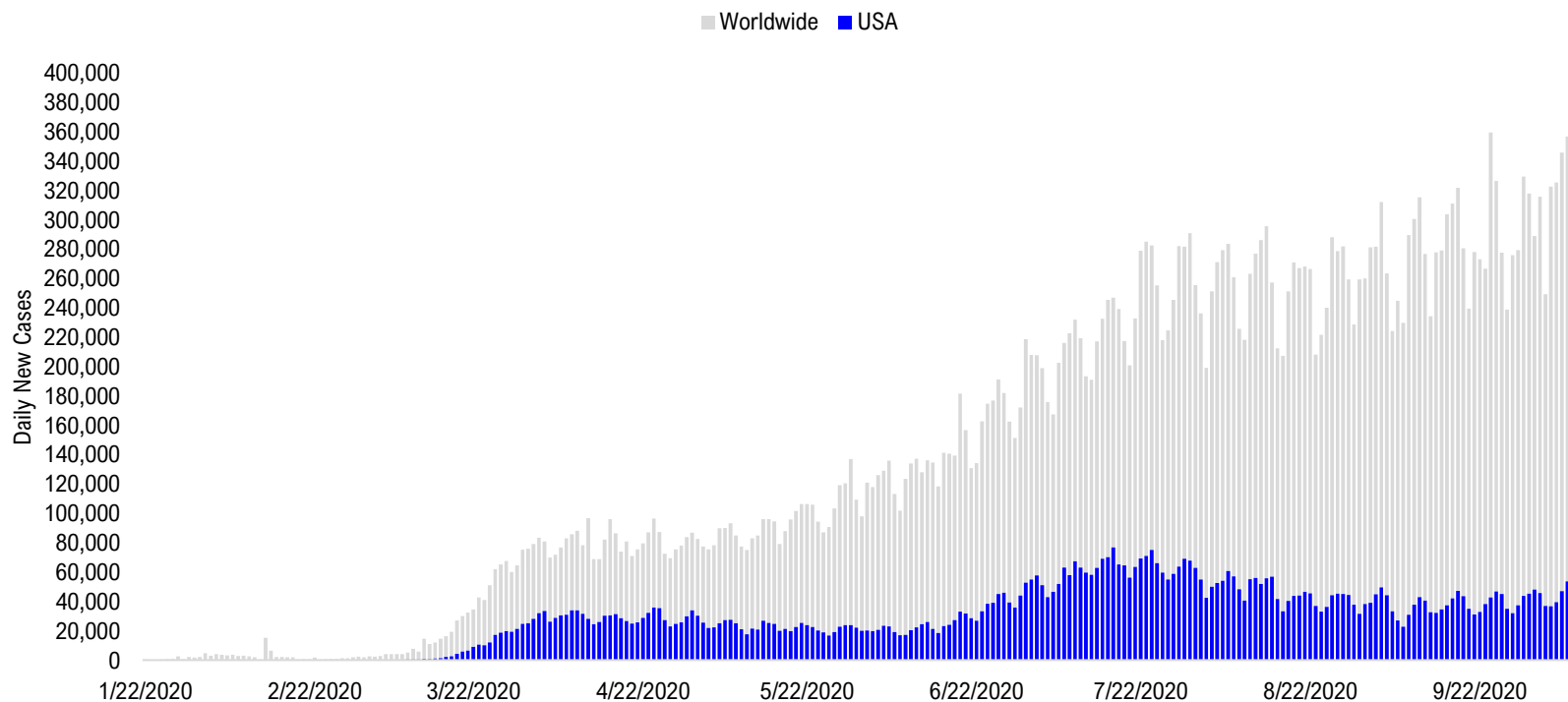


# #14: State COVID-19 Daily Positivity Rate by Reopen Date...

## 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	10/11/2020
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 93,592
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 73,261
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 60,177
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 54,925
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 13,691
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 10,345

# Disclosures

This research is for the clients of FS Insight only. For important disclosures and rating histories regarding sectors or companies that are the subject of this report, please contact your sales representative or FS Insight at 150 East 52nd Street, New York, NY, 10022 USA.

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