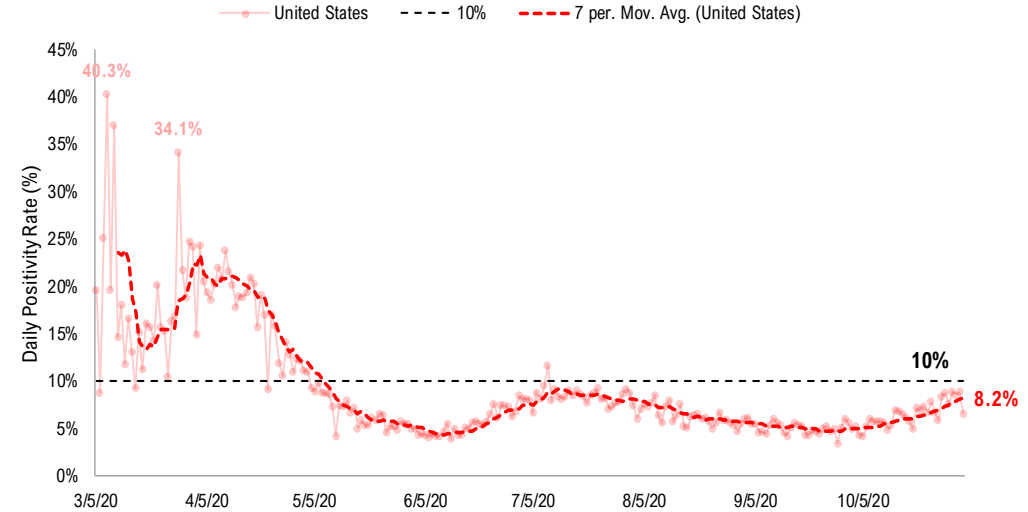
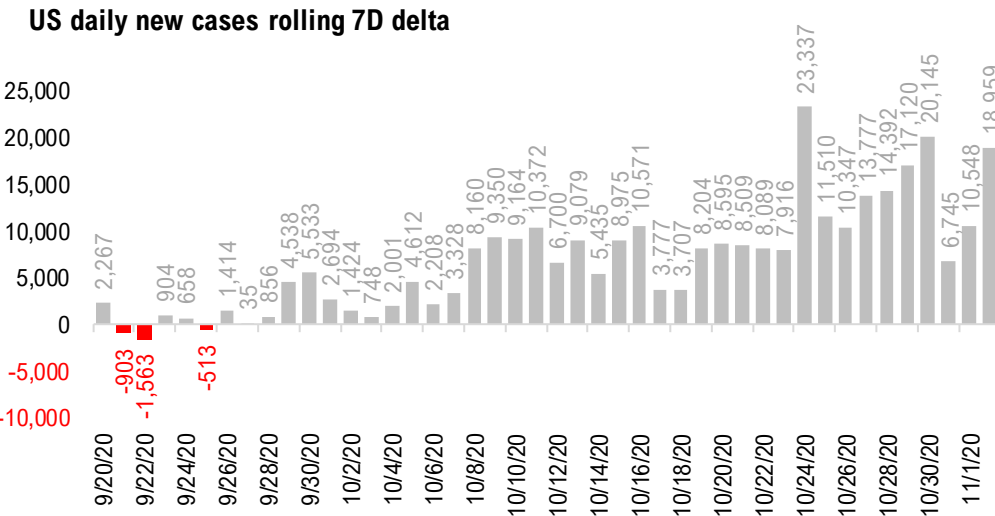
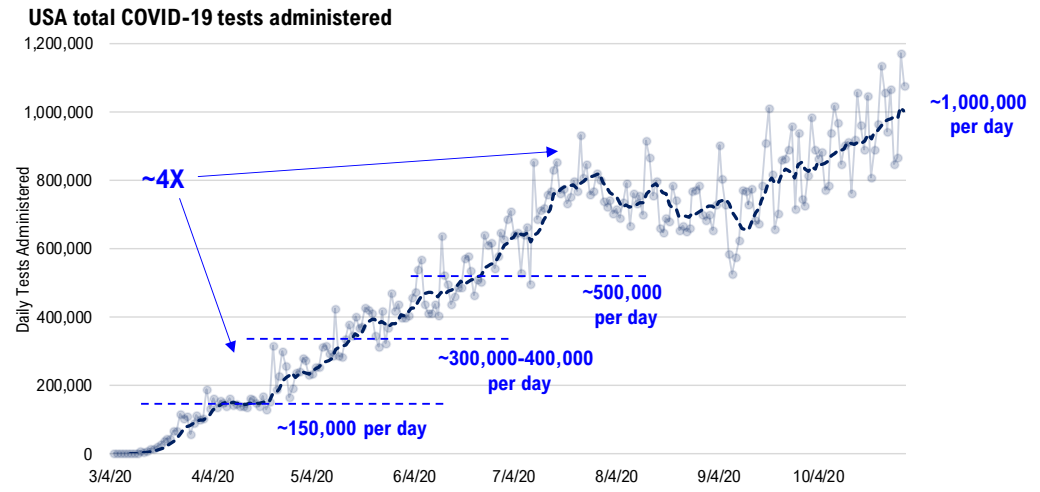
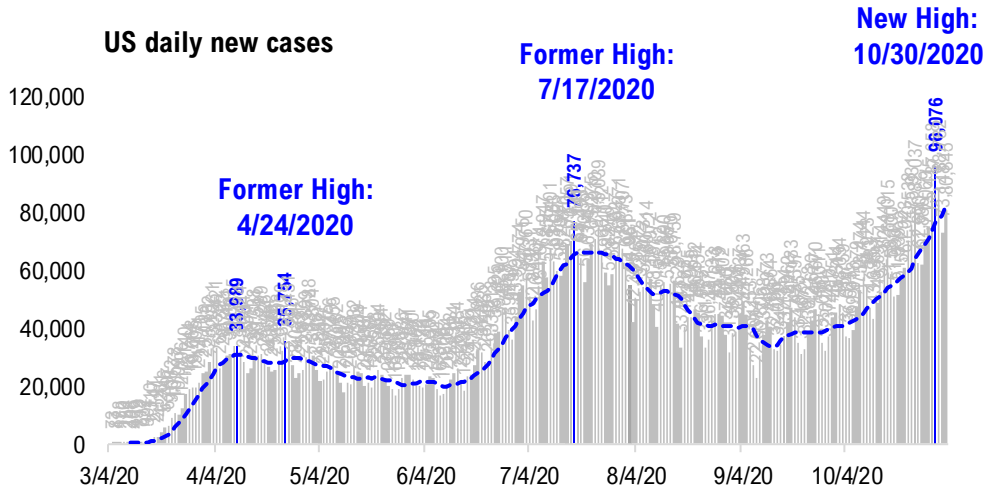


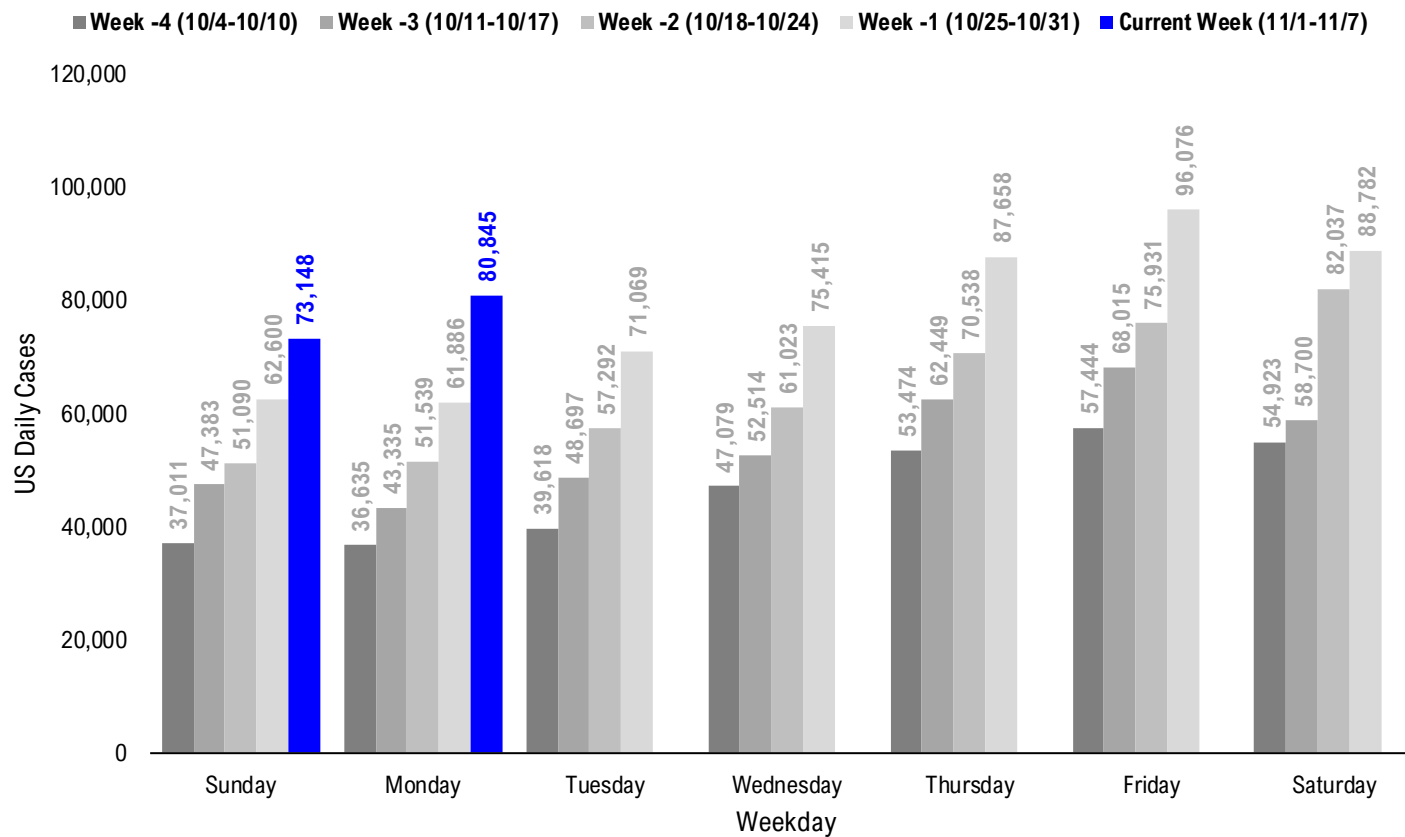
FSInsight Daily COVID-19 Chartbook



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



#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	
			11/2	Delta	11/2	Delta				# Days
United States	100%	100%	80.845	+18.959	247	+37	2	-11%	5.492	1.0%

	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	
			11/2	Delta	11/2	Delta				# Days
United States	100%	100%	80.845	+18.959	247	+37	2	-11%	5.492	1.0%

States:

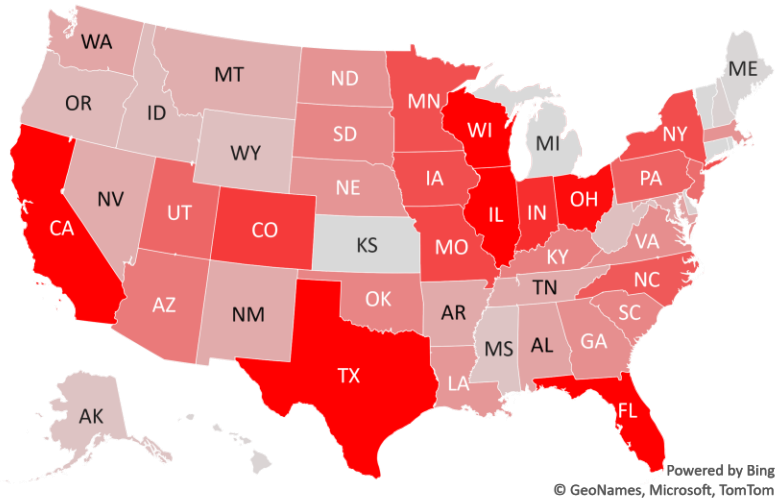
1 Michigan	3.0%	2.6%	6,709	+2,828	350	+110	2	-1%	634	2.8%
2 Illinois	3.8%	4.2%	6,222	+1,493	555	+162	1	-10%	733	1.6%
3 Florida	6.5%	5.0%	4,651	+1,274	184	+25	112	-69%	216	0.7%
4 California	11.9%	14.6%	4,094	+1,113	116	-4	101	-60%	250	0.8%
5 Kansas	0.9%	0.8%	4,046	+1,900	463	+217	3	-19%	11	0.1%
6 Texas	8.7%	8.8%	3,982	-436	172	+7	108	-59%	492	1.2%
7 Wisconsin	1.8%	1.6%	3,433	+550	699	+93	2	-20%	162	0.5%
8 Tennessee	2.1%	1.8%	3,161	+882	249	-159	8	-47%	239	1.6%
9 Indiana	2.0%	1.8%	3,077	+1,103	460	+120	2	-9%	125	0.6%
10 Minnesota	1.7%	1.8%	2,948	+1,378	482	+156	2	-10%	160	0.9%
11 Ohio	3.5%	3.3%	2,909	+793	260	+53	2	-12%	416	1.9%
12 Missouri	1.8%	1.5%	2,651	+1,124	434	+81	2	-7%	260	1.5%
13 Connecticut	1.1%	1.3%	2,651	+604	248	+56	194	-41%	70	1.2%
14 Colorado	1.7%	1.8%	2,237	+26	447	+115	1	-2%	202	1.4%
15 Pennsylvania	3.9%	3.8%	2,060	+653	169	+35	2	-12%	214	1.3%
16 New York	5.9%	8.1%	1,633	+442	102	+18	206	-81%	92	0.6%
17 Iowa	1.0%	0.9%	1,405	+658	654	+281	1	-11%	157	1.2%
18 New Jersey	2.7%	3.0%	1,368	+152	168	+8	211	-62%	161	1.4%
19 North Carolina	3.2%	2.7%	1,336	-307	197	+5	2	-27%	-47	(0.3%)
20 Utah	1.0%	0.9%	1,196	-5	496	+21	1	-19%	55	0.5%
21 Oklahoma	1.2%	1.0%	1,084	+421	312	+13	9	-23%	-72	(0.9%)
22 Washington	2.3%	2.7%	1,039	+452	122	+27	18	-12%	0	0.0%
23 Kentucky	1.3%	1.0%	1,028	+104	330	+60	2	-23%	130	1.1%
24 Virginia	2.6%	2.6%	1,026	+122	148	+31	2	-15%	-17	(0.2%)
25 North Dakota	0.2%	0.3%	972	+450	1545	+538	2	-12%	18	0.2%
26 Georgia	3.2%	2.9%	939	-19	147	+18	100	-64%	11	0.1%
27 Nebraska	0.6%	0.6%	934	+352	606	+173	2	-18%	178	2.3%
28 Alabama	1.5%	1.1%	907	-60	235	-64	100	-45%	0	0.0%

States:

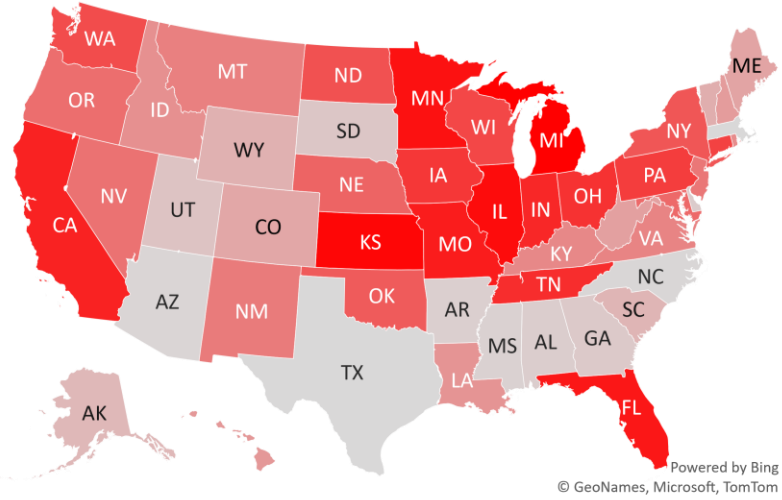
29 New Mexico	0.6%	0.5%	872	+149	349	-35	3	-20%	93	1.7%
30 Puerto Rico	1.0%	0.5%	864	+403	162	+32	8	-20%	87	2.7%
31 Maryland	1.8%	2.0%	850	+285	148	+29	165	-29%	73	1.2%
32 Massachusetts	2.1%	2.8%	842	-370	165	-4	191	-67%	-81	(0.9%)
33 South Carolina	1.6%	1.1%	802	+8	203	+9	93	-62%	12	0.2%
34 Montana	0.3%	0.2%	757	+136	729	+105	2	-18%	26	0.5%
35 Idaho	0.5%	0.4%	757	+60	380	-62	9	-33%	-9	(0.2%)
36 Arizona	2.2%	1.7%	666	-135	187	+46	123	-68%	81	0.9%
37 Nevada	0.9%	0.8%	635	+160	252	-20	107	-42%	147	2.5%
38 Oregon	1.3%	1.2%	549	+214	126	+40	2	-6%	20	0.6%
39 South Dakota	0.3%	0.3%	526	-12	1240	+283	1	-24%	25	0.3%
40 Arkansas	0.9%	0.6%	464	-66	254	+25	10	-21%	38	0.7%
41 Wyoming	0.2%	0.2%	444	+8	656	+119	3	-7%	30	1.1%
42 Mississippi	0.9%	0.6%	365	-82	171	-40	95	-67%	-22	(0.4%)
43 West Virginia	0.5%	0.4%	352	+35	232	+77	1	-12%	39	1.3%
44 Alaska	0.2%	0.3%	350	+2	517	-49	6	-9%	47	1.8%
45 Louisiana	1.4%	1.3%	270	+48	96	+10	104	-83%	-13	(0.4%)
46 Rhode Island	0.3%	0.3%	232	+65	392	+107	1	-21%	7	0.2%
47 Delaware	0.3%	0.4%	185	-22	192	+27	188	-44%	3	0.3%
48 New Hampshire	0.4%	0.4%	106	+37	107	+37	1	-2%	16	1.7%
49 Maine	0.4%	0.3%	84	+31	57	+17	2	-19%	16	2.9%
50 Hawaii	0.4%	0.5%	78	+42	54	-4	65	-74%	-6	(1.1%)
51 District of Columbia	0.2%	0.7%	69	+24	139	+43	183	-58%	-5	(0.8%)
52 Vermont	0.2%	0.2%	23	+13	34	-2	211	-63%	-7	(5.2%)
53 Guam	0.0%	0.0%	3	-117	131	-261	67	-80%	25	7.0%
54 U.S. Virgin Islands	0.0%	0.0%	2	+0	50	+44	73	-88%	0	0.0%
55 Northern Mariana	0.0%	0.0%	0	-4	23	+0	15	-56%	0	0.0%
56 American Samoa	0.0%	0.0%	0	+0	0	+0	0	0%	0	0.0%

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

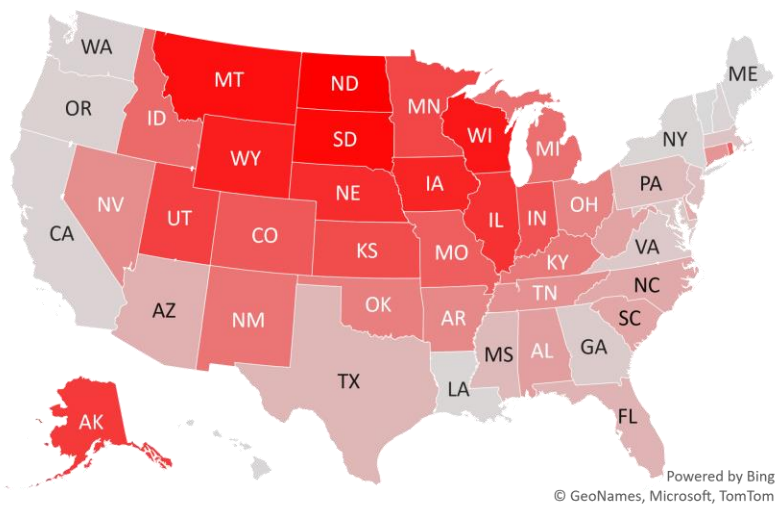
Daily Case Increases



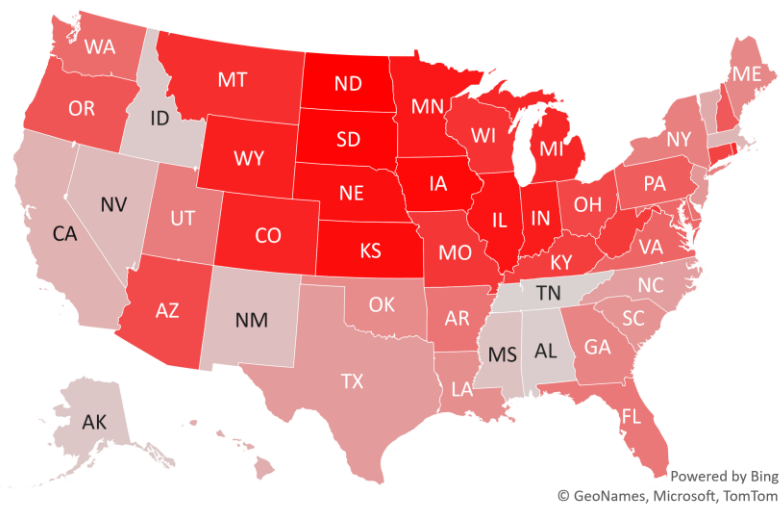
7D Delta in Daily New Cases



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



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

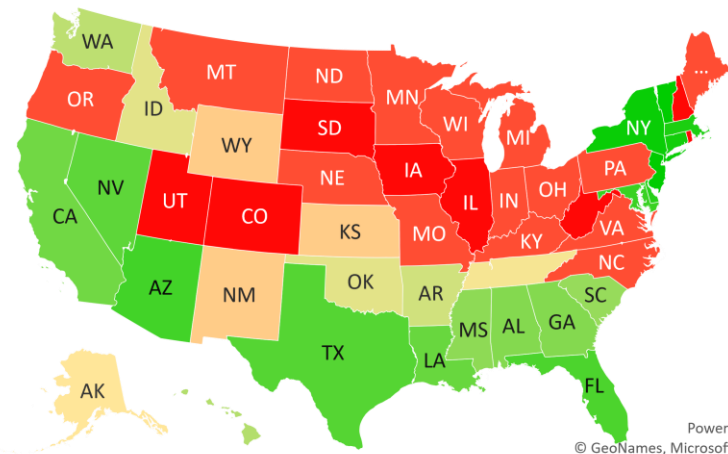


#5: # of Days since Daily Case Peaked by States...

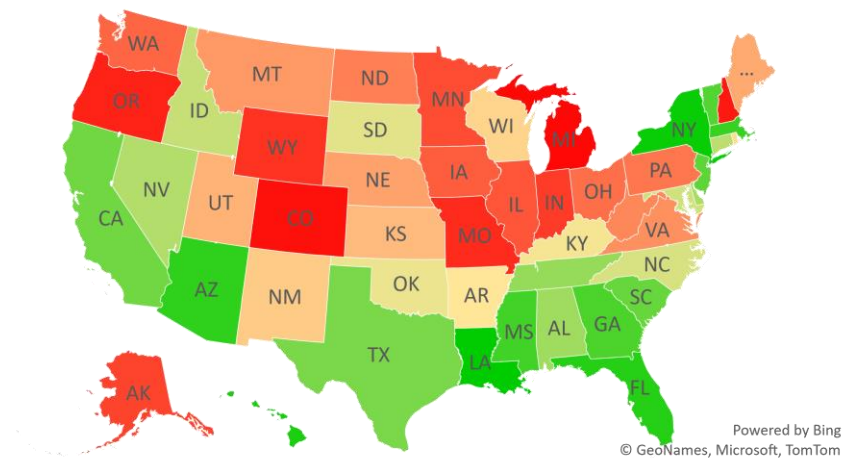
Days since Daily Cases (3D Avg) Peak (as of 11/2)

	Sorted					Sorted			
	Peak Date	11/2/20	% off the Peak	% US Pop		Peak Date	11/2/20	% off the Peak	% US Pop
United States	10/31/20	2	-11%	100%	United States	10/31/20	2	-11%	100%
States:					States:				
Vermont	4/5/20	211	-63%	0.2%	Alaska	10/27/20	6	-9%	0.2%
New Jersey	4/5/20	211	-62%	2.7%	Wyoming	10/30/20	3	-7%	0.2%
New York	4/10/20	206	-81%	5.9%	New Mexico	10/30/20	3	-20%	0.6%
Connecticut	4/22/20	194	-41%	1.1%	Kansas	10/30/20	3	-19%	0.9%
Massachusetts	4/25/20	191	-67%	2.1%	Wisconsin	10/31/20	2	-20%	1.8%
Delaware	4/28/20	188	-44%	0.3%	Virginia	10/31/20	2	-15%	2.6%
District of Columbia	5/3/20	183	-58%	0.2%	Pennsylvania	10/31/20	2	-12%	3.9%
Maryland	5/21/20	165	-29%	1.8%	Oregon	10/31/20	2	-6%	1.3%
Arizona	7/2/20	123	-68%	2.2%	Ohio	10/31/20	2	-12%	3.5%
Florida	7/13/20	112	-69%	6.5%	Nebraska	10/31/20	2	-18%	0.6%
Texas	7/17/20	108	-59%	8.7%	North Dakota	10/31/20	2	-12%	0.2%
Nevada	7/18/20	107	-42%	0.9%	North Carolina	10/31/20	2	-27%	3.2%
Louisiana	7/21/20	104	-83%	1.4%	Montana	10/31/20	2	-18%	0.3%
California	7/24/20	101	-60%	11.9%	Missouri	10/31/20	2	-7%	1.8%
Georgia	7/25/20	100	-64%	3.2%	Minnesota	10/31/20	2	-10%	1.7%
Alabama	7/25/20	100	-45%	1.5%	Michigan	10/31/20	2	-1%	3.0%
Mississippi	7/30/20	95	-67%	0.9%	Maine	10/31/20	2	-19%	0.4%
South Carolina	8/1/20	93	-62%	1.6%	Kentucky	10/31/20	2	-23%	1.3%
U.S. Virgin Islands	8/21/20	73	-88%	0.0%	Indiana	10/31/20	2	-9%	2.0%
Guam	8/27/20	67	-80%	0.0%	West Virginia	11/1/20	1	-12%	0.5%
Hawaii	8/29/20	65	-74%	0.4%	Utah	11/1/20	1	-19%	1.0%
Washington	10/15/20	18	-12%	2.3%	South Dakota	11/1/20	1	-24%	0.3%
Northern Mariana Island	10/18/20	15	-56%	0.0%	Rhode Island	11/1/20	1	-21%	0.3%
Arkansas	10/23/20	10	-21%	0.9%	New Hampshire	11/1/20	1	-2%	0.4%
Oklahoma	10/24/20	9	-23%	1.2%	Illinois	11/1/20	1	-10%	3.8%
Idaho	10/24/20	9	-33%	0.5%	Iowa	11/1/20	1	-11%	1.0%
Tennessee	10/25/20	8	-47%	2.1%	Colorado	11/1/20	1	-2%	1.7%
Puerto Rico	10/25/20	8	-20%	1.0%					

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



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



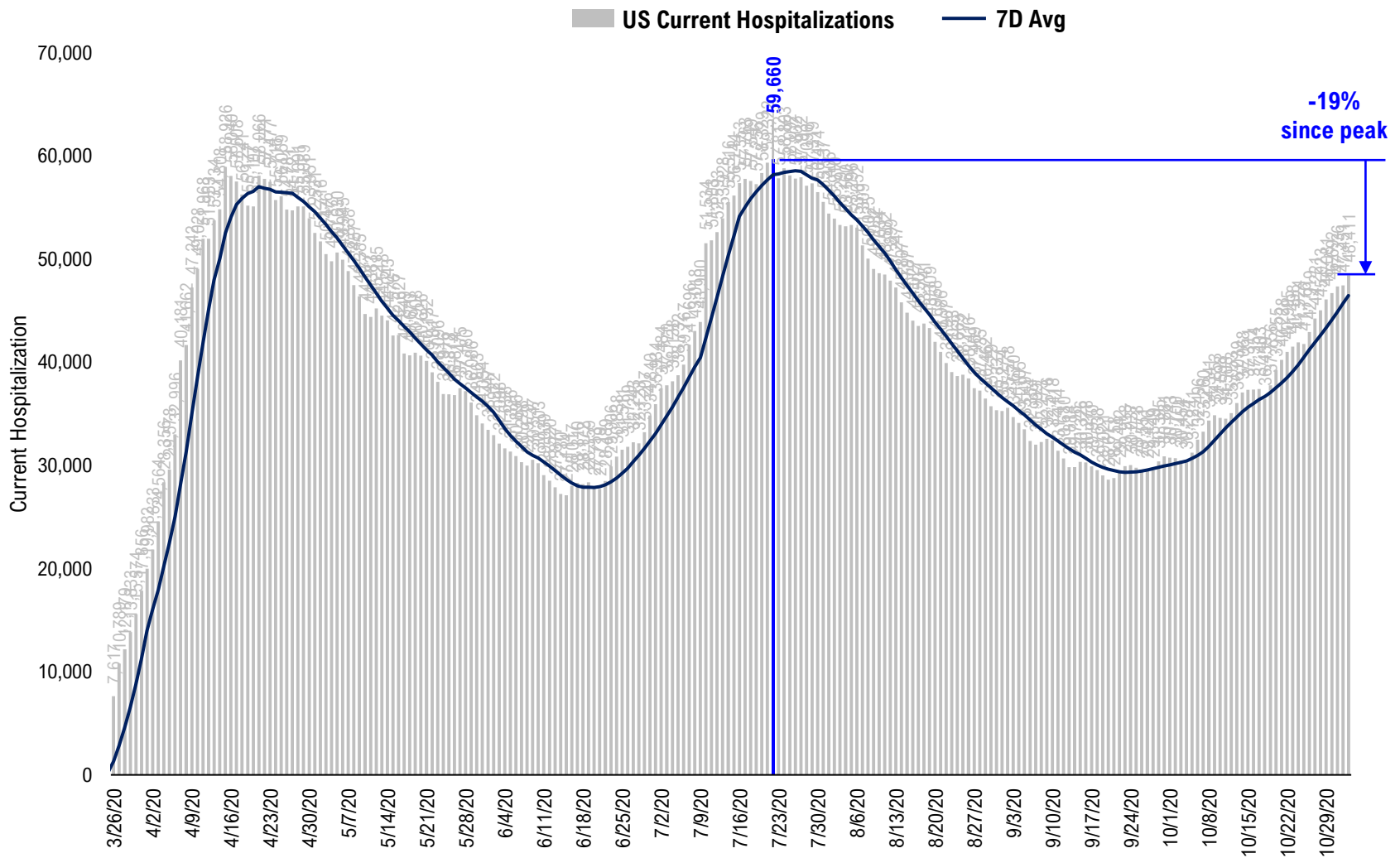
#6: US New Cases by States... (sorted by today's new cases)

	Sorted				
	7D Ago	Last 3-day Trend			
	10/26/20	10/31/20	11/1/20	11/2/20	vs 7D ago
United States	61,886	88,782	73,148	80,845	+18,959
States:					
Michigan	3,881	3,792	0	6,709	<--higher
Illinois	4,729	7,899	6,980	6,222	<--higher
Florida	3,377	2,331	4,865	4,651	<--higher
California	2,981	5,087	4,529	4,094	<--higher
Kansas	2,146	0	0	4,046	<--higher
Texas	4,418	6,845	4,111	3,982	
Wisconsin	2,883	5,278	3,493	3,433	
Tennessee	2,279	1,184	754	3,161	<--higher
Indiana	1,974	3,465	2,750	3,077	<--higher
Minnesota	1,570	3,007	2,200	2,948	<--higher
Ohio	2,116	2,915	3,303	2,909	<--higher
Missouri	1,527	2,986	2,349	2,651	<--higher
Connecticut	2,047	0	0	2,651	<--higher
Colorado	2,211	2,924	2,560	2,237	
Pennsylvania	1,407	2,510	1,909	2,060	<--higher
New York	1,191	2,049	2,255	1,633	<--higher
Iowa	747	2,570	2,212	1,405	<--higher
New Jersey	1,216	1,363	1,743	1,368	
North Carolina	1,643	2,805	2,057	1,336	
Utah	1,201	1,724	1,854	1,196	
Oklahoma	663	1,267	1,349	1,084	<--higher
Washington	587	928	814	1,039	<--higher
Kentucky	924	1,977	1,423	1,028	
Virginia	904	1,551	1,202	1,026	
North Dakota	522	1,433	1,127	972	<--higher
Georgia	958	2,565	1,192	939	
Nebraska	582	1,495	1,087	934	<--higher
Alabama	967	1,699	854	907	

	Sorted				
	7D Ago	Last 3-day Trend			
	10/26/20	10/31/20	11/1/20	11/2/20	vs 7D ago
United States	61,886	88,782	73,148	80,845	+18,959
States:					
New Mexico	723	581	742	872	<--higher
Puerto Rico	461	285	403	864	<--higher
Maryland	565	967	864	850	<--higher
Massachusetts	1,212	1,430	1,131	842	
South Carolina	794	953	1,375	802	
Montana	621	885	694	757	<--higher
Idaho	697	798	480	757	
Arizona	801	1,901	1,527	666	
Nevada	475	977	716	635	<--higher
Oregon	335	532	508	549	<--higher
South Dakota	538	1,433	1,332	526	
Arkansas	530	1,077	757	464	
Wyoming	436	270	425	444	
Mississippi	447	824	340	365	
West Virginia	317	470	423	352	
Alaska	348	437	348	350	
Louisiana	222	0	1,064	270	<--higher
Rhode Island	167	534	480	232	<--higher
Delaware	207	200	175	185	
New Hampshire	69	200	130	106	<--higher
Maine	53	98	47	84	<--higher
Hawaii	36	68	82	78	<--higher
District of Columbia	45	122	103	69	<--higher
Vermont	10	24	17	23	<--higher
Guam	120	53	9	3	
U.S. Virgin Islands	2	14	0	2	
Northern Mariana Islands	4	0	4	0	
American Samoa	0	0	0	0	

#7: US Daily Hospitalizations...

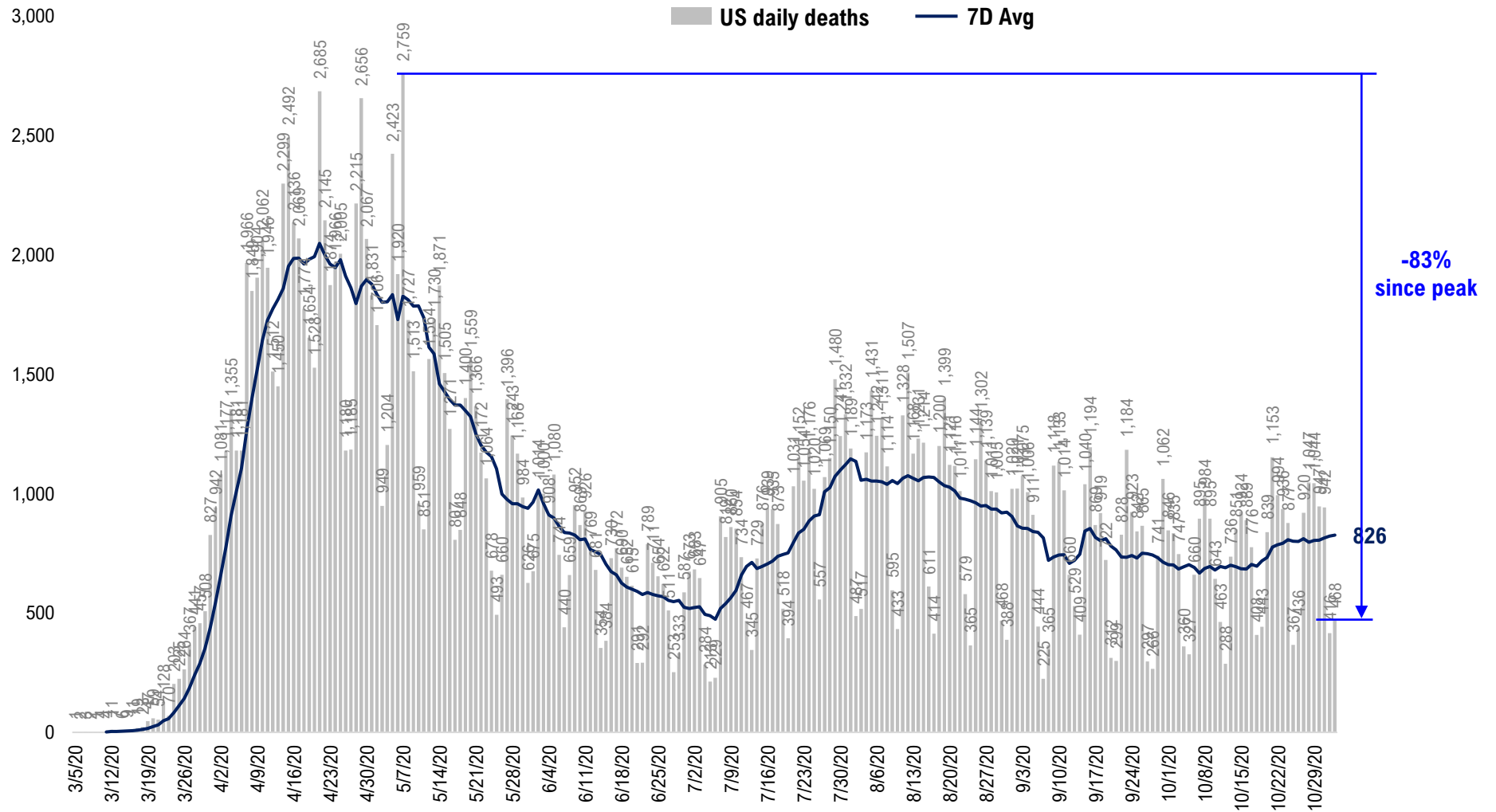
US Net Hospitalizations (aggregate of 50 states + Washington, D.C.)



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

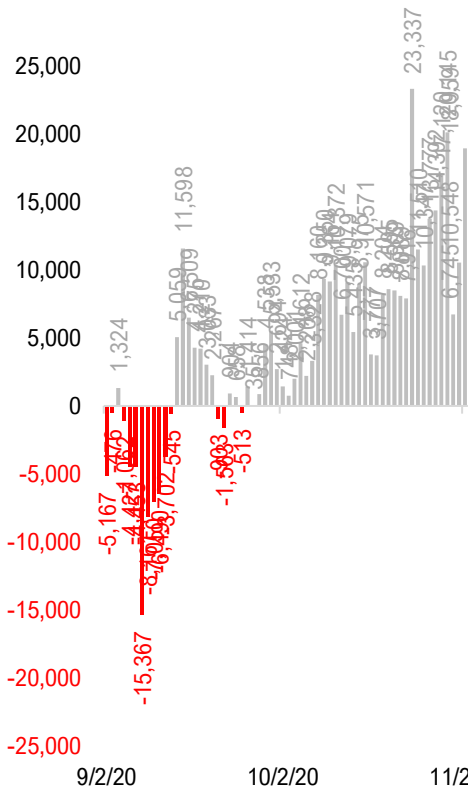
#8: US Daily New Fatalities...

US daily COVID-19 Fatalities

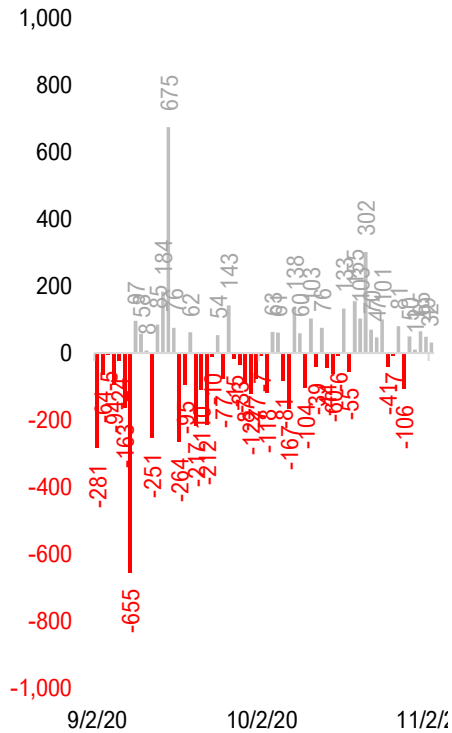


#9: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

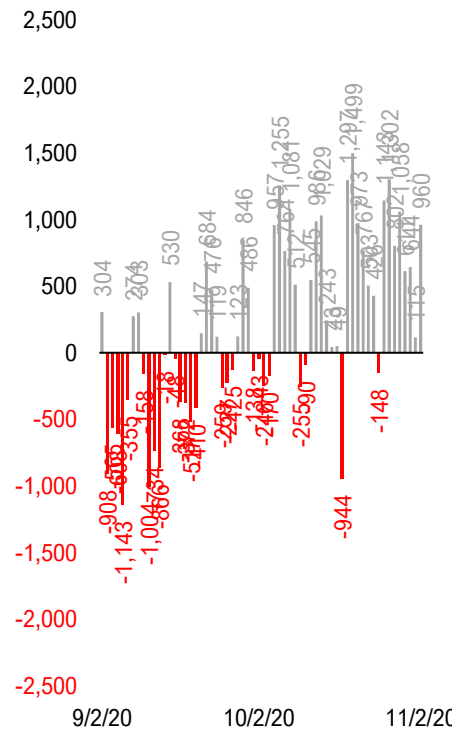
Daily New Cases
(8/10-8/23 ex-CA; 9/4-9/5 ex-IL)



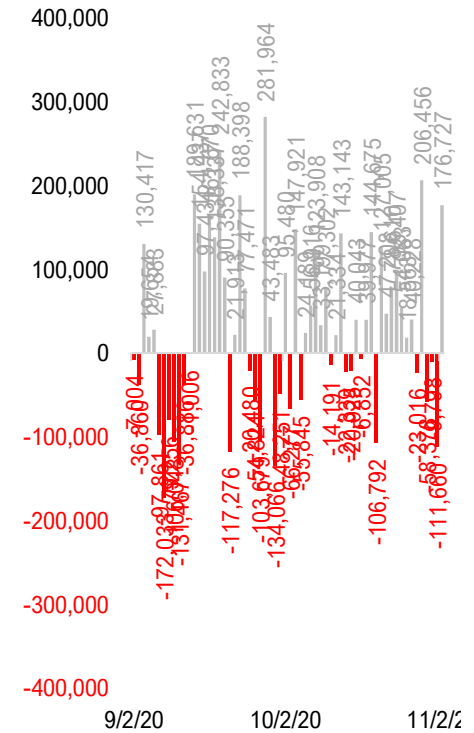
Daily Deaths



Daily Net Hospitalization
(Red = more discharge than admission)

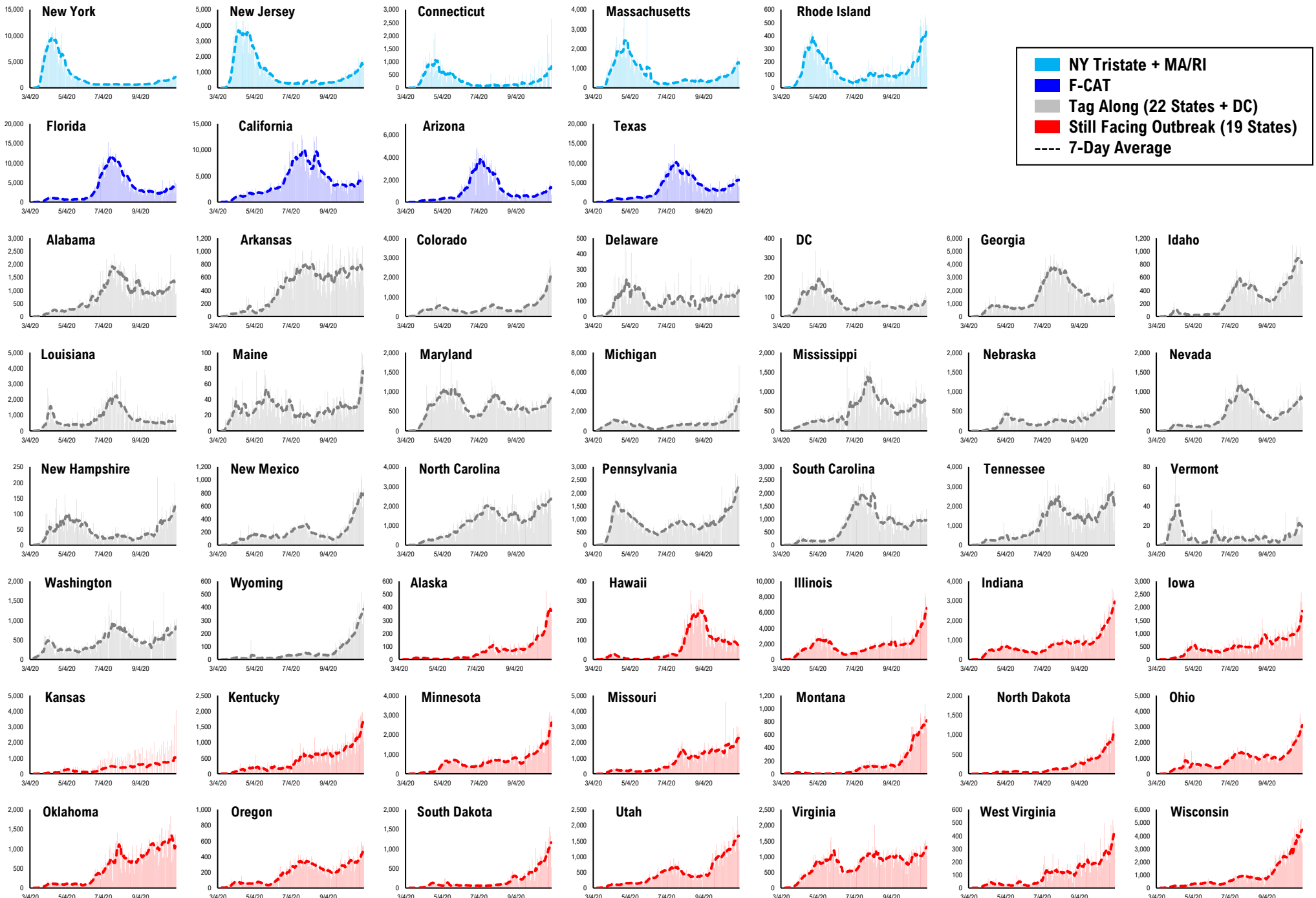


Daily Tests

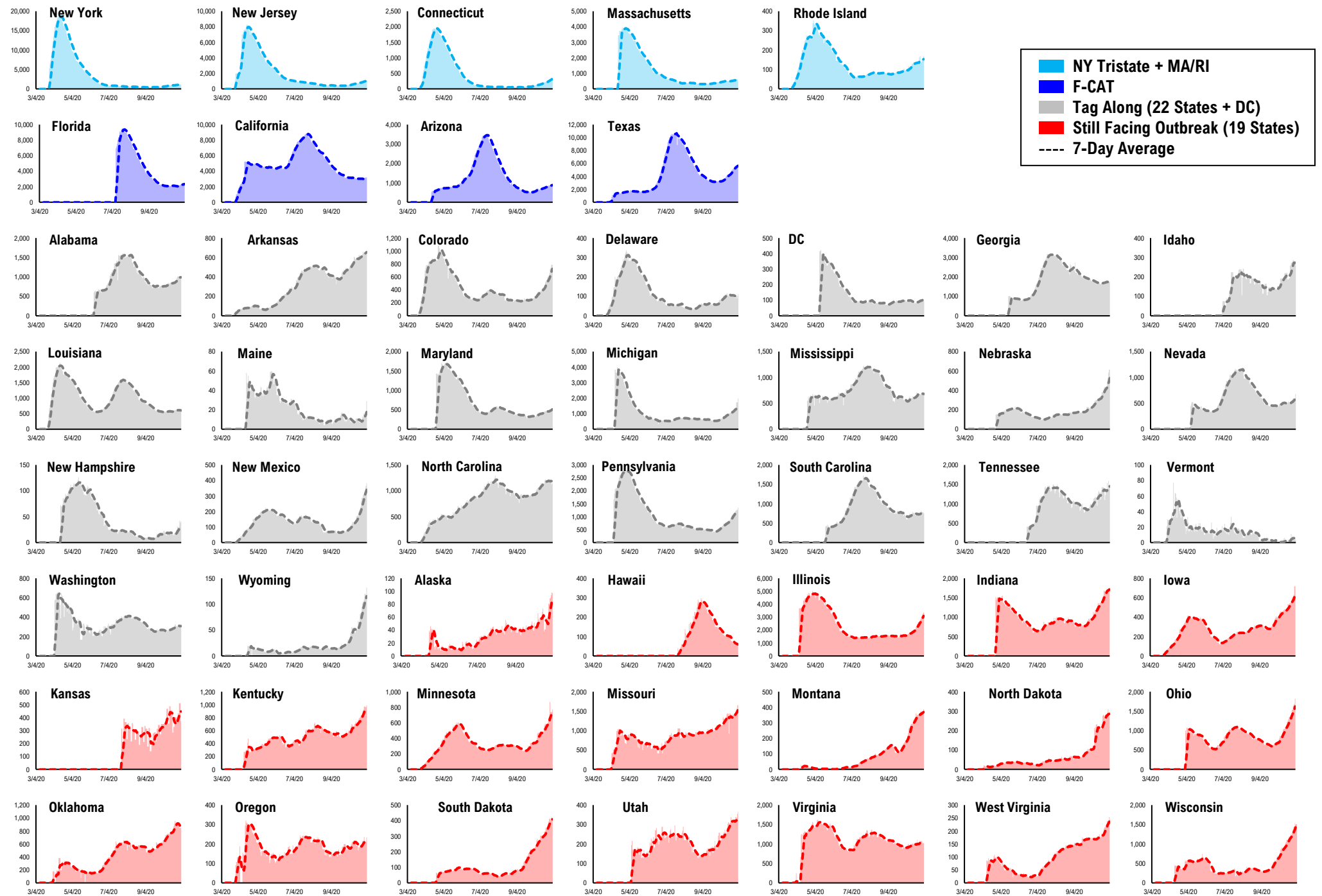


* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

#10: Daily New Cases by States...

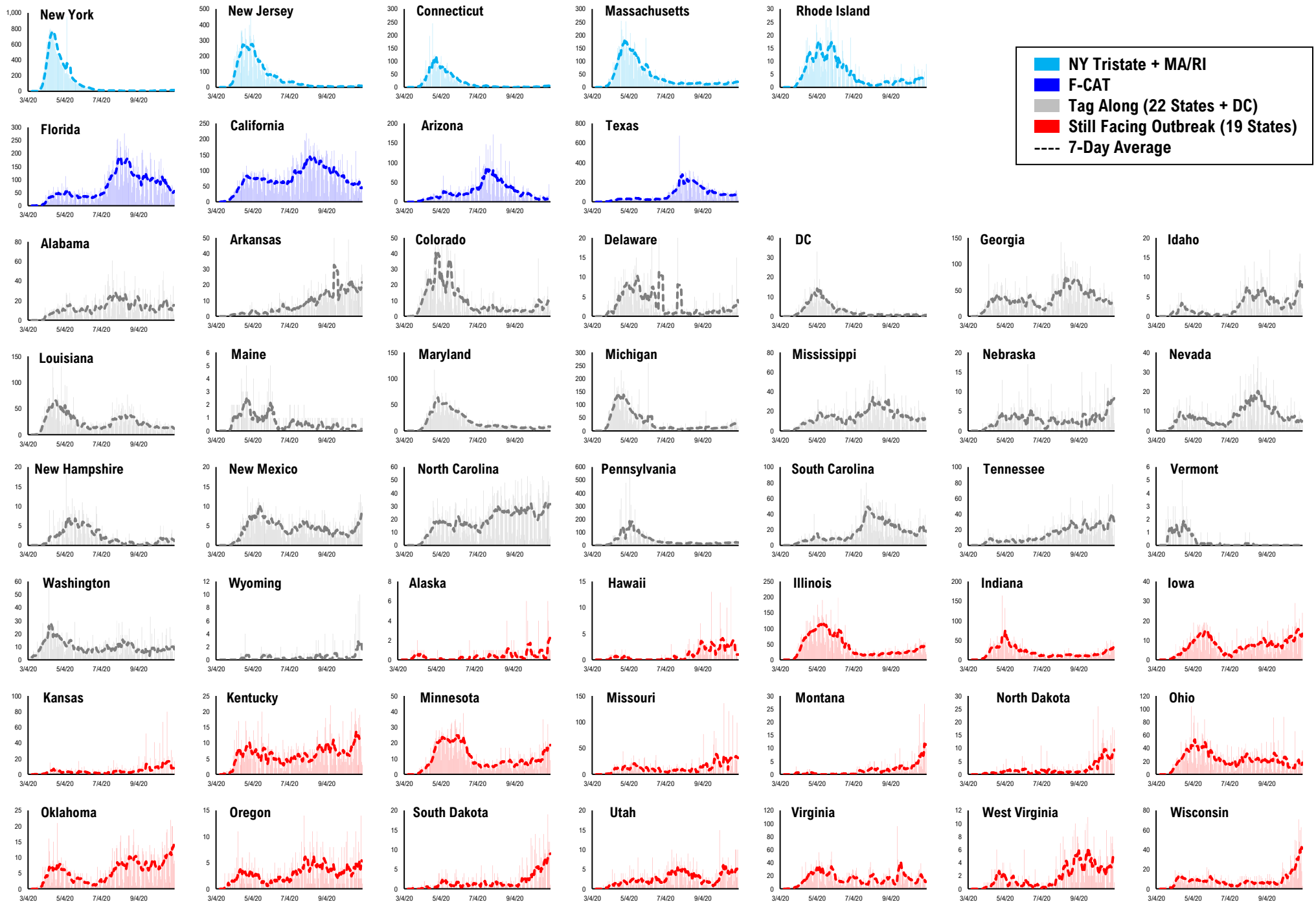


#11: Current Hospitalizations by States...

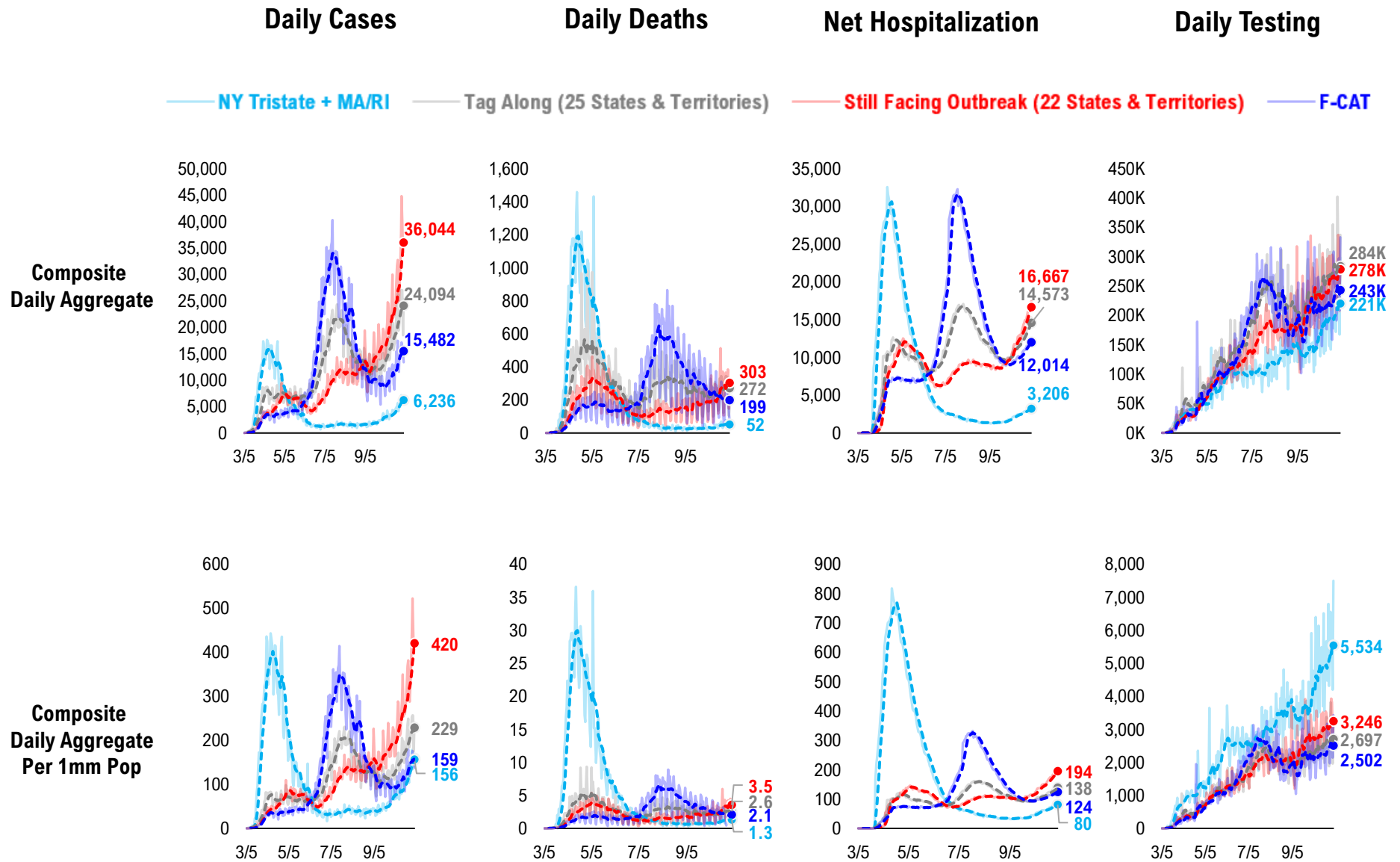


Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

#12: Daily New Deaths by States...

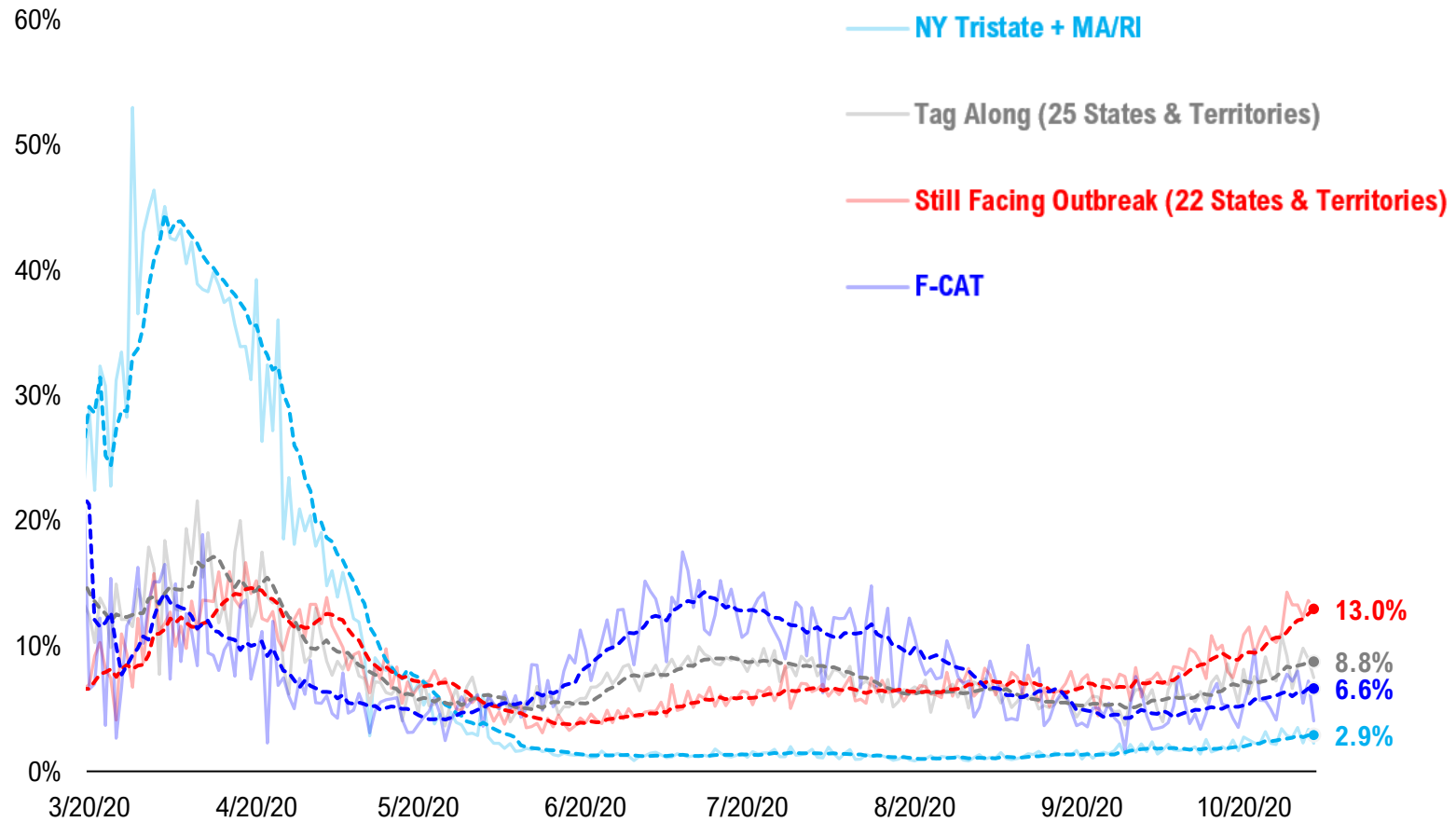


#13: State COVID-19 situation by Tier...

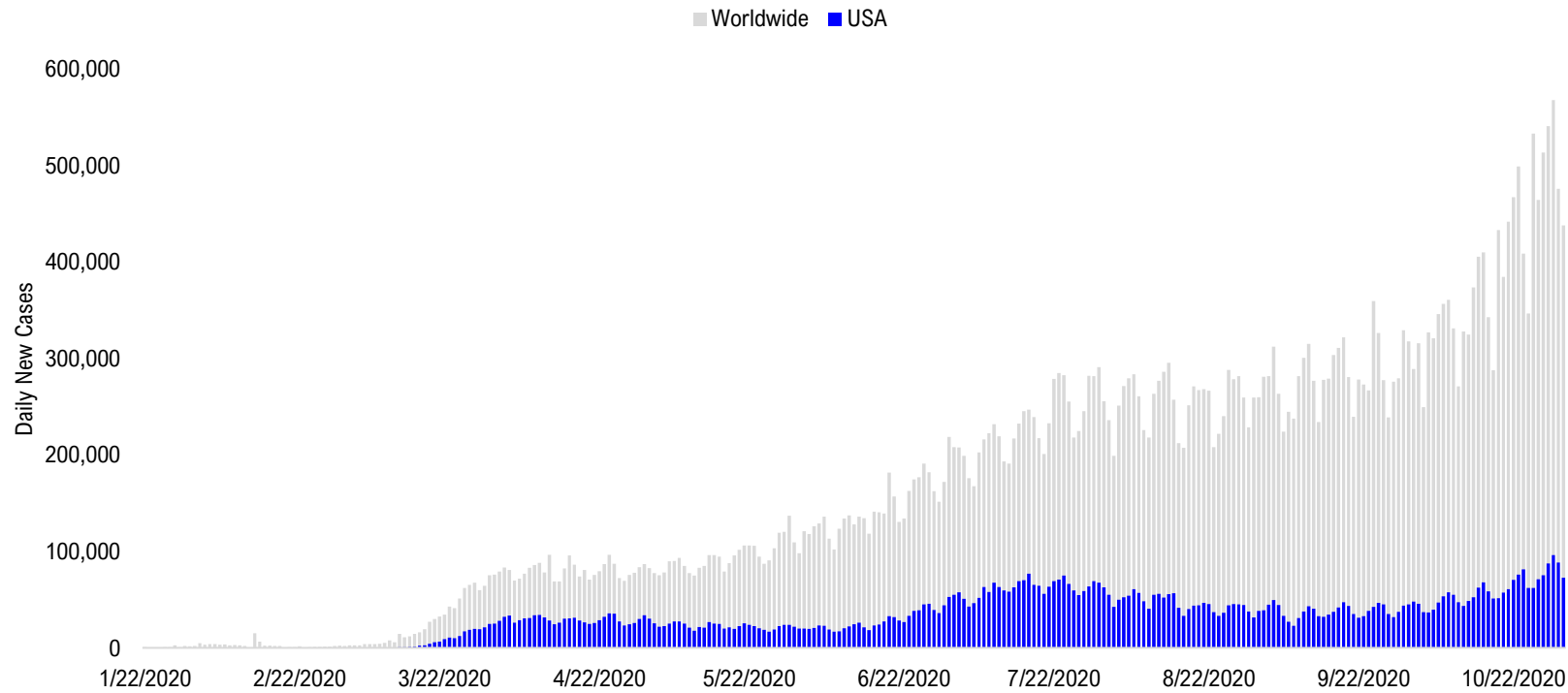


#14: State COVID-19 Daily Positivity Rate by Tier...

Composite Daily Positivity Rate



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



Jun 19	Jul 3	Jul 17	Jul 31	Aug 14	Aug 28	Sep 11	Sep 25	Oct 9	Oct 23	Nov 1
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 88,225	Europe 112,040	Europe 226,821	Europe 259,968
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 80,841	Latin America 76,712	Pakistan + India + Bangladesh 76,149	US + Canada 71,797	US + Canada 88,528
Pakistan + India + Bangladesh 22,981	Pakistan + India + Bangladesh 27,389	Pakistan + India + Bangladesh 39,450	Pakistan + India + Bangladesh 58,625	US + Canada 54,914	US + Canada 45,255	Europe 47,433	Europe 67,915	Latin America 69,822	Latin America 69,390	Latin America 52,458
Europe 18,534	Europe 15,950	Africa 19,290	Europe 20,929	Europe 28,225	Europe 35,965	US + Canada 37,795	US + Canada 43,790	US + Canada 54,960	Pakistan + India + Bangladesh 56,907	Pakistan + India + Bangladesh 49,287
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 10,726	Asia ex- India+Pakistan 13,687	Asia ex- India+Pakistan 15,049	Asia ex- India+Pakistan 12,180
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 8,247	Africa 9,966	Africa 10,615	Africa 11,652

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