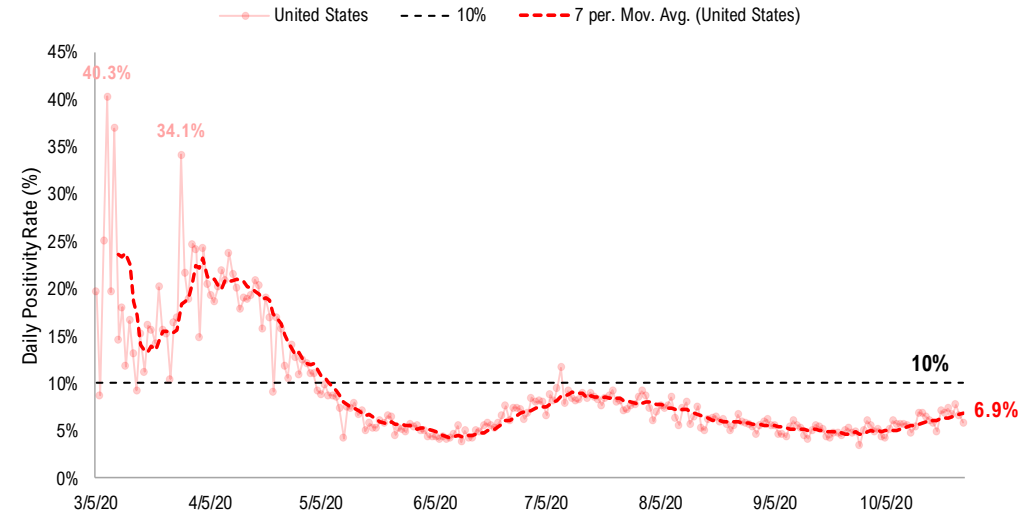
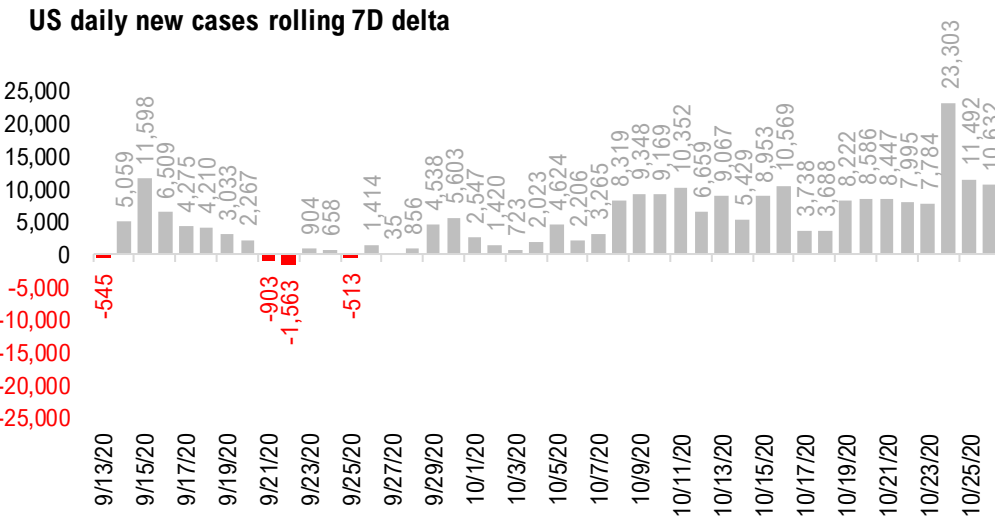
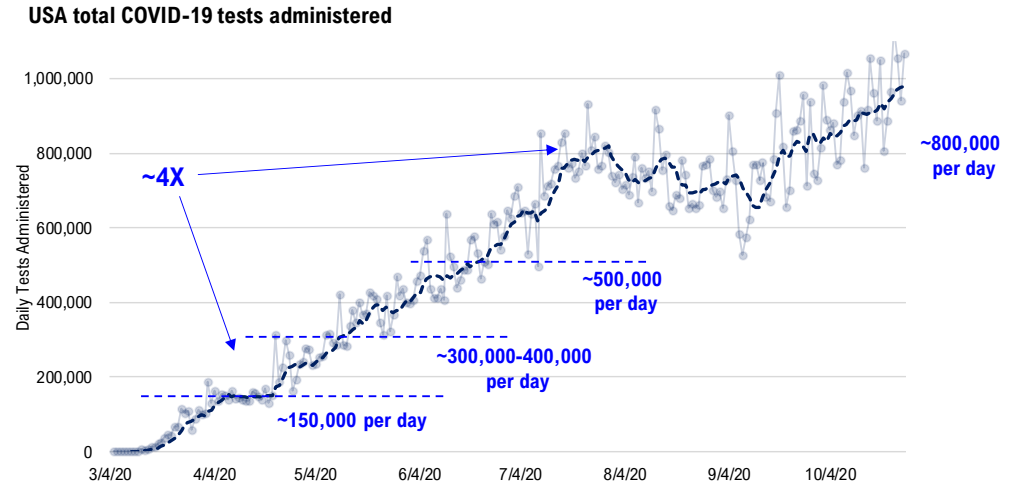
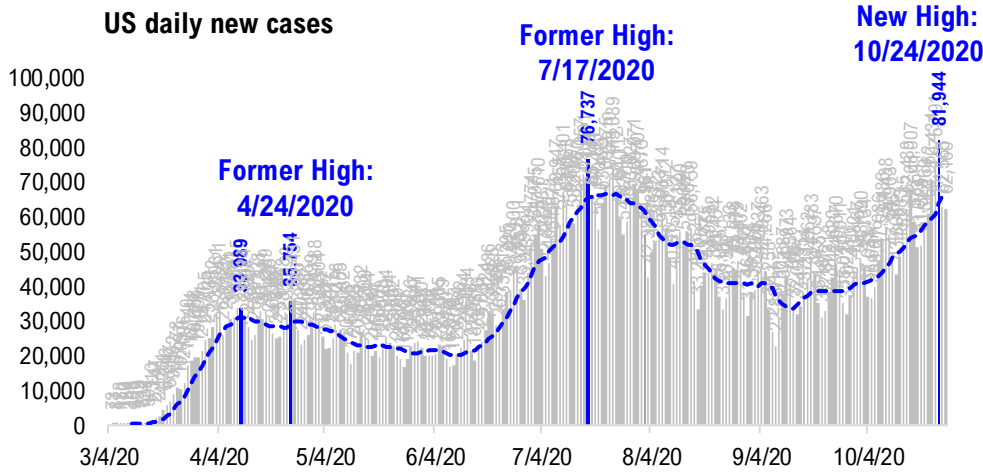


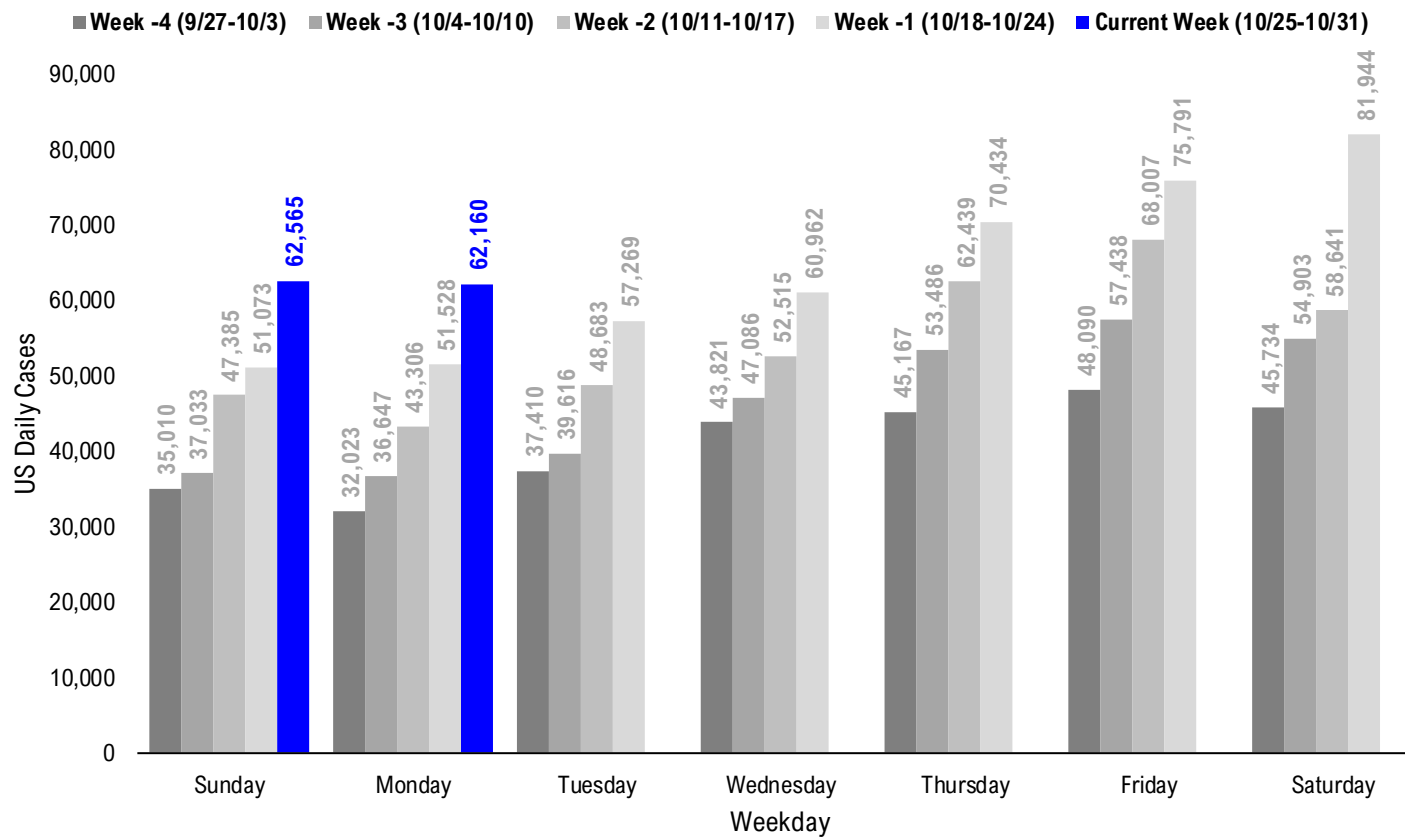
FSInsight Daily COVID-19 Chartbook



#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		7D		# Days	% Decline in Daily Cases	7D Net Hospitalization	7D Net Hospitalization / 7D New Cases
			10/26	Delta	10/26	Delta				
United States	100%	100%	62.160	+10.632	210	+46	2	-9%	5,163	1.1%

States:

1 Illinois	3.8%	4.2%	4,729	+1,616	393	+104	2	-7%	542	1.6%
2 Texas	8.7%	8.8%	4,418	+2,145	165	+51	101	-60%	959	2.7%
3 Michigan	3.0%	2.6%	3,881	+972	241	+84	0	0%	282	2.0%
4 Florida	6.5%	5.0%	3,377	+1,670	159	+30	105	-73%	201	0.8%
5 California	11.9%	14.6%	2,981	-493	119	+41	94	-59%	-11	(0.0%)
6 Wisconsin	1.8%	1.6%	2,883	-894	605	+164	5	-16%	260	1.0%
7 Kansas	0.9%	0.8%	2,446	+333	280	+38	5	-32%	77	1.3%
8 Tennessee	2.1%	1.8%	2,279	-1,038	408	-10	1	-14%	-110	(0.6%)
9 Colorado	1.7%	1.8%	2,211	+1,139	332	+150	0	0%	141	1.3%
10 Ohio	3.5%	3.3%	2,116	+279	208	+47	2	-7%	252	1.5%
11 Connecticut	1.1%	1.3%	2,047	+856	191	+80	187	-55%	75	1.8%
12 Indiana	2.0%	1.8%	1,974	+390	340	+59	2	-15%	261	1.7%
13 North Carolina	3.2%	2.7%	1,643	+499	192	+15	2	-22%	51	0.4%
14 Minnesota	1.7%	1.8%	1,570	-57	326	+28	8	-3%	82	0.8%
15 Missouri	1.8%	1.5%	1,527	+122	352	+52	16	-20%	-40	(0.3%)
16 Pennsylvania	3.9%	3.8%	1,407	+304	133	+23	2	-19%	268	2.2%
17 New Jersey	2.7%	3.0%	1,216	+24	160	+32	204	-64%	190	2.2%
18 Massachusetts	2.1%	2.8%	1,212	+384	169	+65	184	-66%	50	0.7%
19 Utah	1.0%	0.9%	1,201	+33	476	+101	1	-14%	7	0.1%
20 New York	5.9%	8.1%	1,191	+193	84	+12	199	-85%	125	1.1%
21 Alabama	1.5%	1.1%	967	+108	300	+88	93	-30%	108	1.2%
22 Georgia	3.2%	2.9%	958	+206	129	+21	93	-68%	76	0.7%
23 Kentucky	1.3%	1.0%	924	+284	271	+66	4	-10%	94	1.1%
24 Virginia	2.6%	2.6%	904	+214	117	+11	78	-29%	76	1.0%
25 Arizona	2.2%	1.7%	801	+53	141	+31	116	-76%	116	1.6%
26 South Carolina	1.6%	1.1%	767	+163	184	+28	86	-65%	40	0.6%
27 Iowa	1.0%	0.9%	747	+190	373	+101	2	-18%	81	1.0%
28 New Mexico	0.6%	0.5%	723	+209	384	+141	1	-3%	106	2.0%

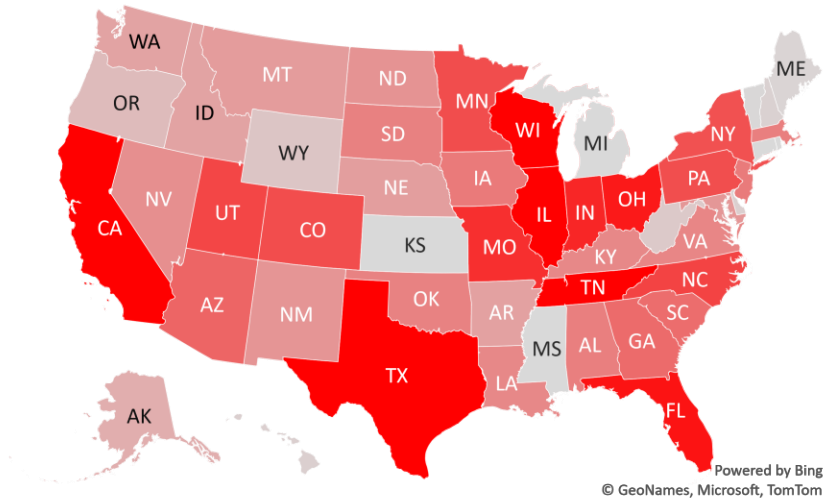
	Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents				Hospitalization			
	% US Pop	% US GDP	7D		7D		# Days	% Decline in Daily Cases	7D Net Hospitalization	7D Net Hospitalization / 7D New Cases
			10/26	Delta	10/26	Delta				
United States	100%	100%	62.160	+10.632	210	+46	2	-9%	5,163	1.1%

States:

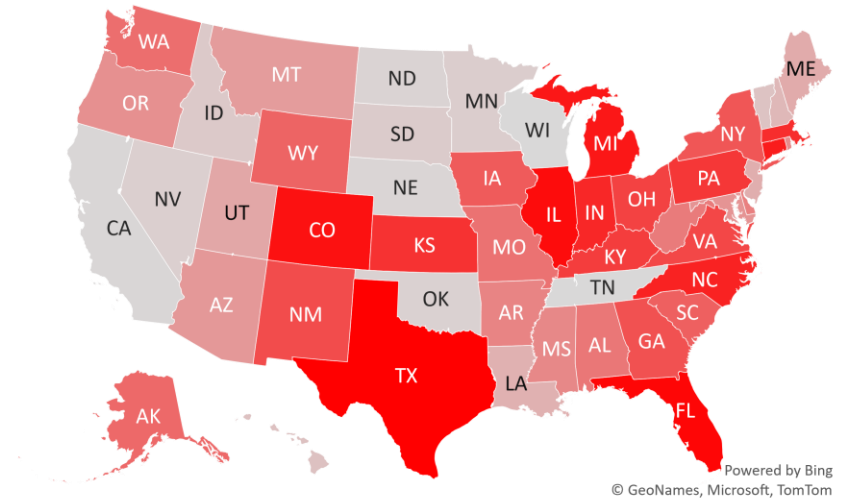
29 Idaho	0.5%	0.4%	697	-1	442	+53	2	-22%	51	0.8%
30 Oklahoma	1.2%	1.0%	663	-111	298	+66	2	-27%	132	1.4%
31 Montana	0.3%	0.2%	621	+52	623	+63	2	-18%	21	0.4%
32 Washington	2.3%	2.7%	587	+127	94	+17	11	-32%	16	0.3%
33 Nebraska	0.6%	0.6%	582	-152	433	-22	9	-21%	92	1.6%
34 Maryland	1.8%	2.0%	565	+68	119	+18	158	-43%	22	0.5%
35 South Dakota	0.3%	0.3%	538	-29	957	+191	1	-20%	73	1.2%
36 Arkansas	0.9%	0.6%	530	+96	229	+44	3	-29%	30	0.5%
37 North Dakota	0.2%	0.3%	522	-137	1007	+80	2	-15%	51	0.9%
38 Nevada	0.9%	0.8%	475	-107	272	+38	100	-37%	46	0.9%
39 Puerto Rico	1.0%	0.5%	461	+34	130	+29	1	-36%	29	0.9%
40 Mississippi	0.9%	0.6%	447	+94	211	+62	88	-59%	26	0.5%
41 Wyoming	0.2%	0.2%	436	+150	537	+165	3	-9%	34	1.6%
42 Alaska	0.2%	0.3%	348	+146	566	+277	0	0%	-15	(0.7%)
43 Oregon	1.3%	1.2%	335	+73	86	+18	2	-16%	46	1.7%
44 West Virginia	0.5%	0.4%	317	+105	155	+22	10	-19%	38	2.0%
45 Louisiana	1.4%	1.3%	222	+20	86	-9	97	-85%	56	1.4%
46 Delaware	0.3%	0.4%	207	+104	165	+3	181	-52%	1	0.1%
47 Rhode Island	0.3%	0.3%	167	+82	285	+79	3	-38%	39	1.5%
48 Guam	0.0%	0.0%	120	+39	392	-46	60	-40%	9	1.6%
49 New Hampshire	0.4%	0.4%	69	+17	70	+13	177	-24%	9	1.4%
50 Maine	0.4%	0.3%	53	+30	39	+15	157	-23%	5	1.7%
51 District of Columbia	0.2%	0.7%	45	+20	96	+30	176	-71%	14	3.4%
52 Hawaii	0.4%	0.5%	38	+2	58	+8	58	-72%	32	(5.5%)
53 Vermont	0.2%	0.2%	9	+0	36	+19	204	-61%	11	8.0%
54 Northern Mariana	0.0%	0.0%	4	+4	23	-12	8	-56%	0	0.0%
55 U.S. Virgin Islands	0.0%	0.0%	2	+2	6	-12	66	-99%	0	0.0%
56 American Samoa	0.0%	0.0%	0	+0	0	+0	0	0%	0	

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

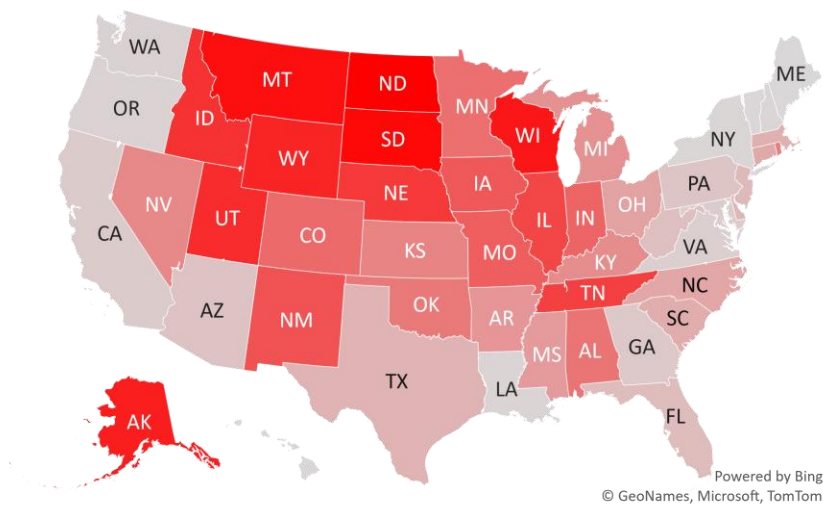
Daily Case Increases



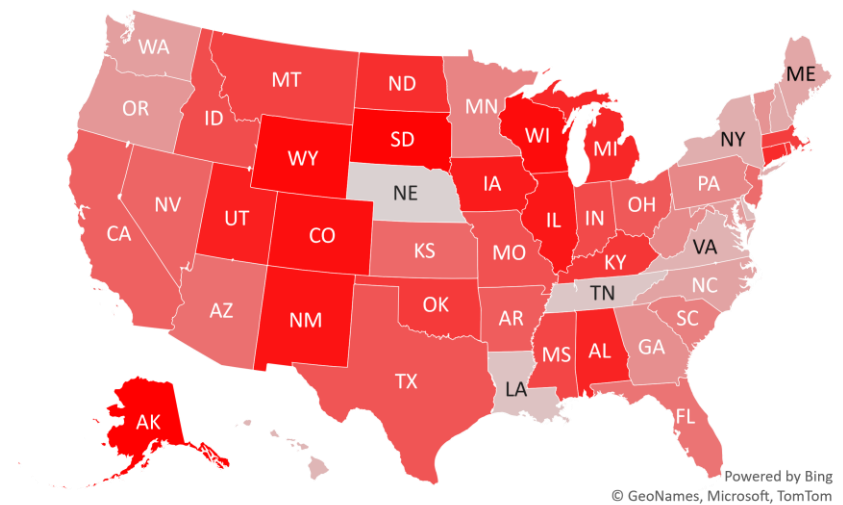
7D Delta in Daily New Cases



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



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



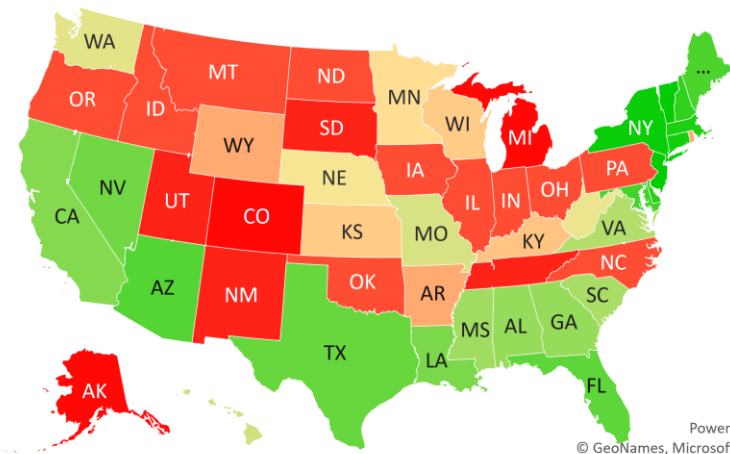
#5: # of Days since Daily Case Peaked by States...

Days since Daily Cases (3D Avg) Peak (as of 10/26)

	Sorted			
	Peak Date	10/26/20	% off the Peak	% US Pop
United States	10/24/20	2	-9%	100%
States:				
Vermont	4/5/20	204	-61%	0.2%
New Jersey	4/5/20	204	-64%	2.7%
New York	4/10/20	199	-85%	5.9%
Connecticut	4/22/20	187	-55%	1.1%
Massachusetts	4/25/20	184	-66%	2.1%
Delaware	4/28/20	181	-52%	0.3%
New Hampshire	5/2/20	177	-24%	0.4%
District of Columbia	5/3/20	176	-71%	0.2%
Maryland	5/21/20	158	-43%	1.8%
Maine	5/22/20	157	-23%	0.4%
Arizona	7/2/20	116	-76%	2.2%
Florida	7/13/20	105	-73%	6.5%
Texas	7/17/20	101	-60%	8.7%
Nevada	7/18/20	100	-37%	0.9%
Louisiana	7/21/20	97	-85%	1.4%
California	7/24/20	94	-59%	11.9%
Georgia	7/25/20	93	-68%	3.2%
Alabama	7/25/20	93	-30%	1.5%
Mississippi	7/30/20	88	-59%	0.9%
South Carolina	8/1/20	86	-65%	1.6%
Virginia	8/9/20	78	-29%	2.6%
U.S. Virgin Islands	8/21/20	66	-99%	0.0%
Guam	8/27/20	60	-40%	0.0%
Hawaii	8/29/20	58	-72%	0.4%
Missouri	10/10/20	16	-20%	1.8%
Washington	10/15/20	11	-32%	2.3%
West Virginia	10/16/20	10	-19%	0.5%
Nebraska	10/17/20	9	-21%	0.6%

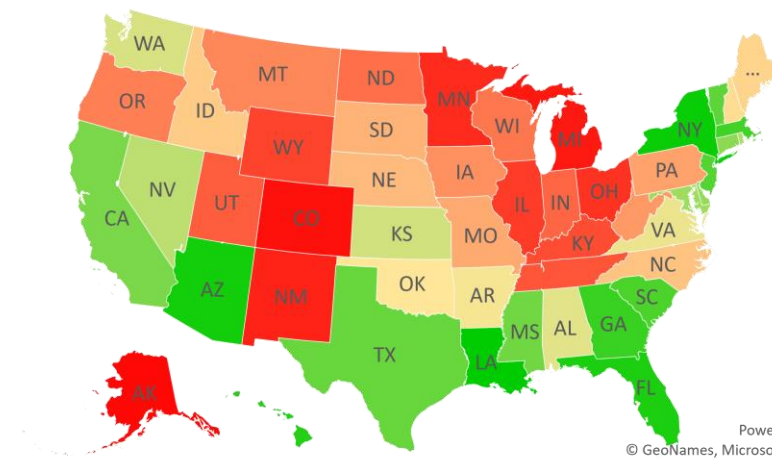
	Sorted			
	Peak Date	10/26/20	% off the Peak	% US Pop
United States	10/24/20	2	-9%	100%
States:				
Northern Mariana Island	10/18/20	8	-56%	0.0%
Minnesota	10/18/20	8	-3%	1.7%
Wisconsin	10/21/20	5	-16%	1.8%
Kansas	10/21/20	5	-32%	0.9%
Kentucky	10/22/20	4	-10%	1.3%
Wyoming	10/23/20	3	-9%	0.2%
Rhode Island	10/23/20	3	-38%	0.3%
Arkansas	10/23/20	3	-29%	0.9%
Pennsylvania	10/24/20	2	-19%	3.9%
Oregon	10/24/20	2	-16%	1.3%
Oklahoma	10/24/20	2	-27%	1.2%
Ohio	10/24/20	2	-7%	3.5%
North Dakota	10/24/20	2	-15%	0.2%
North Carolina	10/24/20	2	-22%	3.2%
Montana	10/24/20	2	-18%	0.3%
Indiana	10/24/20	2	-15%	2.0%
Illinois	10/24/20	2	-7%	3.8%
Idaho	10/24/20	2	-22%	0.5%
Iowa	10/24/20	2	-18%	1.0%
Utah	10/25/20	1	-14%	1.0%
Tennessee	10/25/20	1	-14%	2.1%
South Dakota	10/25/20	1	-20%	0.3%
Puerto Rico	10/25/20	1	-36%	1.0%
New Mexico	10/25/20	1	-3%	0.6%
Michigan	10/26/20	0	0%	3.0%
Colorado	10/26/20	0	0%	1.7%
Alaska	10/26/20	0	0%	0.2%

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



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



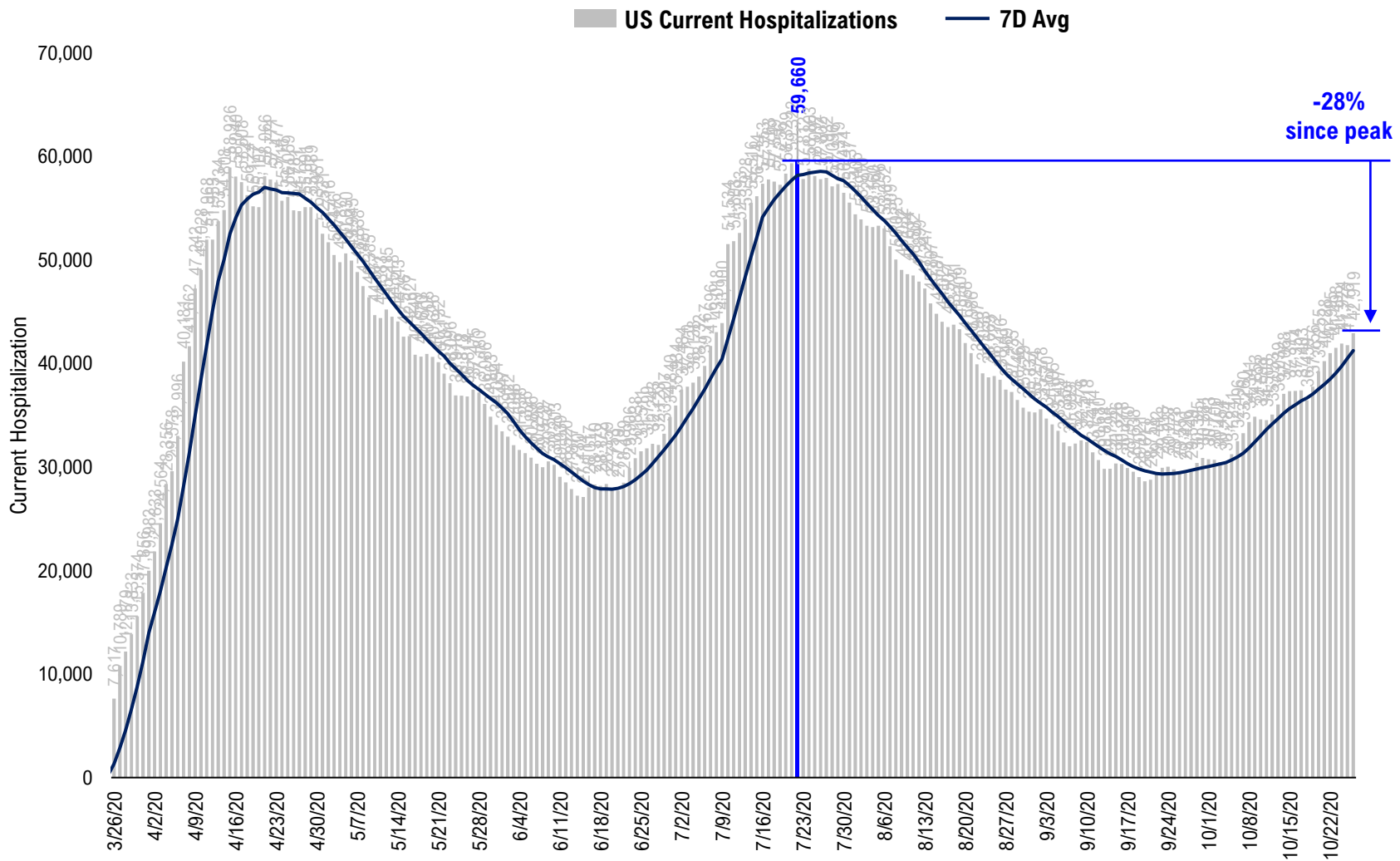
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#6: US New Cases by States... (sorted by today's new cases)

	Sorted						Sorted				
	7D Ago	Last 3-day Trend					7D Ago	Last 3-day Trend			
	10/19/20	10/24/20	10/25/20	10/26/20	vs 7D ago		10/19/20	10/24/20	10/25/20	10/26/20	vs 7D ago
United States	51,528	81,944	62,565	62,160	+10,632	United States	51,528	81,944	62,565	62,160	+10,632
States:						States:					
Illinois	3,113	6,161	4,062	4,729	<--higher	Idaho	698	1,021	650	697	
Texas	2,273	6,125	3,793	4,418	<--higher	Oklahoma	774	1,829	1,051	663	
Michigan	2,909	3,338	0	3,881	<--higher	Montana	569	639	738	621	
Florida	1,707	4,471	2,385	3,377	<--higher	Washington	460	919	649	587	<--higher
California	3,474	5,945	5,219	2,981		Nebraska	734	1,225	705	582	
Wisconsin	3,777	4,062	3,626	2,883		Maryland	497	796	792	565	
Kansas	2,113	0	0	2,446		South Dakota	567	939	1,062	538	
Tennessee	3,317	2,574	3,500	2,279		Arkansas	434	874	667	530	<--higher
Colorado	1,072	1,828	1,689	2,211	<--higher	North Dakota	659	935	845	522	
Ohio	1,837	2,858	2,309	2,116		Nevada	582	1,146	891	475	
Connecticut	1,191	0	0	2,047	<--higher	Puerto Rico	427	116	665	461	
Indiana	1,584	2,741	2,153	1,974	<--higher	Mississippi	353	1,212	228	447	<--higher
North Carolina	1,144	2,584	1,807	1,643	<--higher	Wyoming	286	260	236	436	<--higher
Minnesota	1,627	2,259	1,680	1,570		Alaska	202	371	523	348	<--higher
Missouri	1,405	2,918	2,043	1,527		Oregon	262	391	362	335	<--higher
Pennsylvania	1,103	2,043	1,666	1,407	<--higher	West Virginia	212	320	194	317	<--higher
New Jersey	1,192	1,909	1,129	1,216		Louisiana	202	0	974	222	
Massachusetts	828	1,203	1,077	1,212	<--higher	Delaware	103	160	114	207	<--higher
Utah	1,168	1,608	1,765	1,201		Rhode Island	85	465	274	167	<--higher
New York	998	2,061	1,632	1,191		Guam	81	34	41	120	<--higher
Alabama	859	2,360	1,079	967		New Hampshire	52	126	90	69	<--higher
Georgia	752	1,846	1,318	958	<--higher	Maine	23	42	64	53	<--higher
Kentucky	640	1,732	974	924	<--higher	District of Columbia	25	97	61	45	<--higher
Virginia	690	1,088	999	904	<--higher	Hawaii	36	87	120	38	
Arizona	748	890	1,391	801		Vermont	9	29	29	9	
South Carolina	604	795	1,278	767	<--higher	Northern Mariana Islands	0	0	0	4	
Iowa	557	1,640	1,143	747	<--higher	U.S. Virgin Islands	0	0	0	2	
New Mexico	514	872	823	723	<--higher	American Samoa	0	0	0	0	

#7: US Daily Hospitalizations...

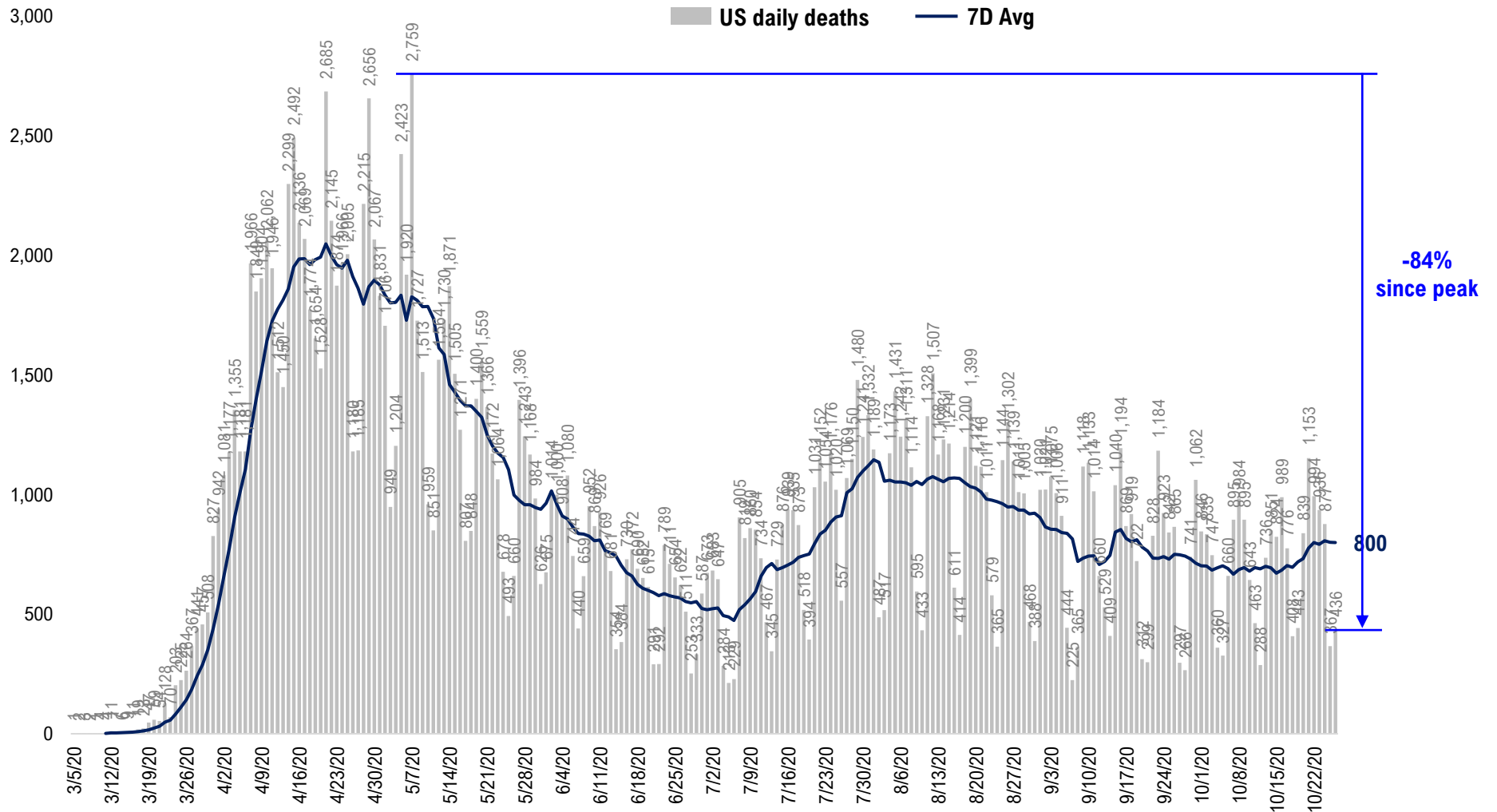
US Net Hospitalizations (aggregate of 50 states + Washington, D.C.)



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

#8: US Daily New Fatalities...

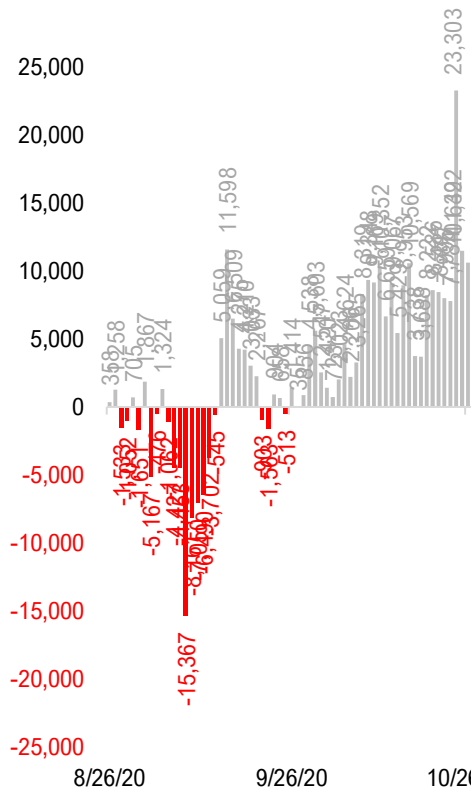
US daily COVID-19 Fatalities



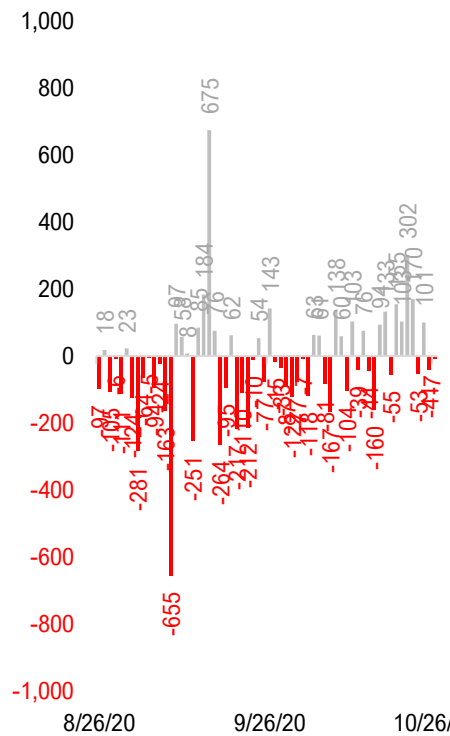
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

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

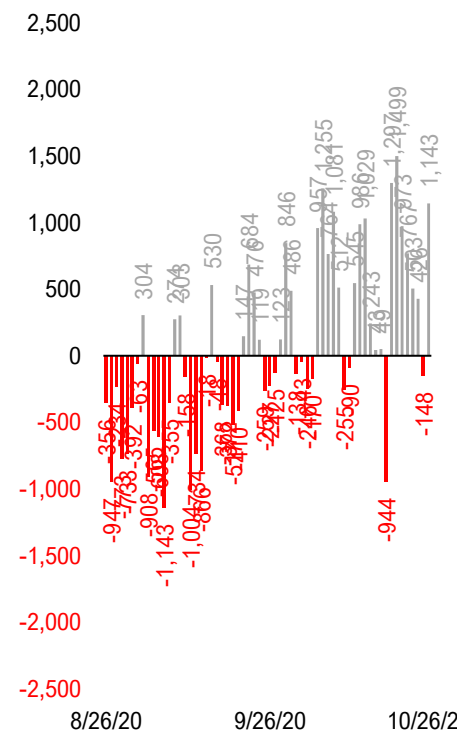
Daily New Cases
(8/10-8/23 ex-CA; 9/4-9/5 ex-IL)



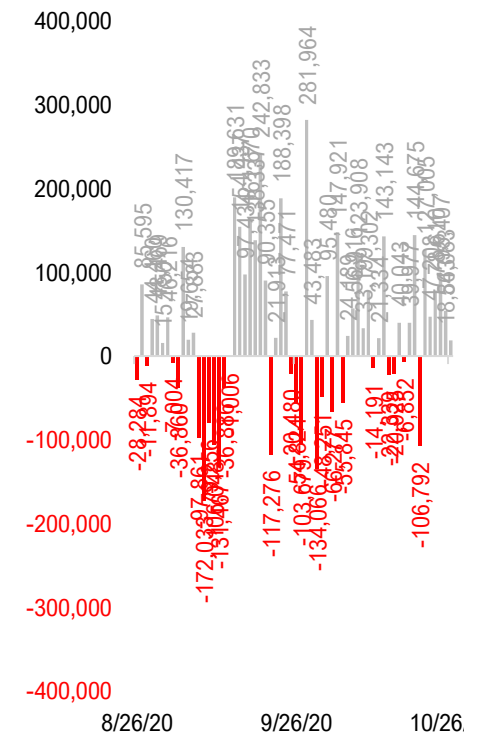
Daily Deaths



Daily Net Hospitalization
(Red = more discharge than admission)



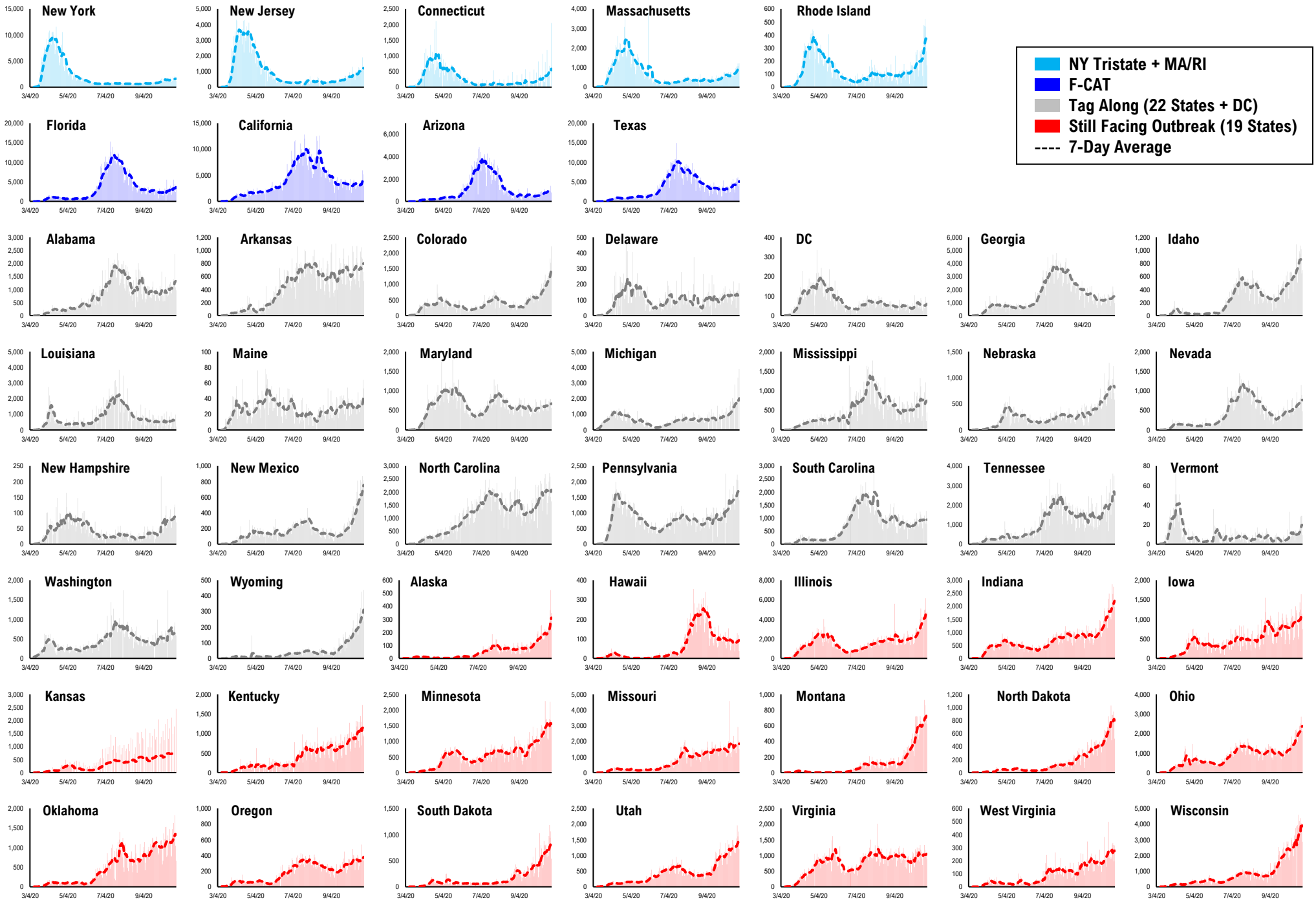
Daily Tests



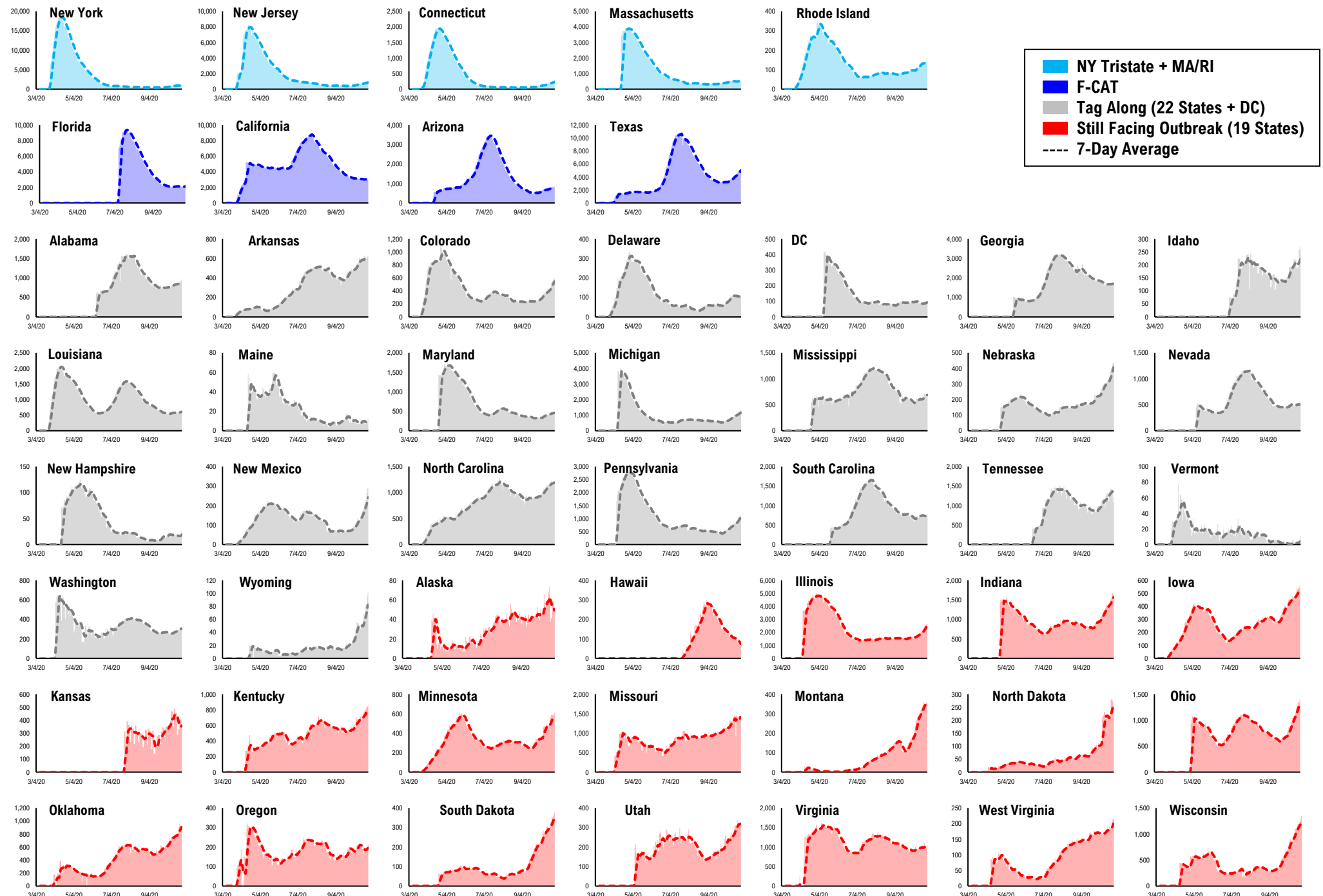
* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog

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

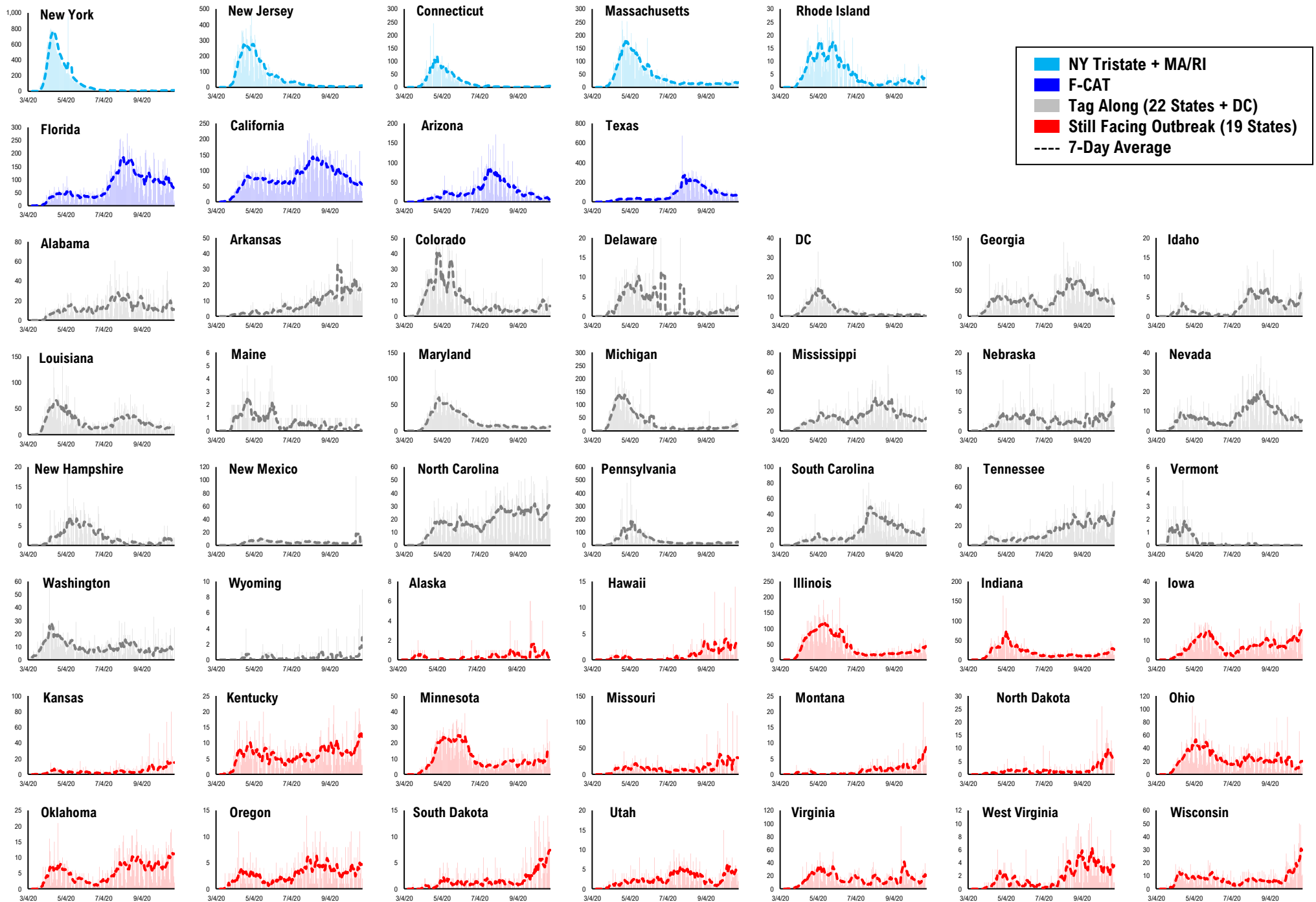
#10: Daily New Cases by States...



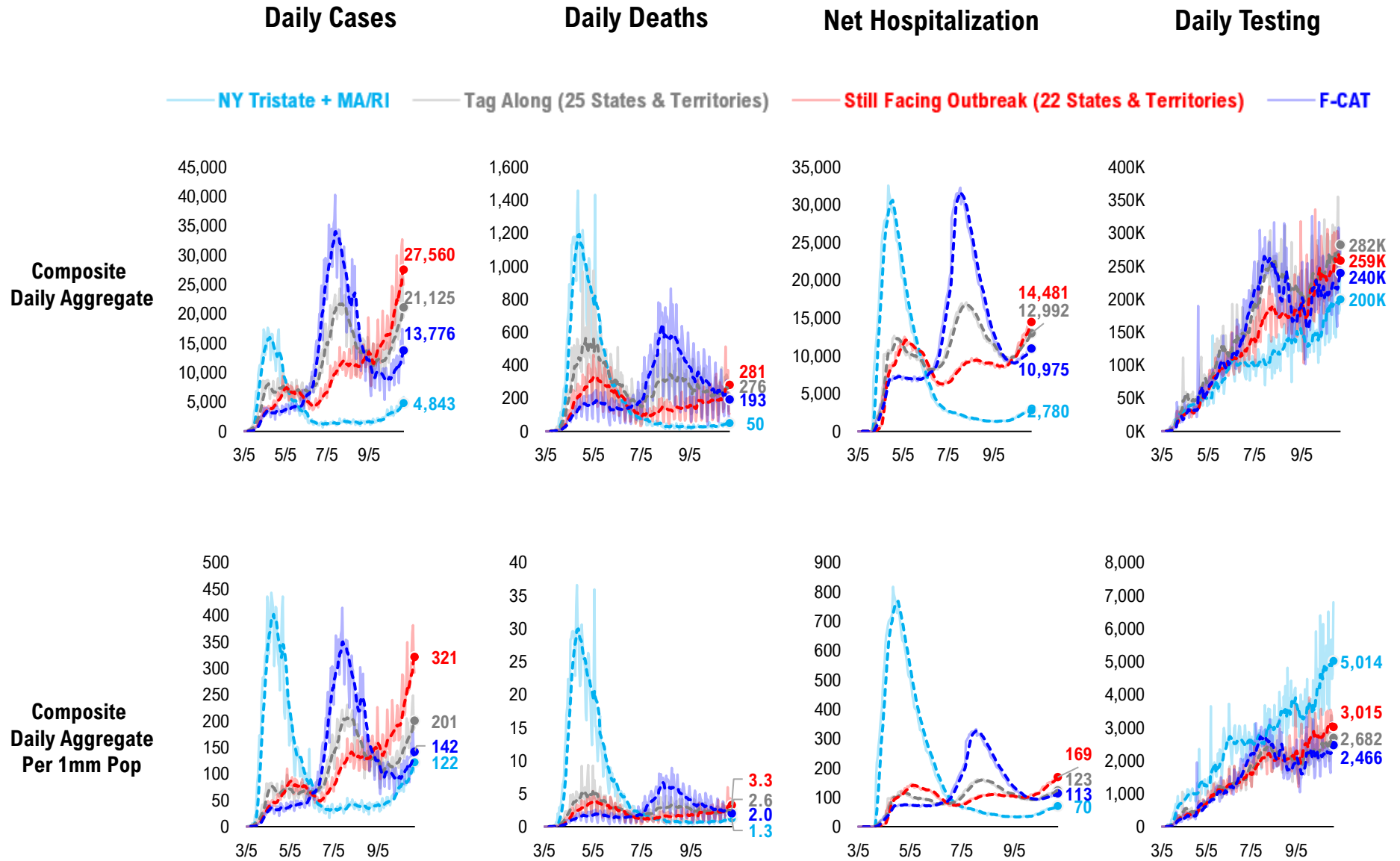
#11: Current Hospitalizations by States...



#12: Daily New Deaths by States...

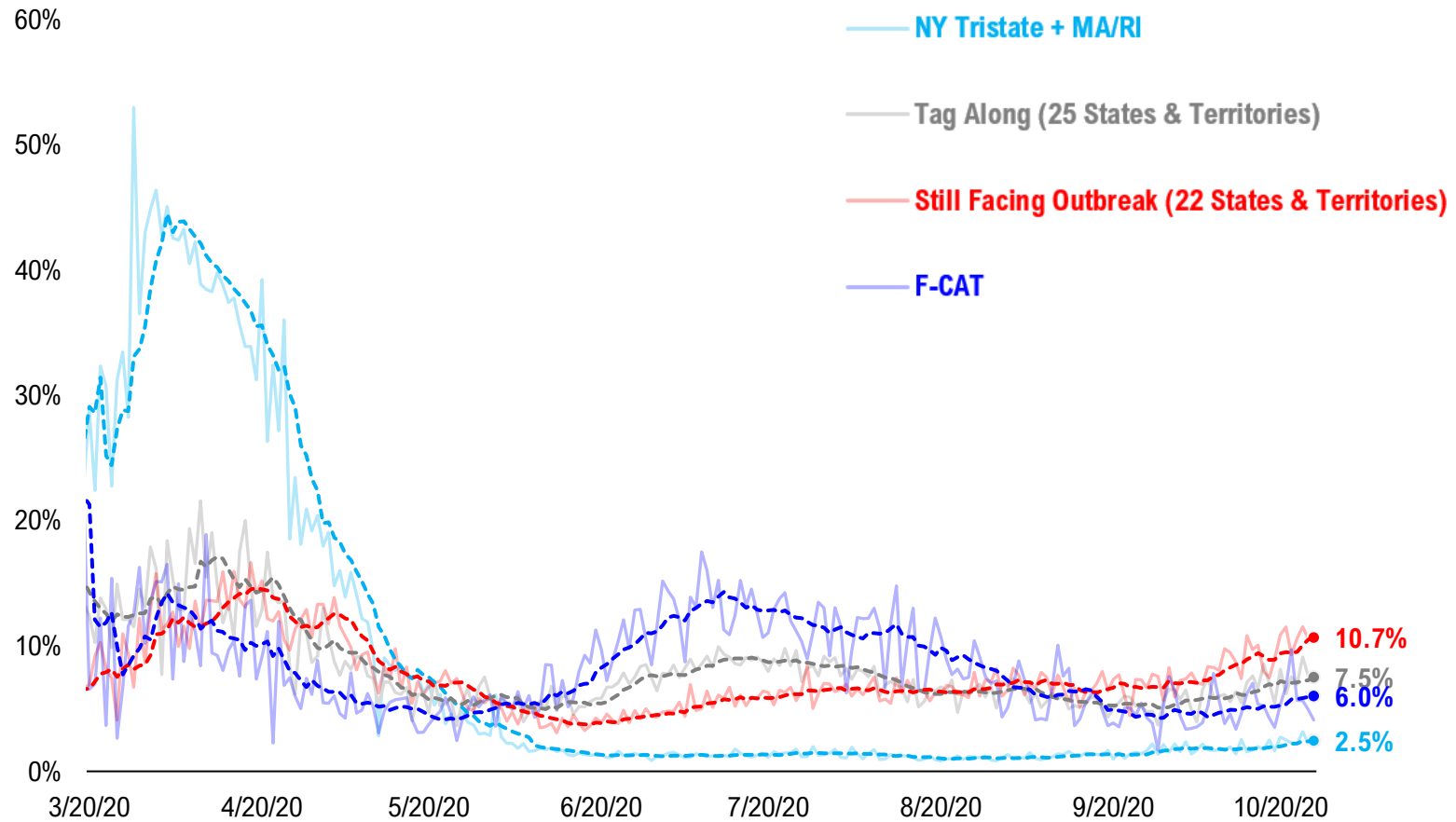


#13: State COVID-19 situation by Tier...

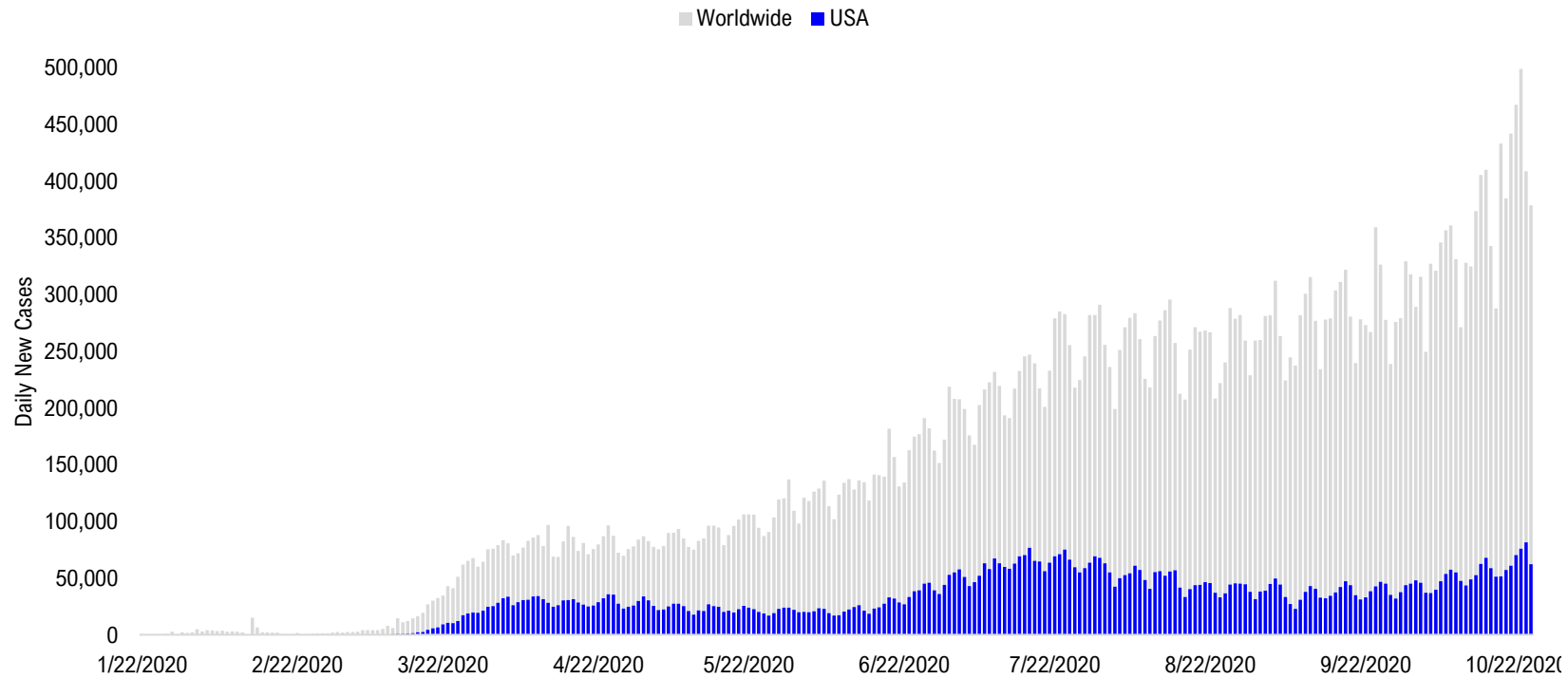


#14: State COVID-19 Daily Positivity Rate by Tier...

Composite Daily Positivity Rate



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



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	10/16/2020	10/25/2020
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 156,633	Europe 202,928
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	Latin America 67,985	US + Canada 75,588
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	Pakistan + India + Bangladesh 66,697	Latin America 56,625
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 47,714	US + Canada 63,432	Pakistan + India + Bangladesh 51,674
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 13,578	Asia ex- India+Pakistan 13,869
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 10,428	Africa 10,418

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