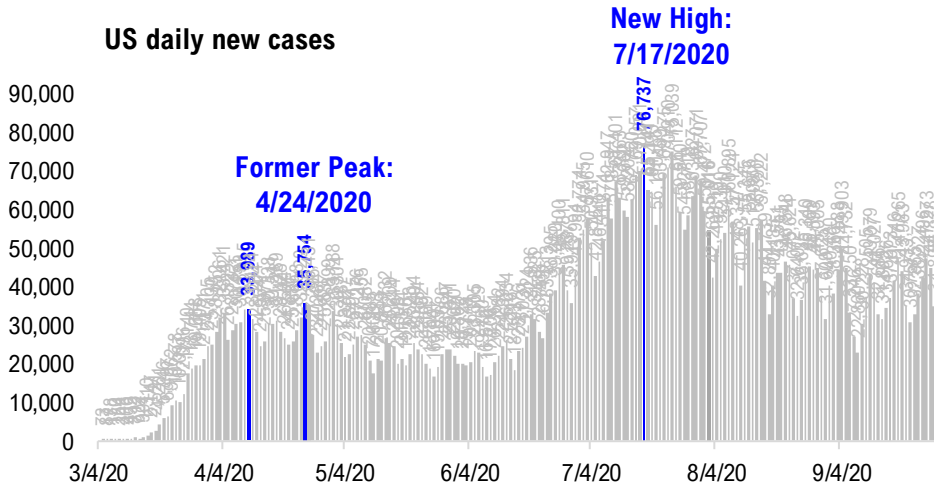


FSInsight Daily COVID-19 Chartbook

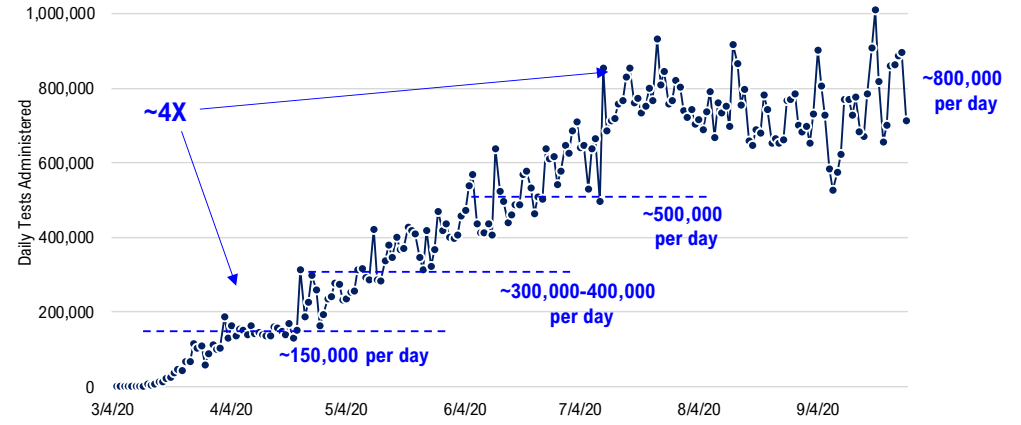


#1: USA COVID-19 Situation at a Glance...

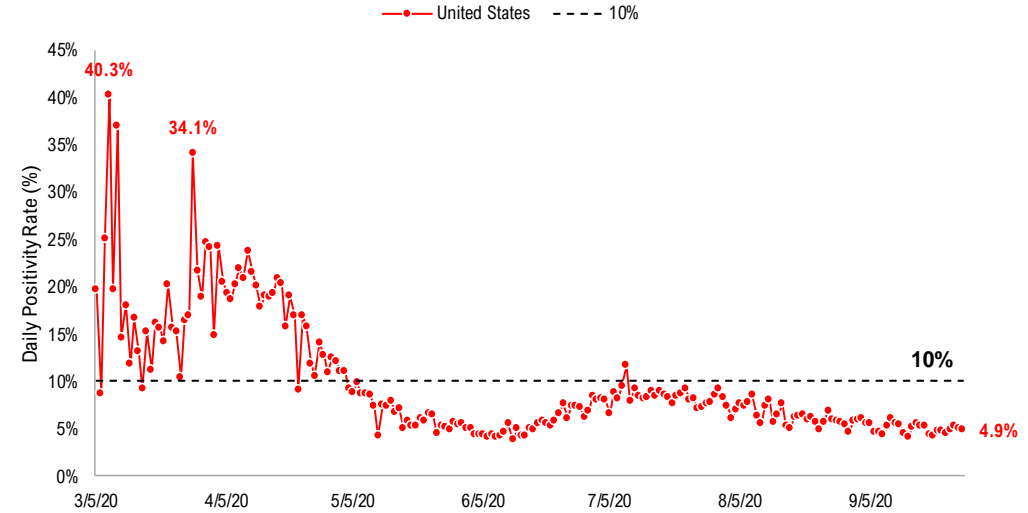
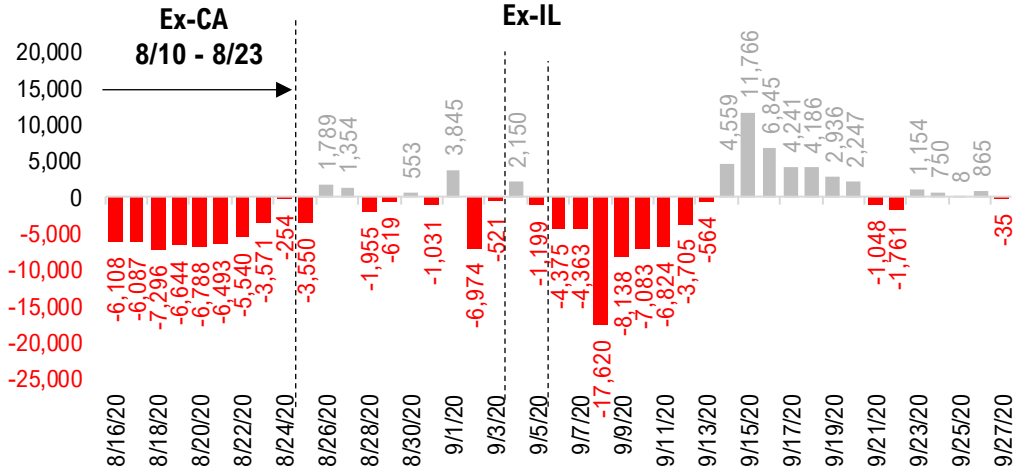
US daily new cases



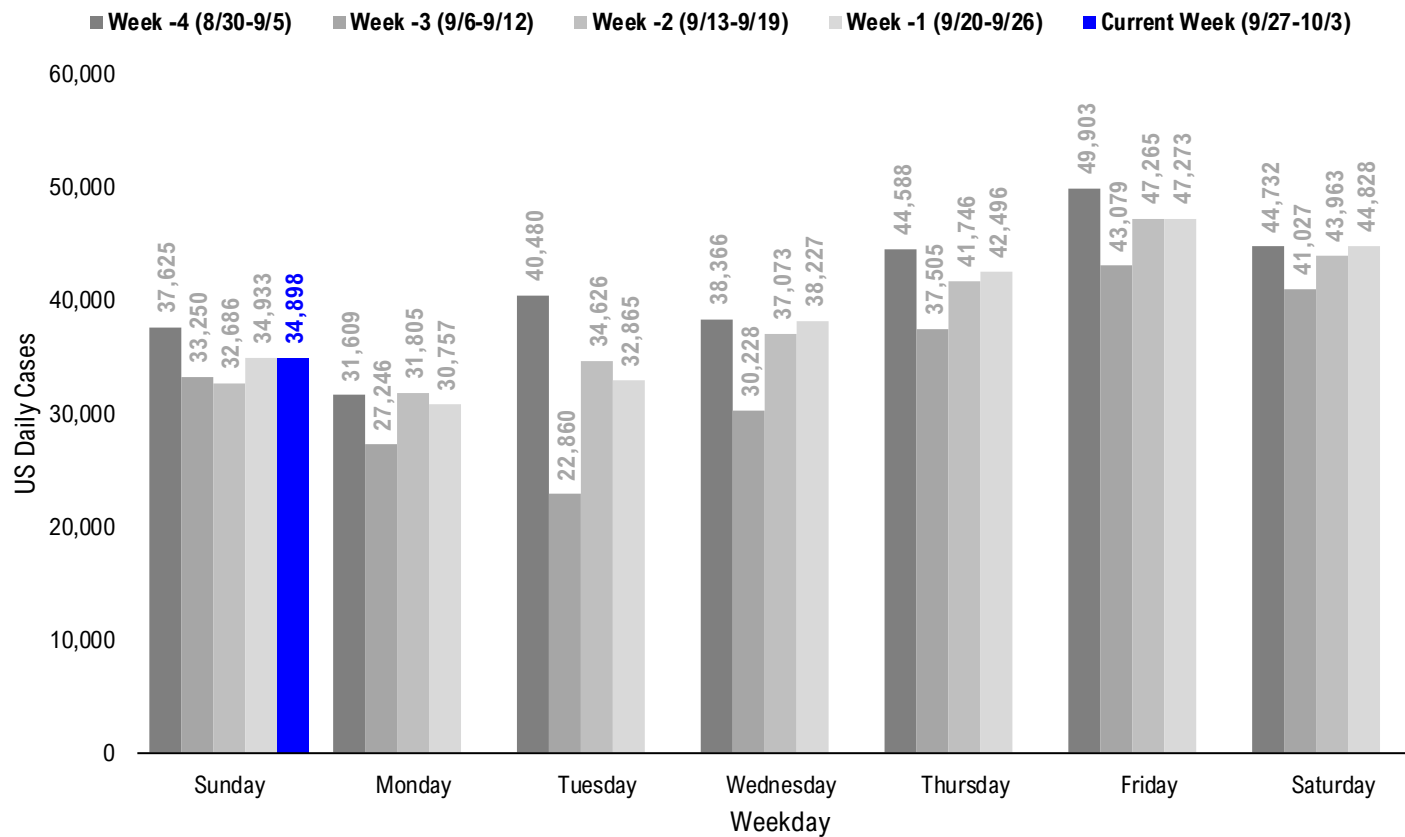
USA total COVID-19 tests administered



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	9/27/20	7D Delta	9/27/20	7D Delta	# Days	Cases	
United States	100%	34,898	-35	129	+1	72	-41%	

States:

1	California	11.9%	4,071	-194	98	-4	65	-66%
2	Wisconsin	1.8%	2,217	+552	432	+61	1	-2%
3	Tennessee	2.1%	2,104	+29	266	+4	61	-34%
4	Florida	6.5%	1,882	-639	117	-28	76	-80%
5	Illinois	3.8%	1,604	+202	180	+18	21	-30%
6	Missouri	1.8%	1,392	+64	277	+32	59	-12%
7	Texas	8.7%	1,292	-949	91	-20	72	-78%
8	North Carolina	3.2%	1,290	-43	147	+20	71	-31%
9	Minnesota	1.7%	1,075	-221	220	+25	0	0%
10	Utah	1.0%	1,068	+148	363	+40	1	-4%
11	Louisiana	1.4%	923	-13	117	-21	68	-80%
12	Pennsylvania	3.9%	918	+185	72	+3	170	-49%
13	Indiana	2.0%	901	+155	159	+18	14	-10%
14	New York	5.9%	866	+4	48	+2	170	-91%
15	Oklahoma	1.2%	823	-180	260	-34	61	-16%
16	Georgia	3.2%	812	-322	114	-51	64	-72%
17	Ohio	3.5%	800	+38	87	+10	58	-34%
18	Virginia	2.6%	736	-120	104	-16	49	-37%
19	Alabama	1.5%	730	-68	167	-51	64	-61%
20	New Jersey	2.7%	698	+245	75	+22	175	-83%
21	Iowa	1.0%	692	+71	271	-9	30	-30%
22	Washington	2.3%	604	+255	93	+34	74	-31%
23	Massachusetts	2.1%	592	+233	80	+11	155	-84%
24	South Carolina	1.6%	585	+63	132	-28	77	-66%
25	Colorado	1.7%	569	+68	108	+9	154	-15%
26	Puerto Rico	1.0%	533	+271	161	+11	1	-11%
27	Arkansas	0.9%	475	-74	227	-2	64	-25%
28	Kentucky	1.3%	455	+19	174	+12	1	-7%

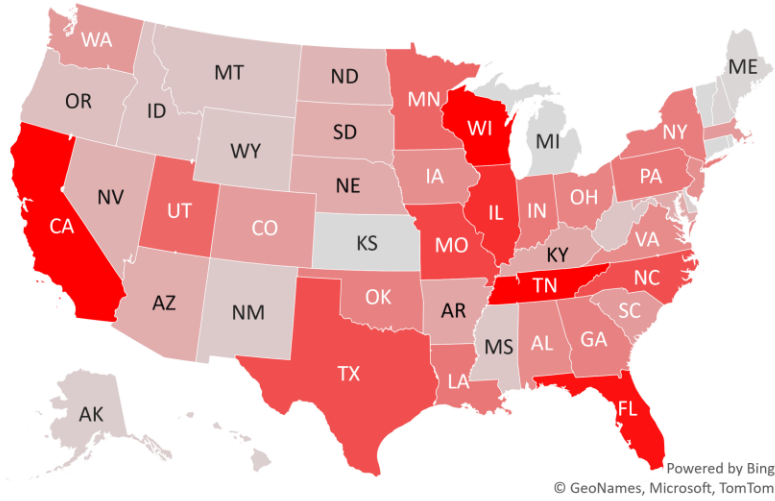
	Sorted Daily Cases			Daily Cases (3D avg) per 1mm residents		Since Peak		% Decline in Daily Cases
	% US Pop	9/27/20	7D Delta	9/27/20	7D Delta	# Days	Cases	
United States	100%	34,898	-35	129	+1	72	-41%	

States:

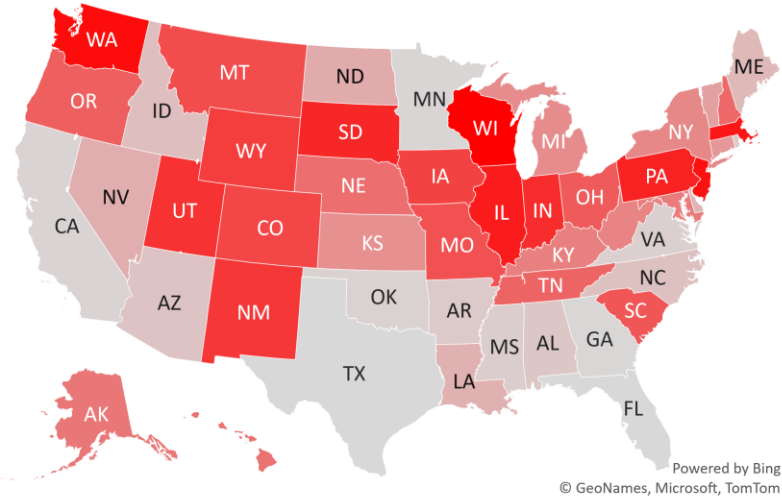
29	Nebraska	0.6%	434	+24	227	-10	148	-15%
30	Maryland	1.8%	431	+19	88	-2	129	-57%
31	Arizona	2.2%	411	-56	63	-10	87	-89%
32	South Dakota	0.3%	408	+156	544	+164	1	-4%
33	Nevada	0.9%	373	-12	166	+35	71	-62%
34	North Dakota	0.2%	344	-7	557	+17	1	-9%
35	Oregon	1.3%	239	+37	75	+17	57	-13%
36	Idaho	0.5%	205	-39	236	+49	72	-38%
37	Montana	0.3%	200	+64	270	+66	1	-13%
38	West Virginia	0.5%	190	+10	119	+3	15	-10%
39	Mississippi	0.9%	182	-95	173	+13	59	-66%
40	Wyoming	0.2%	168	+77	189	+63	2	-19%
41	New Mexico	0.6%	152	+85	99	+38	60	-43%
42	Alaska	0.2%	114	+21	159	+28	56	-13%
43	Delaware	0.3%	104	-13	107	+22	152	-69%
44	Hawaii	0.4%	98	+21	79	+9	29	-62%
45	New Hampshire	0.4%	51	+24	31	-1	148	-66%
46	District of Columbia	0.2%	35	-18	68	-10	147	-79%
47	Maine	0.4%	28	-16	18	-11	128	-65%
48	U.S. Virgin Islands	0.0%	21	-6	84	-12	37	-80%
49	Vermont	0.2%	2	-3	10	+4	175	-90%
50	Northern Mariana Islands	0.0%	1	-5	6	-29	5	-86%
51	Rhode Island	0.3%	0	-82	37	-86	155	-91%
52	Michigan	3.0%	0	+0	61	+22	156	-50%
53	Kansas	0.9%	0	+0	156	-6	32	-56%
54	Guam	0.0%	0	+0	183	+38	31	-72%
55	Connecticut	1.1%	0	+0	11	-2	158	-97%
56	American Samoa	0.0%	0	+0	0	+0	-	-

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

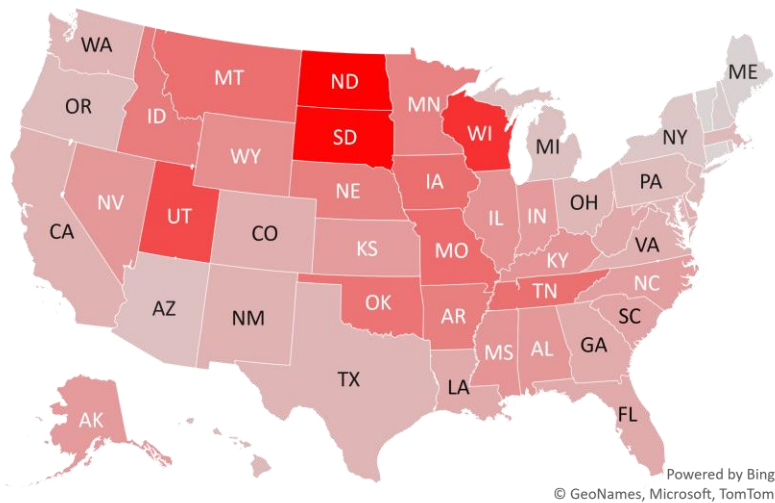
Daily Case Increases



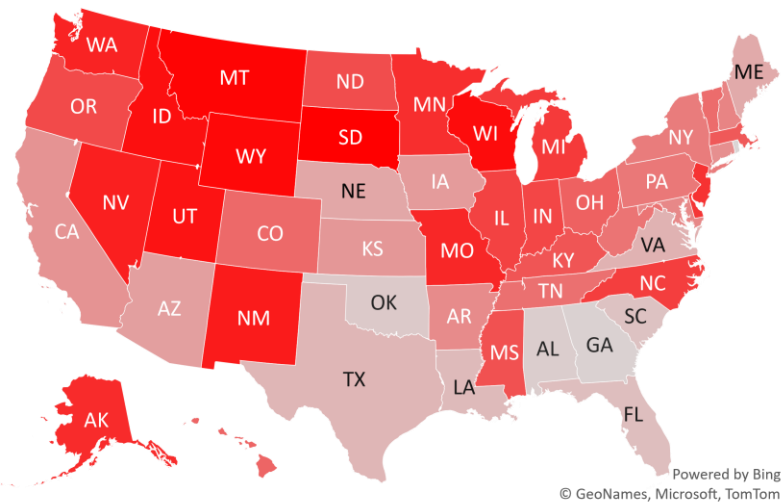
7D Delta in Daily New Cases



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



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



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

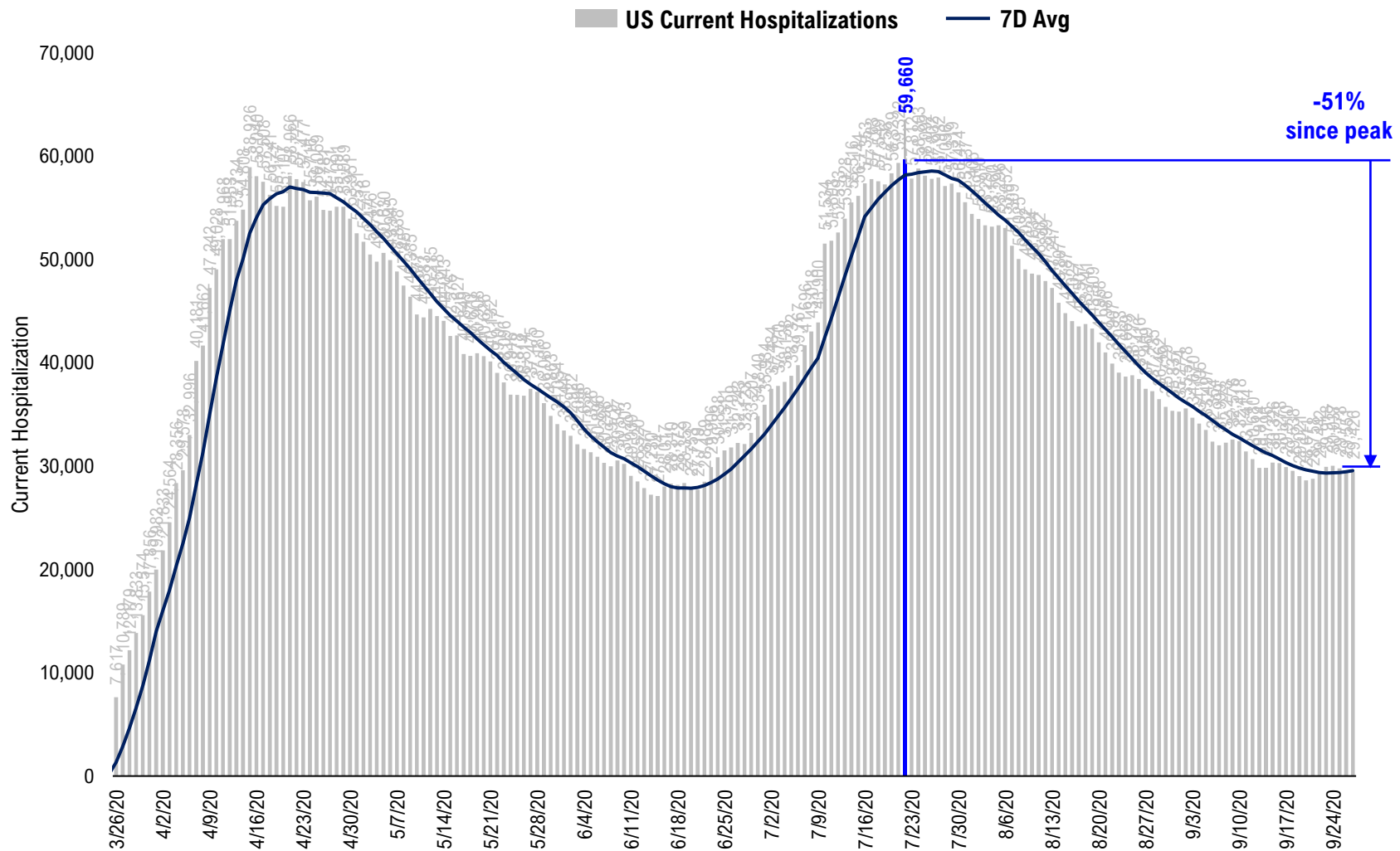
	Sorted				
	7D Ago	Last 3-day Trend			
	9/20/20	9/25/20	9/26/20	9/27/20	vs 7D ago
United States	34,933	47,273	44,828	34,898	-35
States:					
California	4,265	3,400	4,197	4,071	
Wisconsin	1,665	2,504	2,817	2,217	<--higher
Tennessee	2,075	1,910	1,437	2,104	
Florida	2,521	2,847	2,795	1,882	
Illinois	1,402	2,805	2,441	1,604	
Missouri	1,328	1,987	1,716	1,392	
Texas	2,241	3,306	3,283	1,292	
North Carolina	1,333	1,579	1,759	1,290	
Minnesota	1,296	1,177	1,470	1,075	
Utah	920	1,411	1,017	1,068	
Louisiana	936	706	0	923	
Pennsylvania	733	806	1,029	918	<--higher
Indiana	746	1,171	1,142	901	<--higher
New York	862	908	1,005	866	
Oklahoma	1,003	1,276	990	823	
Georgia	1,134	1,468	1,359	812	
Ohio	762	1,150	1,115	800	
Virginia	856	941	975	736	
Alabama	798	798	933	730	
New Jersey	453	548	750	698	<--higher
Iowa	621	974	899	692	
Washington	349	536	988	604	<--higher
Massachusetts	359	488	569	592	<--higher
South Carolina	522	782	674	585	
Colorado	501	709	584	569	
Puerto Rico	262	712	296	533	<--higher
Arkansas	549	796	788	475	
Kentucky	436	908	970	455	

	Sorted				
	7D Ago	Last 3-day Trend			
	9/20/20	9/25/20	9/26/20	9/27/20	vs 7D ago
United States	34,933	47,273	44,828	34,898	-35
States:					
Nebraska	410	453	431	434	
Maryland	412	559	613	431	
Arizona	467	515	459	411	
South Dakota	252	457	579	408	<--higher
Nevada	385	556	602	373	
North Dakota	351	434	495	344	
Oregon	202	449	267	239	
Idaho	244	523	539	205	
Montana	136	322	343	200	<--higher
West Virginia	180	247	205	190	
Mississippi	277	722	645	182	
Wyoming	91	115	45	168	<--higher
New Mexico	67	263	205	152	<--higher
Alaska	93	122	113	114	<--higher
Delaware	117	138	71	104	
Hawaii	77	112	127	98	<--higher
New Hampshire	27	41	36	51	<--higher
District of Columbia	53	57	52	35	
Maine	44	20	25	28	
U.S. Virgin Islands	27	6	0	21	
Vermont	5	7	9	2	
Northern Mariana Islands	6	0	0	1	
Rhode Island	82	119	0	0	
Michigan	0	929	901	0	
Kansas	0	1,366	0	0	
Guam	0	23	68	0	
Connecticut	0	115	0	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...

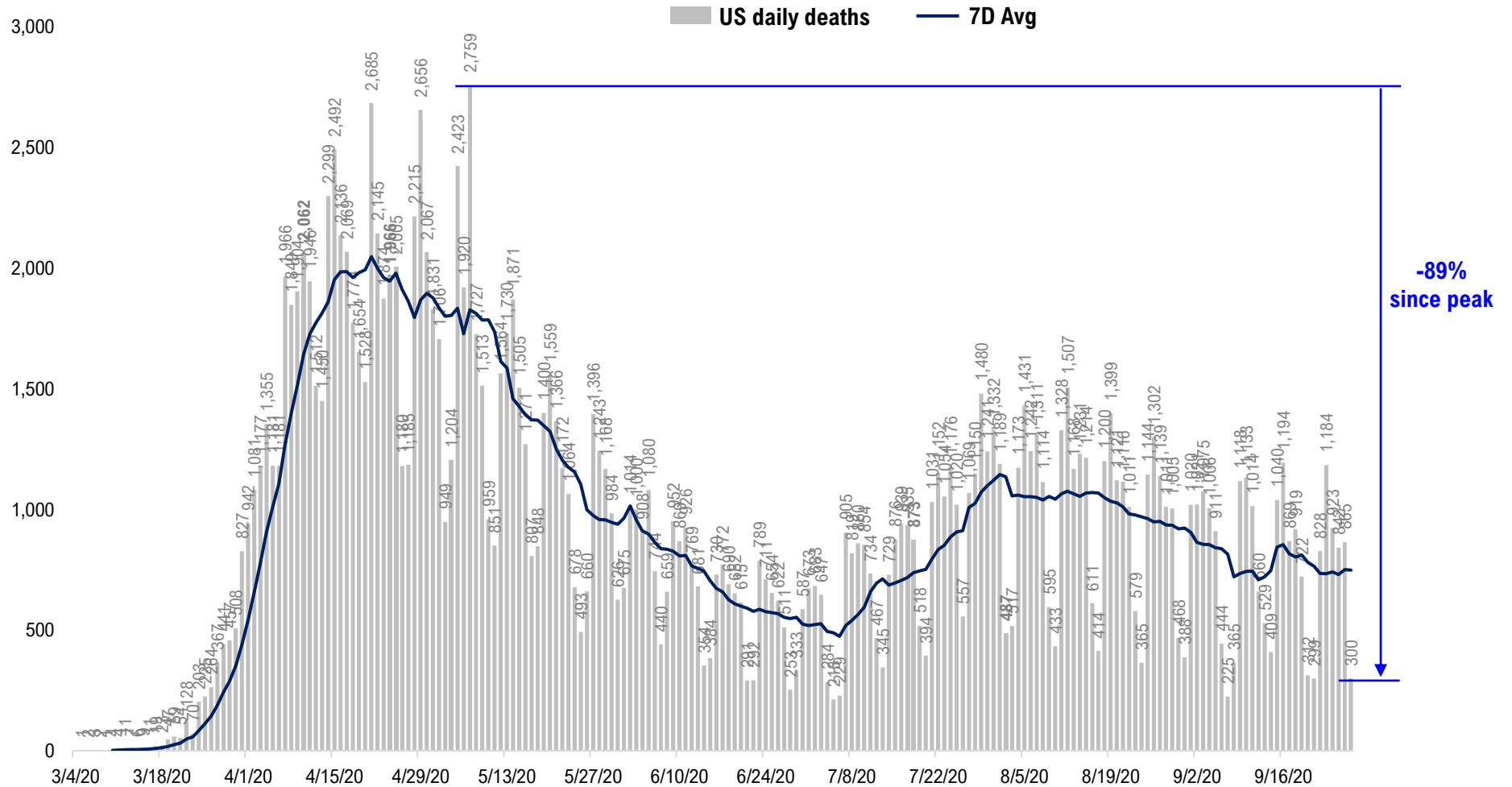
US Net Hospitalizations (aggregate of 50 states + Washington, D.C.)



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

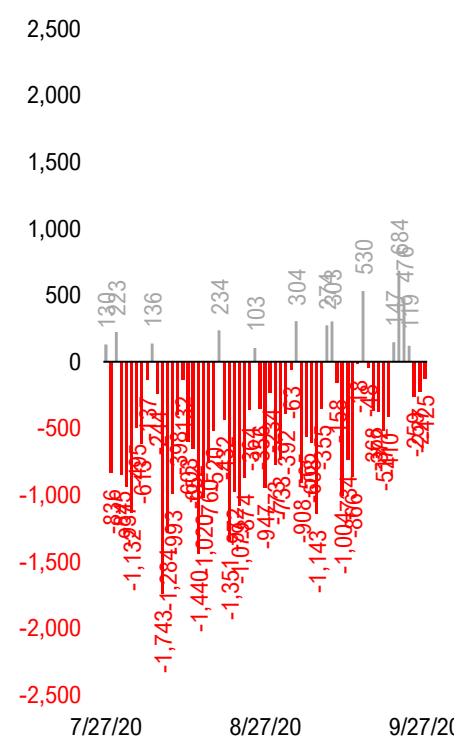
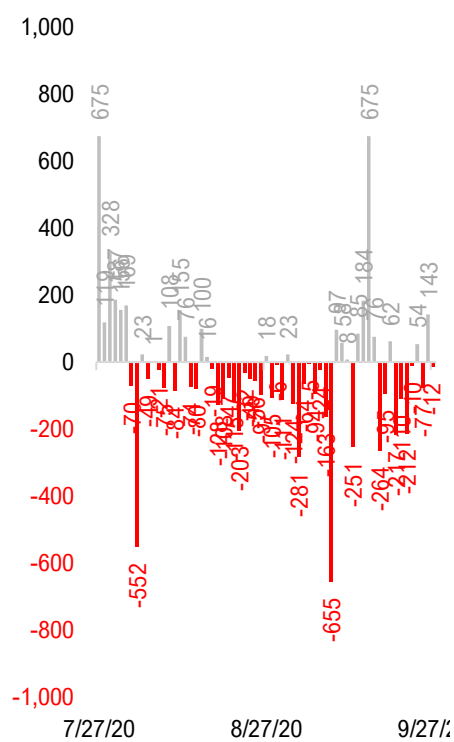
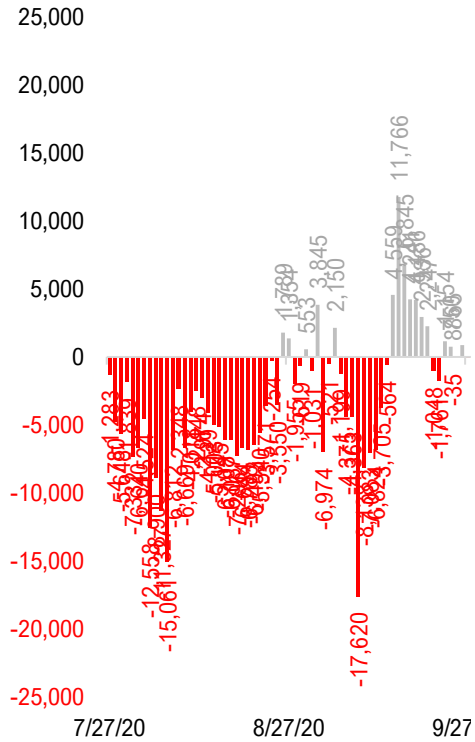
#9: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

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

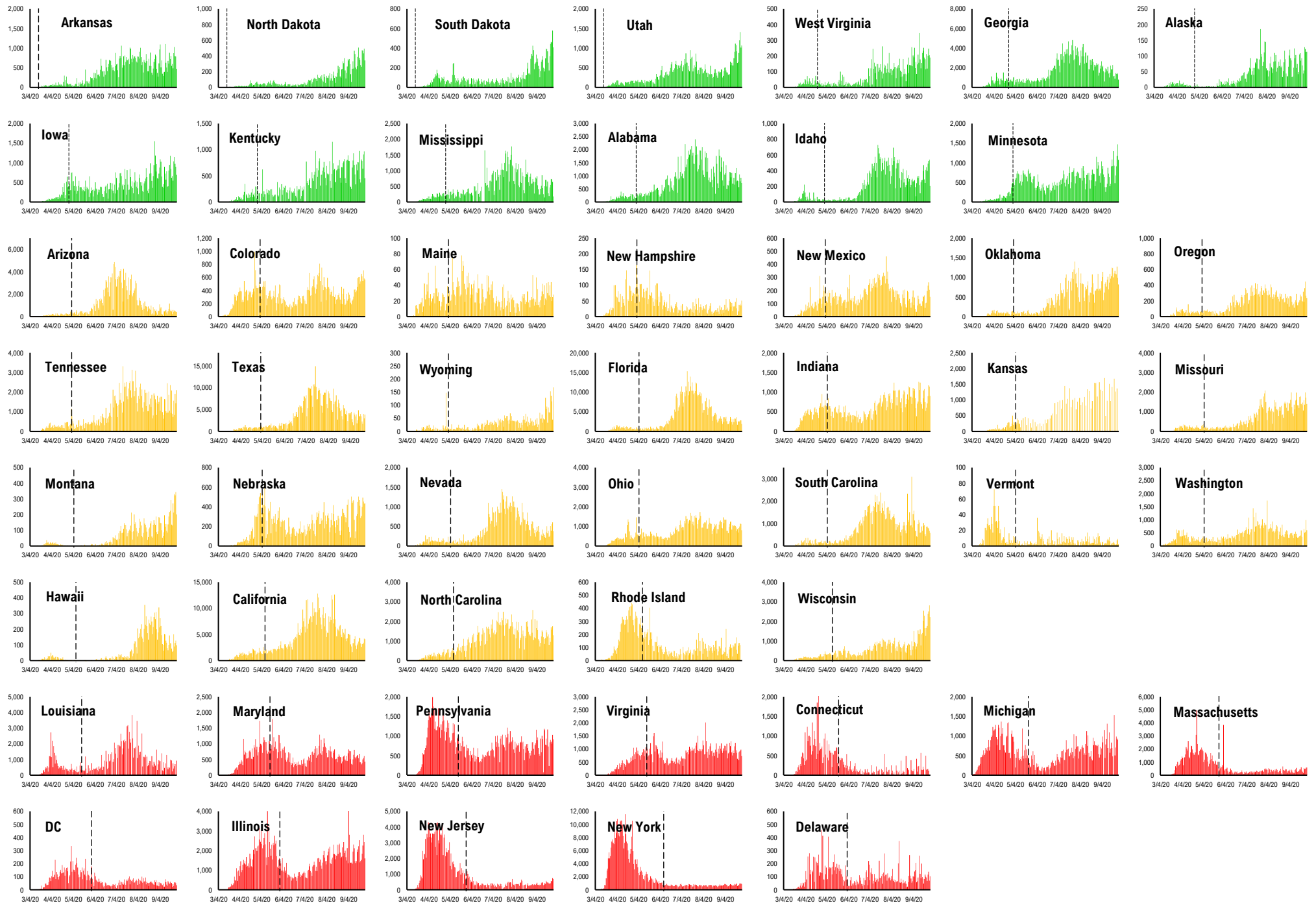
Daily Deaths

Daily Net Hospitalization
(Red = more discharge than admission)

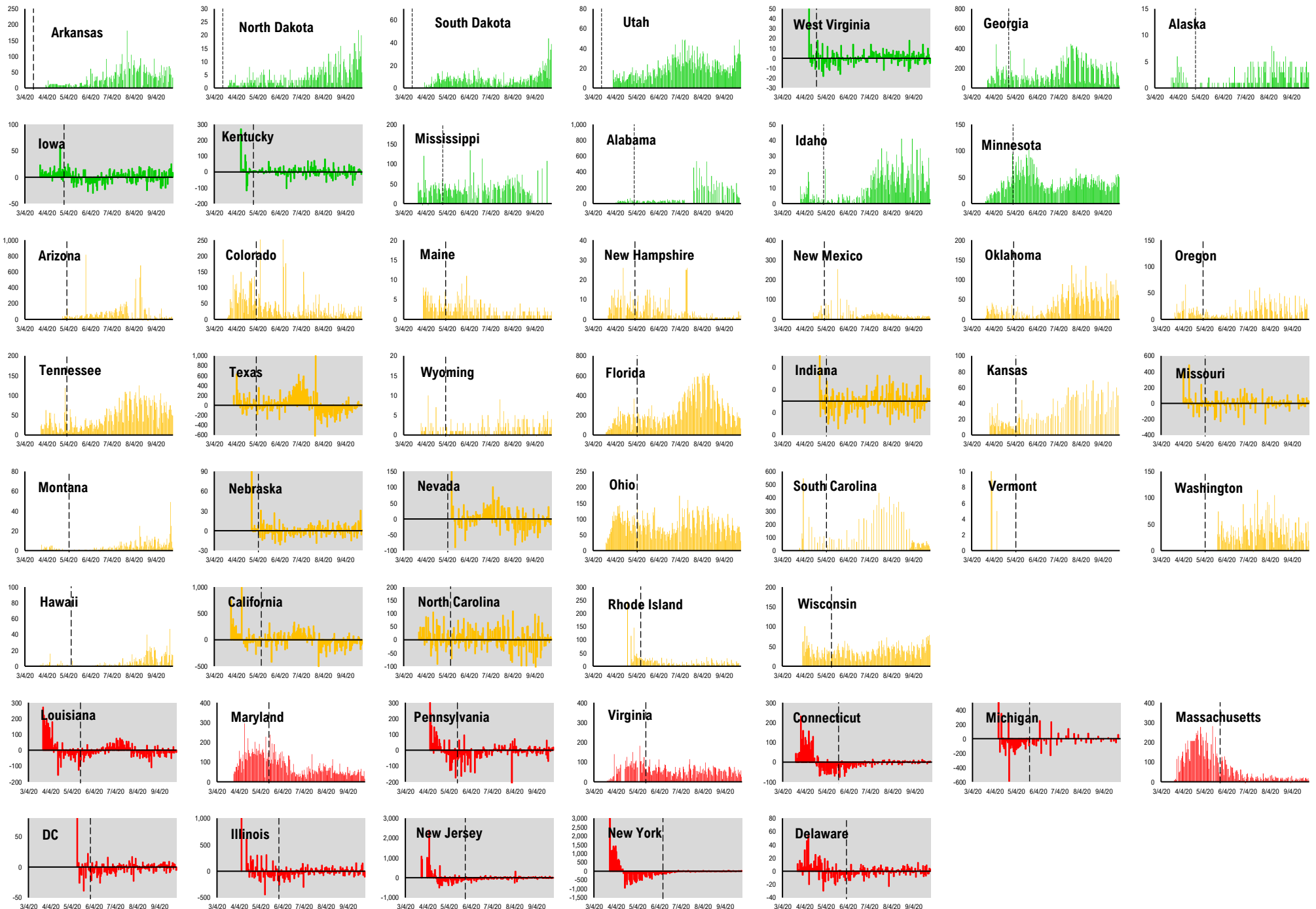
Daily Tests



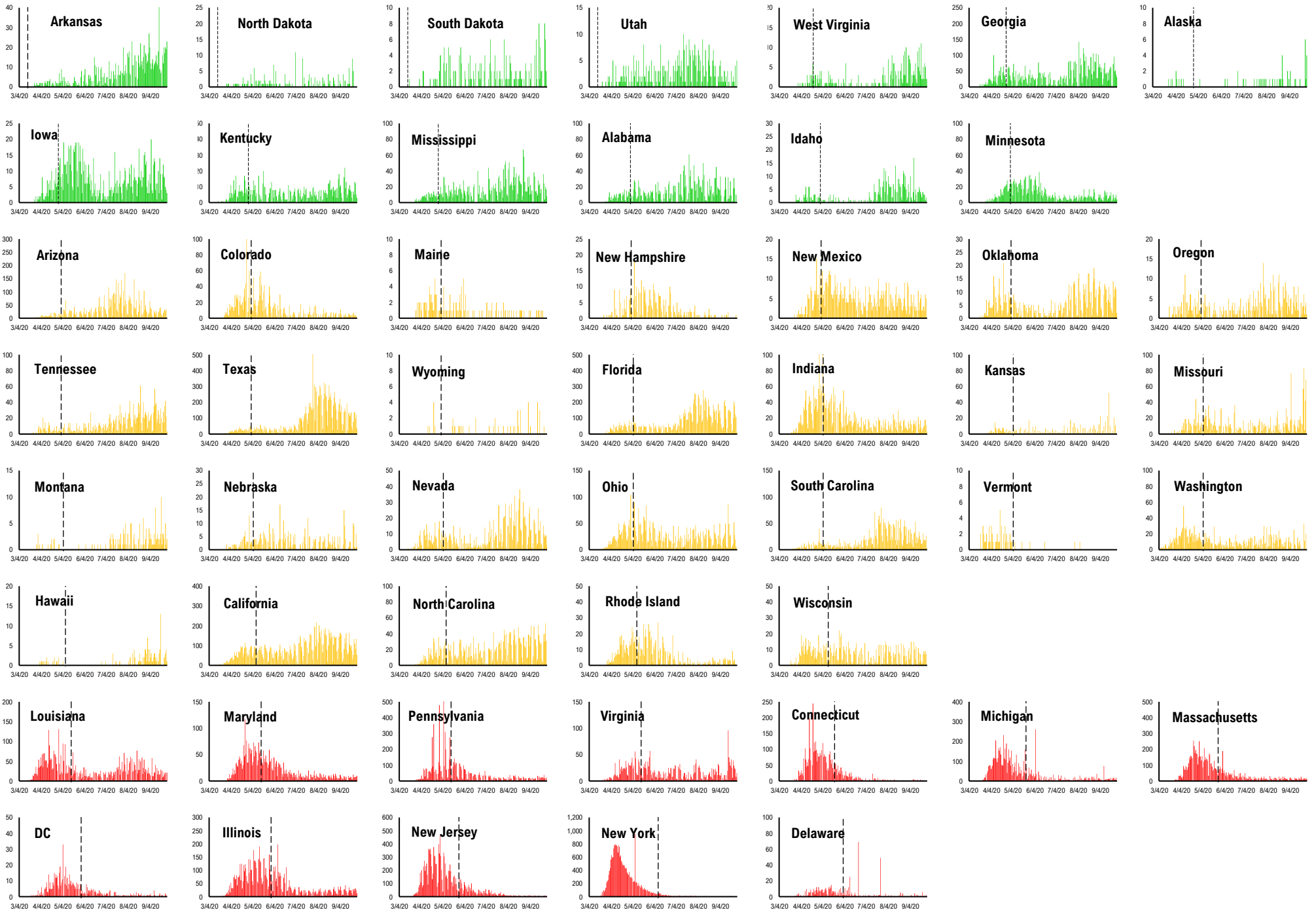
#10: Daily New Cases by States... (sorted by "open" date)



#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...

Daily Cases

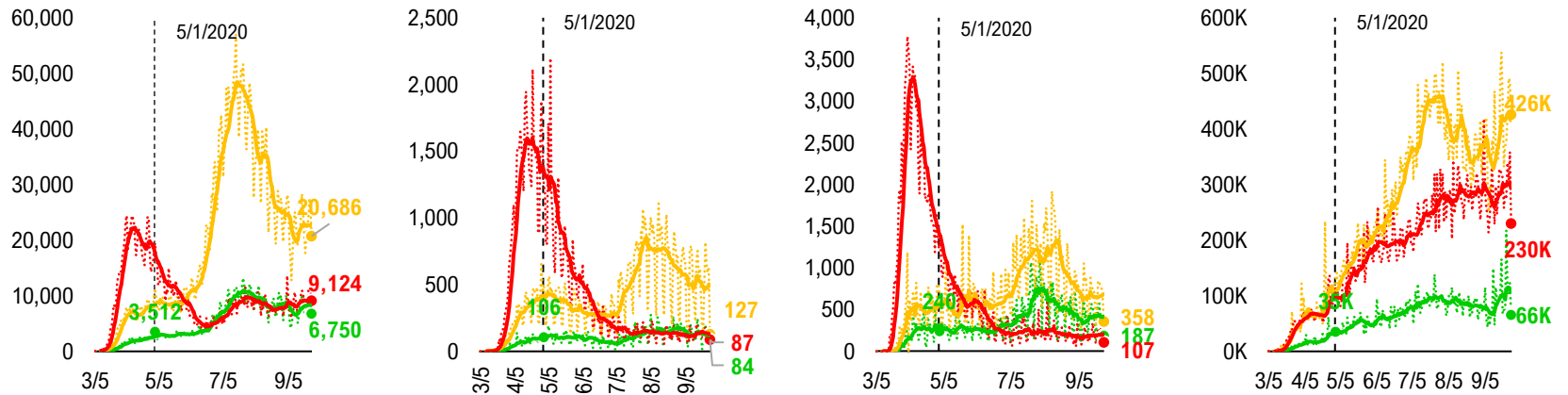
Daily Deaths

Daily Hospitalization

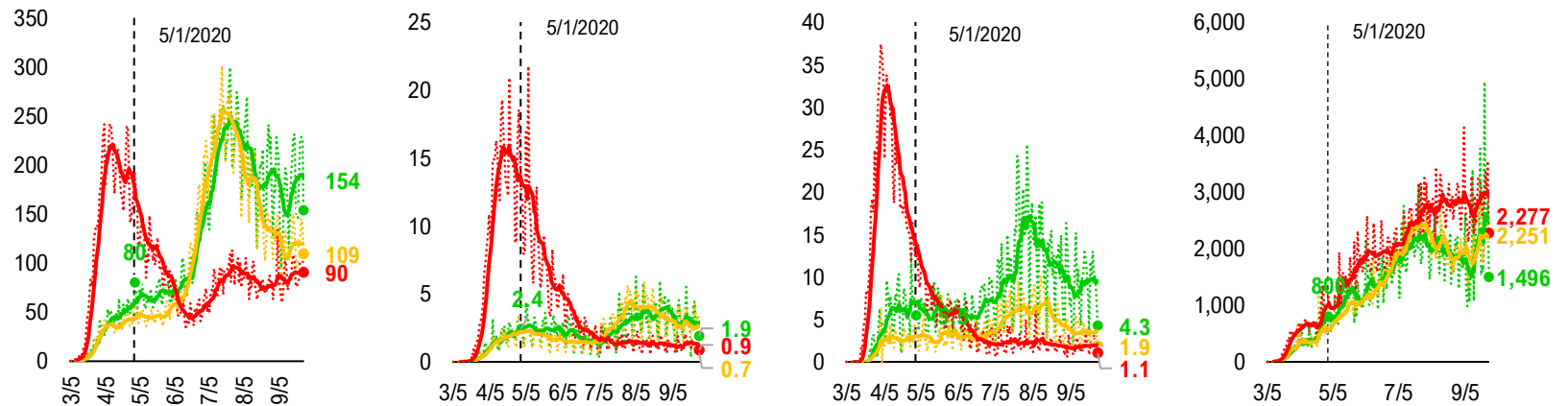
Daily Testing

— States Open Before 5/1 — States Open between 5/1 and 5/11 — States Open after 5/11

Composite Daily Aggregate

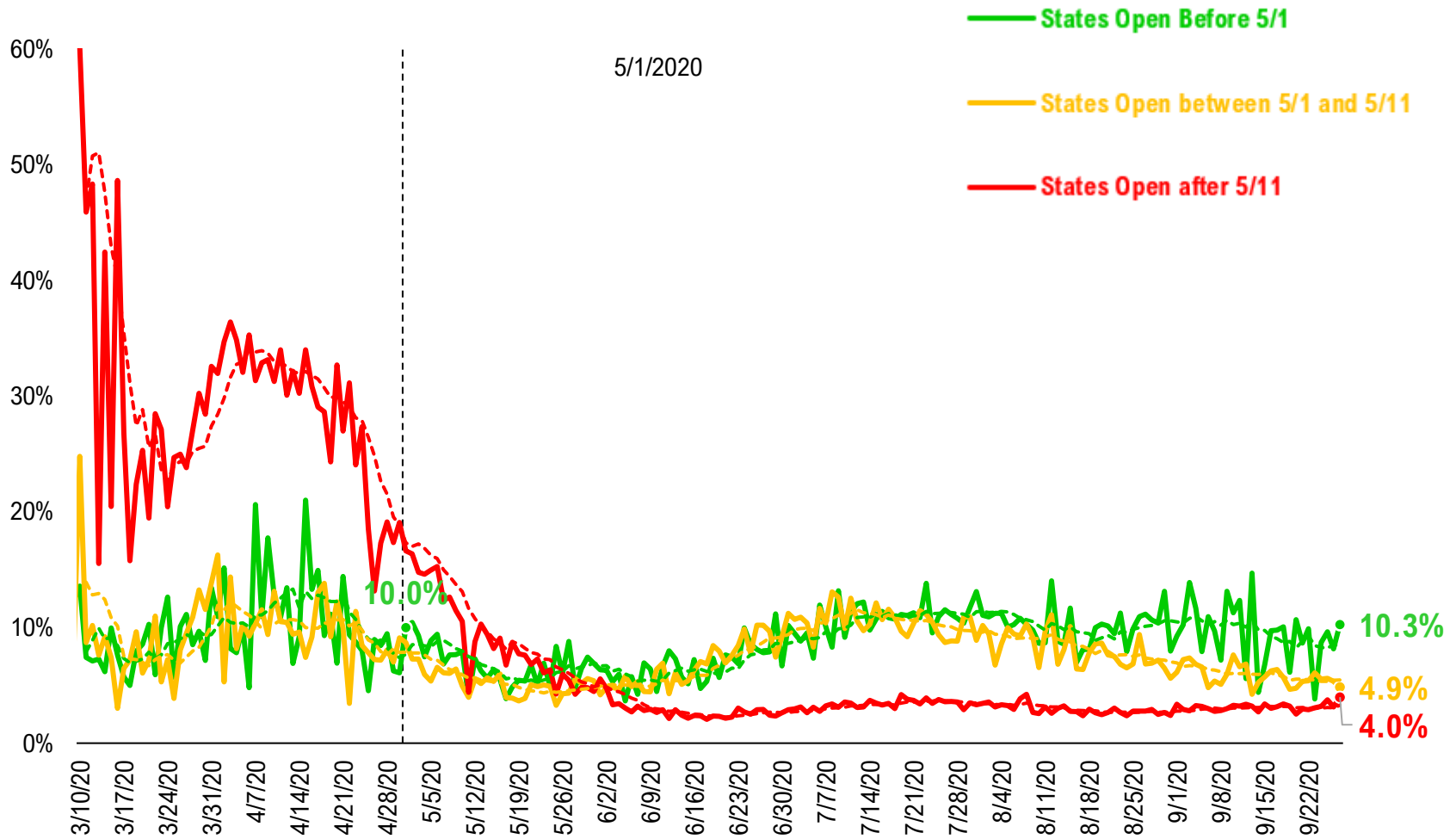


Composite Daily Aggregate Per 1mm Pop

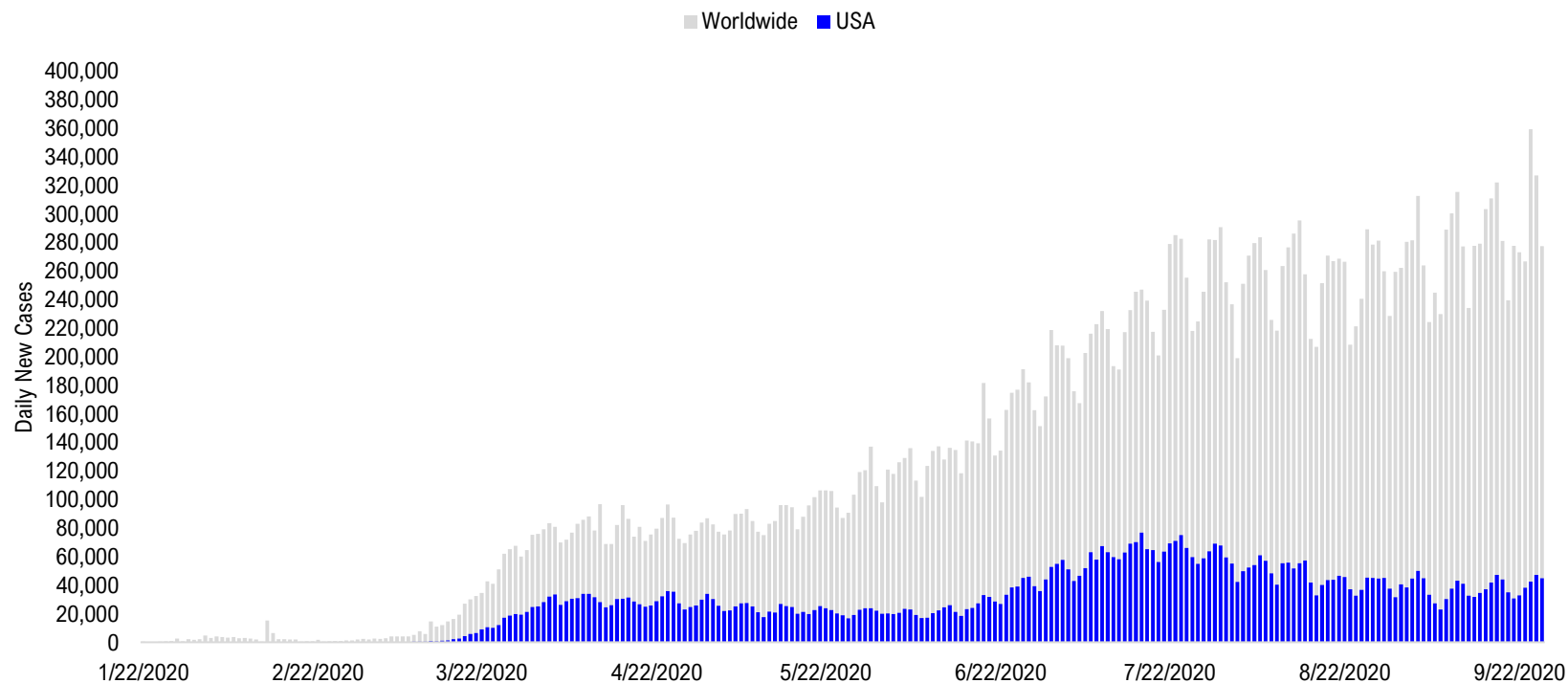


#14: State COVID-19 Daily Positivity Rate by Reopen Date...

Composite Daily Positivity Rate



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



5/8/2020	5/22/2020	6/5/2020	6/19/2020	7/3/2020	7/17/2020	7/31/2020	8/14/2020	8/28/2020	9/11/2020	9/26/2020
US + Canada 28,068	Latin America 33,875	Latin America 47,182	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 88,700
Europe 27,484	US + Canada 25,073	US + Canada 21,894	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 83,501	Latin America 83,495
Latin America 18,868	Europe 19,494	Europe 17,839	Pakistan + India + Bangladesh 22,981	Pakistan + India + Bangladesh 27,389	Pakistan + India + Bangladesh 39,450	Pakistan + India + Bangladesh 58,625	US + Canada 54,663	US + Canada 45,494	Europe 47,368	Europe 64,054
Pakistan + India + Bangladesh 5,721	Pakistan + India + Bangladesh 9,981	Pakistan + India + Bangladesh 16,820	Europe 18,534	Europe 15,950	Africa 19,290	Europe 20,854	Europe 28,282	Europe 35,826	US + Canada 37,577	US + Canada 46,143
Africa 2,945	Africa 4,166	Africa 6,467	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 10,510
Asia ex- India+Pakistan 1,906	Asia ex- India+Pakistan 2,225	Asia ex- India+Pakistan 2,565	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 7,505

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