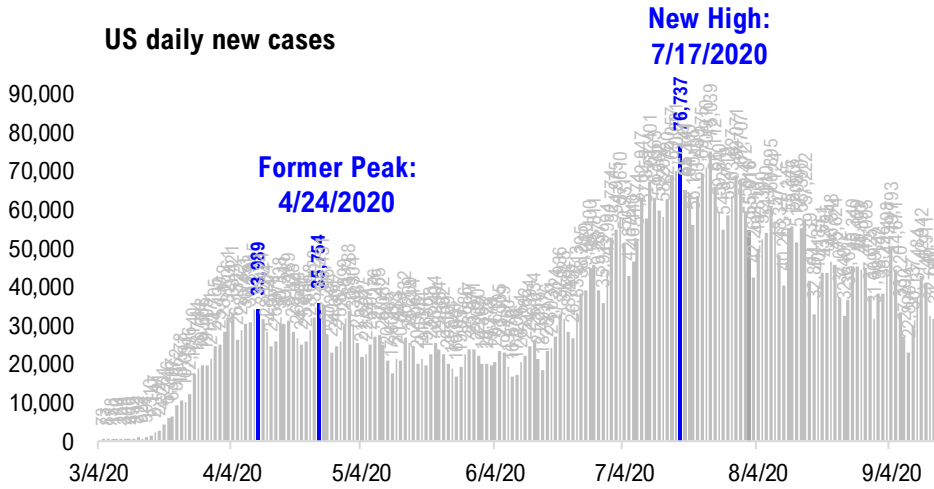


# FSInsight Daily COVID-19 Chartbook

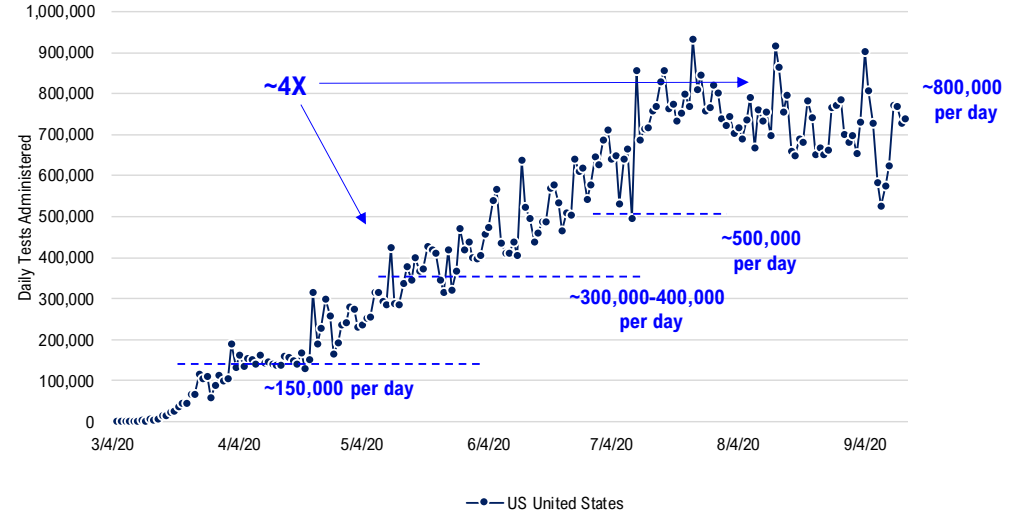


# #1: USA COVID-19 Situation at a Glance...

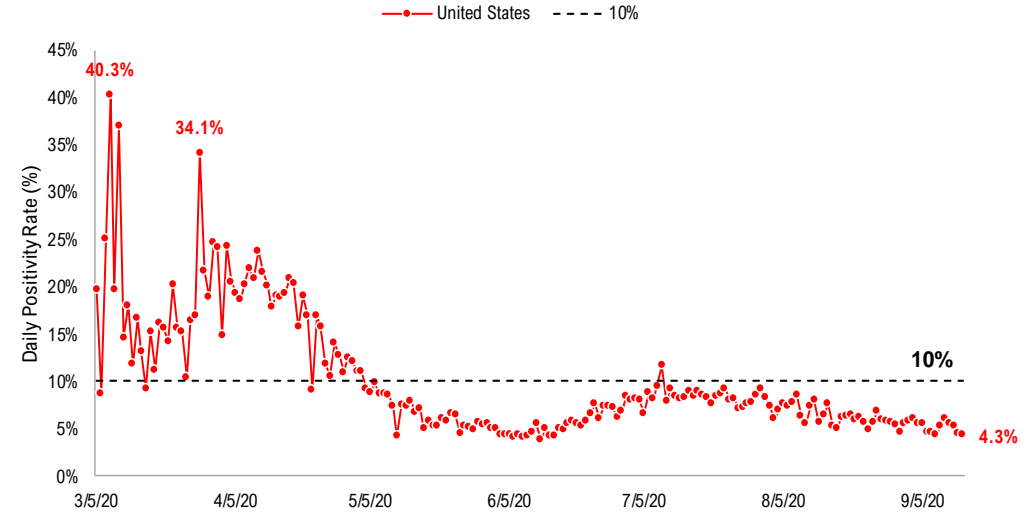
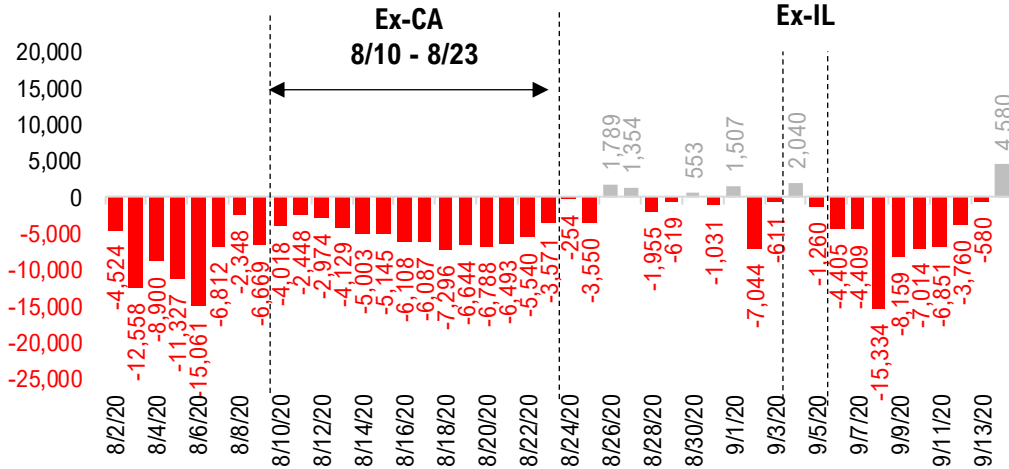
US daily new cases



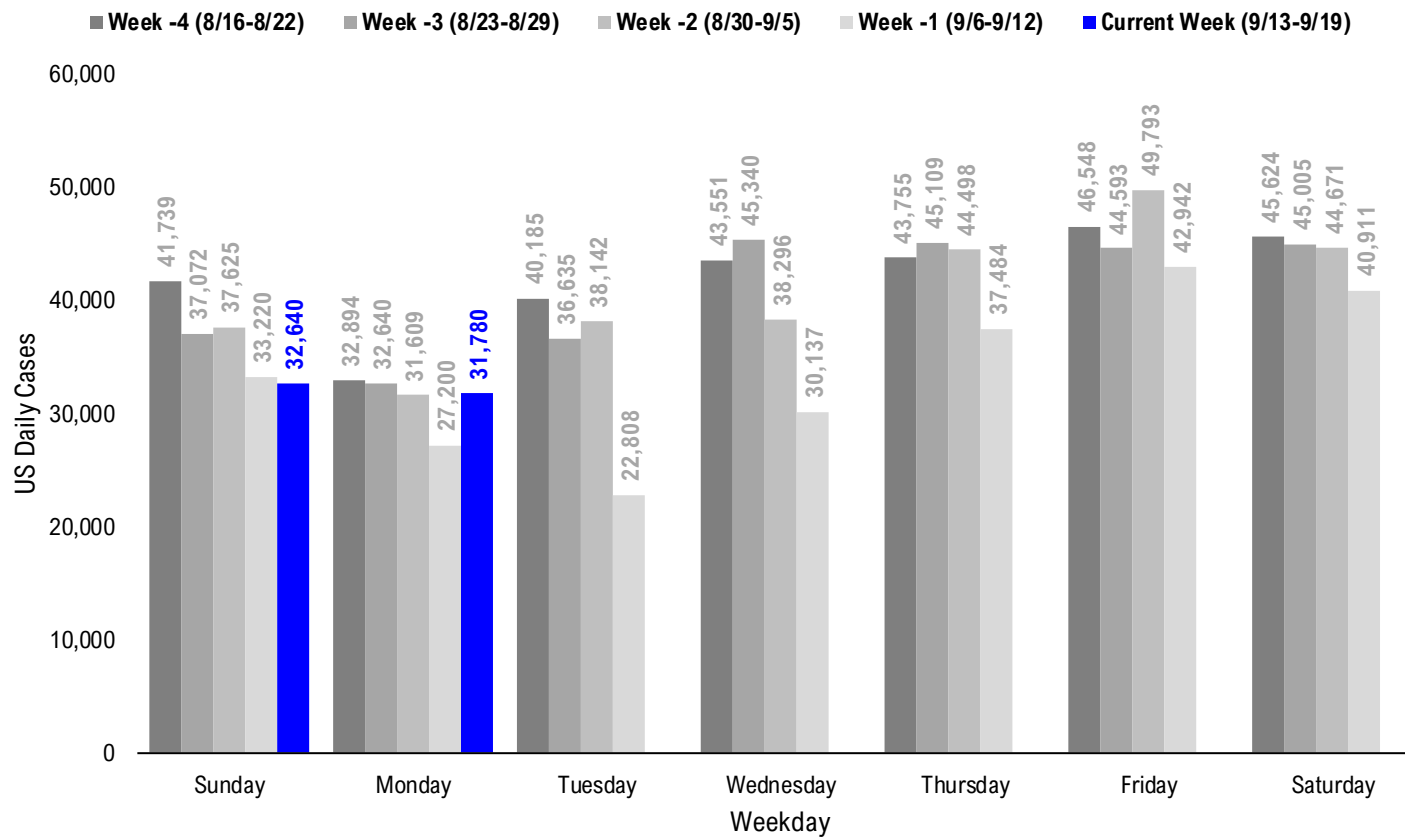
USA total COVID-19 tests administered



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	9/14/20	7D Delta	9/14/20	7D Delta	# Days	Cases	
United States	100%	31,780	+4,580	107	+0	59	-51%	

### States:

1	California	11.9%	2,855	-236	98	-12	52	-66%
2	Texas	8.7%	2,595	+538	96	-11	59	-77%
3	Tennessee	2.1%	2,450	+1,467	215	-5	48	-46%
4	Florida	6.5%	1,736	-102	114	-11	63	-81%
5	Kansas	0.9%	1,513	-181	173	-21	19	-51%
6	Illinois	3.8%	1,373	-8	130	-17	8	-49%
7	Missouri	1.8%	1,332	+426	267	+43	46	-15%
8	Pennsylvania	3.9%	1,182	+635	57	-1	157	-60%
9	Michigan	3.0%	1,088	-68	59	-7	143	-52%
10	Ohio	3.5%	1,079	+301	90	+8	45	-32%
11	Georgia	3.2%	1,023	+415	143	+3	51	-65%
12	Oklahoma	1.2%	869	+256	217	+34	48	-30%
13	North Carolina	3.2%	845	-173	111	-5	58	-48%
14	Wisconsin	1.8%	771	+204	212	+74	1	-14%
15	Virginia	2.6%	757	+112	114	+5	36	-31%
16	Indiana	2.0%	736	+146	150	+26	1	-15%
17	Alabama	1.5%	704	+45	187	+12	51	-56%
18	Minnesota	1.7%	638	+0	132	-2	16	-26%
19	New York	5.9%	583	+63	37	+2	157	-93%
20	Connecticut	1.1%	569	+569	53	+53	145	-87%
21	Utah	1.0%	563	+190	183	+59	58	-28%
22	South Carolina	1.6%	541	-83	130	-21	64	-66%
23	Maryland	1.8%	536	-228	106	-7	116	-49%
24	Louisiana	1.4%	492	+183	127	+5	55	-78%
25	Arkansas	0.9%	399	+49	170	-2	51	-44%
26	Iowa	1.0%	386	-7	184	-35	17	-53%
27	Colorado	1.7%	375	+162	70	+22	141	-45%
28	Kentucky	1.3%	337	+47	118	+14	31	-37%

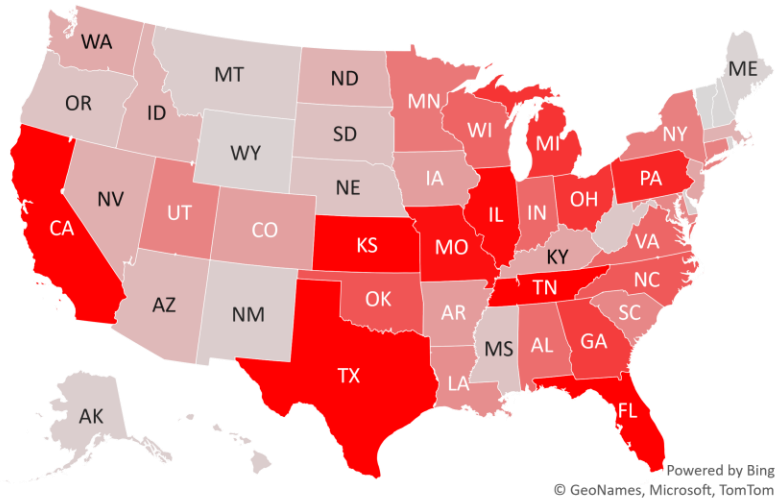
	Sorted Daily Cases			Daily Cases (3D avg) per 1mm residents		Since Peak		% Decline in Daily Cases
	% US Pop	9/14/20	7D Delta	9/14/20	7D Delta	# Days	Cases	
United States	100%	31,780	+4,580	107	+0	59	-51%	

### States:

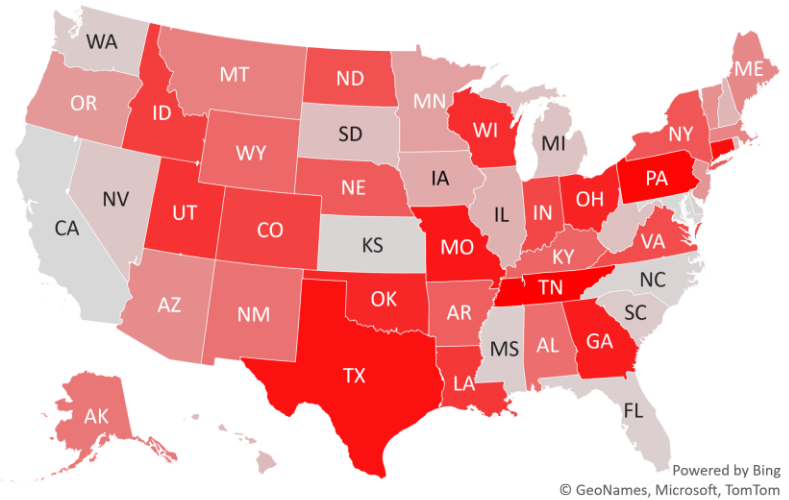
29	New Jersey	2.7%	334	+2	41	+4	162	-91%
30	Washington	2.3%	312	-87	49	-11	61	-63%
31	Nevada	0.9%	277	-80	109	-27	58	-75%
32	North Dakota	0.2%	254	+84	502	+140	0	0%
33	Massachusetts	2.1%	254	+25	53	+3	142	-89%
34	Idaho	0.5%	253	+179	109	+7	59	-71%
35	Arizona	2.2%	213	+15	55	-4	74	-91%
36	Puerto Rico	1.0%	208	-215	65	+3	27	-52%
37	South Dakota	0.3%	163	-28	258	-8	15	-39%
38	Oregon	1.3%	147	+1	49	+2	44	-44%
39	Nebraska	0.6%	147	+58	85	+31	135	-68%
40	Mississippi	0.9%	144	-98	94	-39	46	-82%
41	West Virginia	0.5%	121	-42	120	+20	2	-9%
42	Delaware	0.3%	88	-118	161	-9	139	-53%
43	Montana	0.3%	86	+34	100	+8	10	-37%
44	New Mexico	0.6%	81	+44	44	+6	47	-74%
45	Hawaii	0.4%	80	-25	75	-39	16	-64%
46	Alaska	0.2%	75	+42	109	+13	43	-40%
47	Wyoming	0.2%	46	+46	74	+49	138	-26%
48	Maine	0.4%	40	+21	28	+10	115	-46%
49	Guam	0.0%	36	+36	129	+24	18	-80%
50	Rhode Island	0.3%	32	-21	71	-33	142	-83%
51	District of Columbia	0.2%	30	-6	61	+0	134	-81%
52	New Hampshire	0.4%	18	-11	23	-3	135	-75%
53	Vermont	0.2%	12	+9	15	+10	162	-84%
54	U.S. Virgin Islands	0.0%	1	-8	62	-62	24	-85%
55	Northern Mariana Islands	0.0%	1	+1	12	+6	164	-67%
56	American Samoa	0.0%	0	+0	0	+0	-	-

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

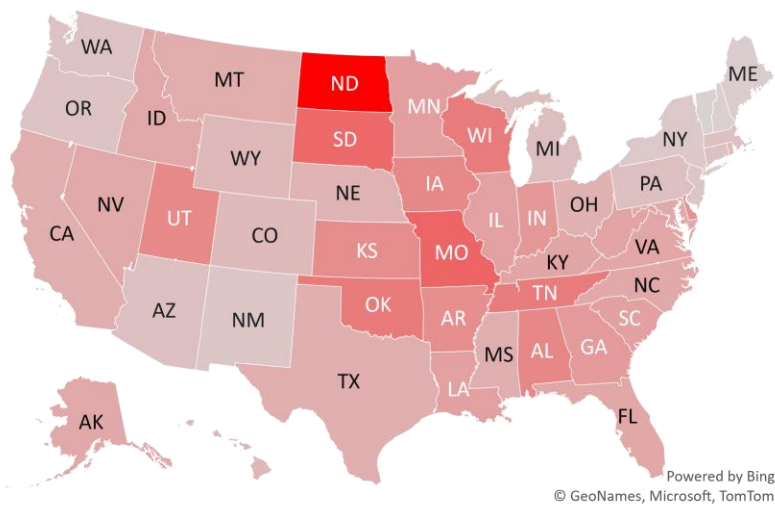
### Daily Case Increases



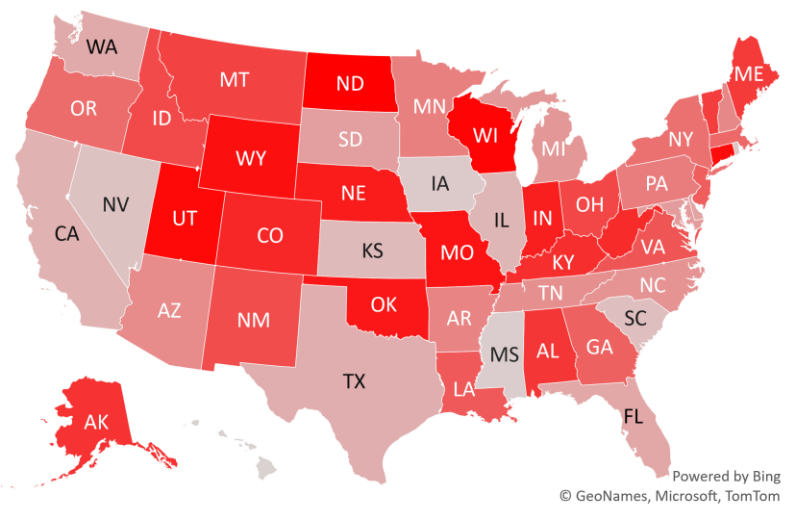
### 7D Delta in Daily New Cases



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



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





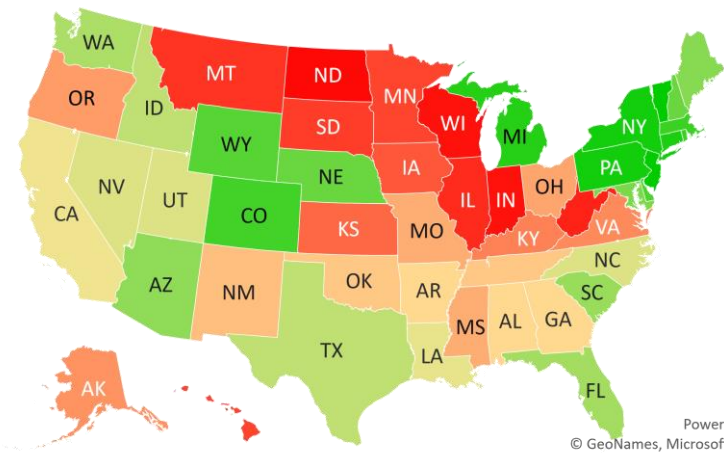
# #5: # of Days since Daily Case Peaked by States...

## # Days since Daily Cases (3D Avg) Peak (as of 9/14)

	Sorted			
	Peak Date	9/14/20	% off the Peak	% US Pop
United States	7/17/20	59	-51%	100%
<b>States:</b>				
Northern Mariana Island	4/3/20	164	-67%	0.0%
Vermont	4/5/20	162	-84%	0.2%
New Jersey	4/5/20	162	-91%	2.7%
Pennsylvania	4/10/20	157	-60%	3.9%
New York	4/10/20	157	-93%	5.9%
Connecticut	4/22/20	145	-87%	1.1%
Michigan	4/24/20	143	-52%	3.0%
Rhode Island	4/25/20	142	-83%	0.3%
Massachusetts	4/25/20	142	-89%	2.1%
Colorado	4/26/20	141	-45%	1.7%
Delaware	4/28/20	139	-53%	0.3%
Wyoming	4/29/20	138	-26%	0.2%
New Hampshire	5/2/20	135	-75%	0.4%
Nebraska	5/2/20	135	-68%	0.6%
District of Columbia	5/3/20	134	-81%	0.2%
Maryland	5/21/20	116	-49%	1.8%
Maine	5/22/20	115	-46%	0.4%
Arizona	7/2/20	74	-91%	2.2%
South Carolina	7/12/20	64	-66%	1.6%
Florida	7/13/20	63	-81%	6.5%
Washington	7/15/20	61	-63%	2.3%
Texas	7/17/20	59	-77%	8.7%
Idaho	7/17/20	59	-71%	0.5%
Utah	7/18/20	58	-28%	1.0%
Nevada	7/18/20	58	-75%	0.9%
North Carolina	7/18/20	58	-48%	3.2%
Louisiana	7/21/20	55	-78%	1.4%
California	7/24/20	52	-66%	11.9%

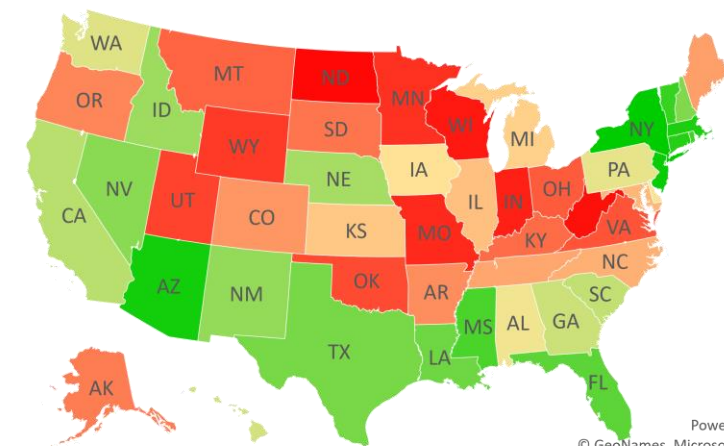
	Sorted			
	Peak Date	9/14/20	% off the Peak	% US Pop
United States	7/17/20	59	-51%	100%
<b>States:</b>				
Georgia	7/25/20	51	-65%	3.2%
Arkansas	7/25/20	51	-44%	0.9%
Alabama	7/25/20	51	-56%	1.5%
Tennessee	7/28/20	48	-46%	2.1%
Oklahoma	7/28/20	48	-30%	1.2%
New Mexico	7/29/20	47	-74%	0.6%
Mississippi	7/30/20	46	-82%	0.9%
Missouri	7/30/20	46	-15%	1.8%
Ohio	7/31/20	45	-32%	3.5%
Oregon	8/1/20	44	-44%	1.3%
Alaska	8/2/20	43	-40%	0.2%
Virginia	8/9/20	36	-31%	2.6%
Kentucky	8/14/20	31	-37%	1.3%
Puerto Rico	8/18/20	27	-52%	1.0%
U.S. Virgin Islands	8/21/20	24	-85%	0.0%
Kansas	8/26/20	19	-51%	0.9%
Guam	8/27/20	18	-80%	0.0%
Iowa	8/28/20	17	-53%	1.0%
Minnesota	8/29/20	16	-26%	1.7%
Hawaii	8/29/20	16	-64%	0.4%
South Dakota	8/30/20	15	-39%	0.3%
Montana	9/4/20	10	-37%	0.3%
Illinois	9/6/20	8	-49%	3.8%
West Virginia	9/12/20	2	-9%	0.5%
Wisconsin	9/13/20	1	-14%	1.8%
Indiana	9/13/20	1	-15%	2.0%
North Dakota	9/14/20	0	0%	0.2%

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



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



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

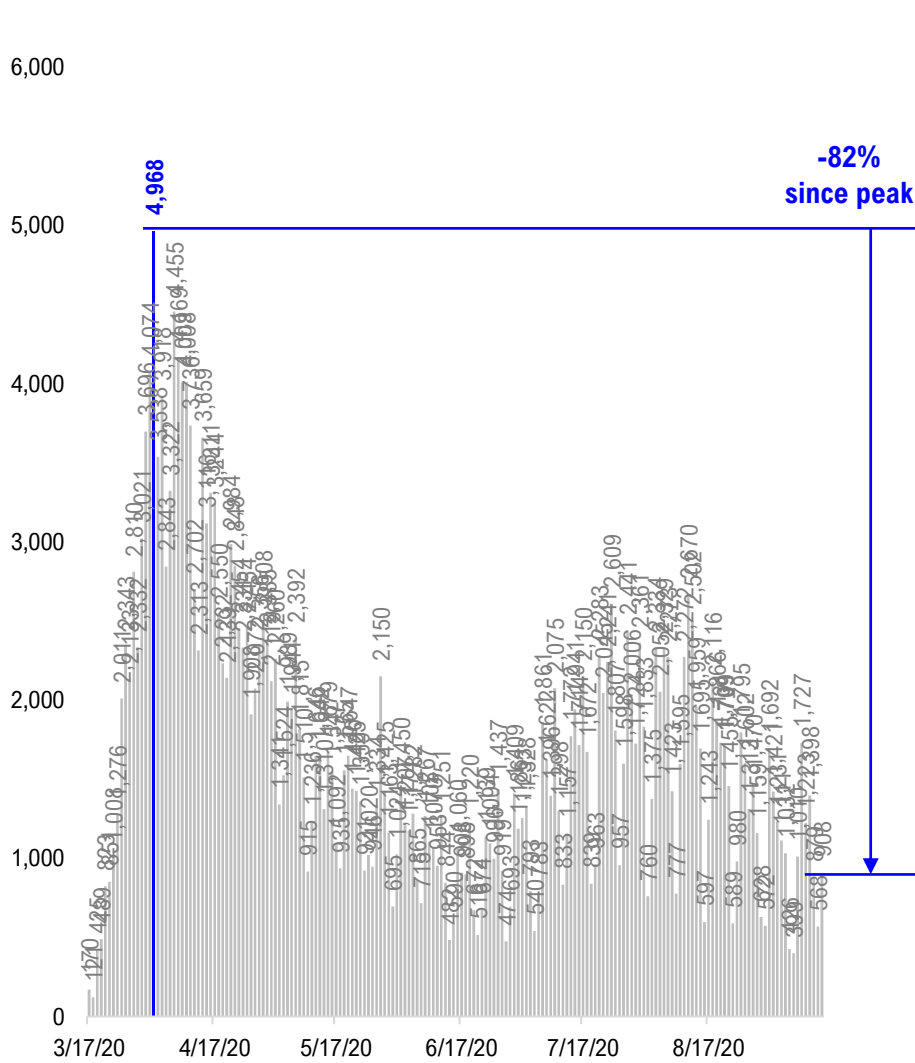
	Sorted						Sorted				
	7D Ago	Last 3-day Trend					7D Ago	Last 3-day Trend			
	9/7/20	9/12/20	9/13/20	9/14/20	vs 7D ago		9/7/20	9/12/20	9/13/20	9/14/20	vs 7D ago
United States	27,200	40,911	32,640	31,780	+4,580	United States	27,200	40,911	32,640	31,780	+4,580
<b>States:</b>						<b>States:</b>					
California	3,091	4,107	4,625	2,855		New Jersey	332	449	297	334	<--higher
Texas	2,057	3,905	1,840	2,595	<--higher	Washington	399	465	350	312	
Tennessee	983	1,032	933	2,450	<--higher	Nevada	357	414	317	277	
Florida	1,838	3,190	2,423	1,736		North Dakota	170	467	426	254	<--higher
Kansas	1,694	0	0	1,513		Massachusetts	229	554	286	254	<--higher
Illinois	1,381	2,121	1,462	1,373		Idaho	74	217	112	253	<--higher
Missouri	906	1,974	1,613	1,332	<--higher	Arizona	198	605	384	213	<--higher
Pennsylvania	547	920	76	1,182	<--higher	Puerto Rico	423	241	171	208	
Michigan	1,156	692	0	1,088		South Dakota	191	320	201	163	
Ohio	778	1,242	837	1,079	<--higher	Oregon	146	291	181	147	<--higher
Georgia	608	2,124	1,409	1,023	<--higher	Nebraska	89	267	80	147	<--higher
Oklahoma	613	1,017	695	869	<--higher	Mississippi	242	445	254	144	
North Carolina	1,018	1,454	1,196	845		West Virginia	163	347	178	121	
Wisconsin	567	1,353	1,582	771	<--higher	Delaware	206	260	123	88	
Virginia	645	1,300	874	757	<--higher	Montana	52	140	96	86	<--higher
Indiana	590	1,056	1,243	736	<--higher	New Mexico	37	98	100	81	<--higher
Alabama	659	943	1,109	704	<--higher	Hawaii	105	127	113	80	
Minnesota	638	872	723	638		Alaska	33	103	62	75	<--higher
New York	520	849	725	583	<--higher	Wyoming	0	33	49	46	<--higher
Connecticut	0	0	0	569	<--higher	Maine	19	42	29	40	<--higher
Utah	373	572	628	563	<--higher	Guam	0	28	0	36	<--higher
South Carolina	624	931	542	541		Rhode Island	53	94	99	32	
Maryland	764	809	577	536		District of Columbia	36	59	40	30	
Louisiana	309	0	1,281	492	<--higher	New Hampshire	29	32	44	18	
Arkansas	350	631	508	399	<--higher	Vermont	3	9	7	12	<--higher
Iowa	393	573	784	386		U.S. Virgin Islands	9	10	9	1	
Colorado	213	415	417	375	<--higher	Northern Mariana Islands	0	1	0	1	<--higher
Kentucky	290	711	530	337	<--higher	American Samoa	0	0	0	0	

<--higher – if the state has more daily cases than 7D ago...  
 Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

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

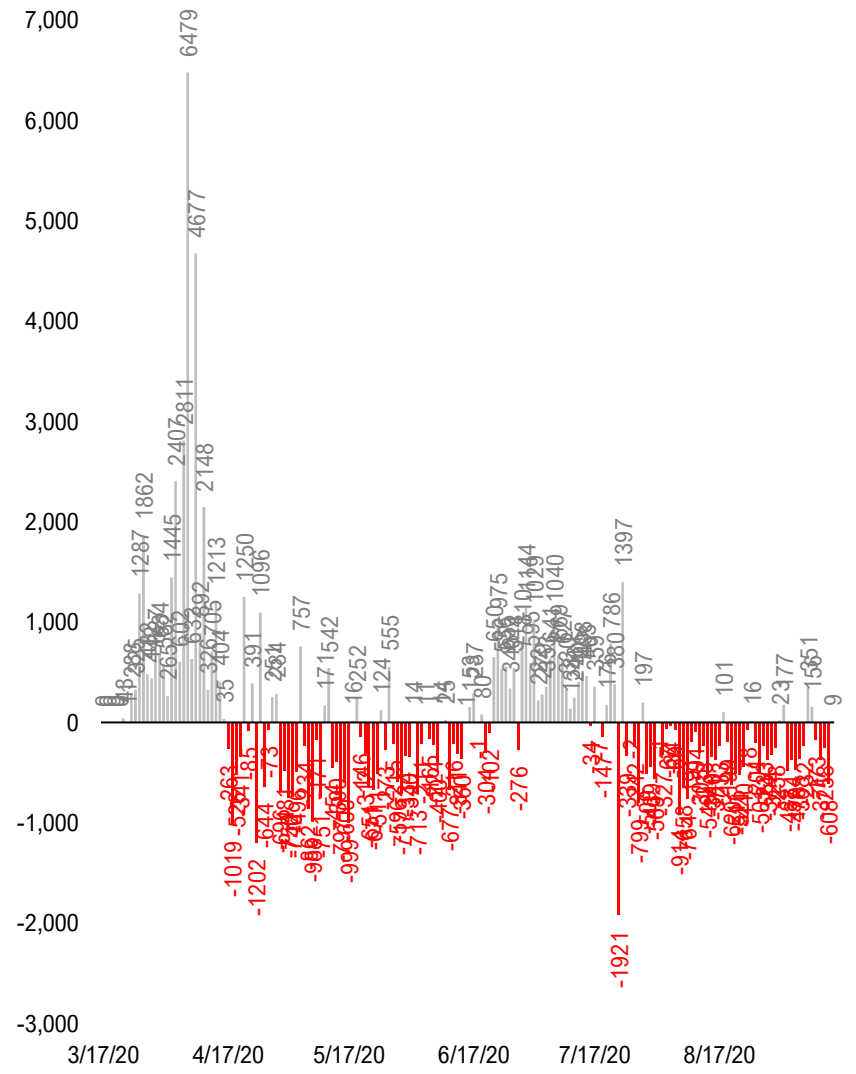
## US Gross Hospitalizations

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



## US Net Hospitalizations

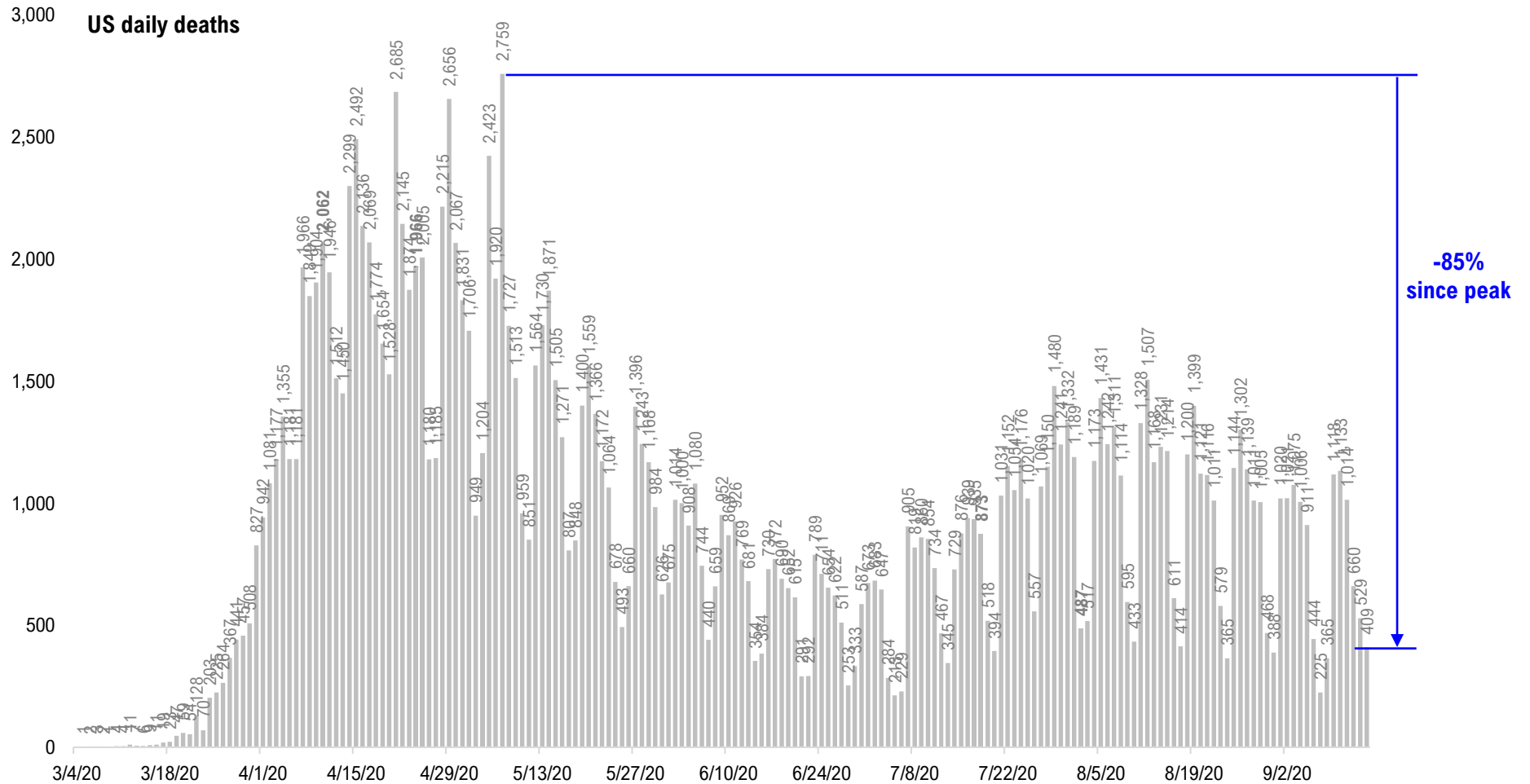
(Composite of 18 states that report "net/current hospitalizations")





# #8: US Daily New Fatalities...

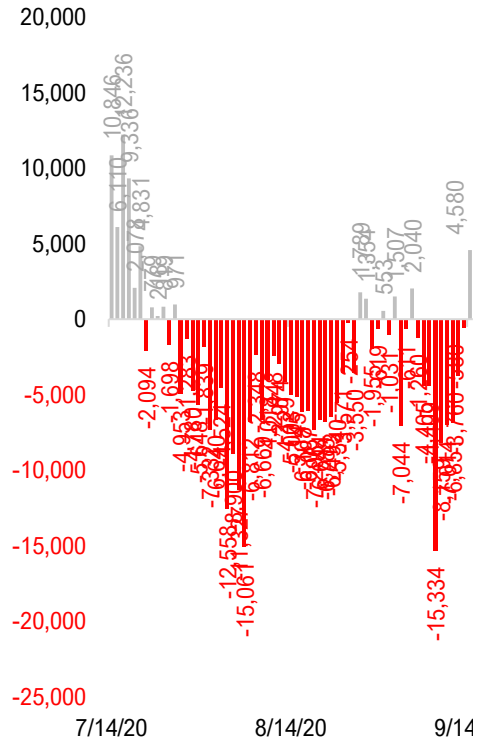
## US daily COVID-19 Fatalities



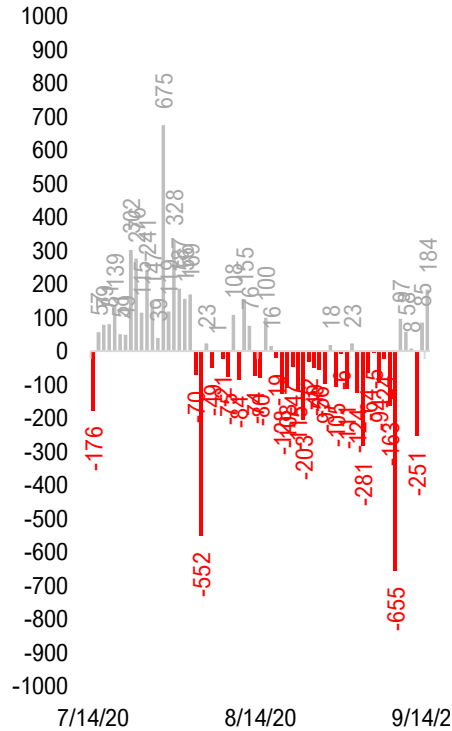
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

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

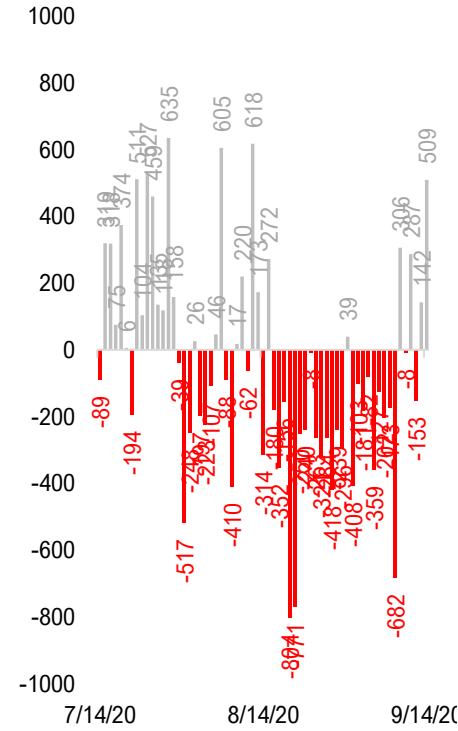
**Daily New Cases**  
(8/10-8/23 ex-CA; 9/4-9/5 ex-IL)



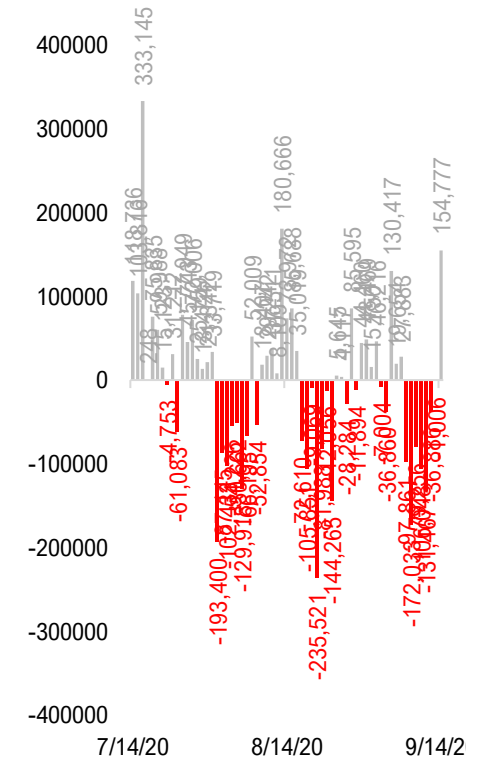
**Daily Deaths**



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

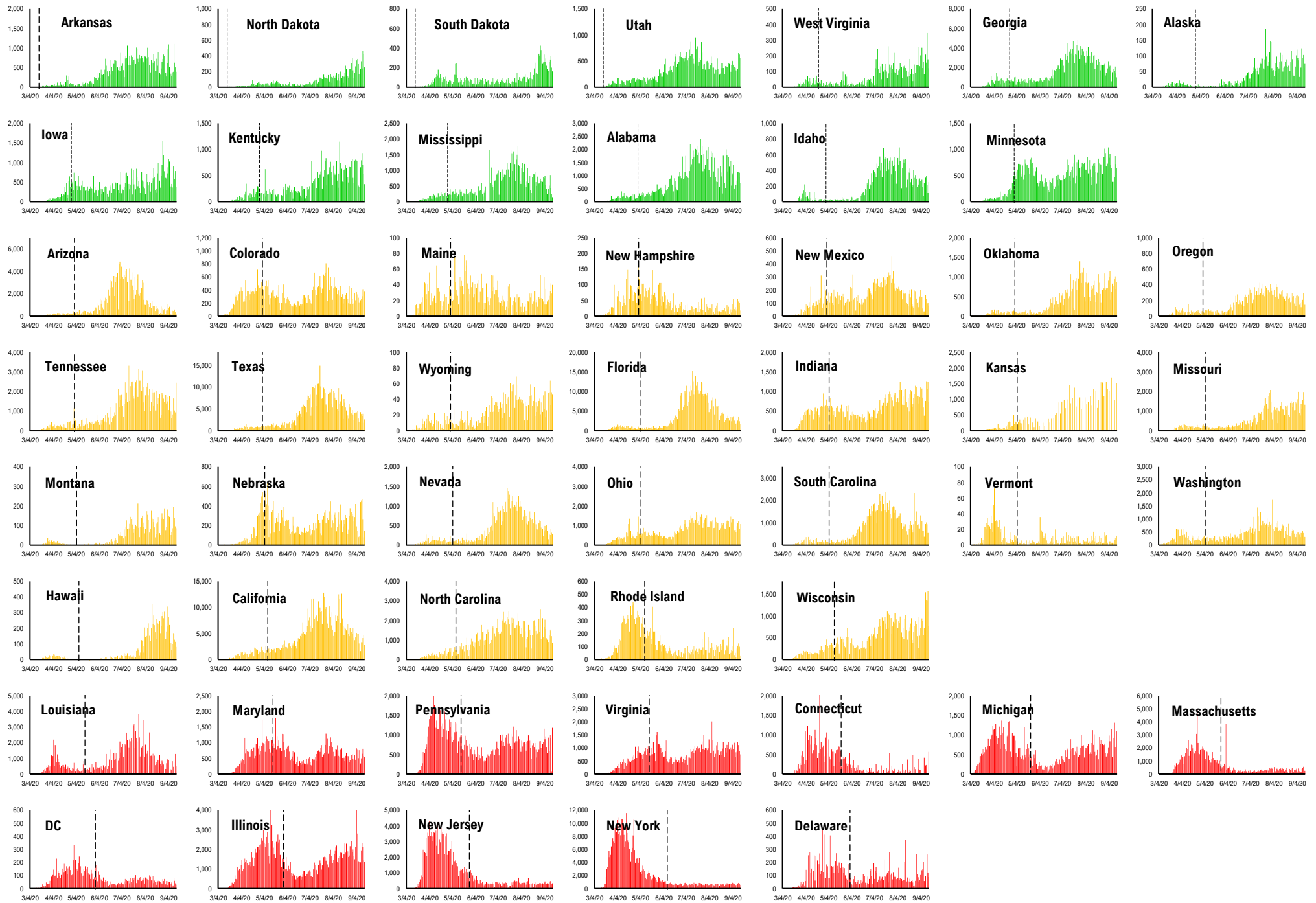


**Daily Tests**

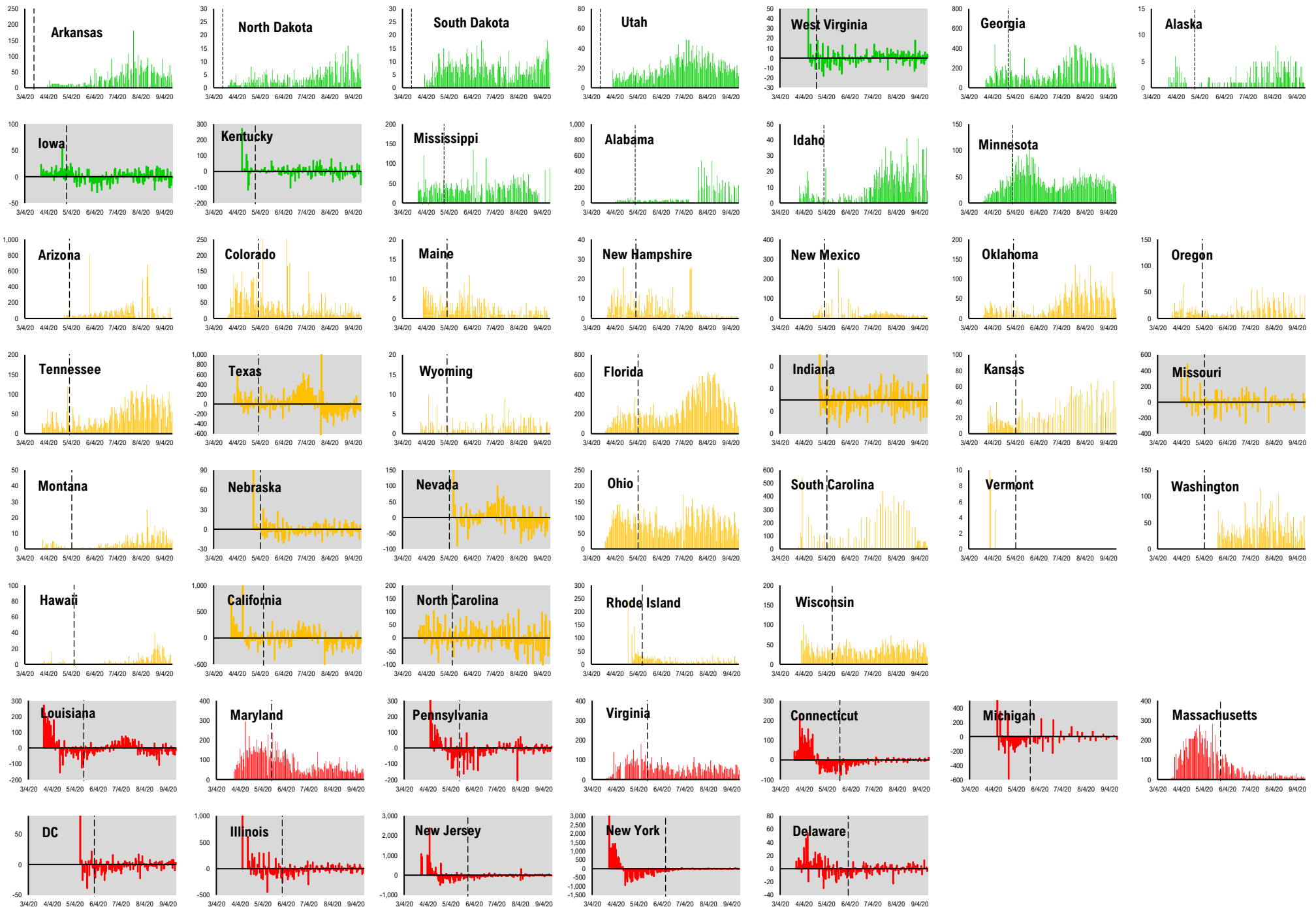


\* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog  
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

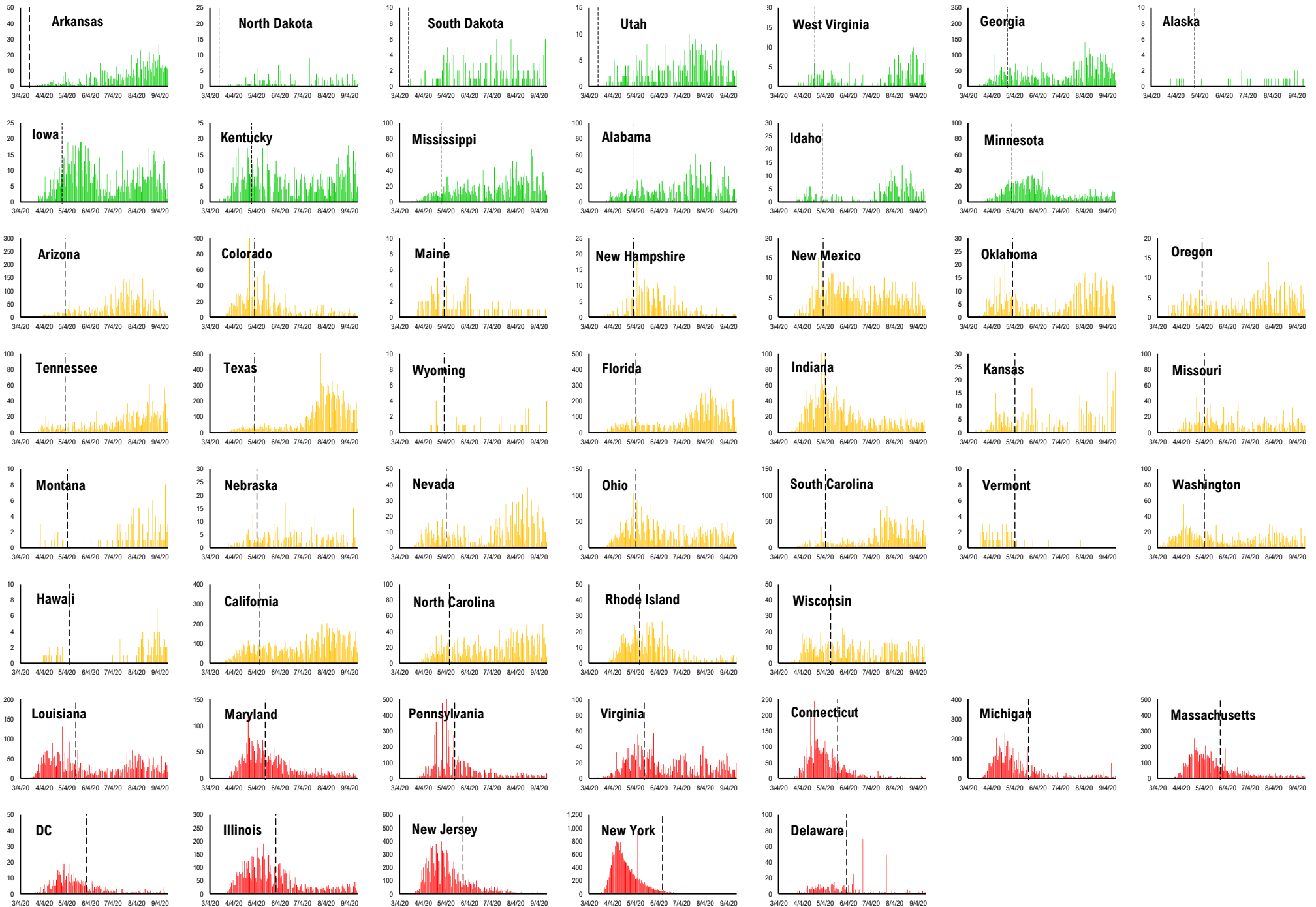
# #10: Daily New Cases by States... (sorted by "open" date)



# #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...

**Daily Cases**

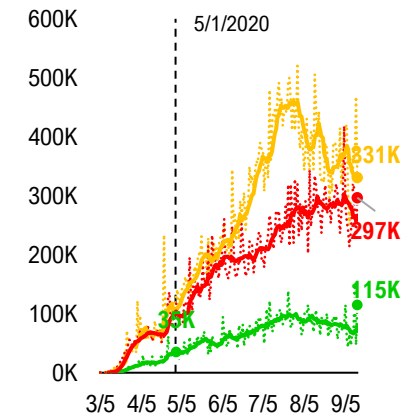
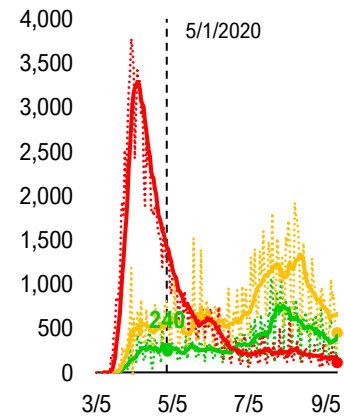
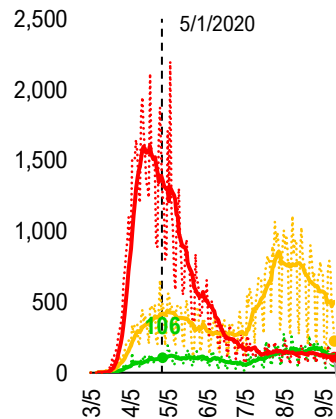
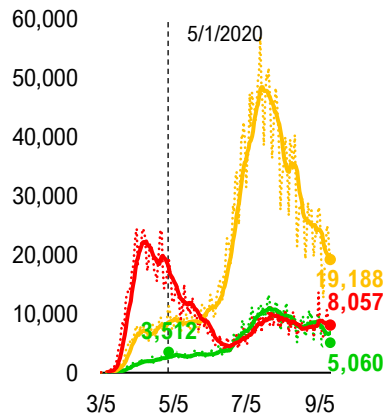
**Daily Deaths**

**Daily Hospitalization**

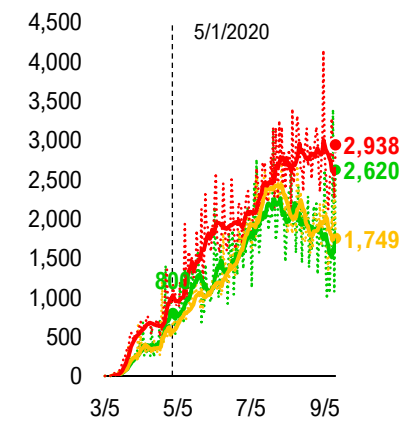
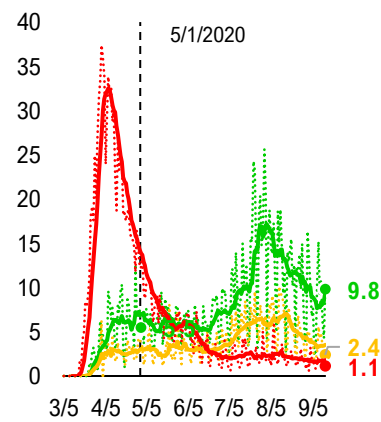
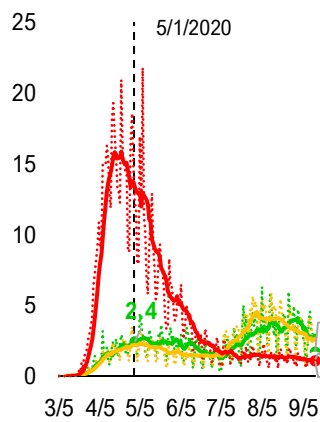
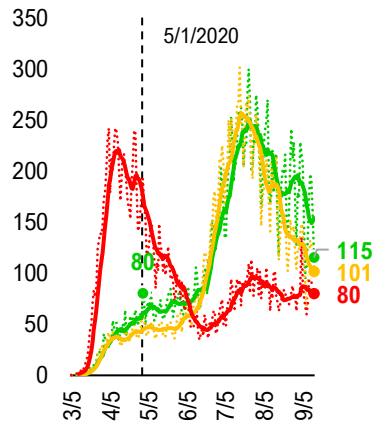
**Daily Testing**

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

**Composite Daily Aggregate**

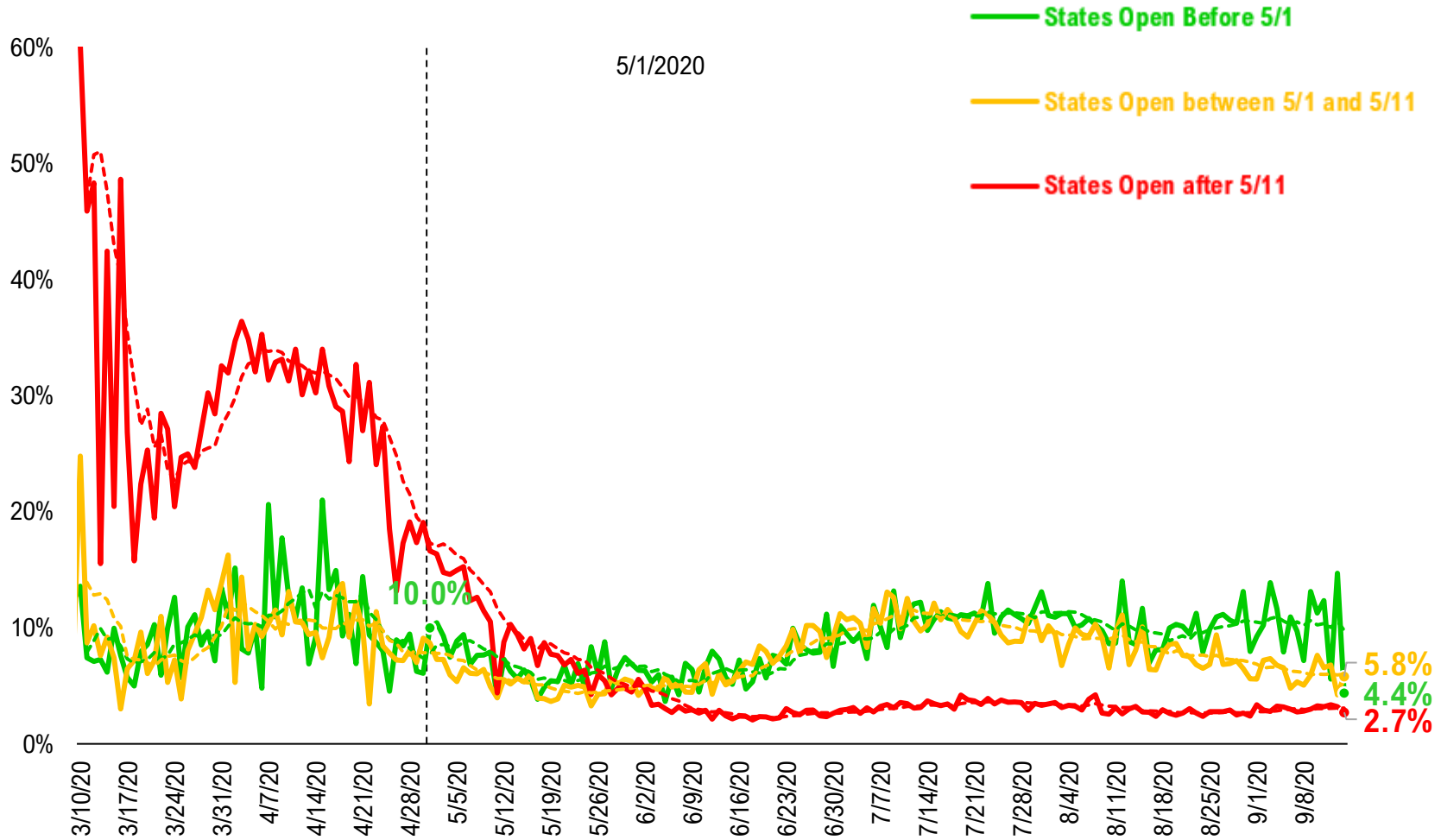


**Composite Daily Aggregate Per 1mm Pop**

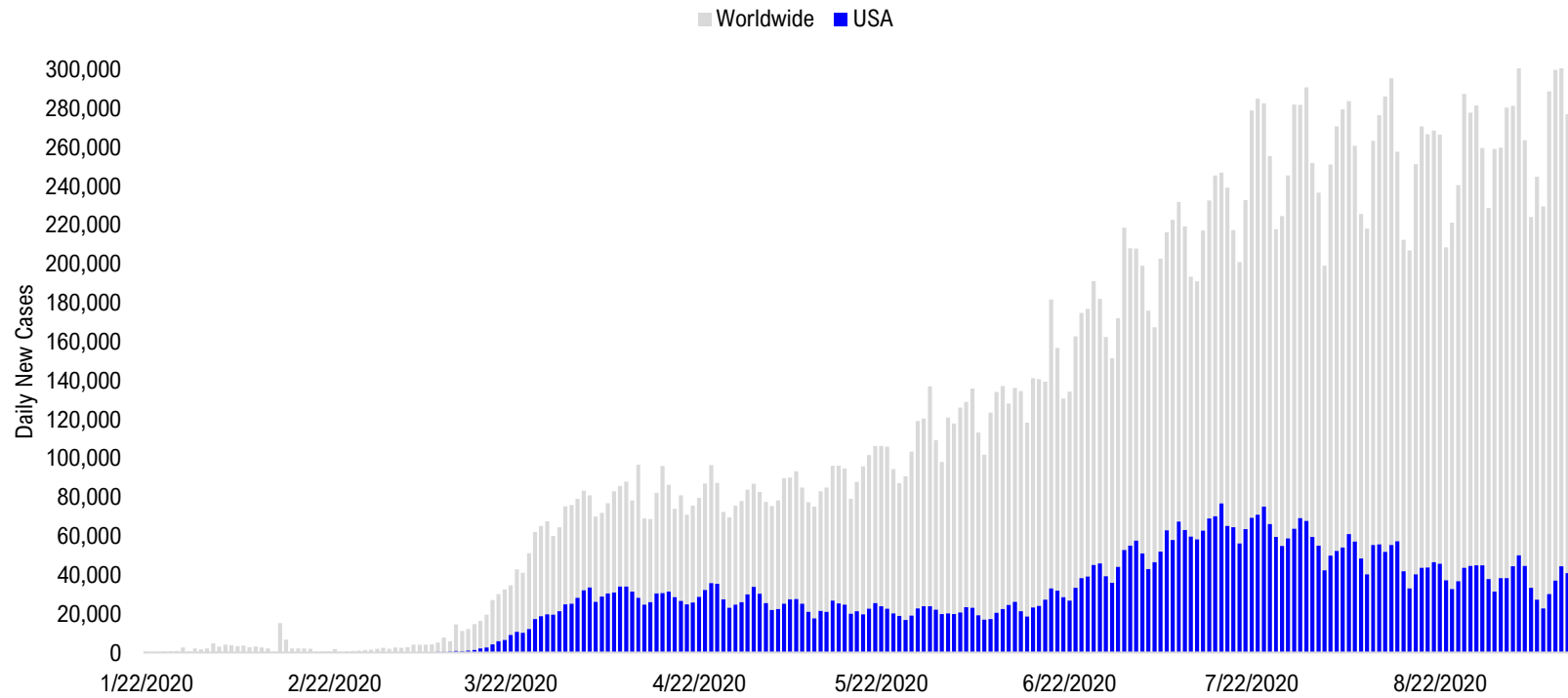


# #14: State COVID-19 Daily Positivity Rate by Reopen Date...

## Composite Daily Positivity Rate



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



5/1/2020	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	9/13/2020
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 96,737
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 70,708
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	US + Canada 39,802
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	Europe 35,256
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 11,089
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 7,595

# Disclosures

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