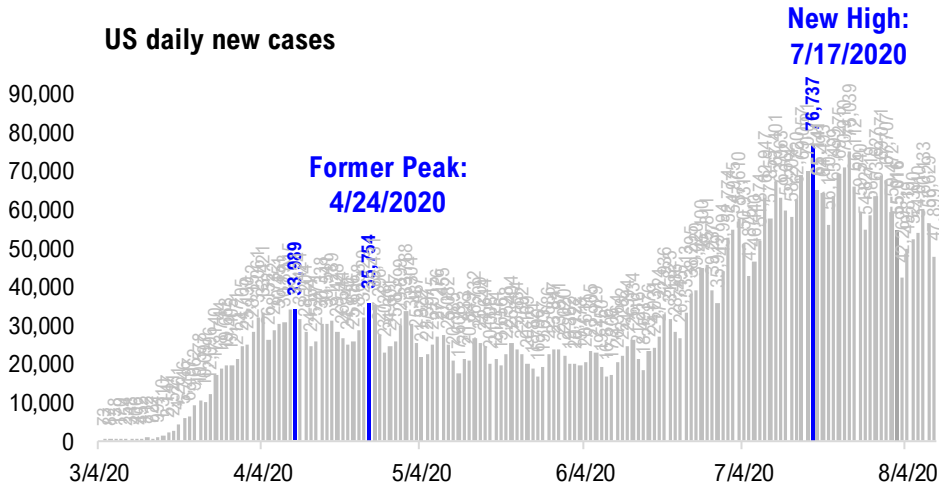


# FSInsight Daily COVID-19 Chartbook

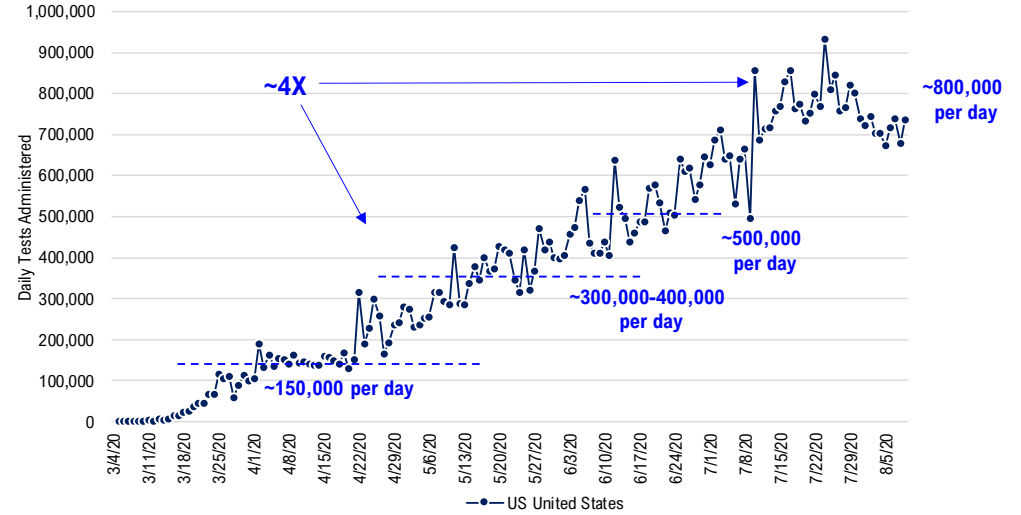


# #1: USA COVID-19 Situation at a Glance...

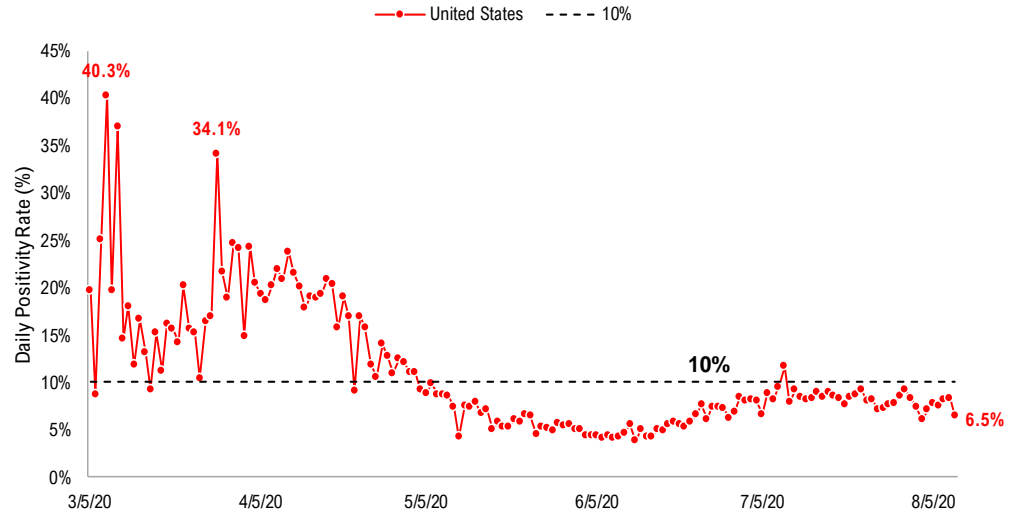
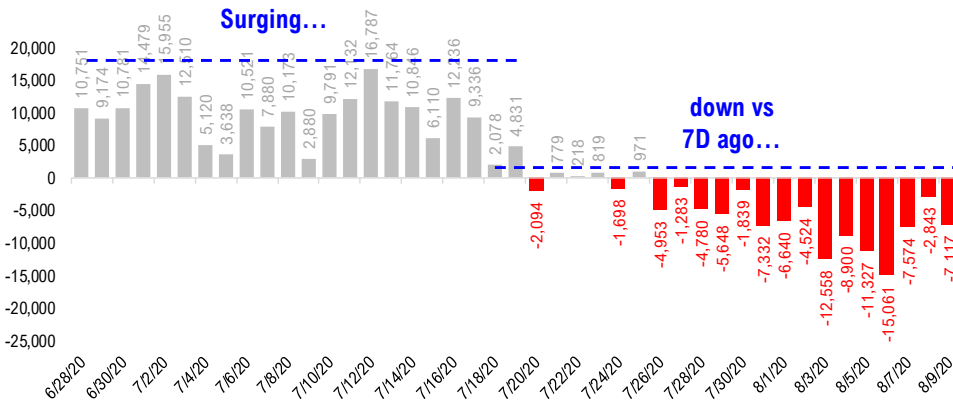
**US daily new cases**



**USA total COVID-19 tests administered**



**US daily new cases rolling 7D delta - past 6 weeks**

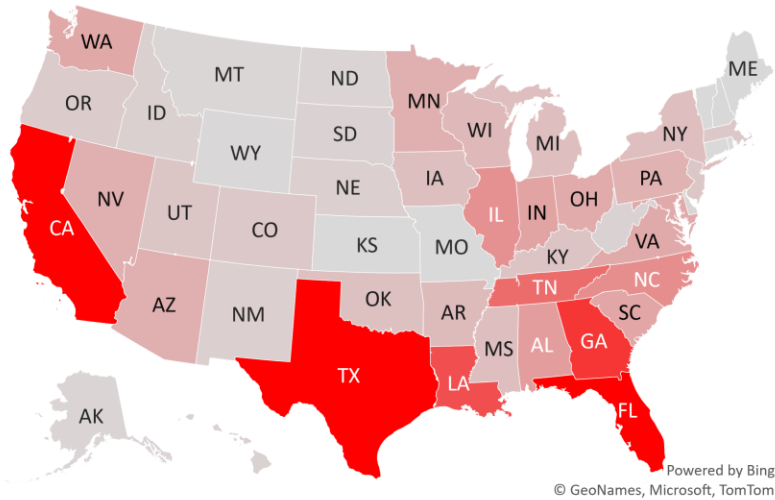


# #2: USA State COVID-19 Situation at a Glance...

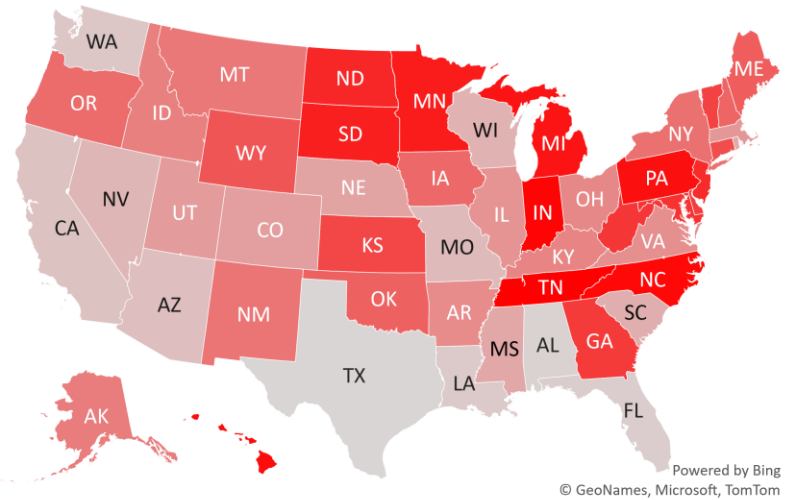
	% US Pop	Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents		Since Peak		% Decline in Daily Cases		% US Pop	Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents		Since Peak		% Decline in Daily Cases
		8/9/20	7D Delta	8/9/20	7D Delta	# Days	8/9/20				7D Delta	# Days	8/9/20	7D Delta	# Days		
United States	100%	47,899	-7,117	167	-18	23	-24%			United States	100%	47,899	-7,117	167	-18	23	-24%
<b>States:</b>										<b>States:</b>							
1 California	11.9%	8,373	-659	204	+4	16	-30%			29 Puerto Rico	1.0%	361	+69	116	+20	6	-1%
2 Florida	6.5%	6,229	-875	348	-52	27	-41%			30 New Jersey	2.7%	344	+23	40	-12	126	-91%
3 Texas	8.7%	4,879	-1,347	217	-66	23	-48%			31 Colorado	1.7%	336	-113	71	-17	105	-44%
4 Georgia	3.2%	3,169	+4	367	+25	15	-9%			32 Massachusetts	2.1%	329	-89	56	-9	106	-89%
5 Louisiana	1.4%	2,653	-814	298	-80	19	-48%			33 Oregon	1.3%	262	-15	83	+7	8	-4%
6 Tennessee	2.1%	2,127	+684	311	-19	12	-23%			34 New Mexico	0.6%	200	-20	86	-14	11	-50%
7 North Carolina	3.2%	1,452	+111	157	-2	22	-26%			35 Nebraska	0.6%	187	-124	105	-56	99	-60%
8 Illinois	3.8%	1,382	-85	149	+15	87	-36%			36 Idaho	0.5%	176	-54	237	+32	23	-37%
9 Alabama	1.5%	1,161	-934	322	-64	15	-25%			37 Hawaii	0.4%	152	+107	137	+78	0	0%
10 Indiana	2.0%	1,041	+306	164	+35	0	0%			38 West Virginia	0.5%	131	+12	78	+3	30	-20%
11 South Carolina	1.6%	975	-214	236	-37	28	-39%			39 South Dakota	0.3%	128	+40	125	+23	92	-46%
12 Washington	2.3%	936	-802	107	-5	25	-21%			40 District of Columbia	0.2%	100	+31	111	+9	98	-66%
13 Maryland	1.8%	922	+13	138	-33	80	-34%			41 Alaska	0.2%	98	-46	103	-80	7	-44%
14 Virginia	2.6%	897	-84	165	+52	0	0%			42 North Dakota	0.2%	88	+30	183	+26	1	-7%
15 Ohio	3.5%	879	-65	96	-1	9	-28%			43 Delaware	0.3%	73	+1	72	-17	103	-79%
16 Arizona	2.2%	816	-649	150	-201	38	-75%			44 Montana	0.3%	64	-28	109	-2	9	-29%
17 Nevada	0.9%	811	-320	289	-77	22	-33%			45 Wyoming	0.2%	37	-2	53	-17	102	-47%
18 Minnesota	1.7%	797	+47	133	+1	14	-7%			46 U.S. Virgin Islands	0.0%	19	+19	143	+31	3	-26%
19 Pennsylvania	3.9%	760	+106	61	-5	121	-57%			47 Maine	0.4%	16	-5	11	-6	79	-78%
20 Wisconsin	1.8%	621	-301	159	-2	15	-8%			48 New Hampshire	0.4%	13	-8	22	-0	99	-76%
21 Arkansas	0.9%	572	-65	260	+34	15	-14%			49 Vermont	0.2%	5	+0	7	-3	126	-92%
22 Mississippi	0.9%	527	-145	311	-23	10	-40%			50 Rhode Island	0.3%	0	-171	40	-36	106	-90%
23 New York	5.9%	515	-16	33	+0	121	-94%			51 Northern Mariana Islands	0.0%	0	-3	6	-12	128	-83%
24 Michigan	3.0%	514	+88	66	+3	107	-46%			52 Missouri	1.8%	0	-582	54	-109	10	-83%
25 Iowa	1.0%	506	-10	151	-3	29	-33%			53 Kansas	0.9%	0	+0	105	+2	25	-60%
26 Oklahoma	1.2%	486	-8	182	-27	12	-41%			54 Guam	0.0%	0	+0	30	+4	2	-58%
27 Kentucky	1.3%	404	-58	129	-5	15	-22%			55 Connecticut	1.1%	0	+0	7	-6	109	-98%
28 Utah	1.0%	376	-97	126	-28	22	-50%			56 American Samoa	0.0%	0	+0	0	+0	-	-

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

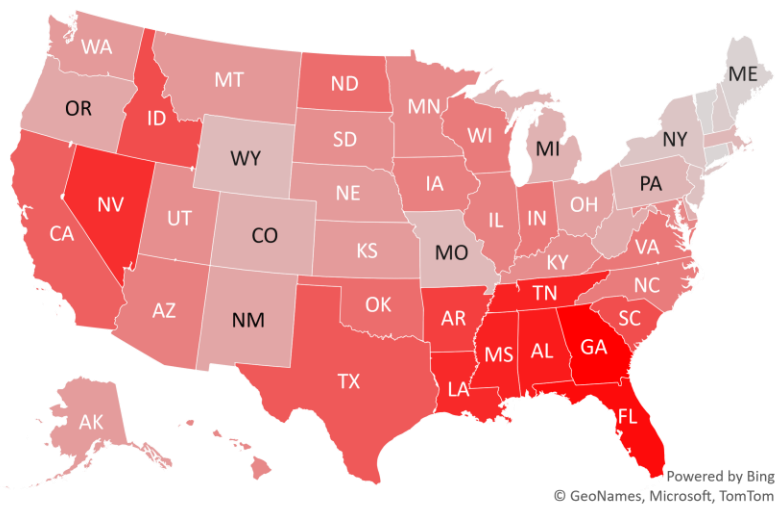
### Daily Case Increases



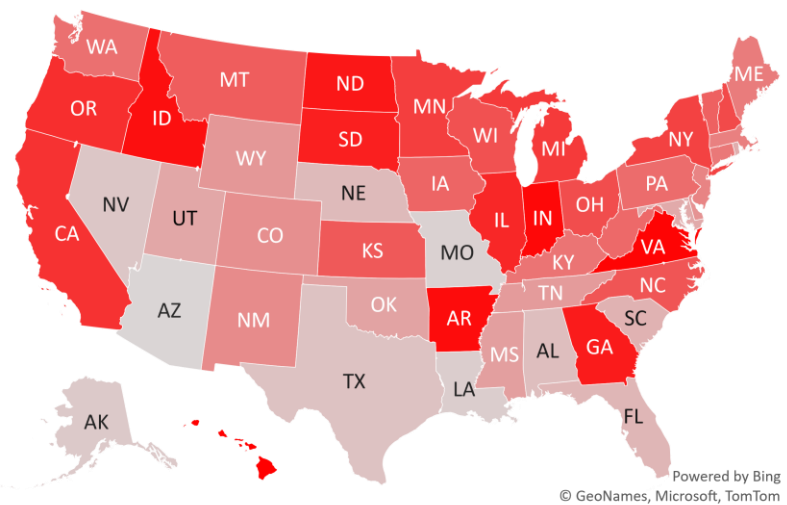
### 7D Delta in Daily New Cases



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



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

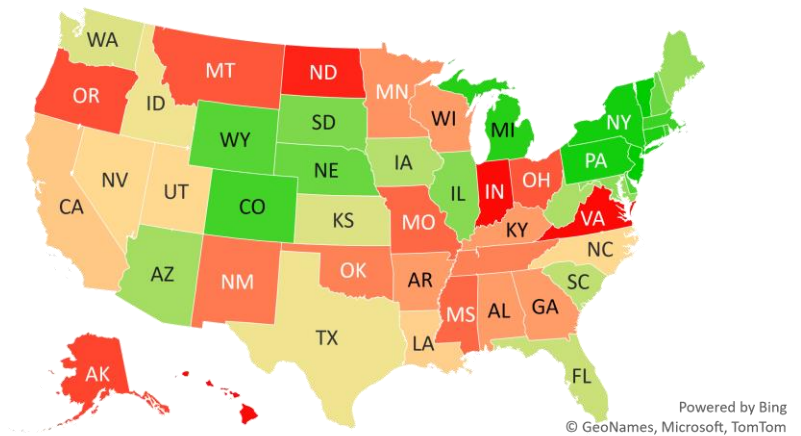


# #4: # of Days since Daily Case Peaked by States...

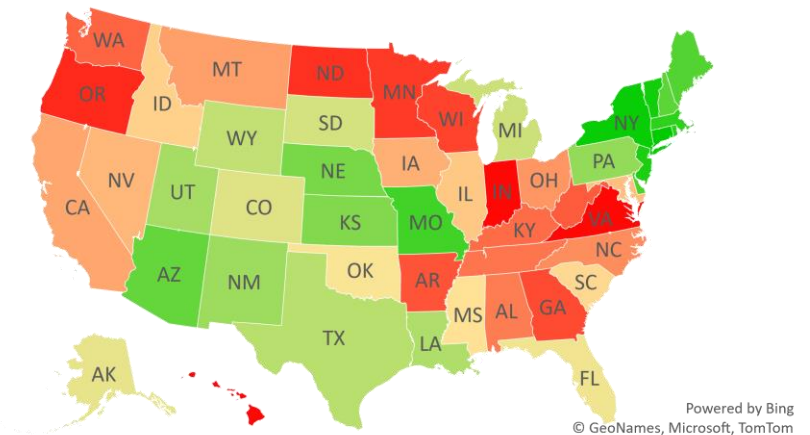
## # Days since Daily Cases (3D Avg) Peak (as of 8/9)

Sorted				Sorted					
	Peak Date	8/9/20	% off the Peak	% US Pop		Peak Date	8/9/20	% off the Peak	% US Pop
United States	7/17/20	23	-24%	100%	United States	7/17/20	23	-24%	100%
<b>States:</b>					<b>States:</b>				
Northern Mariana Is	4/3/20	128	-83%	0.0%	Utah	7/18/20	22	-50%	1.0%
Vermont	4/5/20	126	-92%	0.2%	Nevada	7/18/20	22	-33%	0.9%
New Jersey	4/5/20	126	-91%	2.7%	North Carolina	7/18/20	22	-26%	3.2%
Pennsylvania	4/10/20	121	-57%	3.9%	Louisiana	7/21/20	19	-48%	1.4%
New York	4/10/20	121	-94%	5.9%	California	7/24/20	16	-30%	11.9%
Connecticut	4/22/20	109	-98%	1.1%	Wisconsin	7/25/20	15	-8%	1.8%
Michigan	4/24/20	107	-46%	3.0%	Kentucky	7/25/20	15	-22%	1.3%
Rhode Island	4/25/20	106	-90%	0.3%	Georgia	7/25/20	15	-9%	3.2%
Massachusetts	4/25/20	106	-89%	2.1%	Arkansas	7/25/20	15	-14%	0.9%
Colorado	4/26/20	105	-44%	1.7%	Alabama	7/25/20	15	-25%	1.5%
Delaware	4/28/20	103	-79%	0.3%	Minnesota	7/26/20	14	-7%	1.7%
Wyoming	4/29/20	102	-47%	0.2%	Tennessee	7/28/20	12	-23%	2.1%
New Hampshire	5/2/20	99	-76%	0.4%	Oklahoma	7/28/20	12	-41%	1.2%
Nebraska	5/2/20	99	-60%	0.6%	New Mexico	7/29/20	11	-50%	0.6%
District of Columbia	5/3/20	98	-66%	0.2%	Mississippi	7/30/20	10	-40%	0.9%
South Dakota	5/9/20	92	-46%	0.3%	Missouri	7/30/20	10	-83%	1.8%
Illinois	5/14/20	87	-36%	3.8%	Ohio	7/31/20	9	-28%	3.5%
Maryland	5/21/20	80	-34%	1.8%	Montana	7/31/20	9	-29%	0.3%
Maine	5/22/20	79	-78%	0.4%	Oregon	8/1/20	8	-4%	1.3%
Arizona	7/2/20	38	-75%	2.2%	Alaska	8/2/20	7	-44%	0.2%
West Virginia	7/10/20	30	-20%	0.5%	Puerto Rico	8/3/20	6	-1%	1.0%
Iowa	7/11/20	29	-33%	1.0%	U.S. Virgin Islands	8/6/20	3	-26%	0.0%
South Carolina	7/12/20	28	-39%	1.6%	Guam	8/7/20	2	-58%	0.0%
Florida	7/13/20	27	-41%	6.5%	North Dakota	8/8/20	1	-7%	0.2%
Washington	7/15/20	25	-21%	2.3%	Virginia	8/9/20	0	0%	2.6%
Kansas	7/15/20	25	-60%	0.9%	Indiana	8/9/20	0	0%	2.0%
Texas	7/17/20	23	-48%	8.7%	Hawaii	8/9/20	0	0%	0.4%
Idaho	7/17/20	23	-37%	0.5%					

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



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



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

**Sorted**  
Last 3-day trend growth rates

*CT, RI, MO and KS do not report stats over the weekend...*

	8/7/20	8/8/20	8/9/20	
United States	60,133	56,629	47,899	-8,730
<b>States:</b>				
1 California	8,436	7,371	8,373	
2 Florida	7,686	8,502	6,229	
3 Texas	7,039	6,959	4,879	
4 Georgia	4,109	4,423	3,169	
5 Louisiana	1,500	0	2,653	<--higher
6 Tennessee	2,432	1,803	2,127	
7 North Carolina	1,545	1,954	1,452	
8 Illinois	2,103	2,190	1,382	
9 Alabama	1,709	1,872	1,161	
10 Indiana	1,239	1,033	1,041	
11 South Carolina	1,422	1,241	975	
12 Washington	833	670	936	
13 Maryland	801	775	922	
14 Virginia	2,015	1,307	897	
15 Ohio	1,204	1,294	879	
16 Arizona	1,406	1,054	816	
17 Nevada	976	886	811	
18 Minnesota	545	916	797	
19 Pennsylvania	758	813	760	
20 Wisconsin	989	1,165	621	
21 Arkansas	1,011	772	572	
22 Mississippi	1,036	1,210	527	
23 New York	714	703	515	
24 Michigan	0	1,460	514	
25 Iowa	504	418	506	
26 Oklahoma	854	825	486	
27 Kentucky	542	782	404	
28 Utah	460	376	376	

**Sorted**  
Last 3-day trend growth rates

*CT, RI, MO and KS do not report stats over the weekend...*

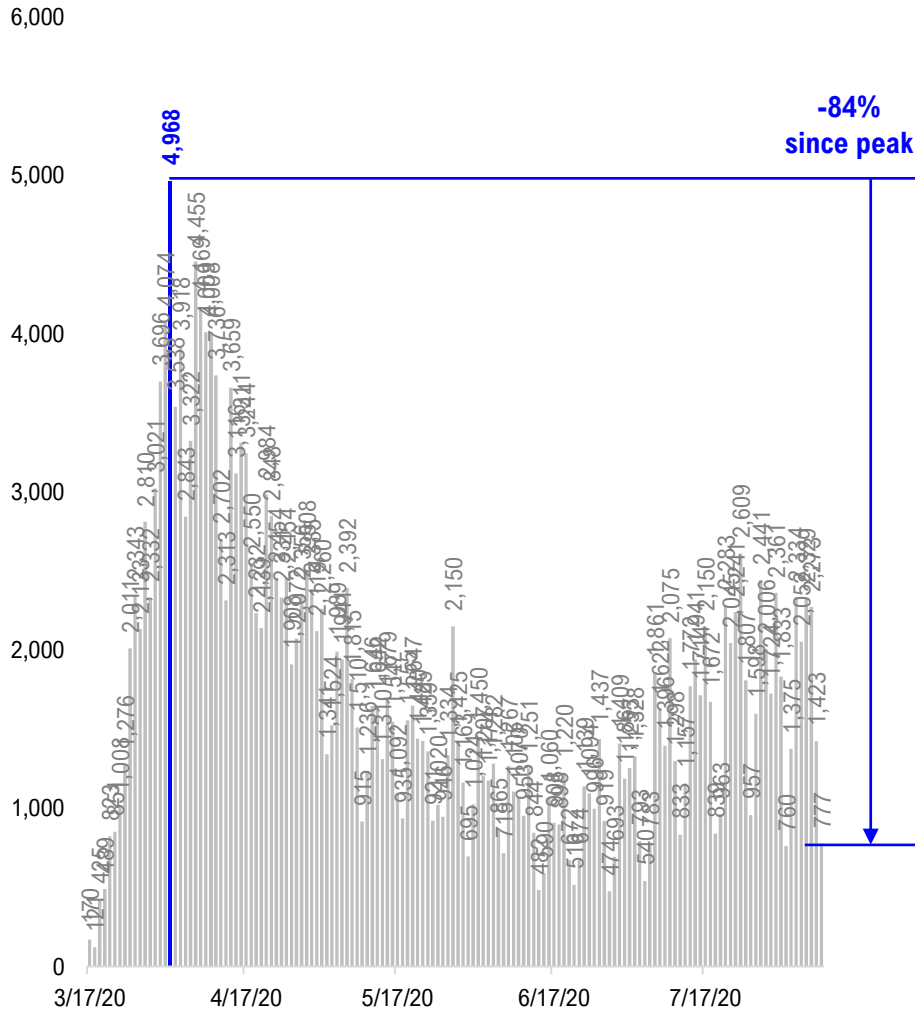
	8/7/20	8/8/20	8/9/20	
United States	60,133	56,629	47,899	-8,730
<b>States:</b>				
29 Puerto Rico	406	343	361	
30 New Jersey	360	368	344	
31 Colorado	457	431	336	
32 Massachusetts	417	420	329	
33 Oregon	411	374	262	
34 New Mexico	192	150	200	
35 Nebraska	283	141	187	
36 Idaho	523	573	176	
37 Hawaii	201	231	152	
38 West Virginia	156	130	131	
39 South Dakota	98	106	128	<--higher
40 District of Columbia	71	64	100	<--higher
41 Alaska	52	77	98	<--higher
42 North Dakota	150	181	88	
43 Delaware	80	57	73	
44 Montana	155	131	64	
45 Wyoming	42	13	37	
46 U.S. Virgin Islands	21	6	19	
47 Maine	17	12	16	
48 New Hampshire	37	39	13	
49 Vermont	3	6	5	
50 Rhode Island	127	0	0	
51 Northern Mariana Islands	0	1	0	
52 Missouri	996	0	0	
53 Kansas	921	0	0	
54 Guam	14	1	0	
55 Connecticut	75	0	0	
56 American Samoa	0	0	0	

<--higher – if the state has 20% or more daily cases than prior two days...  
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

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

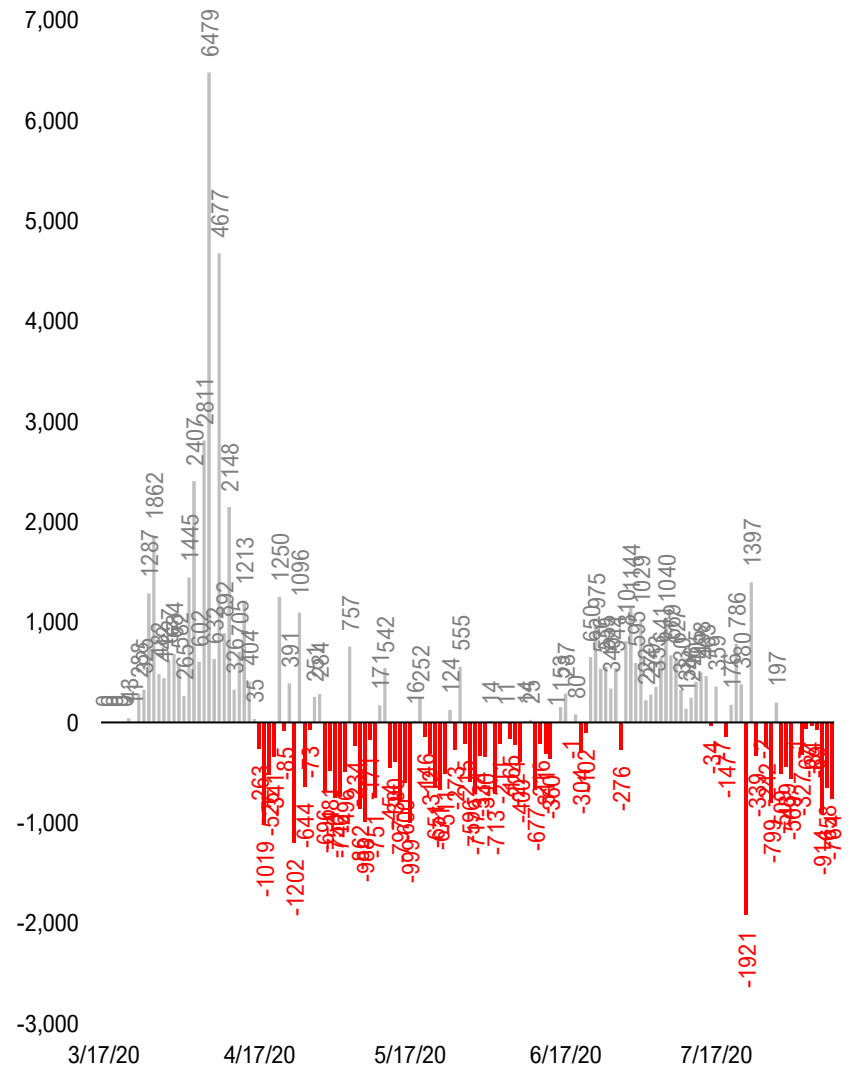
## US Gross Hospitalizations

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



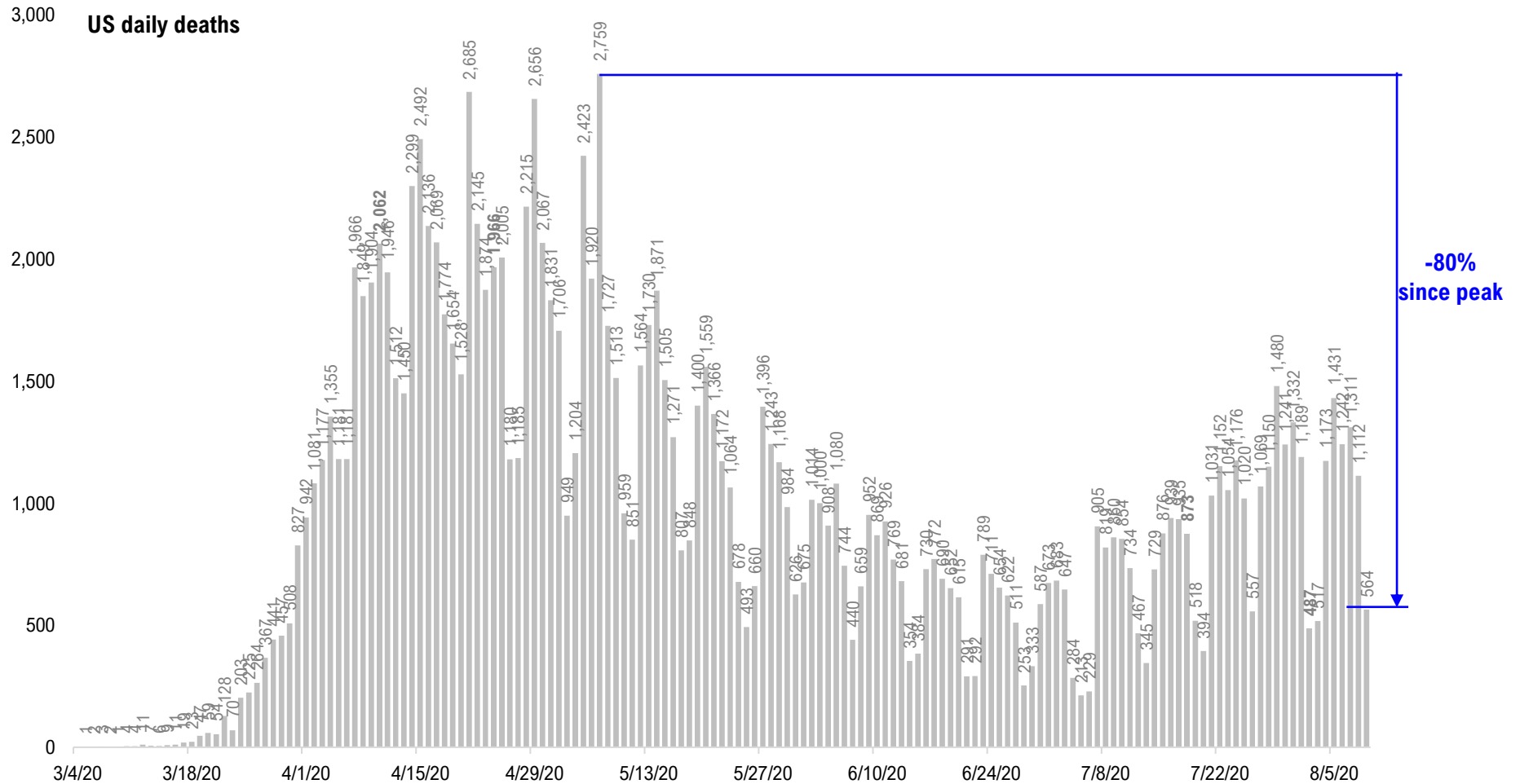
## US Net Hospitalizations

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



# #7: US Daily New Fatalities...

## US daily COVID-19 Fatalities

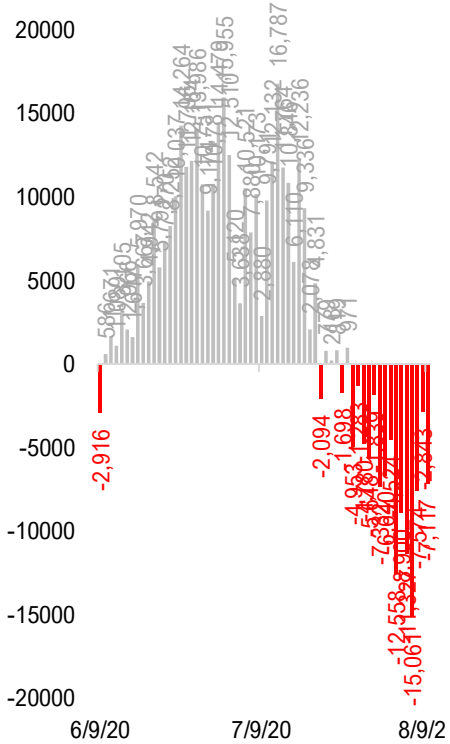


Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

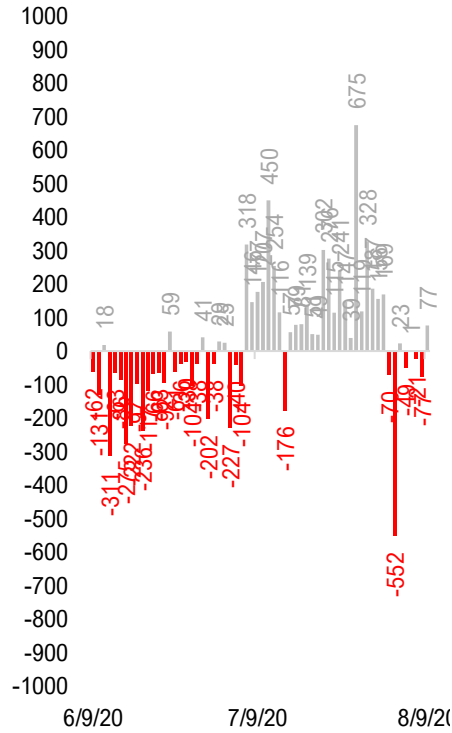


# #8: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

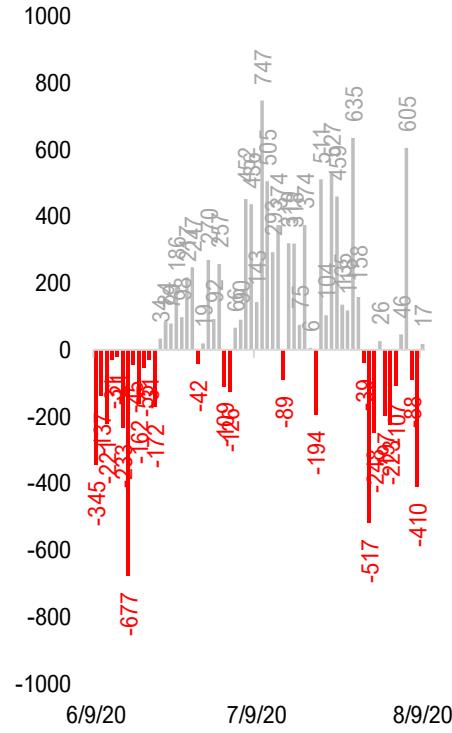
### Daily New Cases



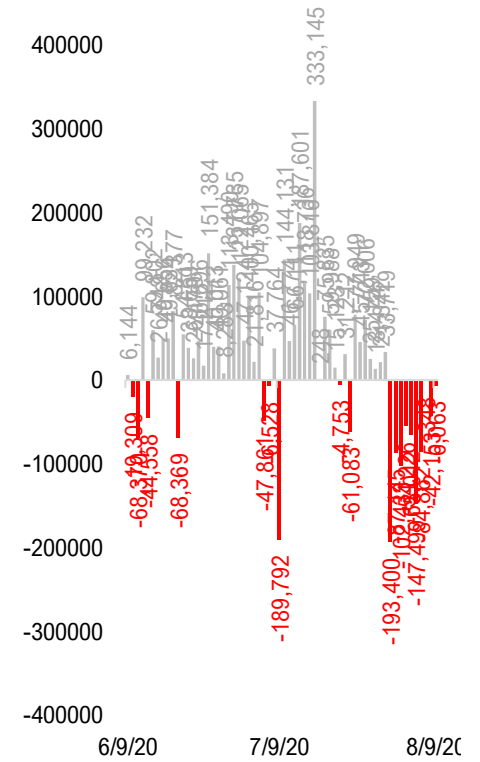
### Daily Deaths



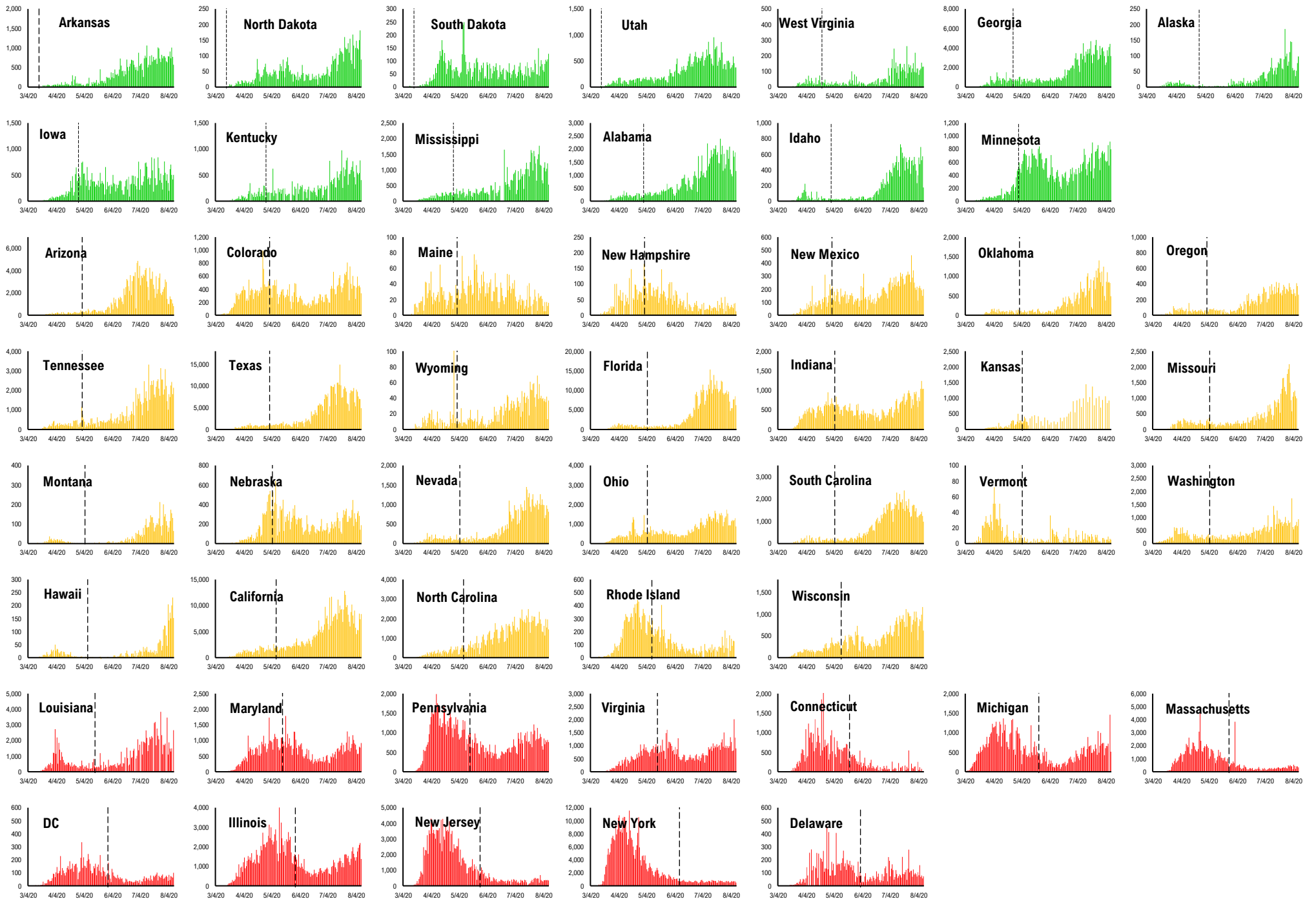
### Daily New Gross hospitalization (aggregate of 33 states)



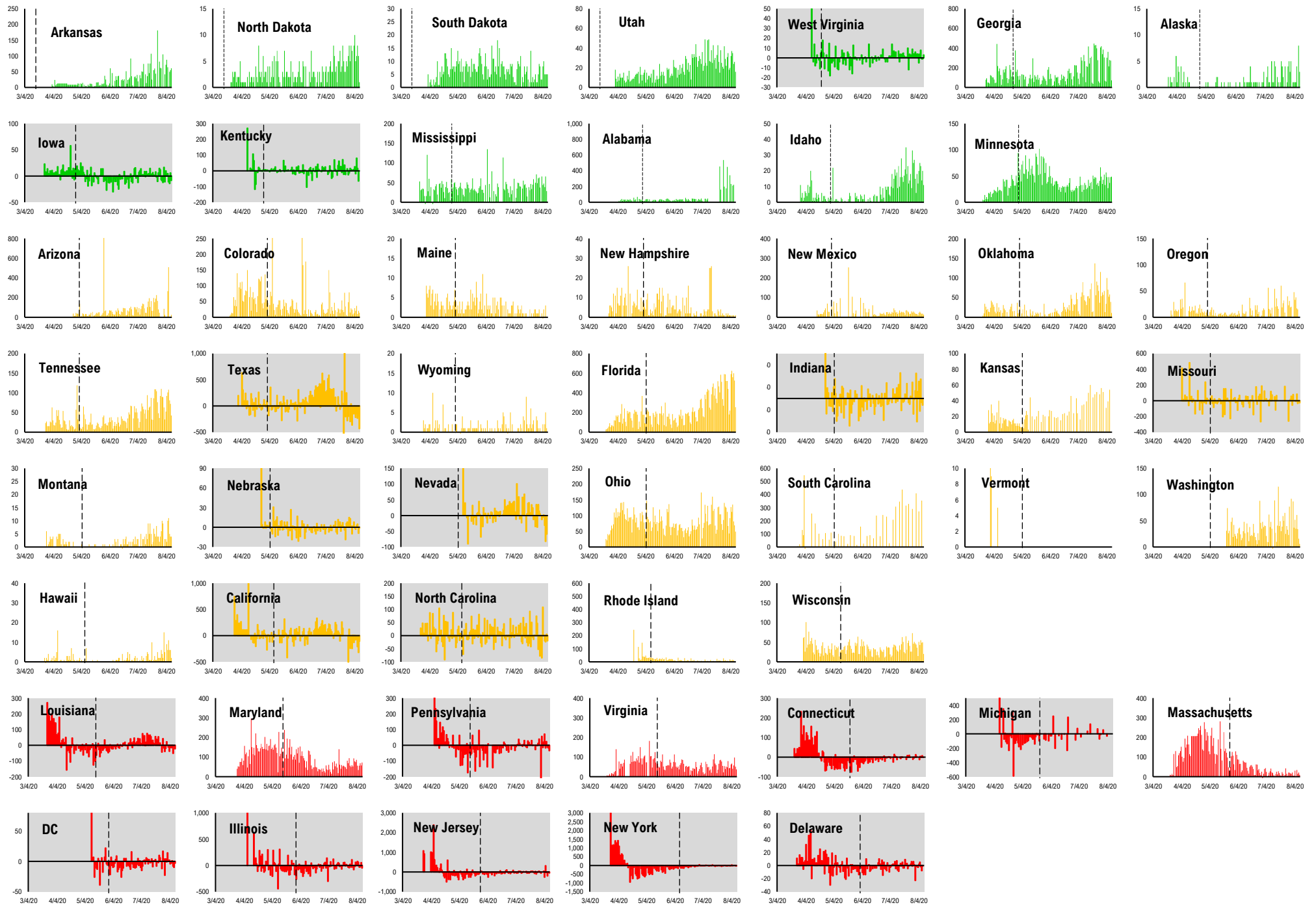
### Daily Tests



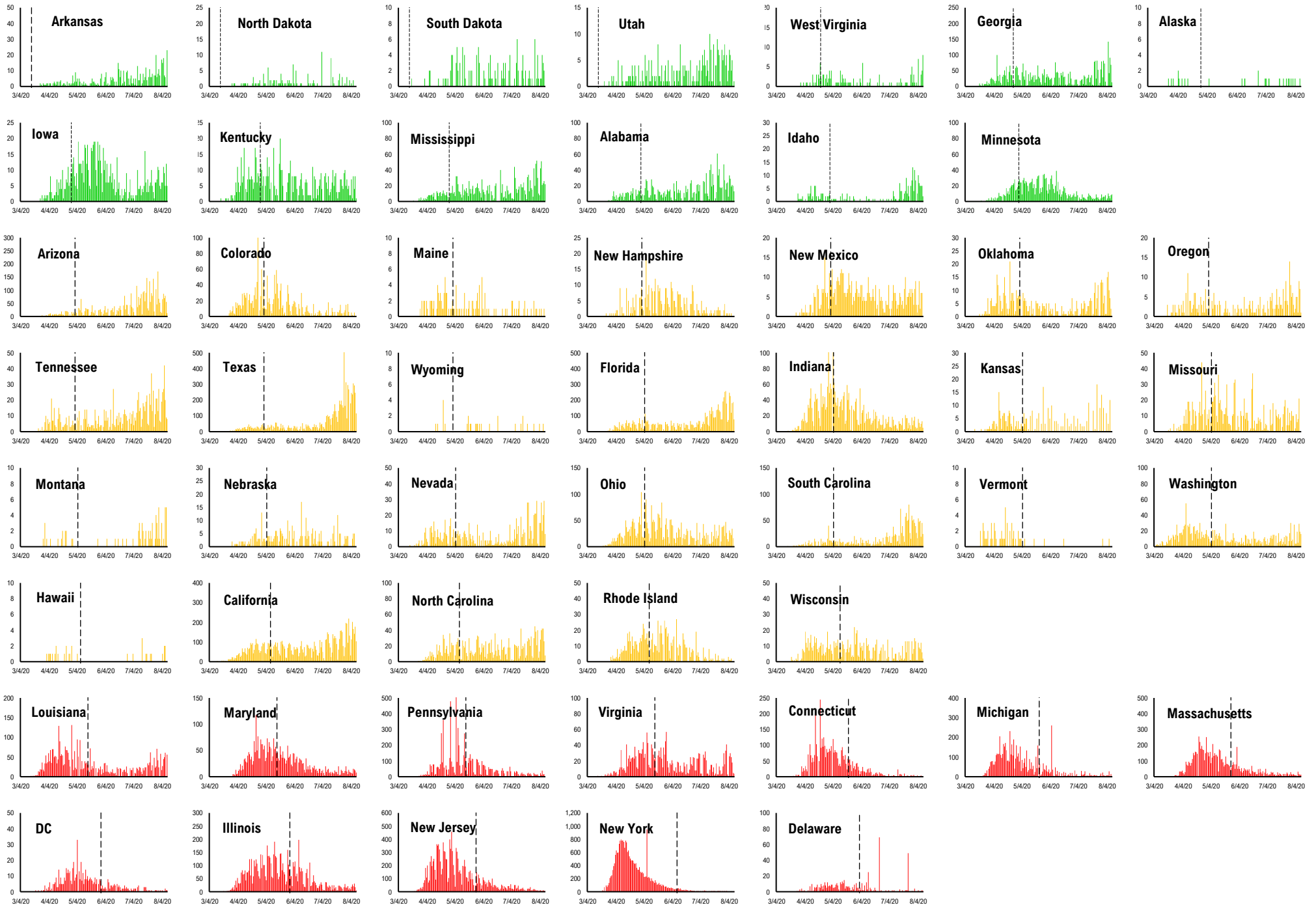
# #9: Daily New Cases by States... (sorted by "open" date)



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



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



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

**Daily Cases**

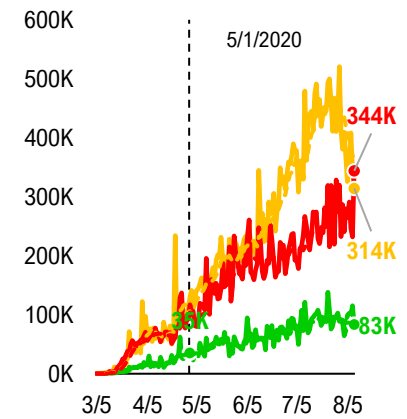
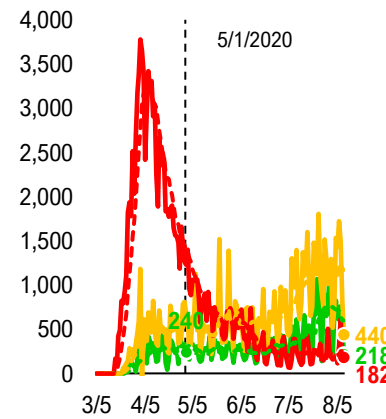
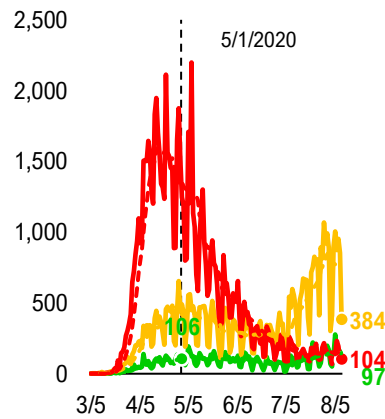
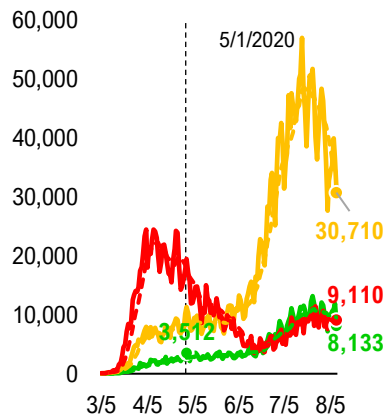
**Daily Deaths**

**Daily Hospitalization**

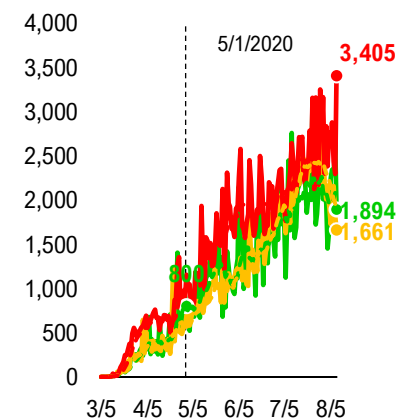
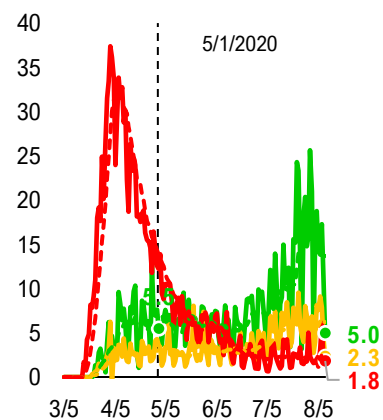
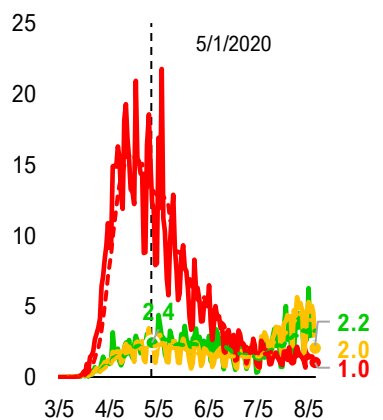
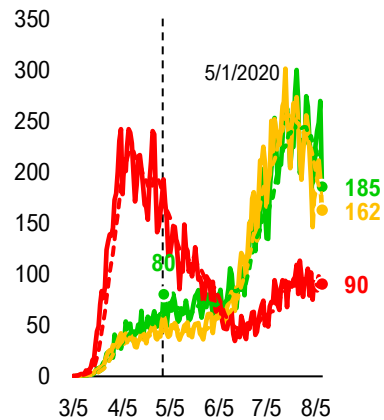
**Daily Testing**

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

**Composite Daily Aggregate**

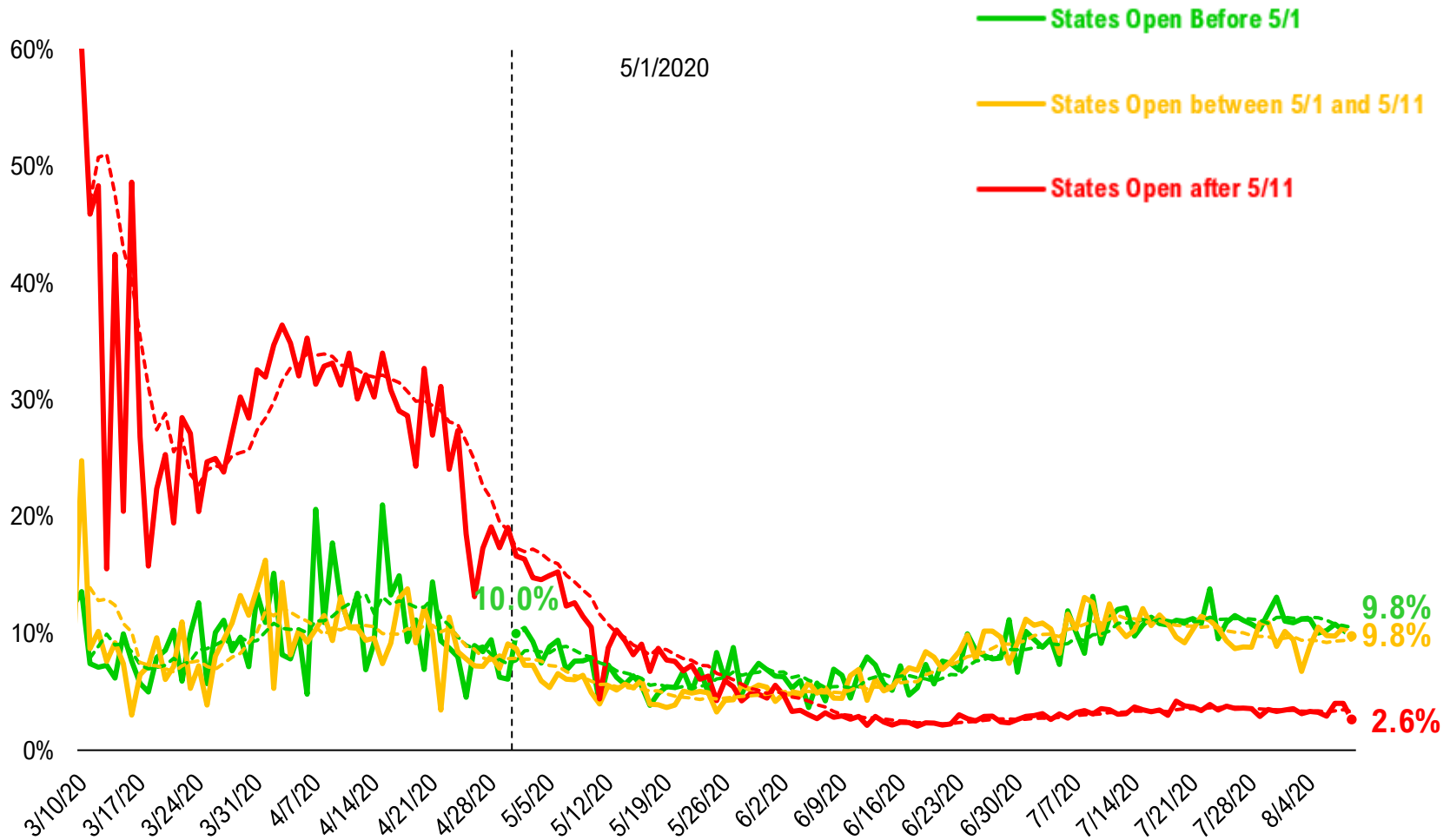


**Composite Daily Aggregate Per 1mm Pop**

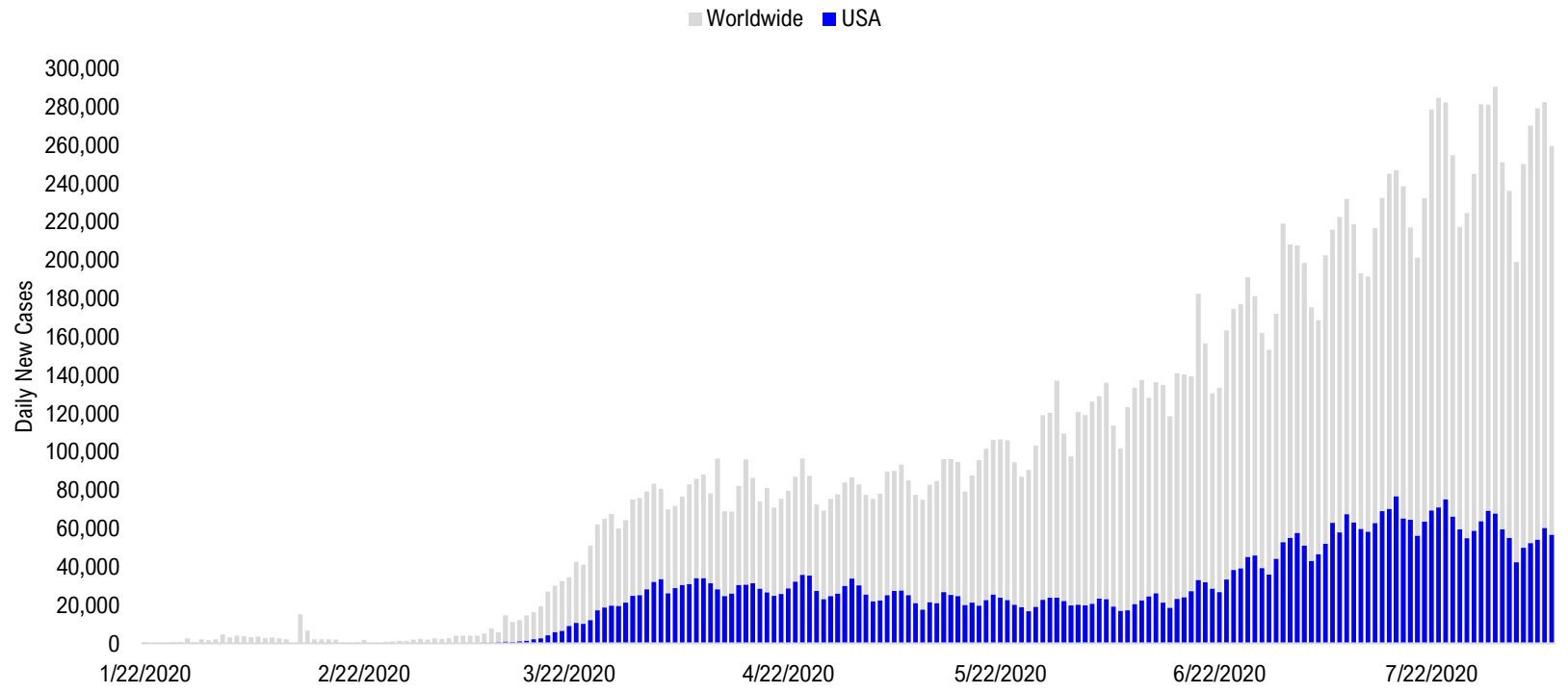


# #13: State COVID-19 Daily Positivity Rate by Reopen Date...

## Composite Daily Positivity Rate



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



3/20/2020	4/3/2020	4/17/2020	5/1/2020	5/15/2020	5/29/2020	6/12/2020	6/26/2020	7/10/2020	7/24/2020	8/8/2020
Europe 18,086	Europe 39,667	Europe 40,604	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 91,853
US + Canada 4,331	US + Canada 29,751	US + Canada 32,649	Europe 25,383	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 66,421
Asia ex- India+Pakistan 602	Latin America 2,723	Latin America 6,026	Latin America 13,595	Europe 22,139	Europe 19,027	Pakistan + India + Bangladesh 18,309	Pakistan + India + Bangladesh 24,668	Pakistan + India + Bangladesh 32,386	Pakistan + India + Bangladesh 52,184	US + Canada 57,296
Latin America 560	Asia ex- India+Pakistan 1,433	Asia ex- India+Pakistan 2,264	Pakistan + India + Bangladesh 3,762	Pakistan + India + Bangladesh 6,133	Pakistan + India + Bangladesh 12,032	Europe 18,047	Europe 17,928	Africa 17,127	Africa 20,063	Europe 22,552
Pakistan + India + Bangladesh 181	Africa 711	Pakistan + India + Bangladesh 1,649	Asia ex- India+Pakistan 2,022	Africa 2,942	Africa 5,307	Africa 7,322	Africa 11,684	Europe 16,305	Europe 18,783	Africa 14,000
Africa 162	Pakistan + India + Bangladesh 627	Africa 1,176	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 10,442

# 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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Thomas J. Lee, the research analyst denoted by an “AC” on the cover of this report, hereby certifies that all of the views expressed in this report accurately reflect his personal views, which have not been influenced by considerations of the firm’s business or client relationships.

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Positive (+): The analyst expects the performance of his industry/sector coverage universe over the next 6-18 months to be attractive vs. the relevant broad market benchmark, being the S&P 500 for North America.

Neutral (N): The analyst expects the performance of his or her industry/sector coverage universe over the next 6-18 months to be in line with the relevant broad market benchmark, being the S&P 500 for North America.

Negative (-): The analyst expects his or her industry coverage universe over the next 6-18 months to underperform vs. the relevant broad market benchmark, being the S&P 500 for North America.

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