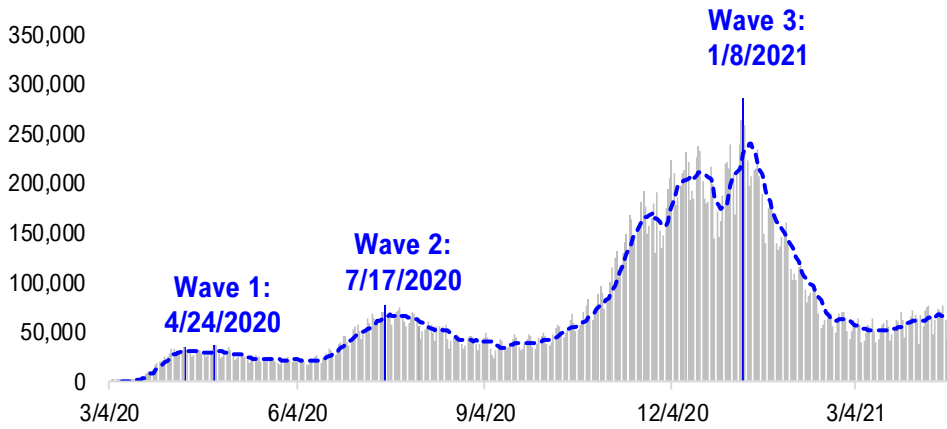


# FSInsight Daily COVID-19 Chartbook

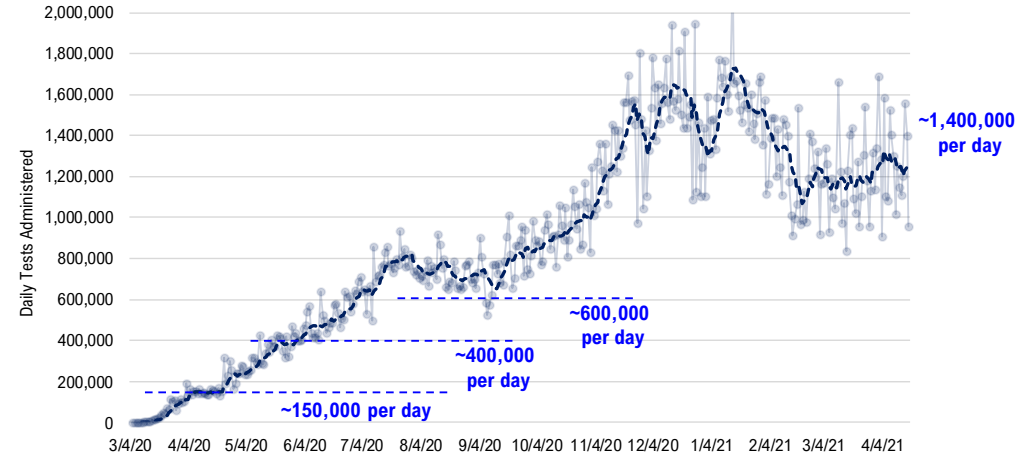


# #1: USA COVID-19 Situation at a Glance...

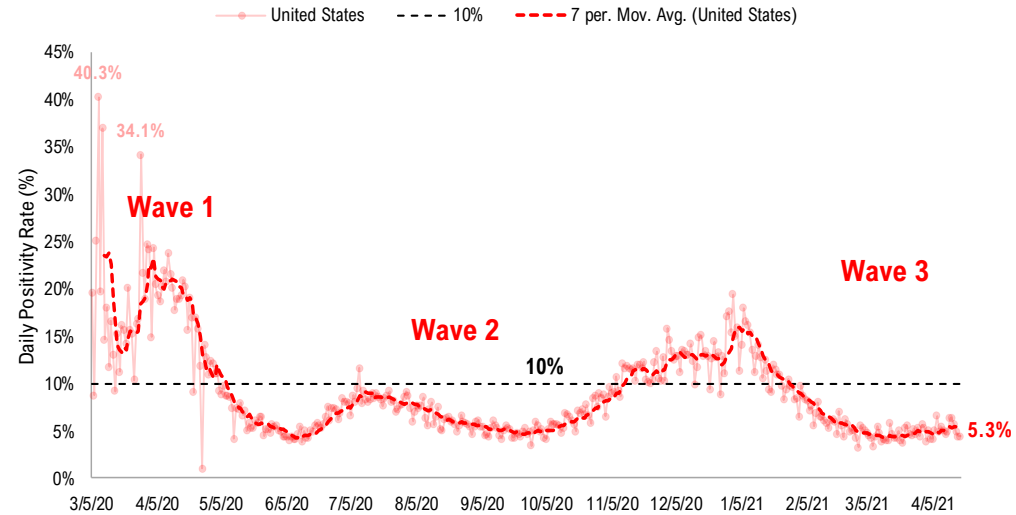
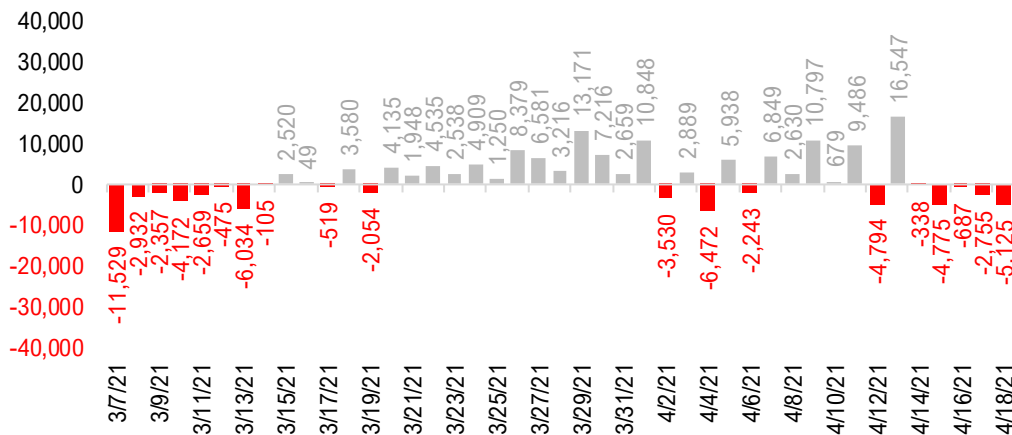
**US daily new cases**



**USA total COVID-19 tests administered**

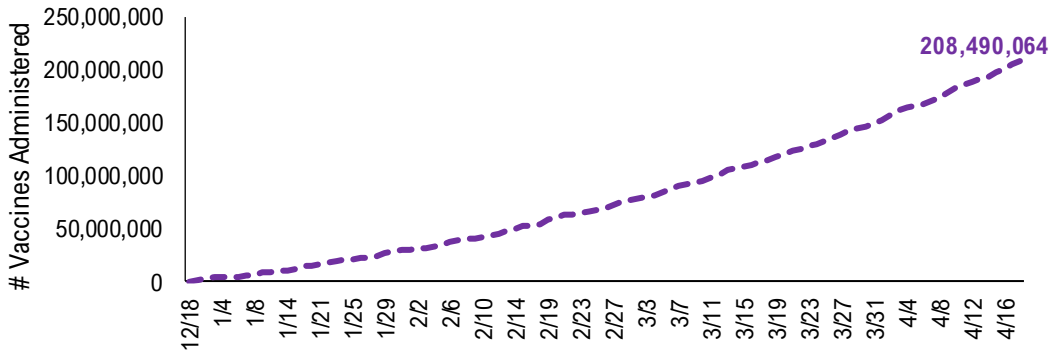


**US daily new cases rolling 7D delta**

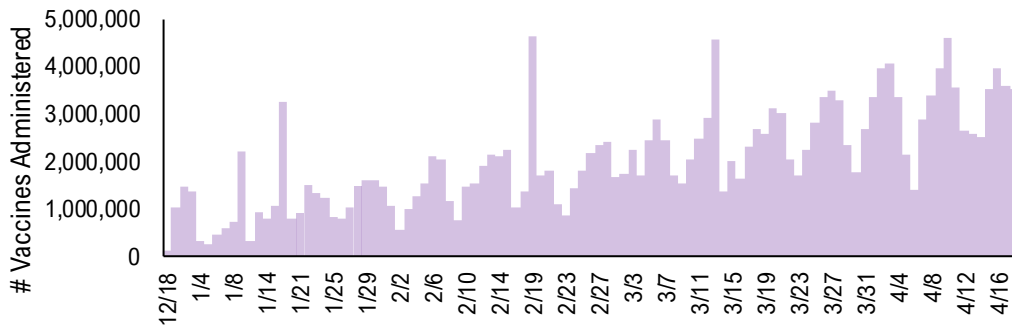


# #2: USA COVID-19 Vaccination Progress at a Glance...

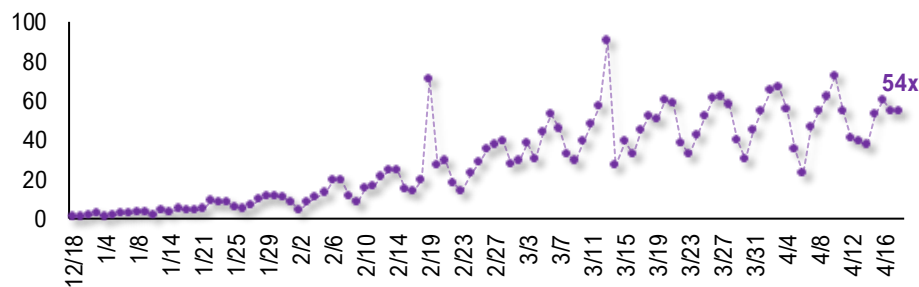
### Cumulative Vaccines Administered



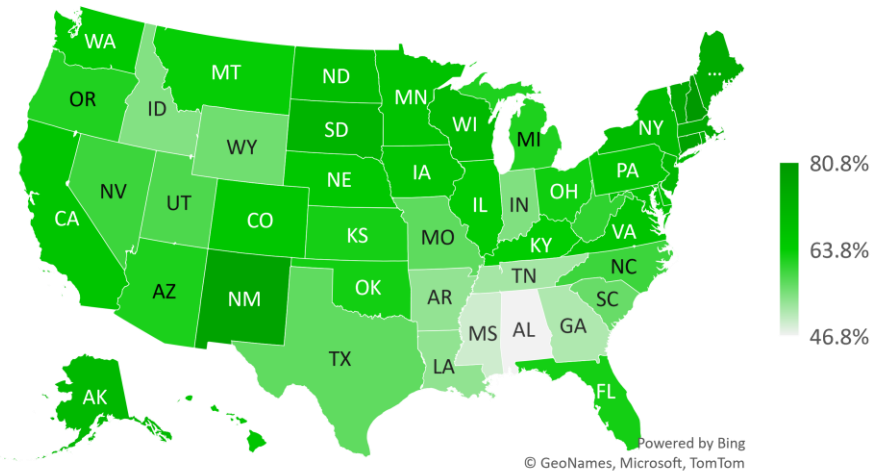
### Daily Vaccines Administered



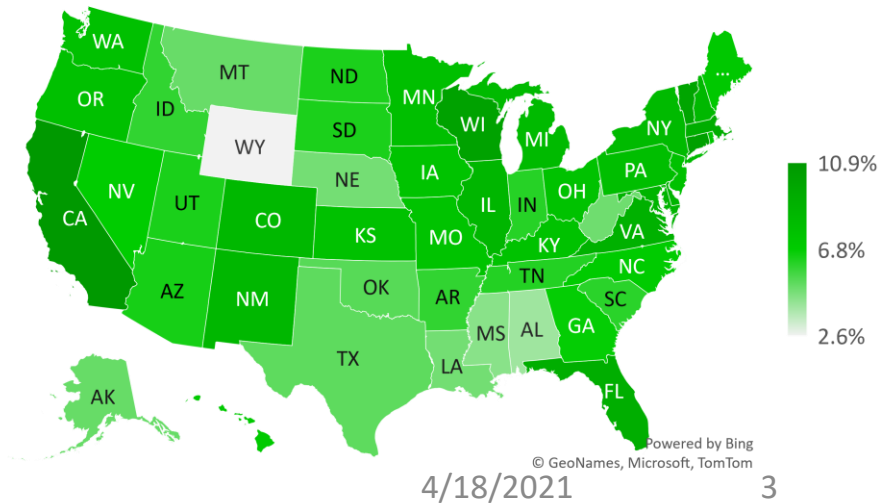
### Daily Vaccinations / Daily Cases (7D Avg)



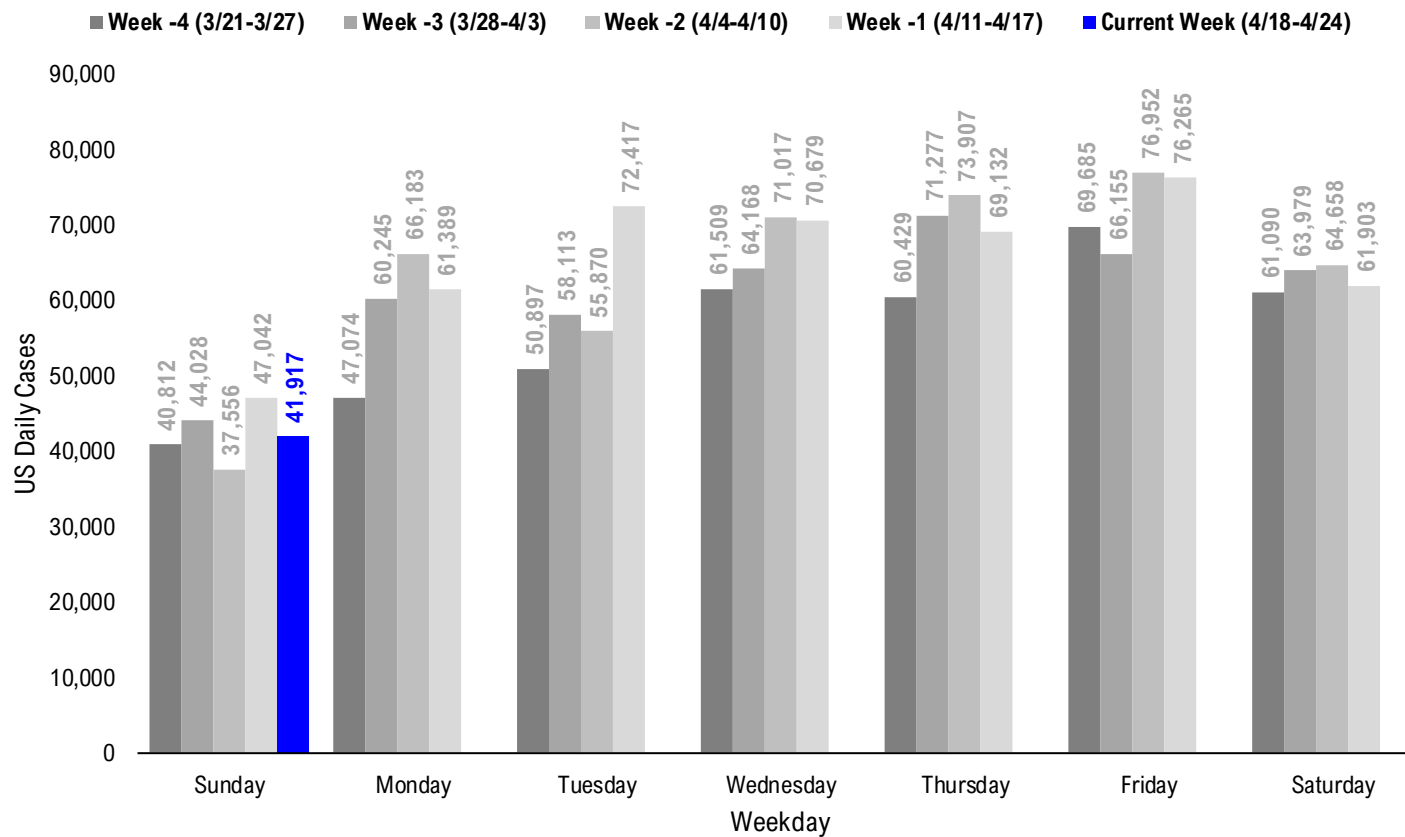
### Cumulative Vaccines Administered as % State Population



### Implied Weekly Vaccines Administered as % State Population



# #3: USA COVID-19 Daily Cases Weekday Seasonality (Past 4 Weeks) ...



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

	Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents				Since Peak		Hospitalization		
	% US Pop	% US GDP	4/18	7D Delta	4/18	7D Delta	# Days	% Decline in Daily Cases	7D Net Hospitalization	7D Net Hospitalization / 7D New Cases	
	United States	100%	100%	41.917	-5.125	183	-9	99	-78%	1.558	0.3%

	Sorted Daily Cases		Daily Cases (3D avg) per 1mm residents				Since Peak		Hospitalization		
	% US Pop	% US GDP	4/18	7D Delta	4/18	7D Delta	# Days	% Decline in Daily Cases	7D Net Hospitalization	7D Net Hospitalization / 7D New Cases	
	United States	100%	100%	41.917	-5.125	183	-9	99	-78%	1.558	0.3%

### States:

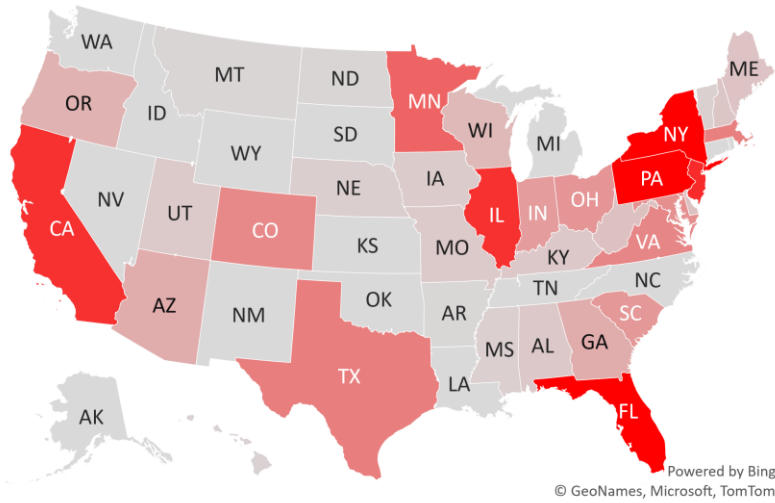
1 Florida	6.5%	5.0%	6,834	+1,314	317	+14	100	-64%	222	0.5%
2 New York	5.9%	8.1%	5,704	-1,060	351	-44	99	-62%	-329	(0.8%)
3 Pennsylvania	3.9%	3.8%	3,761	+399	378	+32	134	-60%	178	0.5%
4 New Jersey	2.7%	3.0%	2,760	-110	374	+26	99	-46%	-219	(1.0%)
5 California	11.9%	14.6%	2,667	-2,287	66	-35	98	-95%	17	0.1%
6 Illinois	3.8%	4.2%	2,666	-276	256	-22	156	-76%	293	1.3%
7 Minnesota	1.7%	1.8%	1,845	+69	387	-19	139	-72%	76	0.5%
8 Texas	8.7%	8.8%	1,434	-82	61	-4	101	-92%	66	0.4%
9 Massachusetts	2.1%	2.8%	1,407	-584	270	-49	99	-76%	3	0.0%
10 Virginia	2.6%	2.6%	1,305	+78	176	+1	90	-81%	-3	(0.0%)
11 Colorado	1.7%	1.8%	1,261	+26	288	+20	148	-72%	88	0.8%
12 Maryland	1.8%	2.0%	1,169	-314	233	-37	98	-61%	12	0.1%
13 Ohio	3.5%	3.3%	1,076	-779	144	-22	129	-85%	131	1.0%
14 South Carolina	1.6%	1.1%	1,021	+103	211	+11	98	-84%	10	0.2%
15 Indiana	2.0%	1.8%	956	-203	234	+43	134	-80%	4	0.0%
16 Arizona	2.2%	1.7%	711	+171	93	-29	105	-94%	17	0.4%
17 Georgia	3.2%	2.9%	702	-23	95	+9	98	-89%	81	1.2%
18 Oregon	1.3%	1.2%	620	+137	173	+33	133	-58%	41	0.9%
19 Wisconsin	1.8%	1.6%	518	-51	112	-29	156	-91%	32	0.6%
20 Delaware	0.3%	0.4%	381	+14	425	+26	99	-55%	30	1.2%
21 West Virginia	0.5%	0.4%	370	-45	240	-11	105	-77%	-39	(1.4%)
22 Maine	0.4%	0.3%	346	+131	330	+91	93	-46%	29	0.9%
23 New Hampshire	0.4%	0.4%	307	-101	260	-86	104	-68%	26	1.0%
24 Kentucky	1.3%	1.0%	275	-90	117	-2	100	-90%	15	0.4%
25 Alabama	1.5%	1.1%	270	-41	82	+15	101	-92%	80	2.3%
26 Missouri	1.8%	1.5%	254	-27	60	-4	155	-93%	-79	(2.7%)
27 Utah	1.0%	0.9%	248	-96	117	-7	100	-91%	90	3.4%
28 Iowa	1.0%	0.9%	218	-140	98	-23	156	-92%	-8	(0.3%)

### States:

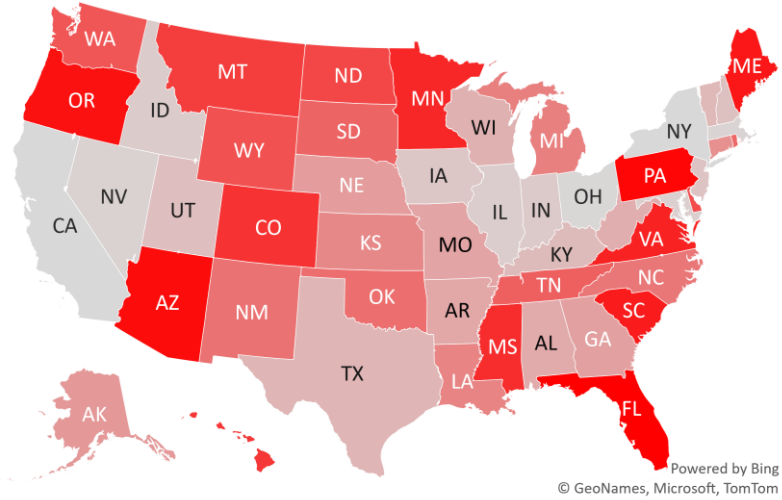
29 Nebraska	0.6%	0.6%	176	-21	188	+12	150	-87%	-16	(0.7%)
30 Mississippi	0.9%	0.6%	157	+40	74	+8	99	-92%	0	0.0%
31 Vermont	0.2%	0.2%	147	-90	188	-97	16	-46%	2	0.2%
32 Hawaii	0.4%	0.5%	111	+19	72	+4	232	-65%	-5	(0.8%)
33 District of Columbi	0.2%	0.7%	83	+15	164	+7	98	-67%	-1	(0.1%)
34 North Dakota	0.2%	0.3%	58	+14	164	-3	155	-93%	0	0.0%
35 Montana	0.3%	0.2%	56	+15	100	-35	154	-92%	2	0.2%
36 Arkansas	0.9%	0.6%	43	-29	41	+7	98	-95%	-2	(0.2%)
37 Wyoming	0.2%	0.2%	0	+0	37	-4	150	-98%	8	2.0%
38 Washington	2.3%	2.7%	0	+0	140	+30	144	-75%	64	0.8%
39 U.S. Virgin Islands	0.0%	0.0%	0	+0	0	-19	21	-100%	0	0.0%
40 Tennessee	2.1%	1.8%	0	+0	67	+12	121	-96%	-17	(0.2%)
41 South Dakota	0.3%	0.3%	0	+0	167	-24	155	-92%	-6	(0.4%)
42 Rhode Island	0.3%	0.3%	0	+0	129	-48	134	-92%	-12	(0.4%)
43 Puerto Rico	1.0%	0.5%	0	-680	299	+53	120	-16%	110	2.0%
44 Oklahoma	1.2%	1.0%	0	+0	23	-12	98	-98%	5	0.2%
45 Nevada	0.9%	0.8%	0	-320	58	-127	99	-94%	60	2.7%
46 New Mexico	0.6%	0.5%	0	+0	42	+23	149	-97%	10	0.7%
47 North Carolina	3.2%	2.7%	0	+0	79	-1	99	-92%	87	0.6%
48 Northern Mariana	0.0%	0.0%	0	+0	6	+6	173	-92%	0	0.0%
49 Michigan	3.0%	2.6%	0	+0	483	-8	4	-45%	403	0.9%
50 Louisiana	1.4%	1.3%	0	+0	38	-15	101	-97%	20	0.6%
51 Kansas	0.9%	0.8%	0	+0	62	+8	144	-96%	41	2.5%
52 Idaho	0.5%	0.4%	0	-221	40	-60	129	-97%	-3	(0.2%)
53 Guam	0.0%	0.0%	0	+0	52	+10	159	-95%	0	0.0%
54 Connecticut	1.1%	1.3%	0	+0	99	-70	95	-93%	-45	(0.6%)
55 American Samoa	0.0%	0.0%	0	+0	#N/A	+0	0	0%	0	
56 Alaska	0.2%	0.3%	0	+0	84	-27	134	-92%	-11	(1.0%)

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

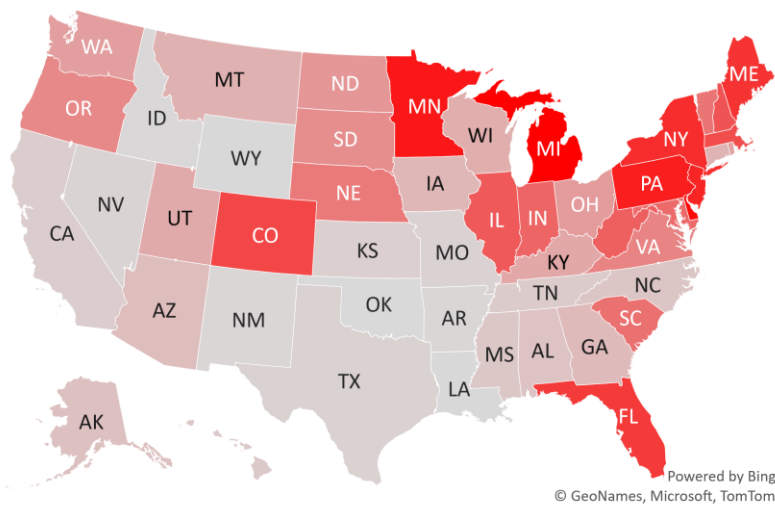
### Daily Case Increases



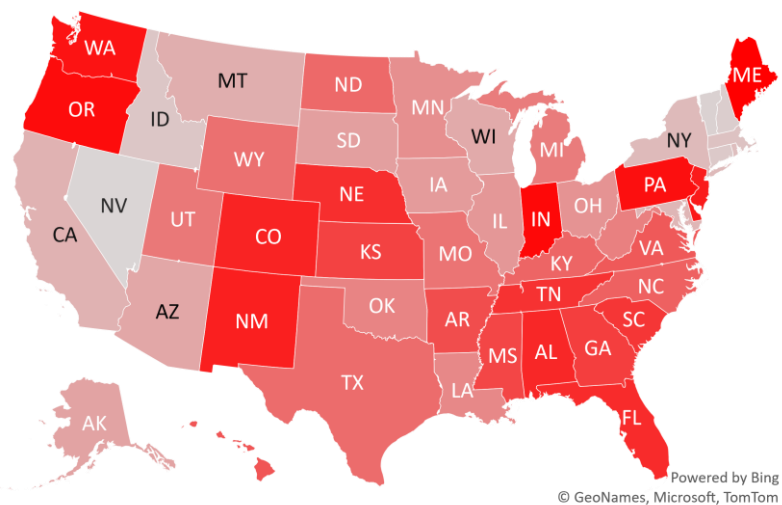
### 7D Delta in Daily New Cases



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



### 7D Delta in Daily Case Increases per 1mm Resident (3D Avg)



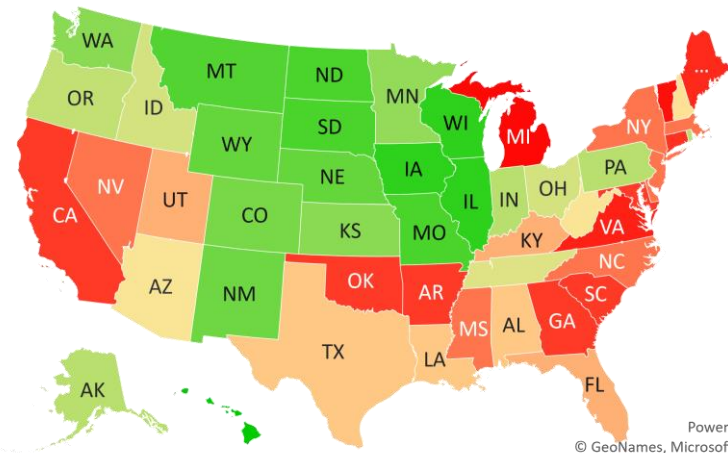
# #6: # of Days since Daily Case Peaked by States...

## # Days since Daily Cases (3D Avg) Peak (as of 4/18)

	Peak Date	4/18/21	% off the Peak	% US Pop
United States	1/9/21	99	-78%	100%
<b>States:</b>				
Hawaii	8/29/20	232	-65%	0.4%
Northern Mariana Island	10/27/20	173	-92%	0.0%
Guam	11/10/20	159	-95%	0.0%
Wisconsin	11/13/20	156	-91%	1.8%
Illinois	11/13/20	156	-76%	3.8%
Iowa	11/13/20	156	-92%	1.0%
South Dakota	11/14/20	155	-92%	0.3%
North Dakota	11/14/20	155	-93%	0.2%
Missouri	11/14/20	155	-93%	1.8%
Montana	11/15/20	154	-92%	0.3%
Wyoming	11/19/20	150	-98%	0.2%
Nebraska	11/19/20	150	-87%	0.6%
New Mexico	11/20/20	149	-97%	0.6%
Colorado	11/21/20	148	-72%	1.7%
Washington	11/25/20	144	-75%	2.3%
Kansas	11/25/20	144	-96%	0.9%
Minnesota	11/30/20	139	-72%	1.7%
Rhode Island	12/5/20	134	-92%	0.3%
Pennsylvania	12/5/20	134	-60%	3.9%
Indiana	12/5/20	134	-80%	2.0%
Alaska	12/5/20	134	-92%	0.2%
Oregon	12/6/20	133	-58%	1.3%
Ohio	12/10/20	129	-85%	3.5%
Idaho	12/10/20	129	-97%	0.5%
Tennessee	12/18/20	121	-96%	2.1%
Puerto Rico	12/19/20	120	-16%	1.0%
West Virginia	1/3/21	105	-77%	0.5%
Arizona	1/3/21	105	-94%	2.2%

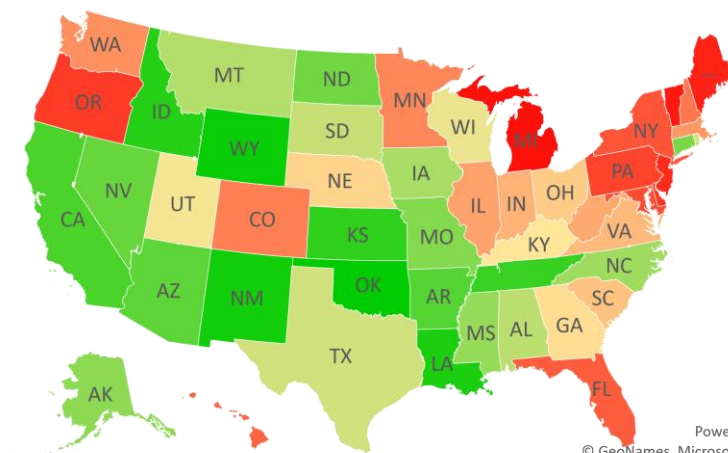
	Peak Date	4/18/21	% off the Peak	% US Pop
United States	1/9/21	99	-78%	100%
<b>States:</b>				
New Hampshire	1/4/21	104	-68%	0.4%
Texas	1/7/21	101	-92%	8.7%
Louisiana	1/7/21	101	-97%	1.4%
Alabama	1/7/21	101	-92%	1.5%
Utah	1/8/21	100	-91%	1.0%
Kentucky	1/8/21	100	-90%	1.3%
Florida	1/8/21	100	-64%	6.5%
New York	1/9/21	99	-62%	5.9%
Nevada	1/9/21	99	-94%	0.9%
New Jersey	1/9/21	99	-46%	2.7%
North Carolina	1/9/21	99	-92%	3.2%
Mississippi	1/9/21	99	-92%	0.9%
Massachusetts	1/9/21	99	-76%	2.1%
Delaware	1/9/21	99	-55%	0.3%
South Carolina	1/10/21	98	-84%	1.6%
Oklahoma	1/10/21	98	-98%	1.2%
Maryland	1/10/21	98	-61%	1.8%
Georgia	1/10/21	98	-89%	3.2%
District of Columbia	1/10/21	98	-67%	0.2%
California	1/10/21	98	-95%	11.9%
Arkansas	1/10/21	98	-95%	0.9%
Connecticut	1/13/21	95	-93%	1.1%
Maine	1/15/21	93	-46%	0.4%
Virginia	1/18/21	90	-81%	2.6%
U.S. Virgin Islands	3/28/21	21	-100%	0.0%
Vermont	4/2/21	16	-46%	0.2%
Michigan	4/14/21	4	-45%	3.0%

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



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



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

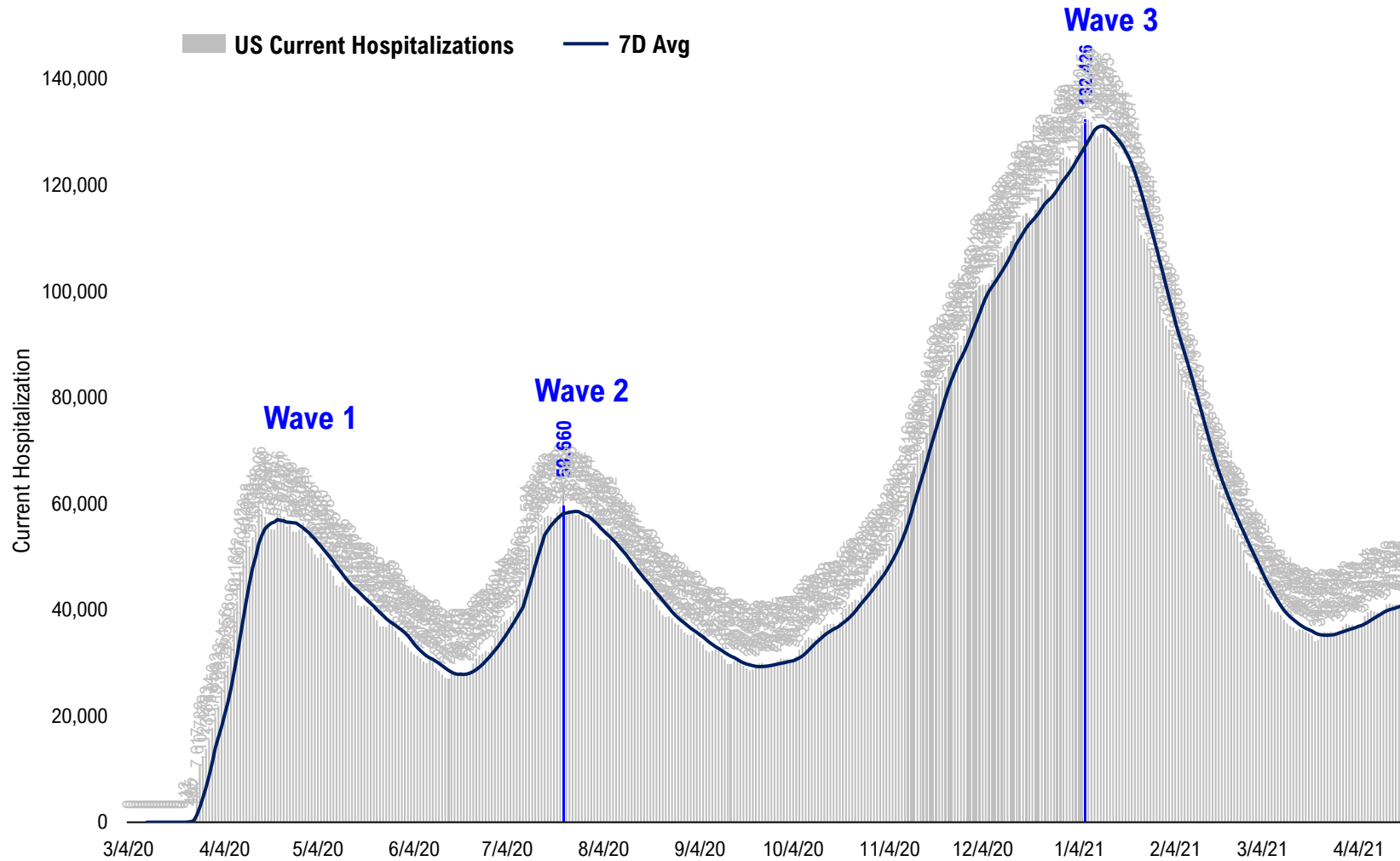
	Sorted				
	7D Ago	Last 3-day Trend			
	4/11/21	4/16/21	4/17/21	4/18/21	vs 7D ago
United States	47,042	76,265	61,903	41,917	-5,125
<b>States:</b>					
Florida	5,520	7,296	6,323	6,834	<--higher
New York	6,764	6,555	8,235	5,704	
Pennsylvania	3,362	5,650	5,114	3,761	
New Jersey	2,870	3,764	3,429	2,760	
California	4,954	2,451	2,763	2,667	
Illinois	2,942	3,866	3,194	2,666	
Minnesota	1,776	2,287	2,419	1,845	
Texas	1,516	2,225	1,657	1,434	
Massachusetts	1,991	2,216	1,968	1,407	
Virginia	1,227	1,594	1,608	1,305	
Colorado	1,235	2,260	1,450	1,261	
Maryland	1,483	1,564	1,500	1,169	
Ohio	1,855	2,003	1,987	1,076	
South Carolina	918	1,259	981	1,021	
Indiana	1,159	1,287	2,479	956	
Arizona	540	845	480	711	<--higher
Georgia	725	1,151	1,185	702	
Oregon	483	695	875	620	<--higher
Wisconsin	569	709	727	518	
Delaware	367	407	455	381	
West Virginia	415	475	446	370	
Maine	215	572	414	346	<--higher
New Hampshire	408	385	369	307	
Kentucky	365	702	592	275	
Alabama	311	422	508	270	
Missouri	281	466	381	254	
Utah	344	463	413	248	
Iowa	358	328	383	218	

	Sorted				
	7D Ago	Last 3-day Trend			
	4/11/21	4/16/21	4/17/21	4/18/21	vs 7D ago
United States	47,042	76,265	61,903	41,917	-5,125
<b>States:</b>					
Nebraska	197	409	505	176	
Mississippi	117	216	292	157	<--higher
Vermont	237	139	66	147	
Hawaii	92	96	99	111	<--higher
District of Columbia	68	134	130	83	<--higher
North Dakota	44	177	139	58	<--higher
Montana	41	118	148	56	<--higher
Arkansas	72	171	161	43	
Wyoming	0	64	0	0	
Washington	0	1,735	1,470	0	
U.S. Virgin Islands	0	0	0	0	
Tennessee	0	1,370	0	0	
South Dakota	0	243	200	0	
Rhode Island	0	409	0	0	
Puerto Rico	680	2,036	828	0	
Oklahoma	0	273	0	0	
Nevada	320	536	0	0	
New Mexico	0	263	0	0	
North Carolina	0	2,475	0	0	
Northern Mariana Islands	0	1	0	0	
Michigan	0	8,955	5,530	0	
Louisiana	0	523	0	0	
Kansas	0	541	0	0	
Idaho	221	212	0	0	
Guam	0	26	0	0	
Connecticut	0	1,062	0	0	
American Samoa	0	0	0	0	
Alaska	0	184	0	0	



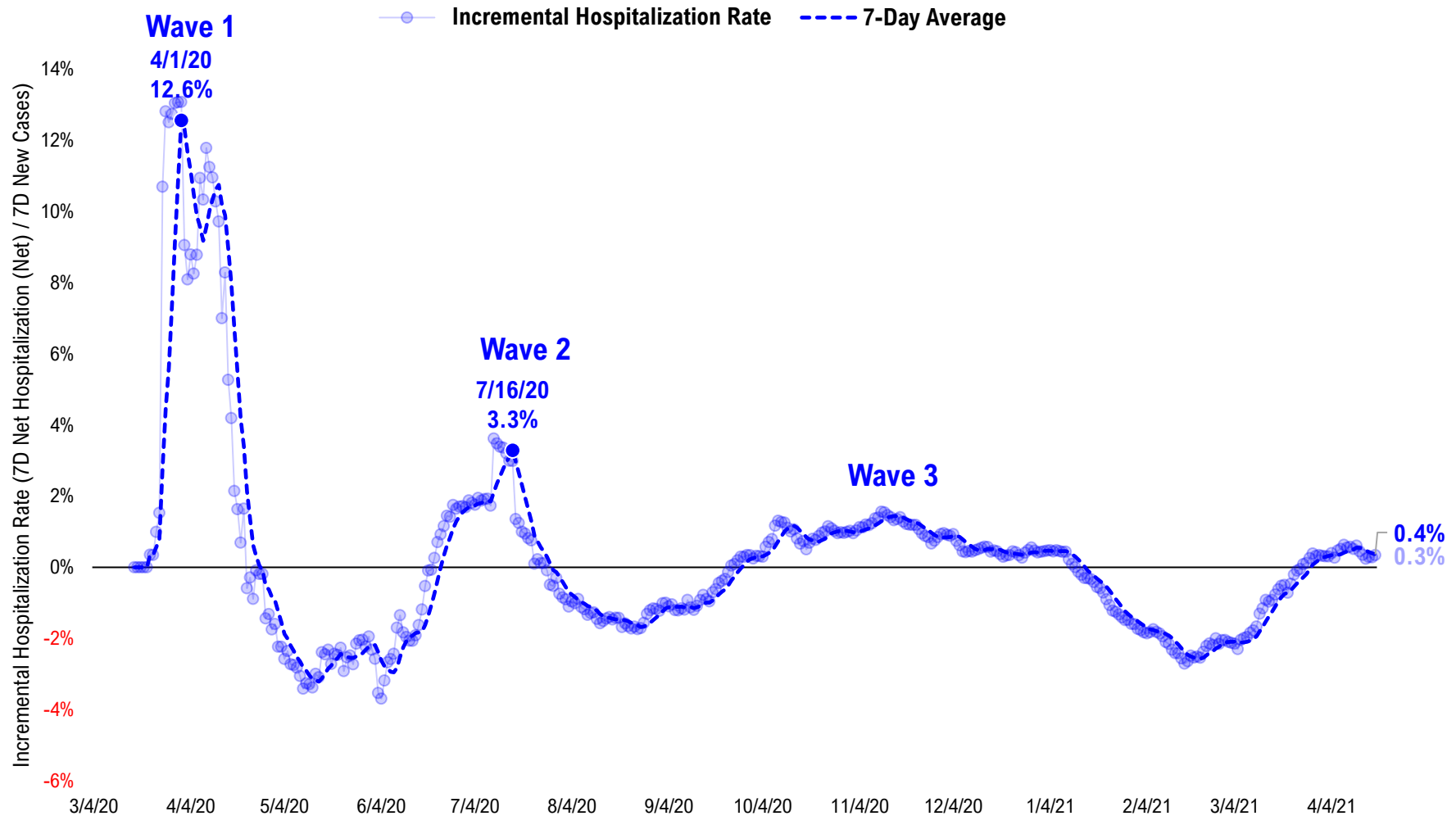
# #8: US Daily Hospitalizations...

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



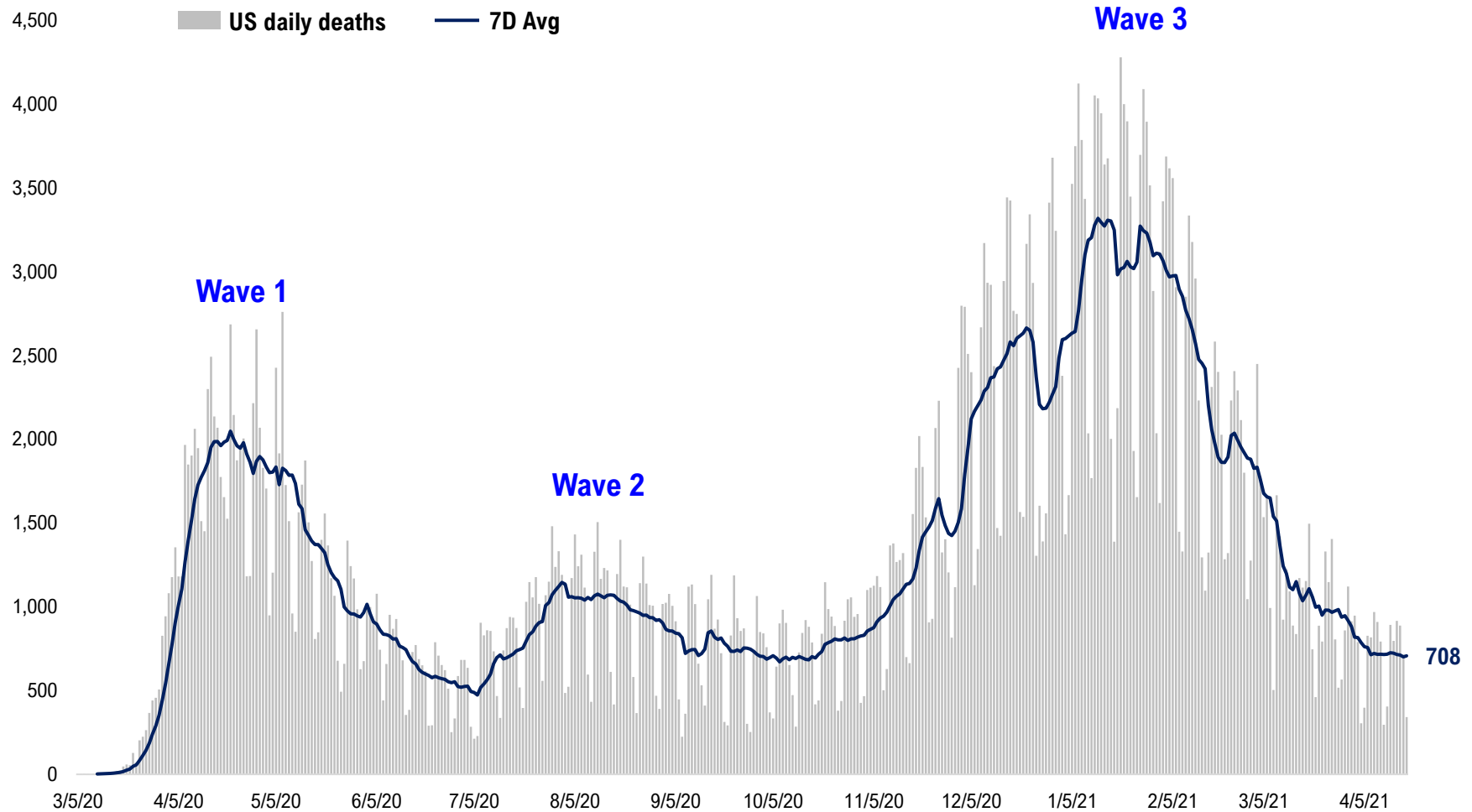
# #9: Incremental Hospitalization Rate...

Incremental Hospitalization Rate: 7D Net Hospitalizations / 7D Total New Cases  
(aggregate of 50 states + Washington, D.C.)

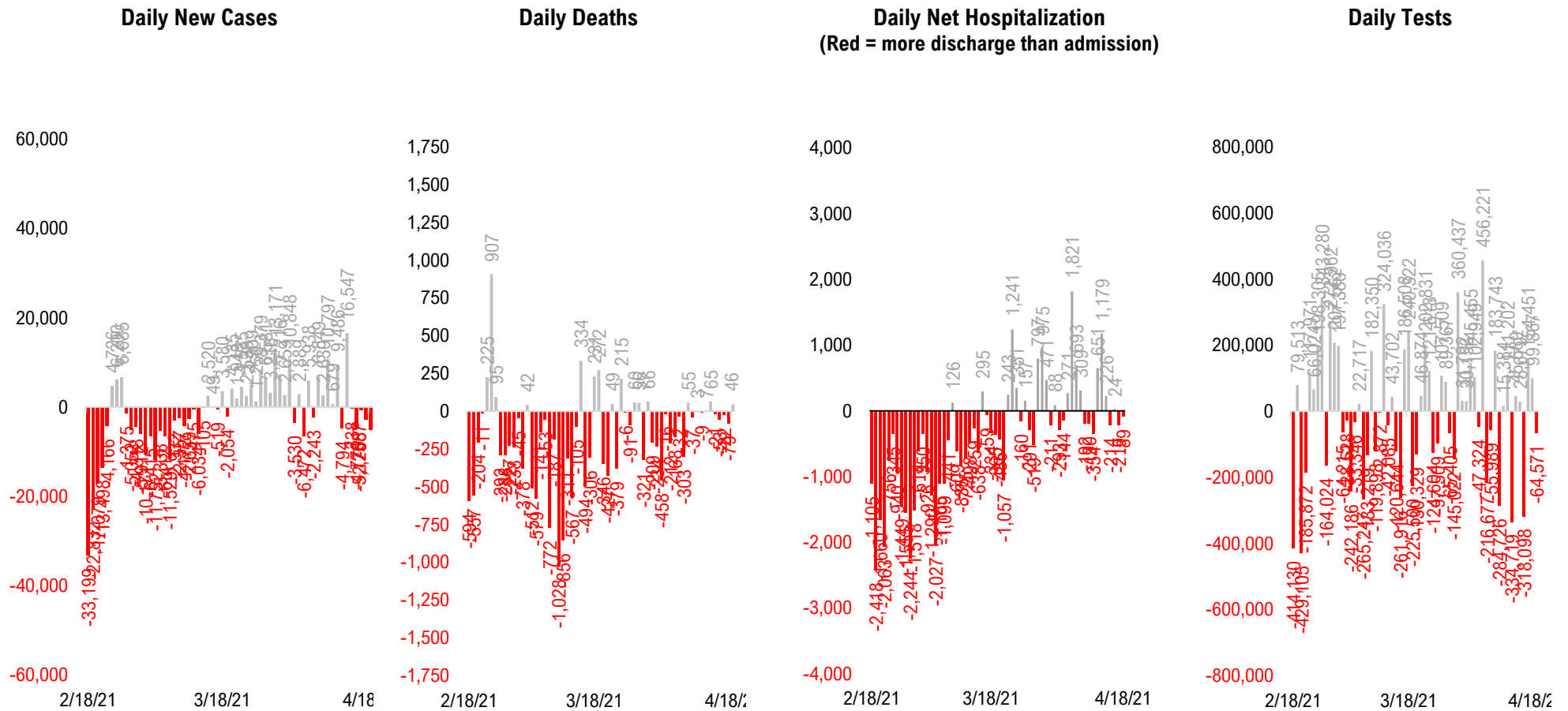


# #10: US Daily New Fatalities...

## US daily COVID-19 Fatalities

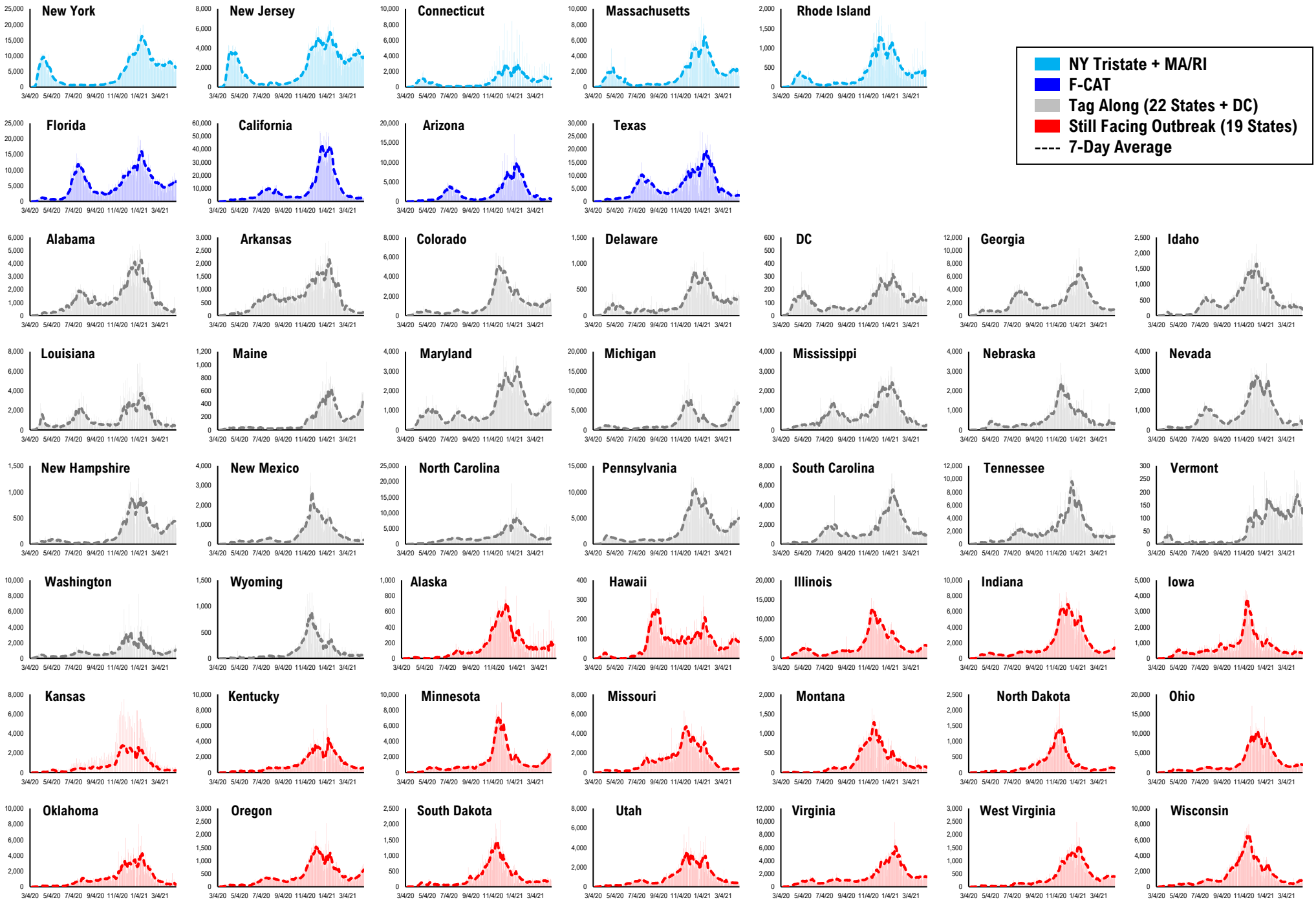


# #11: Rolling 7-Day Change in the Key Metrics... (Past 8 Weeks)

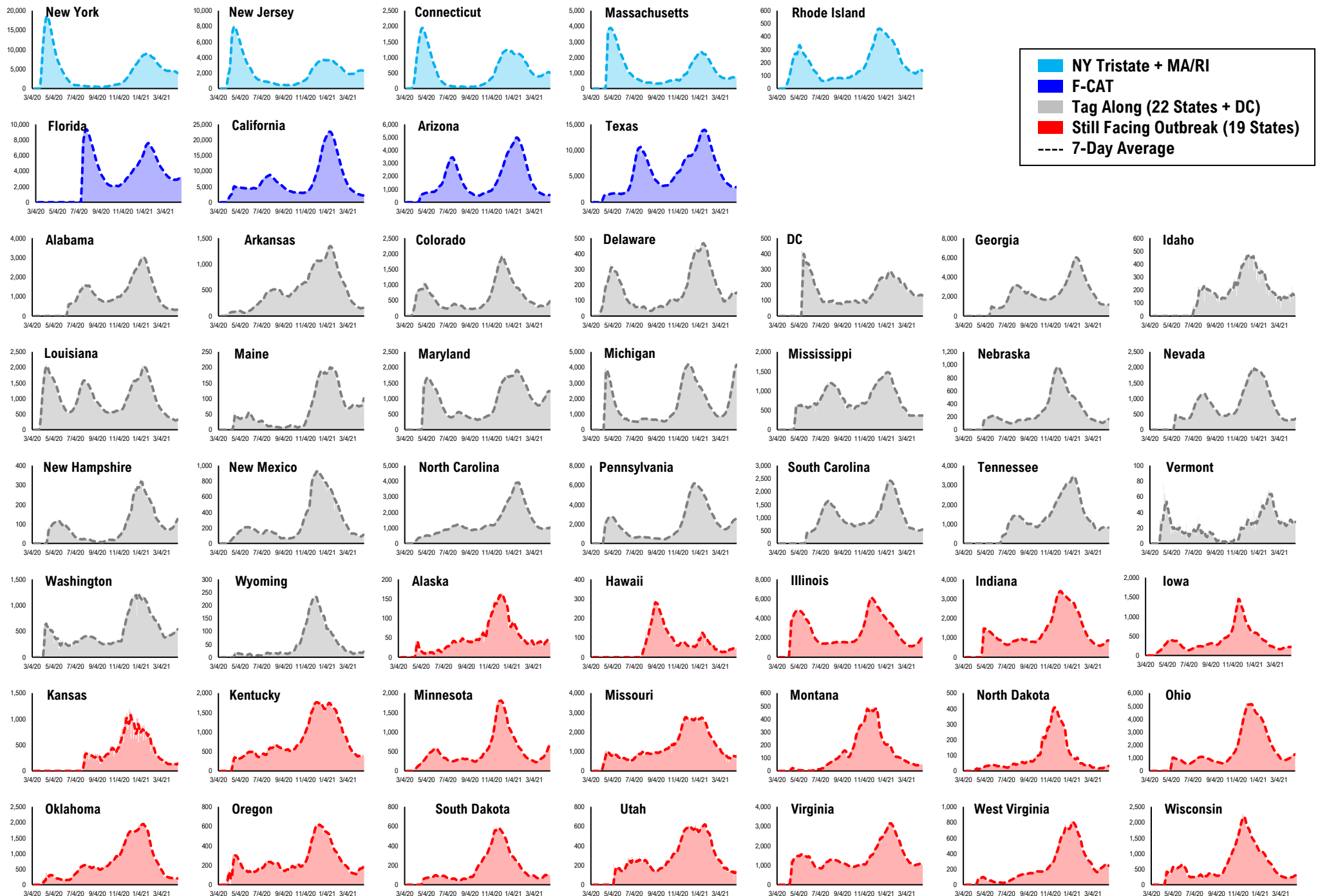


\* Ignored California between 8/10 and 8/23, due to its data glitch caused 300,000-case backlog  
Source: Fundstrat, COVID-19 Tracking Project, State Department of Health

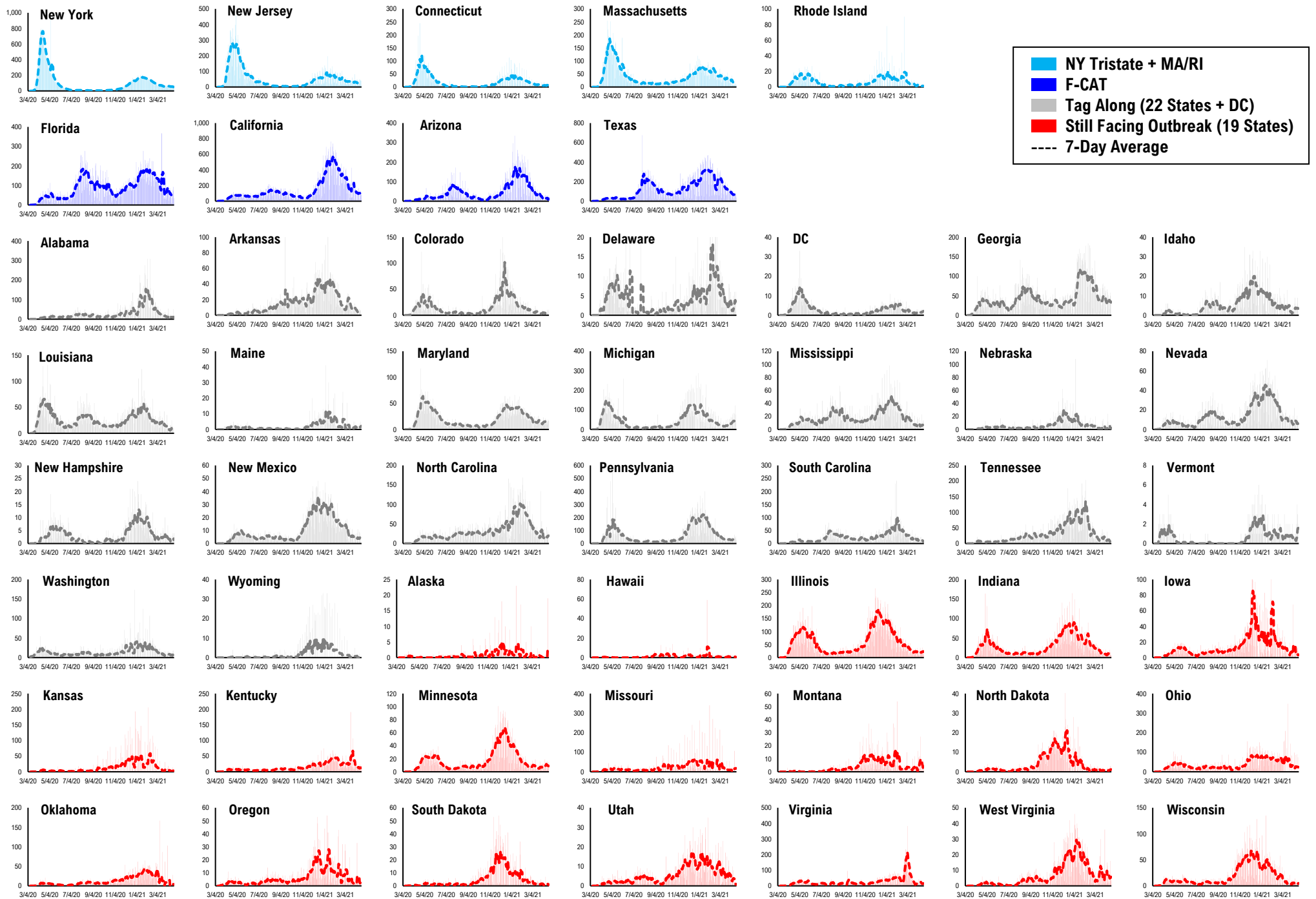
# #12: Daily New Cases by States...



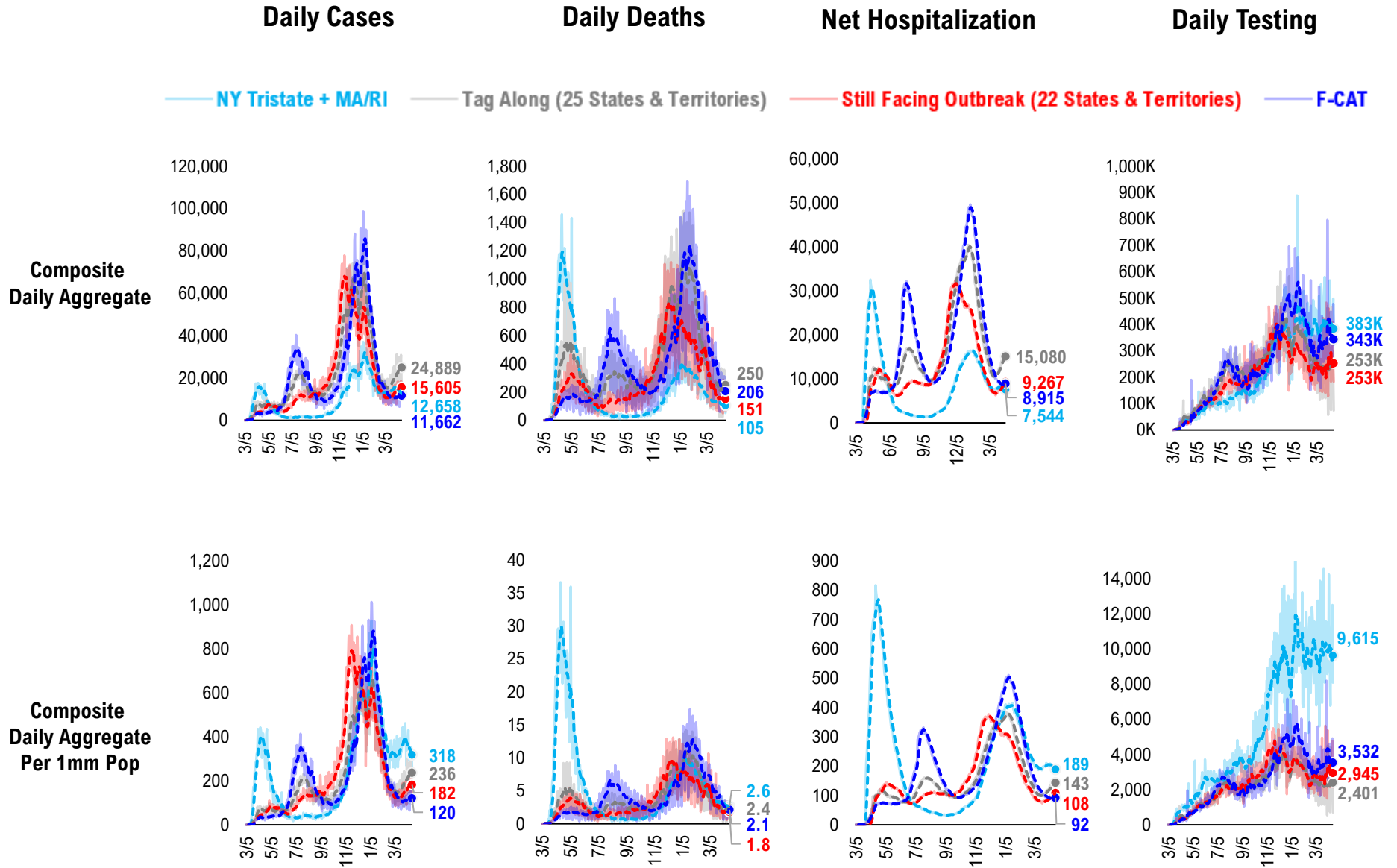
# #13: Current Hospitalizations by States...



# #14: Daily New Deaths by States...



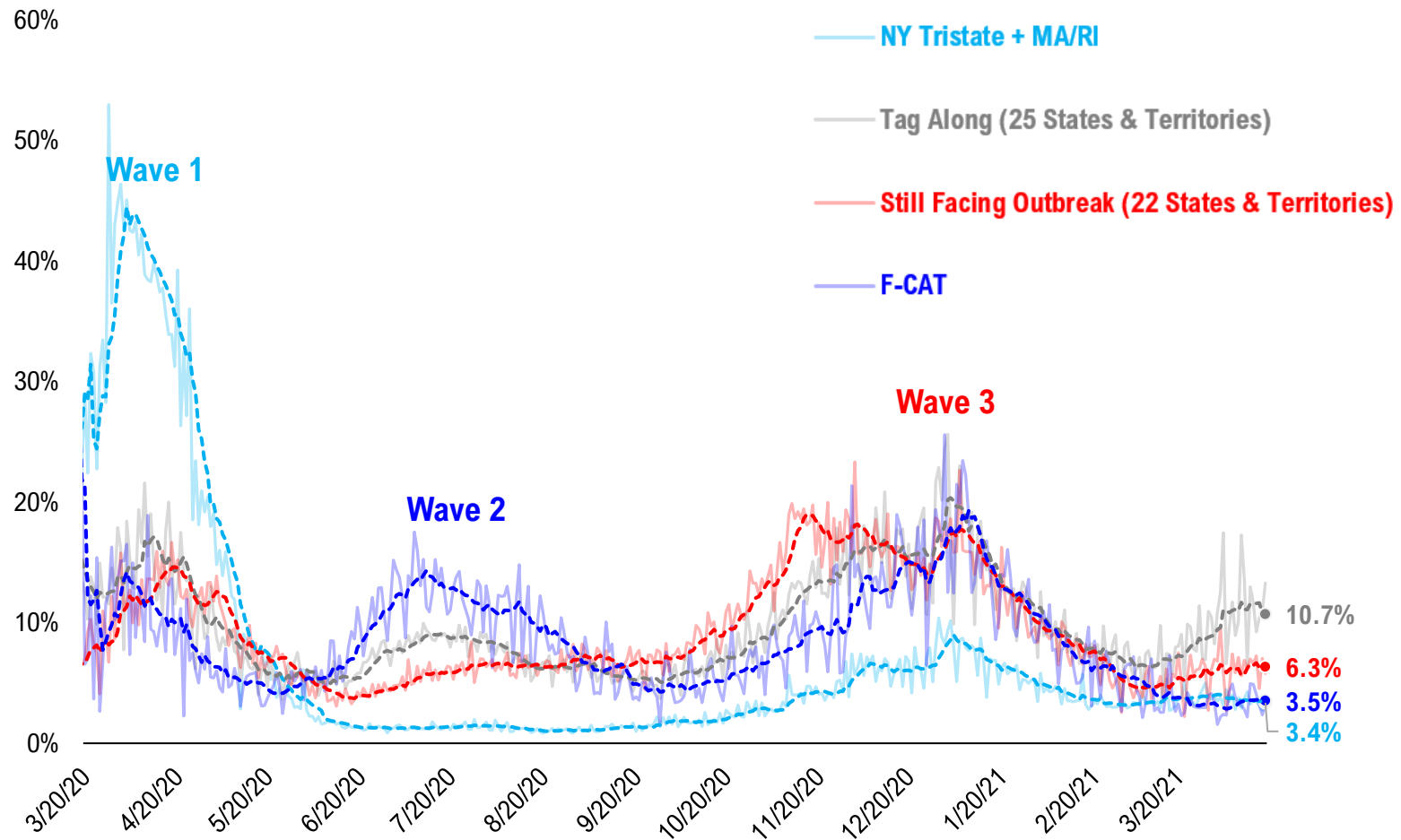
# #15: State COVID-19 situation by Tier...



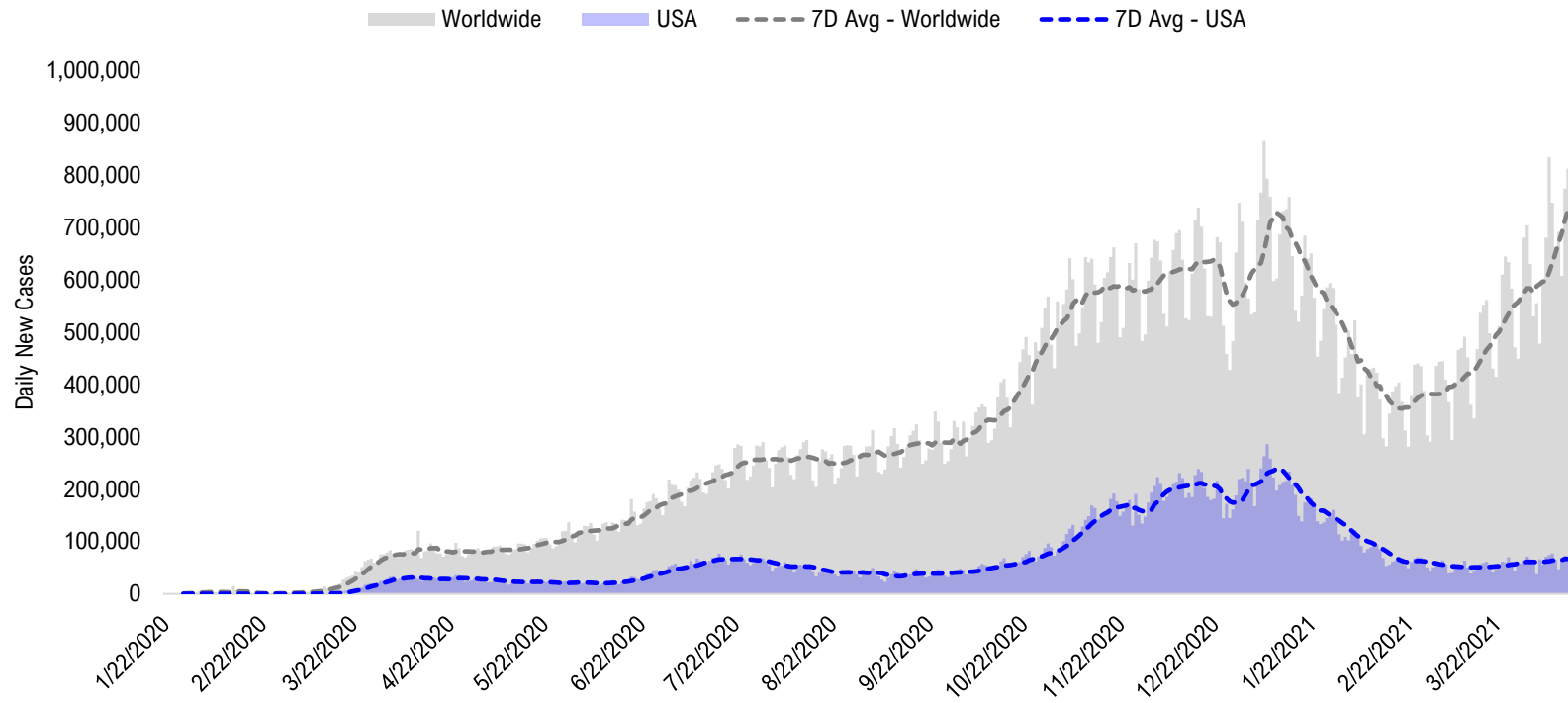


# #16: State COVID-19 Daily Positivity Rate by Tier...

## Composite Daily Positivity Rate



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



Nov 27	Dec 11	Dec 25	Jan 8	Jan 22	Feb 5	Feb 19	Mar 5	Mar 19	Apr 2	Apr 17
Europe 241,638	Europe 240,597	Europe 235,134	Europe 253,225	Europe 215,947	Europe 171,879	Europe 136,398	Europe 159,160	Europe 203,932	Europe 246,319	Europe 249,960
US + Canada 169,379	US + Canada 210,059	US + Canada 192,649	US + Canada 239,474	US + Canada 180,145	US + Canada 118,696	Latin America 81,995	Latin America 92,112	Latin America 112,156	Latin America 123,113	Pakistan + India + Bangladesh 214,397
Latin America 65,408	Latin America 77,815	Latin America 83,594	Latin America 95,501	Latin America 116,888	Latin America 95,150	US + Canada 68,407	US + Canada 58,634	US + Canada 54,412	Pakistan + India + Bangladesh 78,982	Latin America 138,077
Pakistan + India + Bangladesh 48,091	Pakistan + India + Bangladesh 36,327	Pakistan + India + Bangladesh 26,900	Africa 28,432	Asia ex- India+Pakistan 26,862	Asia ex- India+Pakistan 24,436	Asia ex- India+Pakistan 17,226	Pakistan + India + Bangladesh 17,965	Pakistan + India + Bangladesh 36,253	US + Canada 65,960	US + Canada 74,277
Asia ex- India+Pakistan 15,707	Asia ex- India+Pakistan 16,852	Africa 22,109	Pakistan + India + Bangladesh 21,150	Africa 25,790	Africa 15,433	Pakistan + India + Bangladesh 13,652	Asia ex- India+Pakistan 13,960	Asia ex- India+Pakistan 16,169	Asia ex- India+Pakistan 22,160	Asia ex- India+Pakistan 28,877
Africa 13,326	Africa 15,657	Asia ex- India+Pakistan 18,034	Asia ex- India+Pakistan 20,638	Pakistan + India + Bangladesh 16,471	Pakistan + India + Bangladesh 13,449	Africa 11,086	Africa 9,369	Africa 10,204	Africa 12,282	Africa 11,682

# Disclosures

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