

What we need to see, as evidence of progress:

Measure	Desired Direction	What Happened Yesterday
No. of Tests	Increase	Up 31.1% (Cumulative)
Positive Test Rate	Decline	13.5% (from 15.1%)
No. of Cases	Plateau	Up 24.3%
% of Deaths Per Case	Decline	Up slightly to 1.5%
No. of Deaths / 1M Pop.	Plateau	Up to 3.1
Recoveries : Deaths	Increase (>1:1)	3.1 (up from 2.4)

Yesterday's Highlights:

Some positive signals . . .

- Huge increase in testing in the US on Wednesday – nearly 80% more tests than on Tuesday; cumulative testing is now nearly 0.5 million
- Despite the increase in tests, the positive test rate declined; more tests with a reduced positive rate is an encouraging sign
- Nine states still have fewer than 100 cases (AS, HI, ID, MT, NE, ND, SD, WV, WY)
- Further, the percentage of cases considered "serious" or "critical" declined to 2.2%, from 2.7%
- The declining rate of spread of the virus in Washington state, the original epicenter of the virus in the US, may be signaling the start of a "recovery" there (decline in active cases); for the first time, the 3-day moving average increase in daily case volume <10%. If the pattern shown in China and South Korea holds, Washington may begin to see a decline in active cases in the next 7-11 days
- Italy also may be approaching a "recovery" stage: its 3-day moving average daily change in case volume fell below the 10% threshold on Tuesday; further, its daily change in active cases (again, 3-day moving average) has been dropping since last Saturday. Hopefully, active cases in Italy, like Washington, are close to peaking

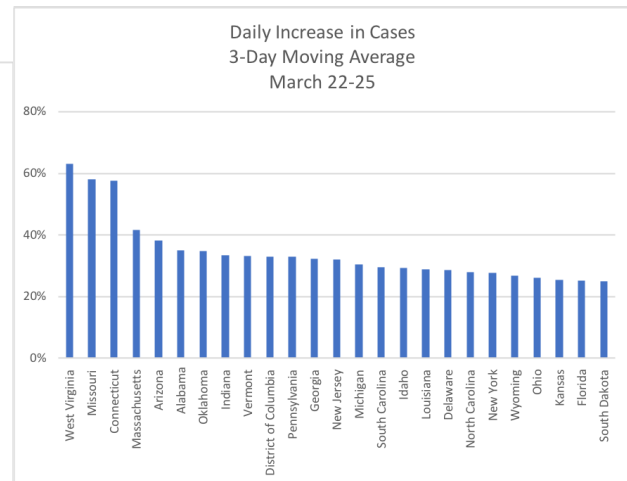
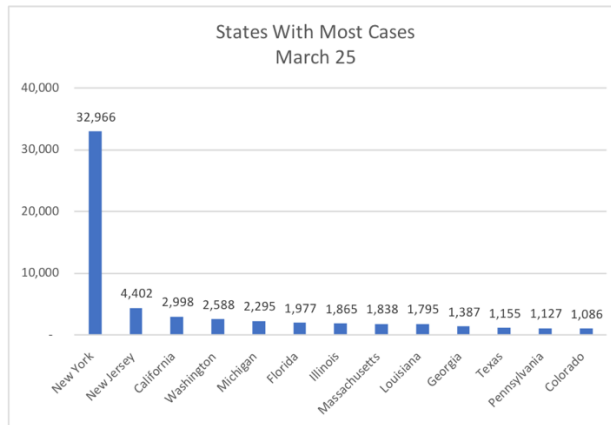
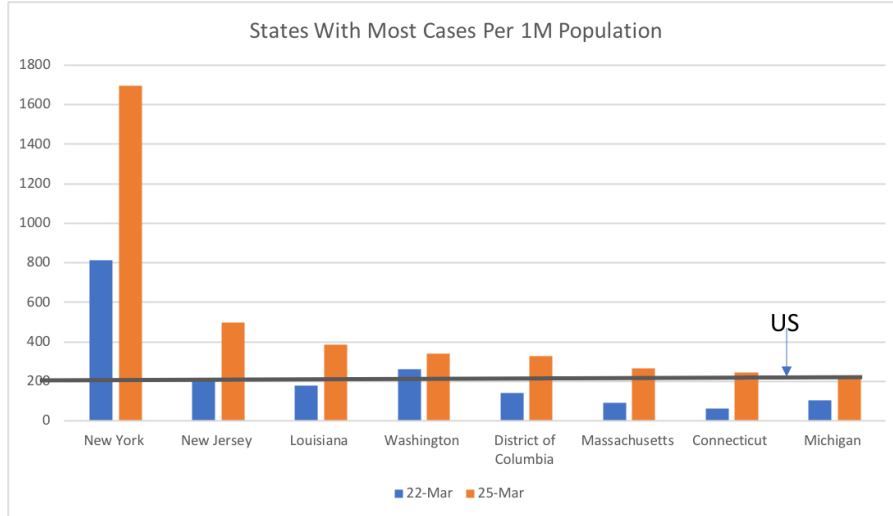
and some discouraging signs . . .

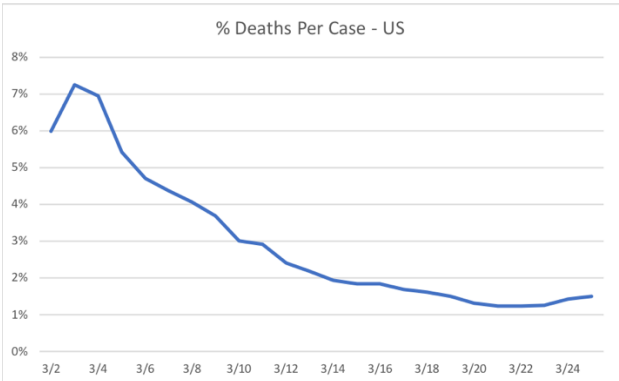
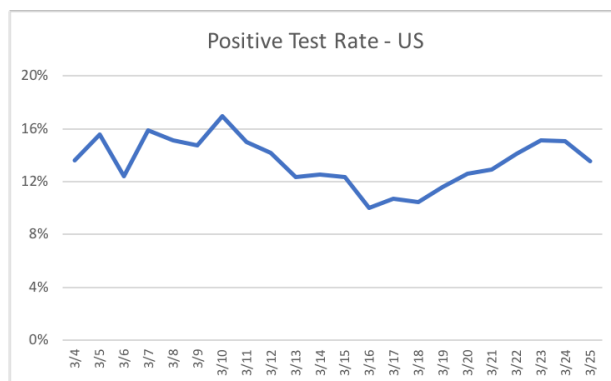
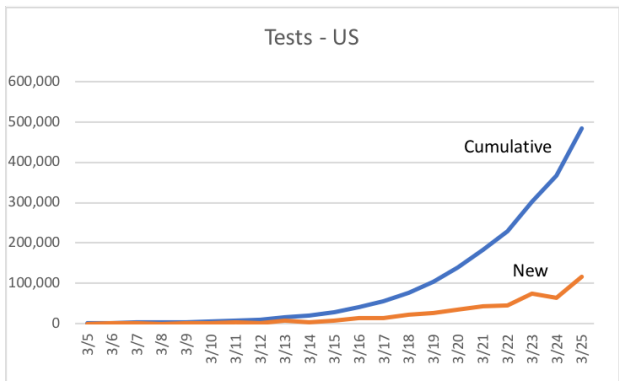
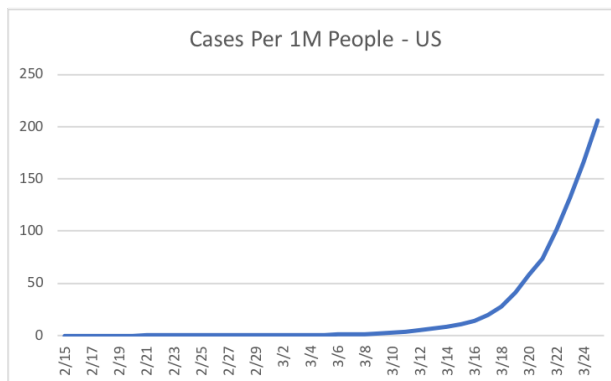
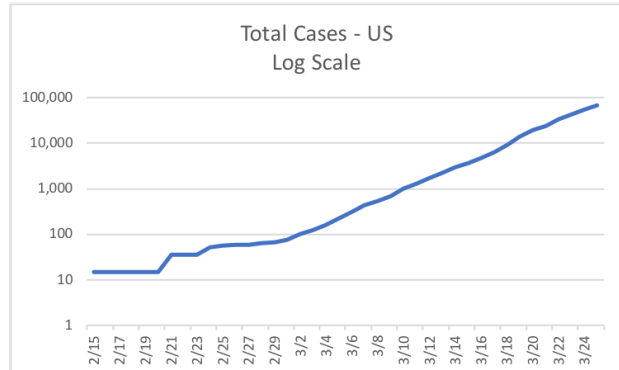
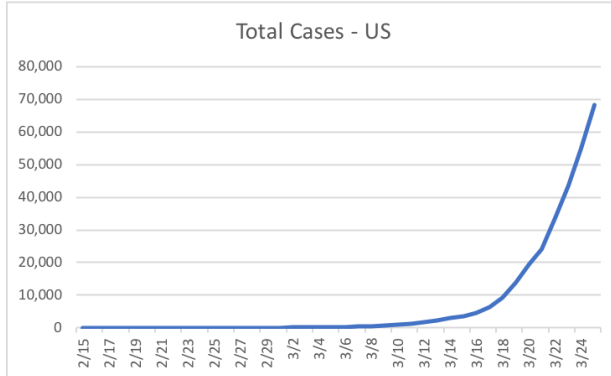
- New York continues to be of great concern – it's 32,966 cases represent 48.1% of all cases reported in the US; coupled with New Jersey and Connecticut, this area represents 55.8% of all cases in the US. Further, daily case volume (3-day moving average) in New York, New Jersey and Connecticut continues at a high rate: 27.8%, 32.0% and 57.7%, respectively
- The pervasiveness of cases in New York, measured as number of cases per 1M population, now exceeds that for Italy (Spain is approaching a rate close to Italy, as well)
- Overall, the US death rate increased to 1.5%, from 1.4% (although this rate is still low compared with many other countries)

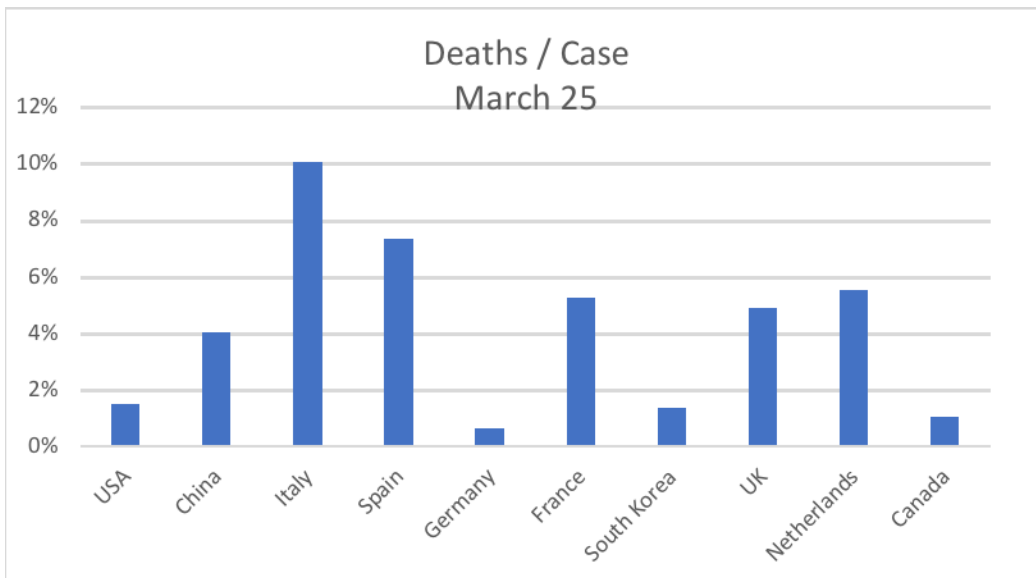
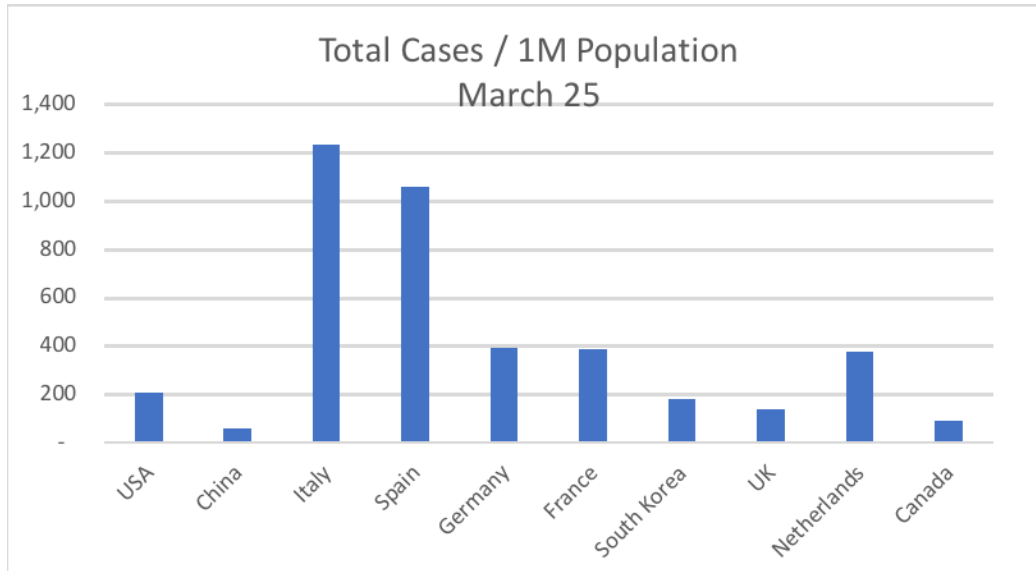
I have elected to tweak the classification schema that was introduced yesterday, based on further refinement of my analysis of the underlying data and the experiences of South Korea, China and Spain (see new graphic). Note:

- Twenty states are in the "Rapid Progression" stage (AL, AZ, CT, DE, FL, GA, IN, KS, LA, MA, MI, MO, NJ, NY, NC, OH, OK, PS, SC, VT); Twenty others are in "Early Development"

Stage (as of March 25)				
	I Early Development	II Rapid Progression	III Slowing Progression	IV Recovery
Fewer Than 100 Cases	Average Daily Case Increase <25%	Average Daily Case Increase >25%	Average Daily Case Increase >10%	Declining Active Cases
Alaska	Arkansas	Alabama	Washington	
Hawaii	California	Arizona		
Idaho	Colorado	Connecticut		
Montana	Illinois	Delaware		
Nebraska	Iowa	Florida		
North Dakota	Kentucky	Georgia		
South Dakota	Maine	Indiana		
West Virginia	Maryland	Kansas		
Wyoming	Minnesota	Louisiana		
	Mississippi	Massachusetts		
	Nevada	Michigan		
	New Hampshire	Missouri		
	New Mexico	New Jersey		
	Oregon	New York		
	Rhode Island	North Carolina		
	Tennessee	Ohio		
	Texas	Oklahoma		
	Utah	Pennsylvania		
	Virginia	South Carolina		
	Wisconsin	Vermont		







Information provided as a courtesy, based on data from the above-named sources. HIA has no responsibility for the accuracy and updating of any data. Sources: worldometers.info; covidtracking.com, [Financial Times](http://FinancialTimes.com) Graphics depict data as of March 25, 2020