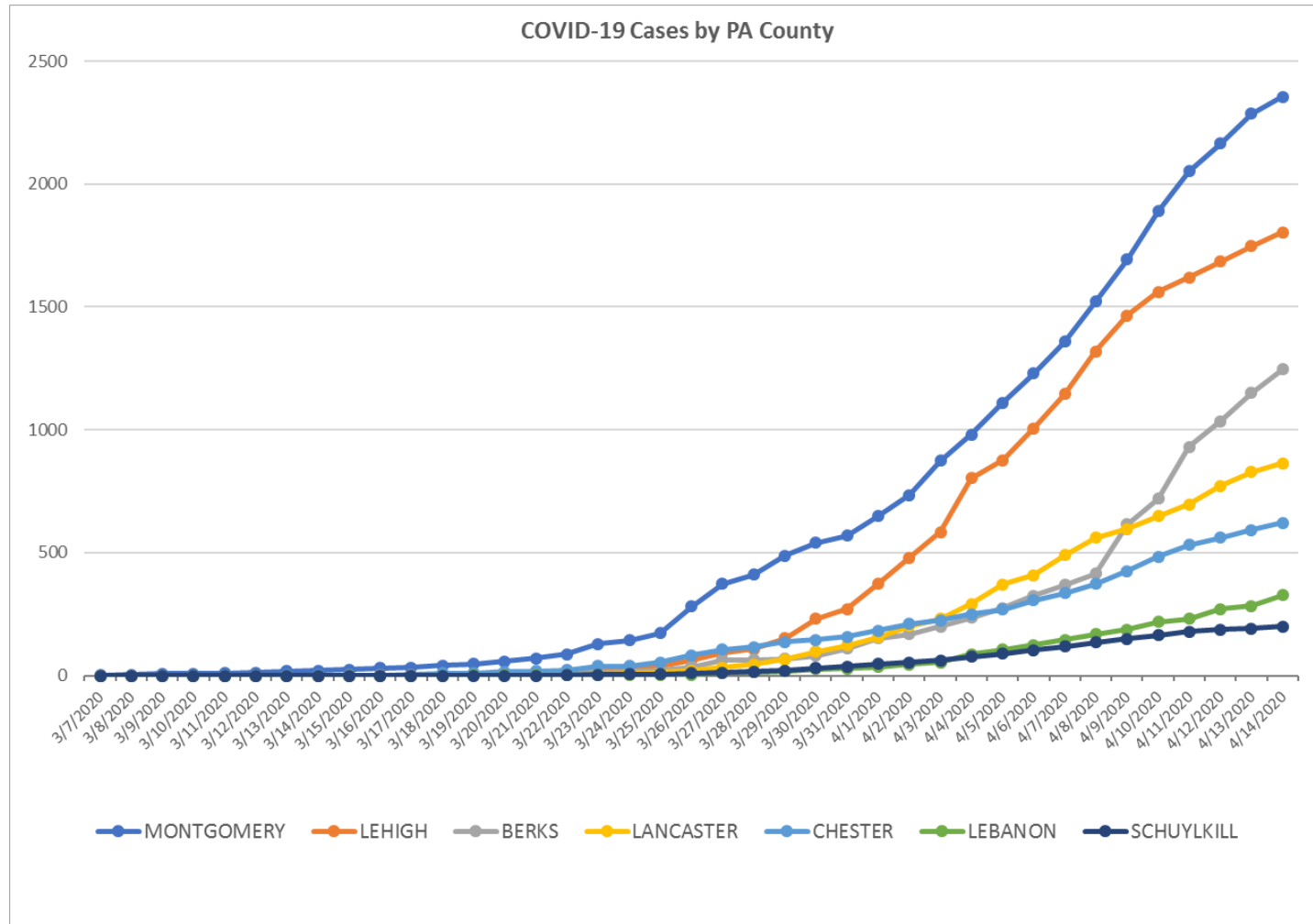


# BED DEMAND AND SURGE MODEL

## Total Confirmed Cases by County

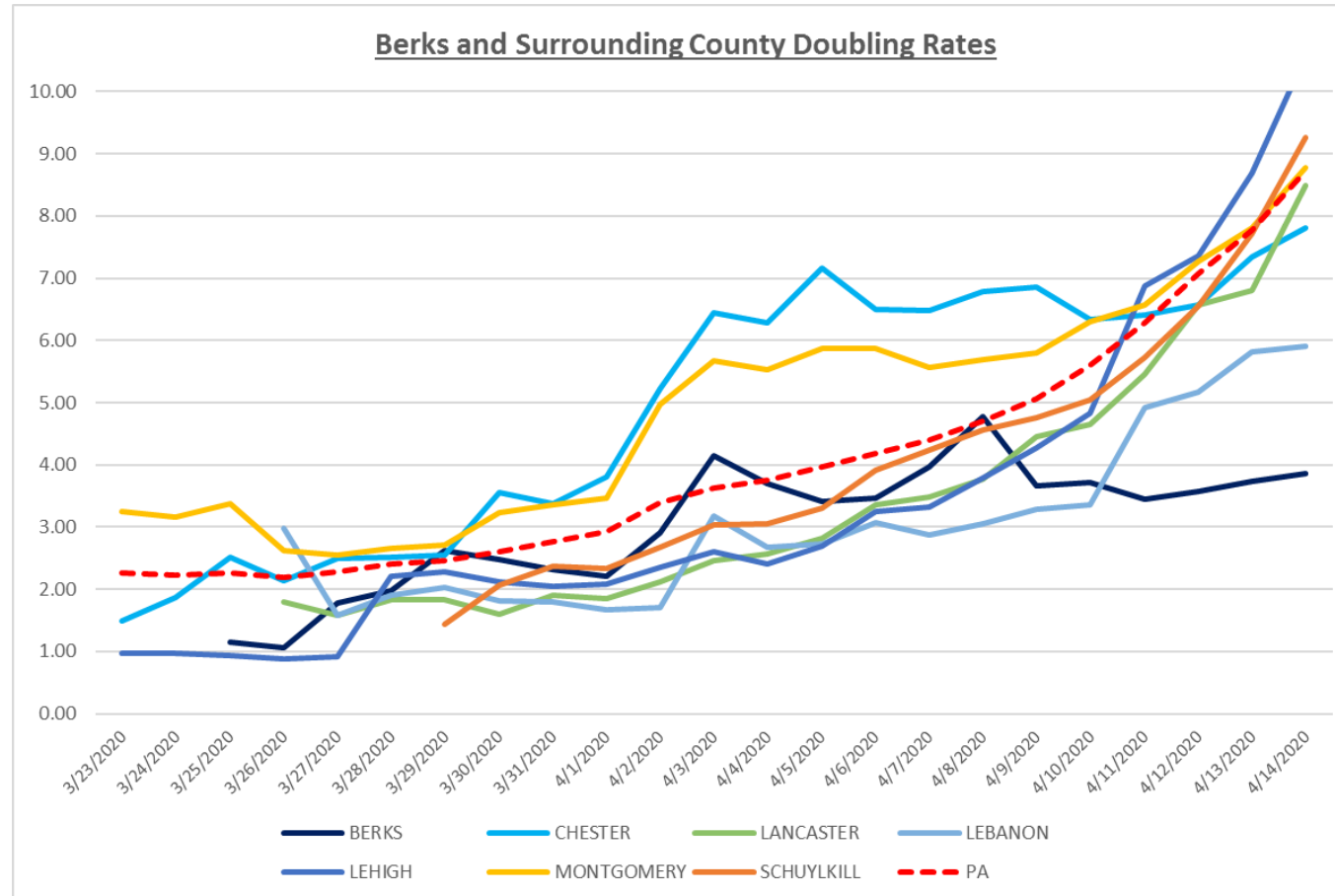


Source: PA Dept of Health

# BED DEMAND AND SURGE MODEL

## *Doubling Rates by County*

County Doubling Rates									
	Berks	Chester	Lancaster	Lebanon	Lehigh	Montgomery	Schuylkill	PA	US
4/14/2020	3.9	7.8	8.5	5.9	10.6	8.8	9.3	8.7	10.5



Source: PA Dept of Health, ECDC, and The COVID Tracking Project

# BED DEMAND AND SURGE MODEL

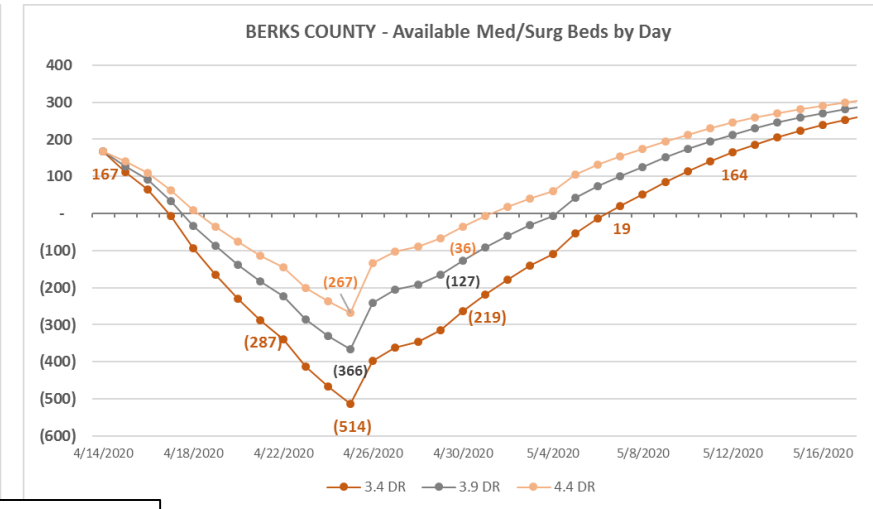
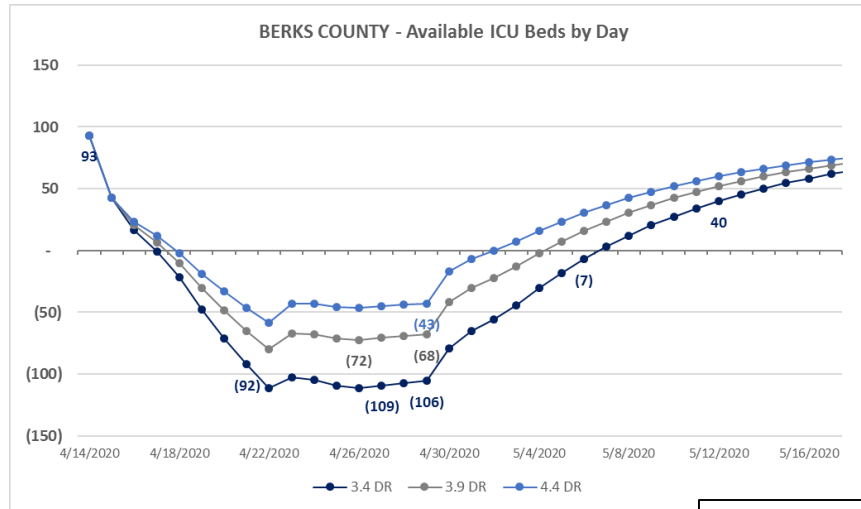
Outputs for Confirmed Cases as of 4/6/2020

## SURGE OPERATING CAPACITY

Model uses doubling rates of 3.4 DR, 3.9 DR and 4.4 DR to generate 3 potential scenarios

Lower = aggressive infection rate Higher = slowing infection rate due to public health interventions

Selected Hospital:	BERKS COUNTY	
First day of model:	4/14/2020	
Number of confirmed cases on first day of model:	1247	
Modeled number of inpatients on 04/14/20	212	Actual as of 4/14/2020: 161
First Day of ICU Bed Shortage:	4/17/2020	0 weeks, 3 days from 4/14/2020
First Day of Med/Surg Bed Shortage:	4/17/2020	0 weeks, 3 days from 4/14/2020



REVISED 4/14/2020

