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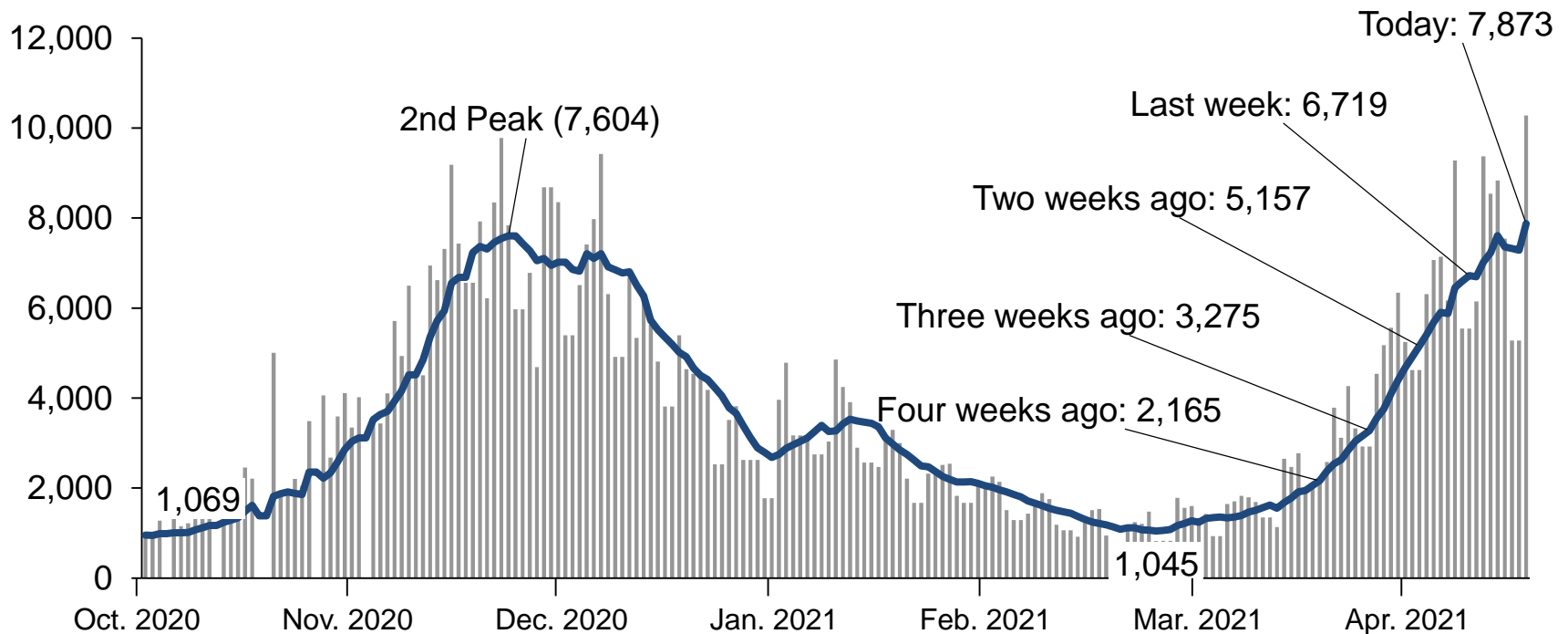
# **COVID-19 Update**

**Business Leaders for Michigan**  
**April 15<sup>th</sup>, 2021**

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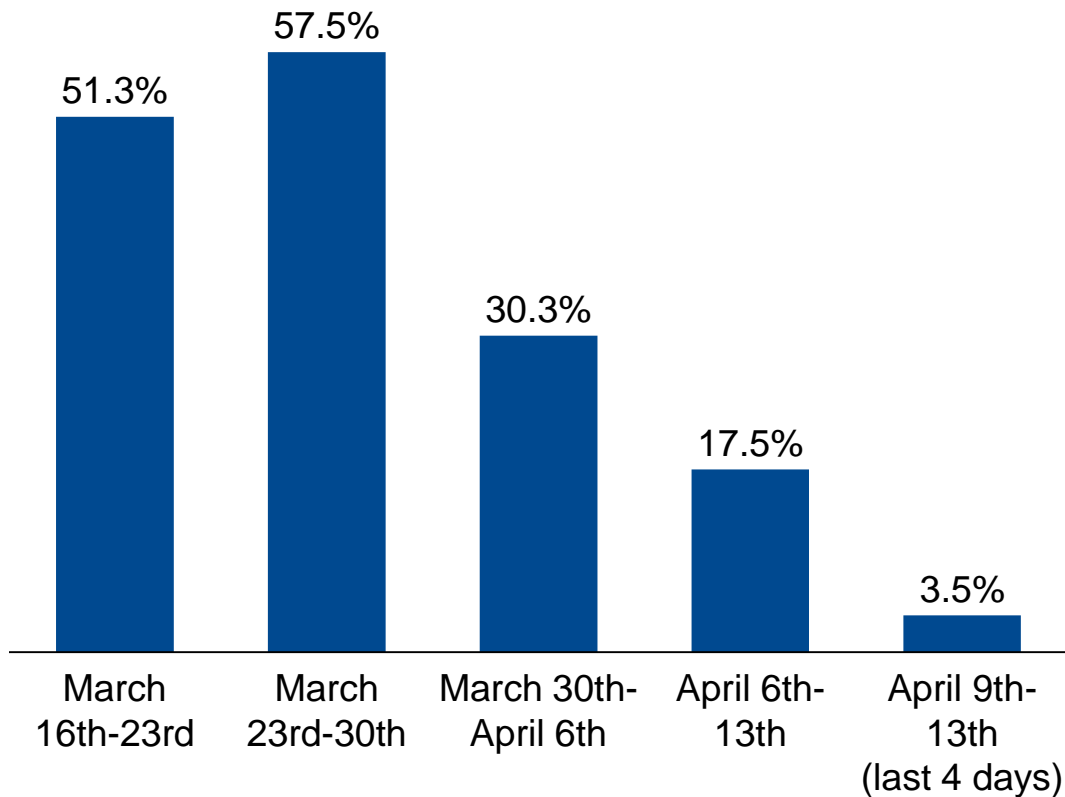
# The 7-day average case level – which has been climbing steadily – has been ~flat in recent days for the first time since late February

Daily new cases and 7-day average (10/1/20 – 4/13/21)



# The rate of week-over-week growth in cases – nearly 60% three weeks ago – has been decelerating significantly and appears to have flattened

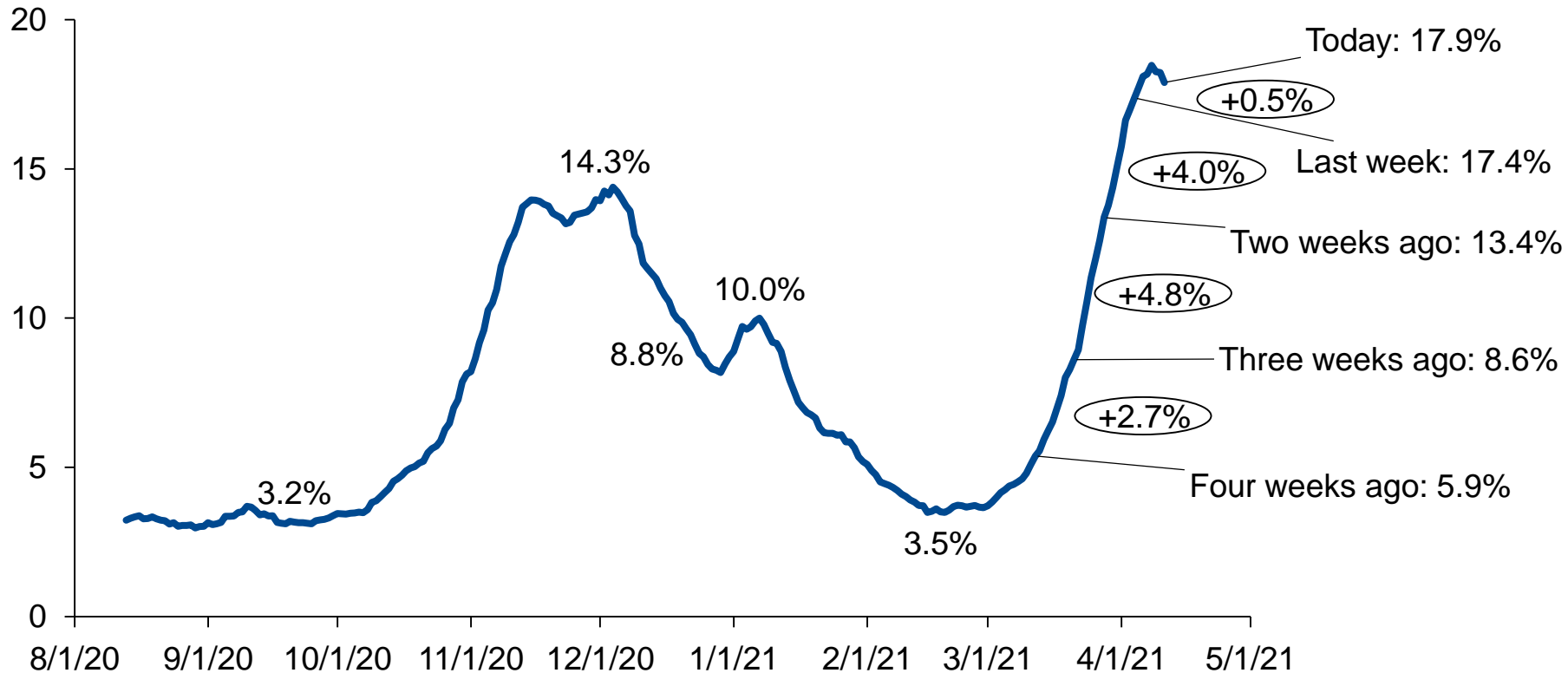
Week-over-week increase in cases, March 16-April 13



- The week-over-week increase in case levels 3 weeks back was nearly 60%
- This past week, growth declined to 18% (2.5%/day)
- The past 4 days have seen an increase of 3.5% (<1%/day) - the lowest since late February

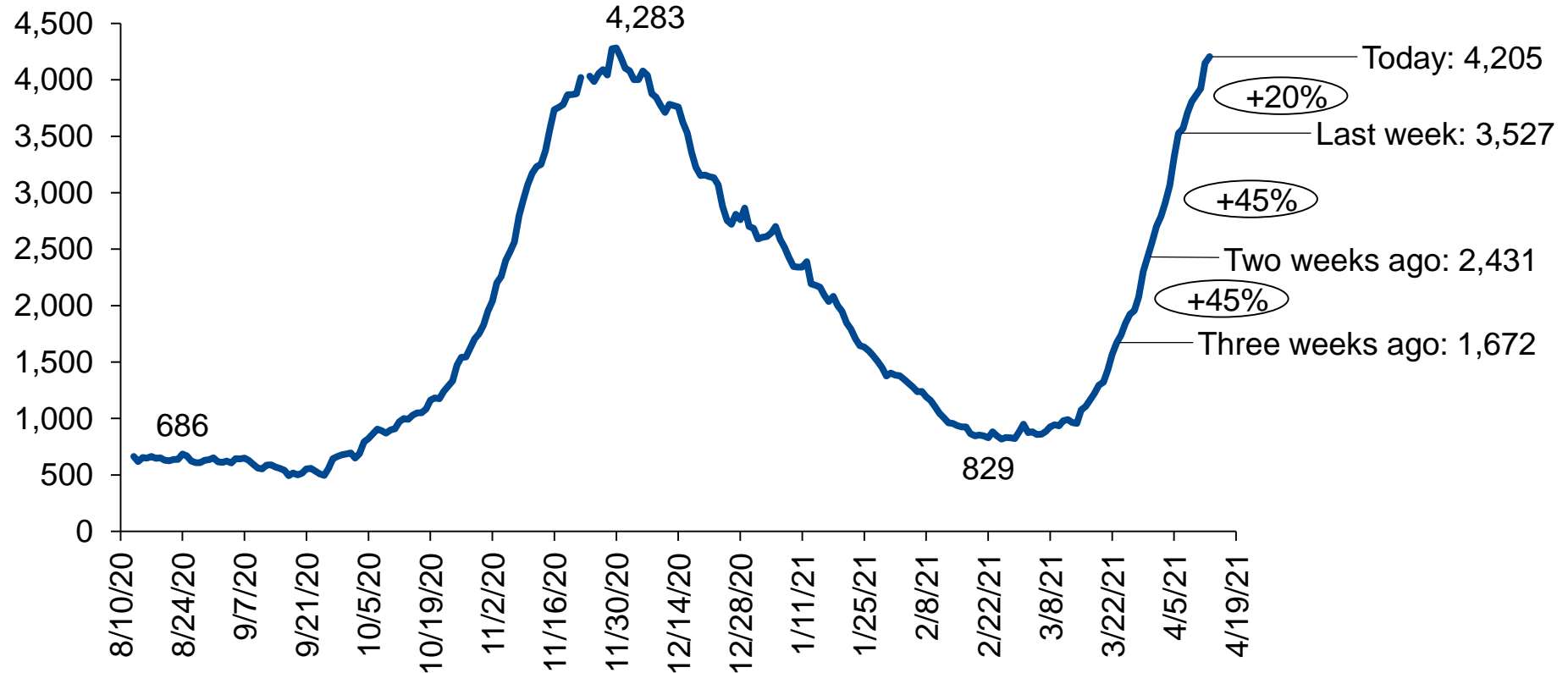
# Michigan's positivity rate has declined for three consecutive days – it was up 0.5% over the last week, vs. 4.6% and 4.0% the prior two weeks

Positivity rate (7-day average) 8/13/2020 – 4/11/2021



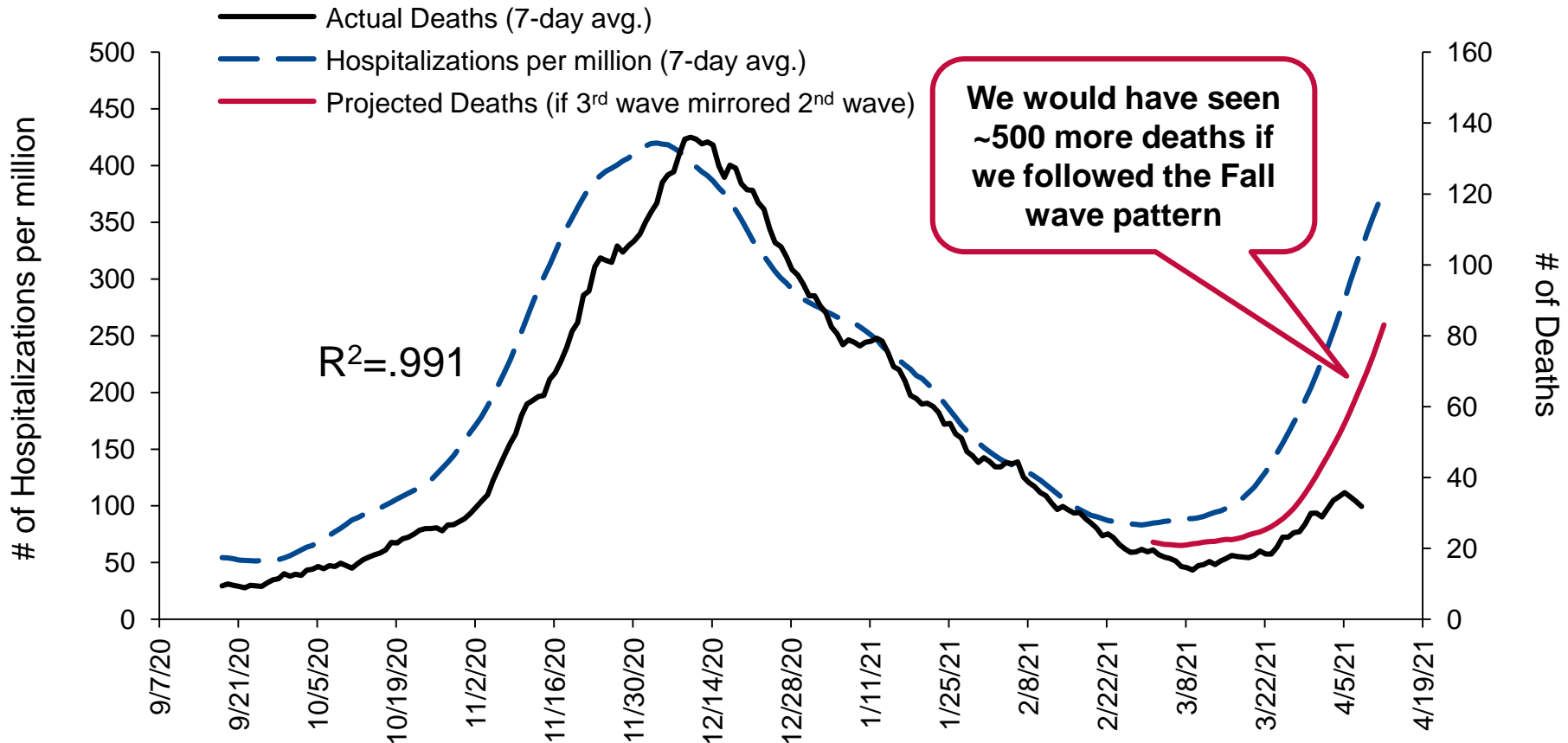
# Hospitalizations have also begun to decline in their week-over-week growth rates, from 45% in the prior 2 weeks to 20% last week

## Hospitalization (Confirmed and Suspected) 8/13/2020 – 4/13/2021

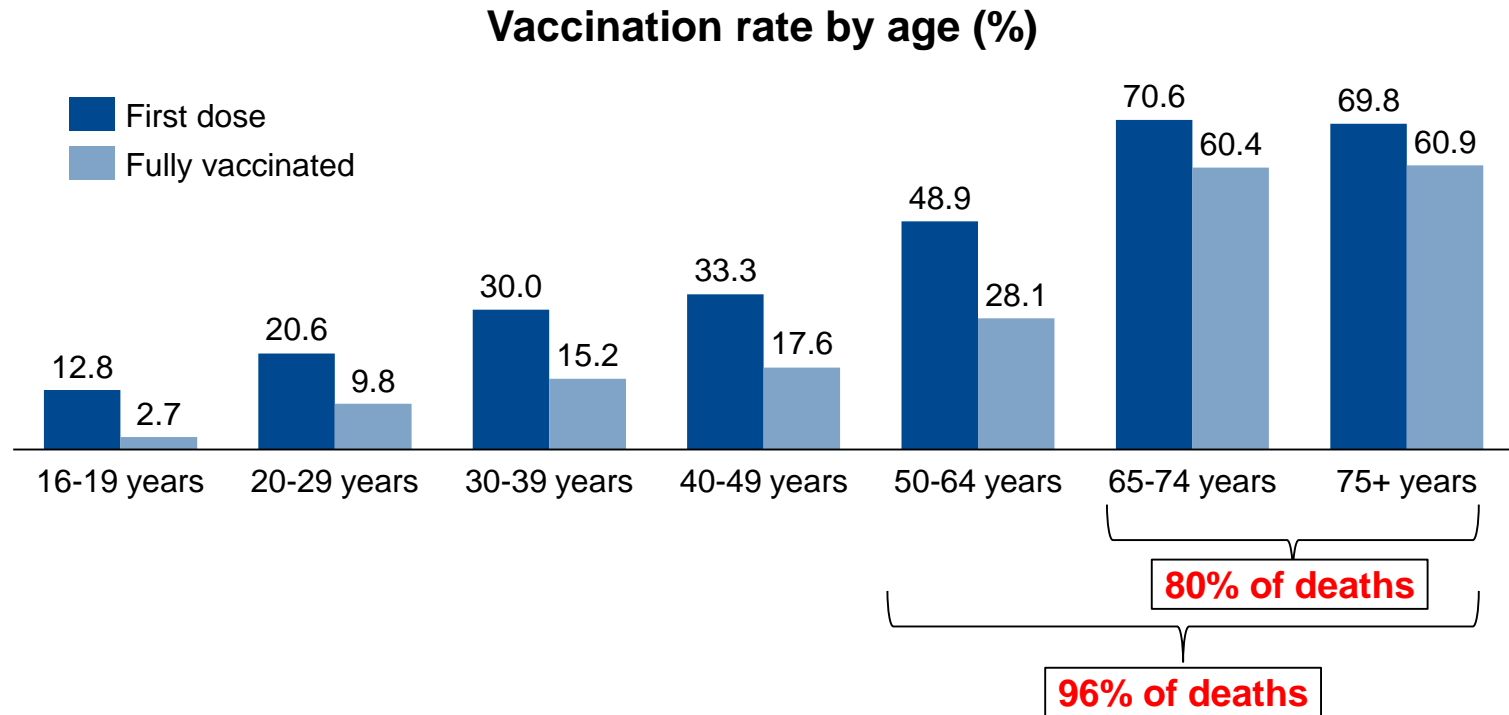


1. This graph includes both confirmed and suspected cases  
2. Source MHA

# In the fall wave, deaths lagged hospitalizations by ~7 days and were highly correlated ( $R^2 > .99$ ). This strong correlation has broken down in the current wave

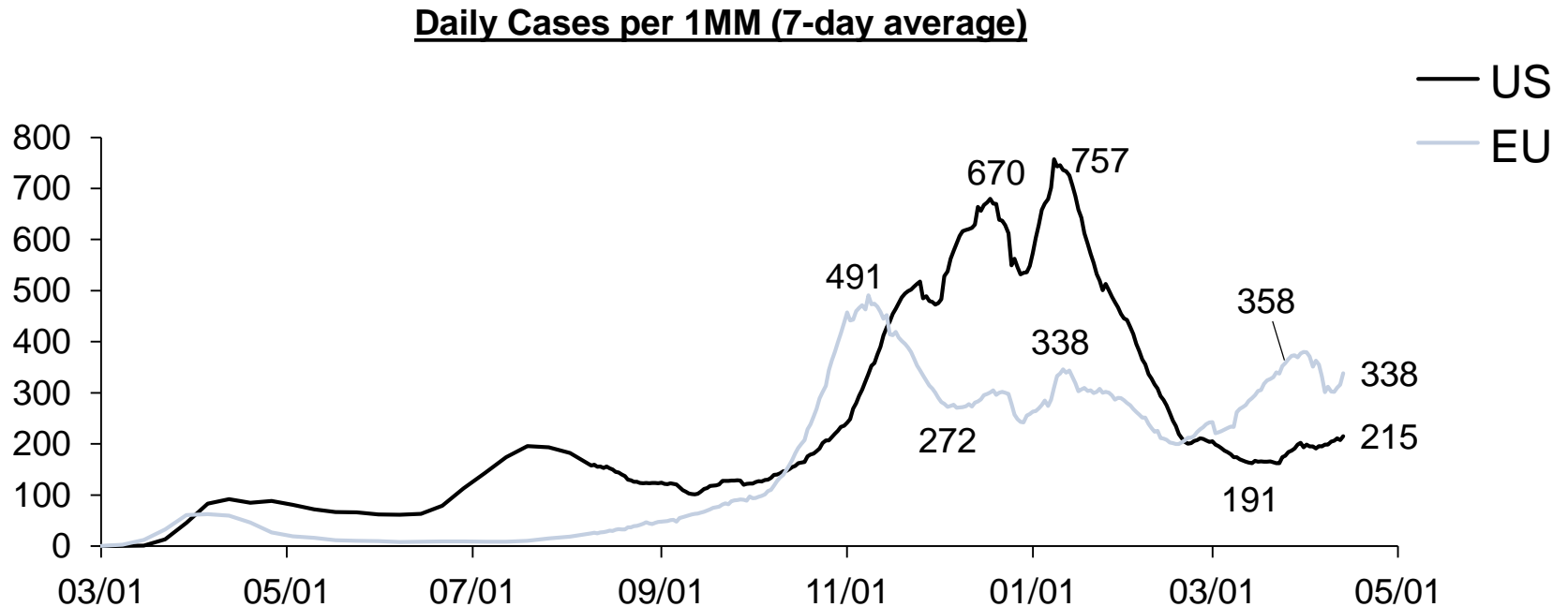


# This breakdown in the tie between of hospitalizations and deaths is due to the vaccination of our older residents, where mortality has been concentrated



Our vaccination strategy has protected ~70% of those over 65 – this group accounted for ~80% of deaths in the Fall wave and have accounted for ~75% in the current wave

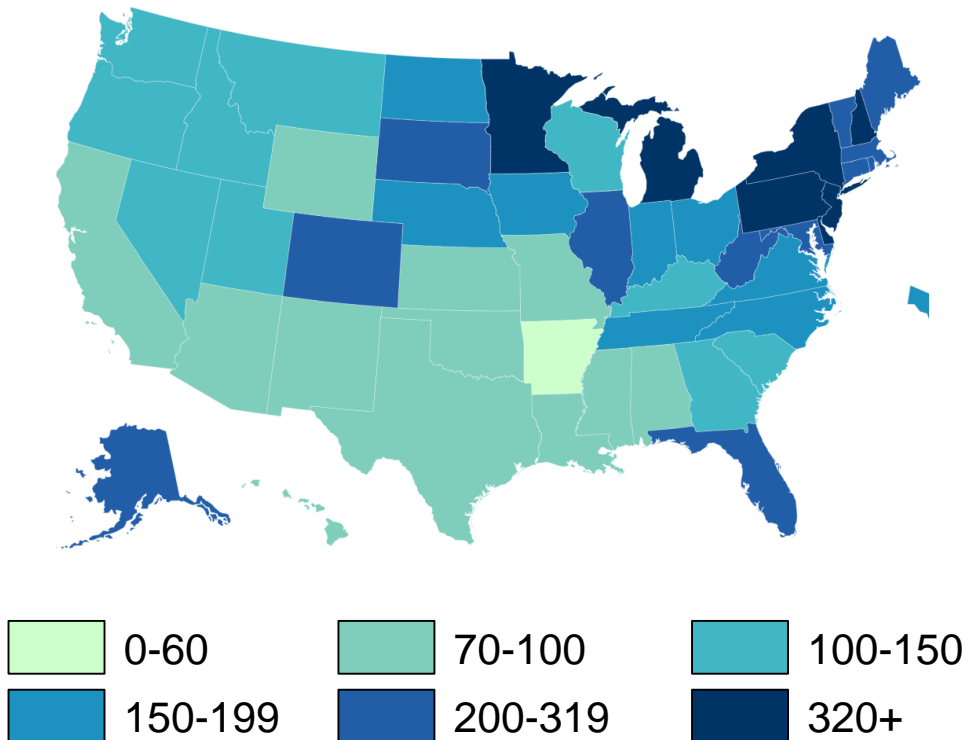
# The U.S. cases per million have begun to rise slowly, where the EU has fallen slightly



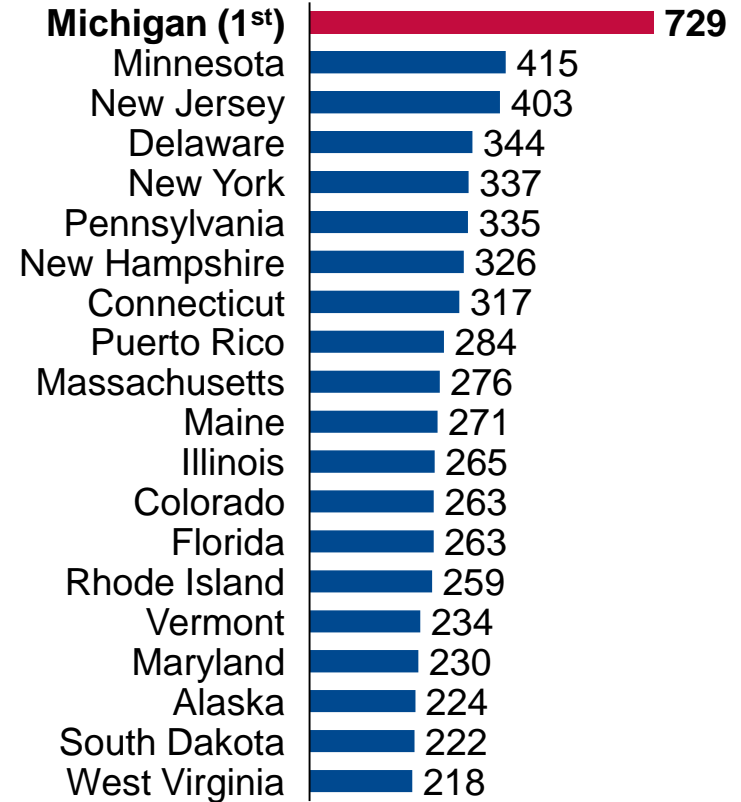


# While US caseload remains relatively low, Michigan continues to have the highest cases per million of any state – by a large margin

US 7-day average daily COVID cases per million (map)



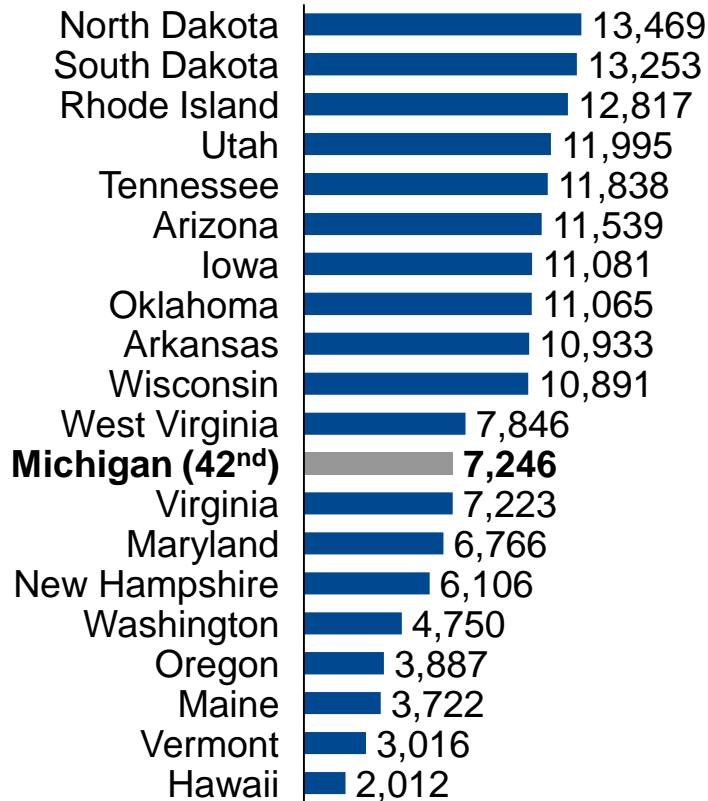
7-day average daily COVID cases per million (top 20 states)



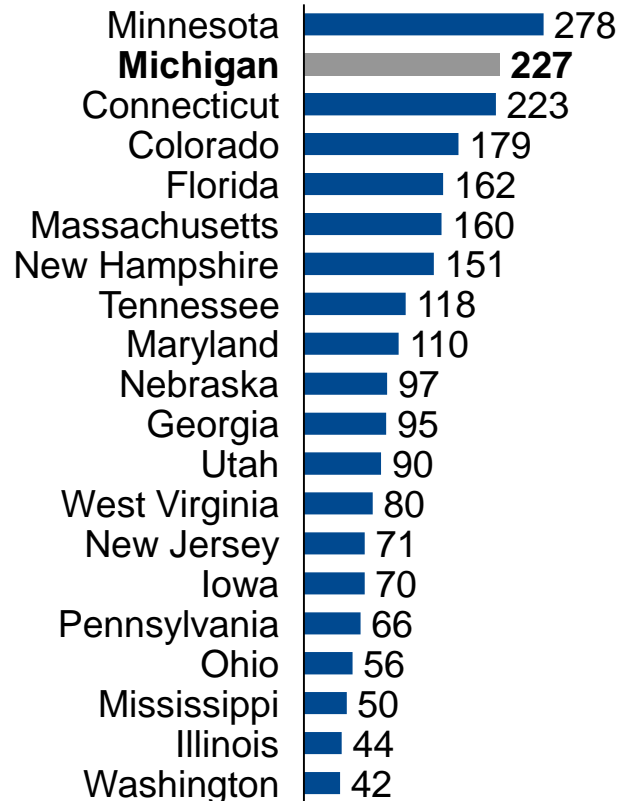
# Experts believe there are three main reasons for this surge in Michigan

1) fewer Michiganders have had COVID-19, 2) we have the 2<sup>nd</sup> most cases/resident of the B.1.1.7 variant, 3) contact has increased

**Cumulative COVID cases per 100K  
(top 10 states + bottom 10 states)**



**B.1.1.7 variant cases per million (top 20 states)**



**Contact has increased to pre-pandemic levels**

- # of trips per day has increased to March 2019 levels
- 20% of population is staying at home vs. 30% in both peaks and 25% last summer
- Individuals have pandemic fatigue and have begun additional gatherings

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# **Michigan Vaccination Update**

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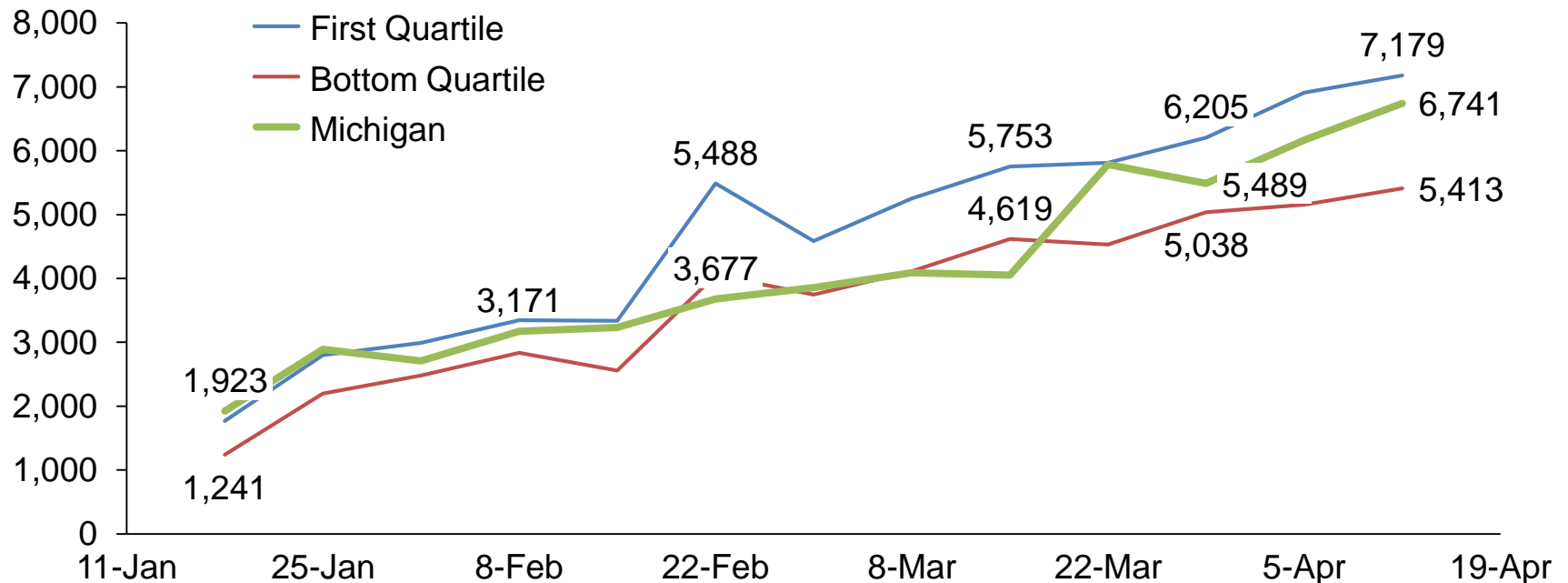
## Michigan continues to have a 3<sup>rd</sup> quartile performance with all metrics between 34<sup>th</sup> and 24<sup>th</sup> of the 50 states

Metric	Current week	Rank – 50 states (prior week)	Rank – 20 most populous (prior week)	Metric Trend	
				All states	20 largest
Current pace (Doses/100K/wk)	6,741	24 (30)	13 (14)	↑	↑
Cumulative doses / 100K	55,926	34 (35)	14 (14)	↑	↔
Population given first dose %	35.5%	31 (33)	12 (13)	↑	↑
Inventory %	80%	30 (30)	13 (12)	↔	↓
Inventory burn rate (days/doses)	15	27 (28)	12 (13)	↑	↑

- While many metrics have trended up, improvements have been incremental

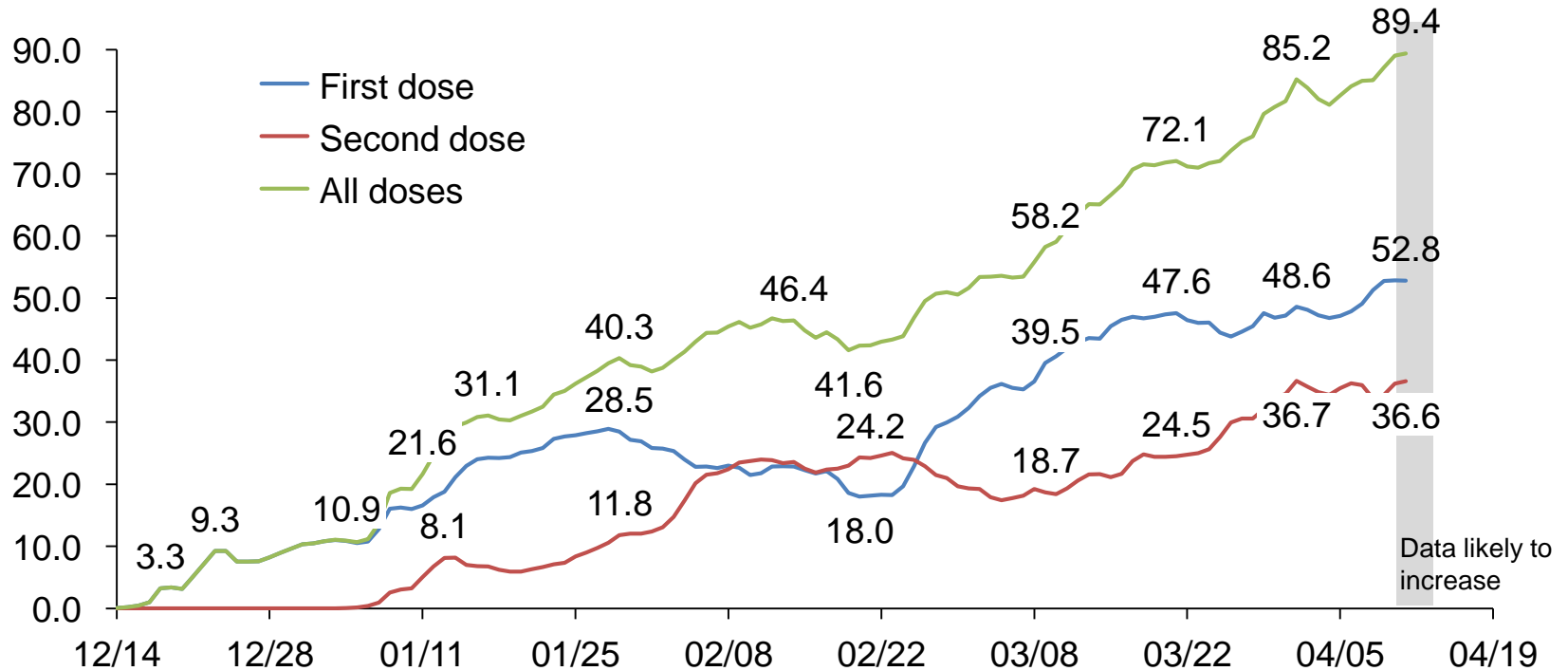
# Michigan's vaccination pace – as reported by the CDC – continues to be average relative to other states

Number of new doses given per 100K population each week (# Rank)



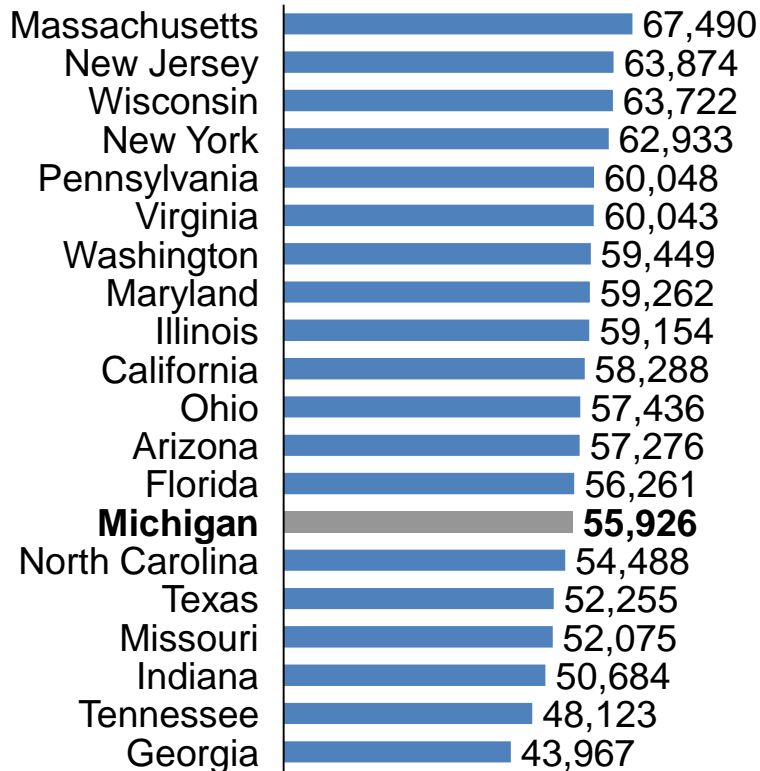
**The total number of doses per day – as reported by the State – rose to ~90K over the last week, growing first doses while maintaining a high number of 2<sup>nd</sup> doses**

**Thousand doses per day (7-day average)**

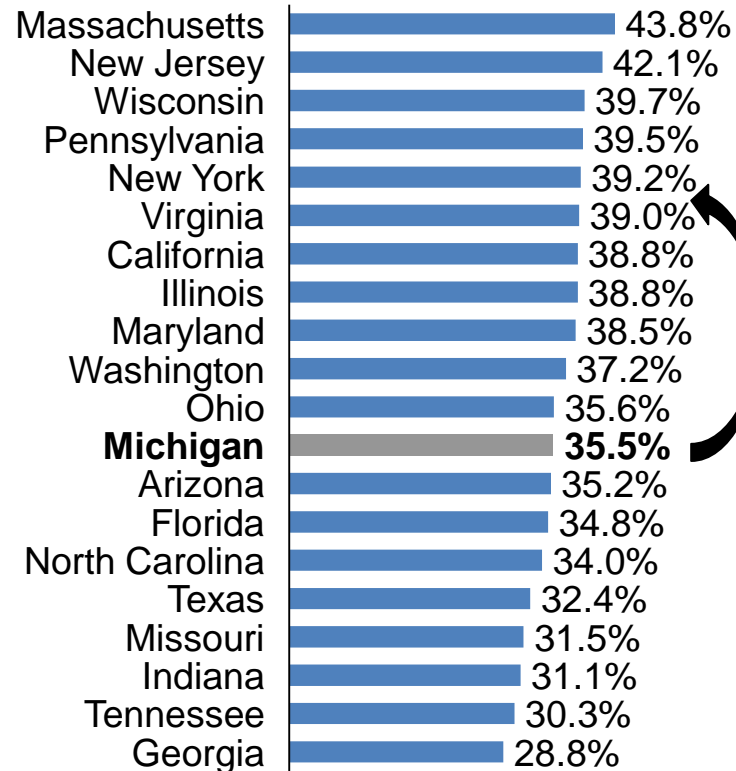


# When looking at the 20 most populous states, Michigan is either the 13<sup>th</sup> or 14<sup>th</sup> best performer; we were 14<sup>th</sup> or 15<sup>th</sup> respectively last week

Number of doses given per 100K population (top 20 most populous states)



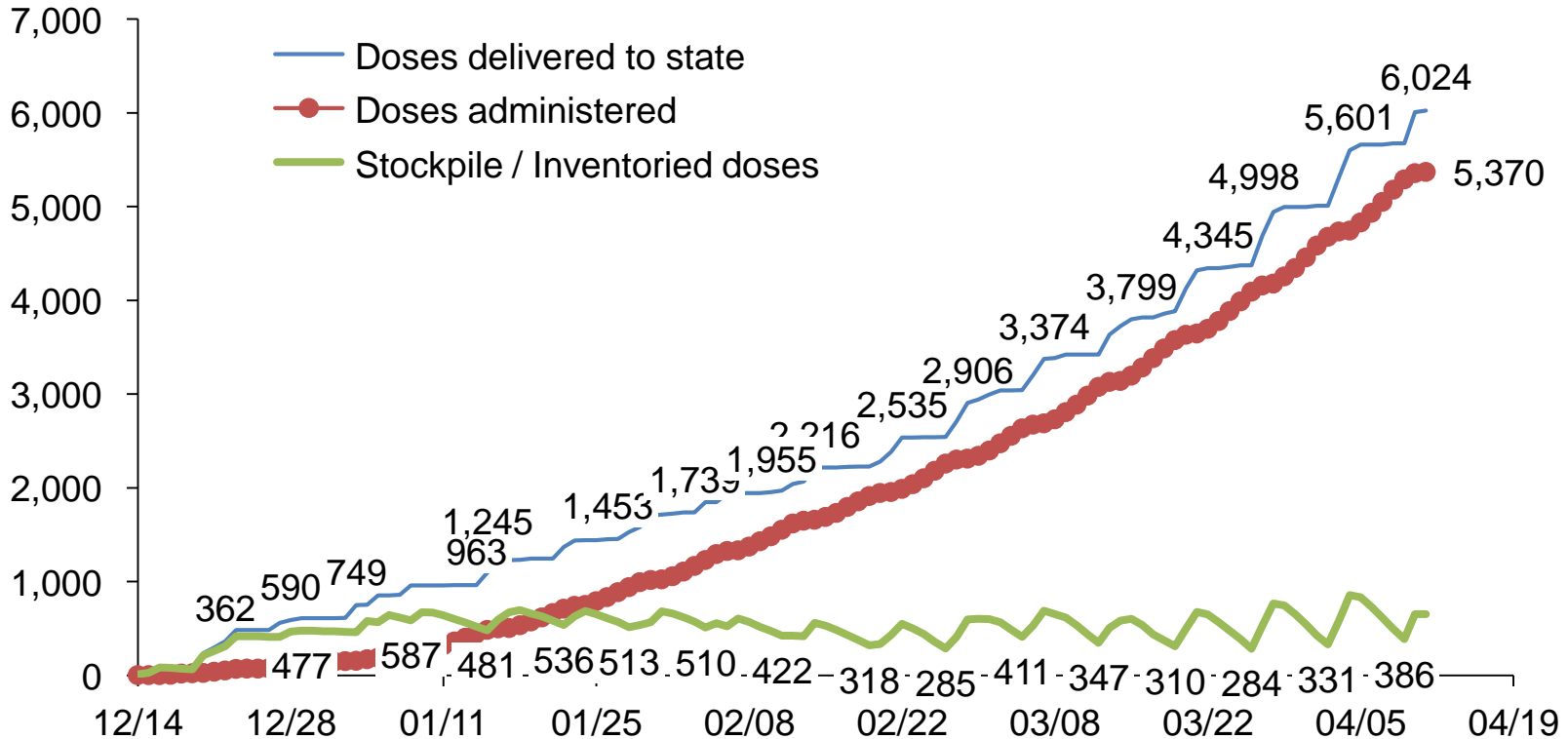
% of population given first dose (top 20 most populous states)



Difference between 12<sup>th</sup> and 1<sup>st</sup> quartile is 3.5% or ~6 days of vaccines

# Our “safety stock” – lowest weekly inventory levels – increased in the last two weeks from ~290K to ~390K

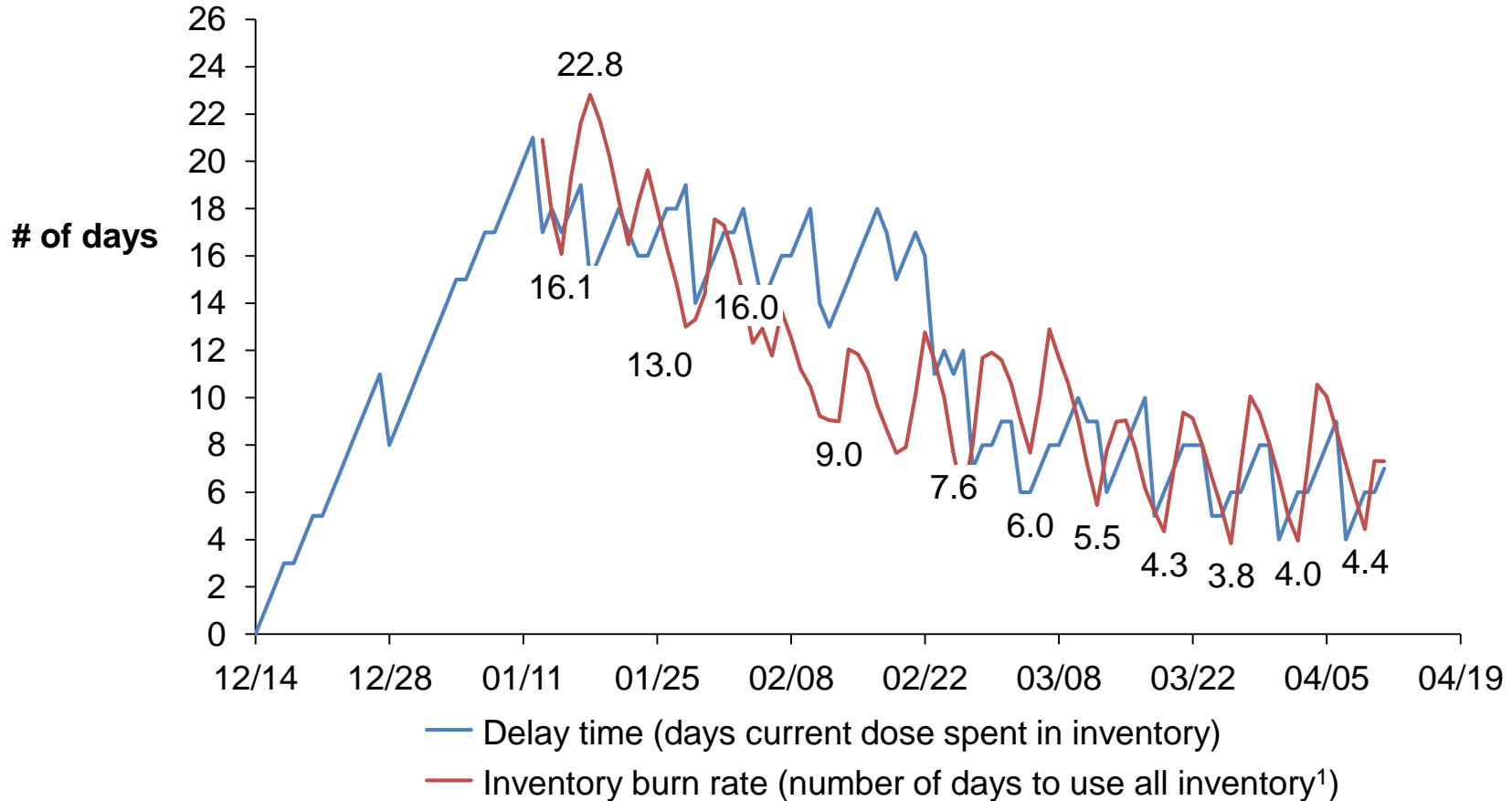
## Michigan Stockpile Chart (000's)





# Michigan's lowest inventory burn rate has increased from 3.8 days to 4.4 days, showing a slight slowing of the vaccine roll-out

## Michigan Dose Inventory Chart



1. Based on last 7-day average dose administration rate

Source MDHHS