



# COVID Epidemiology Situation Update

Tim Lant, PhD, MAS, Heather Ross PhD, DNP, ANP-BC, Anna Muldoon, MPH, Samantha Sokol, Jordy Rodriguez, Esma Gel, PhD, and Megan Jehn, PhD

**April 5, 2021**

# Summary

April 5, 2021				
	Statewide		Maricopa	
	Reported Today	Cumulative	Reported Today	Cumulative
<b>Cases</b>	608	844,910	404	526,070
<b>PCR Tests</b>	5,489	4,079,122	3,426	2,436,581
<b>% Positive</b>	11.1%	20.7%	11.8%	14.3%
<b>Hospitalizations</b>	15	59,119	15	36,499
<b>Deaths</b>	0	16,990	0	9,668

*All data pulled from azdhs.gov. Numbers may not match Maricopa county data.*

- Today's reported statewide case count is 608 with 404 cases (66%) in Maricopa County, slightly higher than population distribution.
- The 7-day average for reported cases continues to trend upward for more than a week and has been above 600 for 4 days.
- Percent positivity continues to rise and appears to be plateaued at about 10% for 2-3 days.
- Hospital utilization remains stable for inpatient beds (similar to early October levels) and ICU beds (similar to mid October levels). ER bed utilization appears slightly higher than last week (still similar to early November levels).
- Bed usage for COVID-19 is 6% of inpatient beds and 9% of ICU beds statewide. Current hospital utilization is 88% for inpatient beds and 84% for ICU beds including COVID and non-COVID utilization.
- Hospital mortality continues to slowly increase, reflecting the high acuity of patients hospitalized with COVID-19 despite improved clinical treatment options and stable case hospitalization rates. Overall case mortality remains stable. COVID-19 remains the leading cause of death in Arizona in a 12-month period.

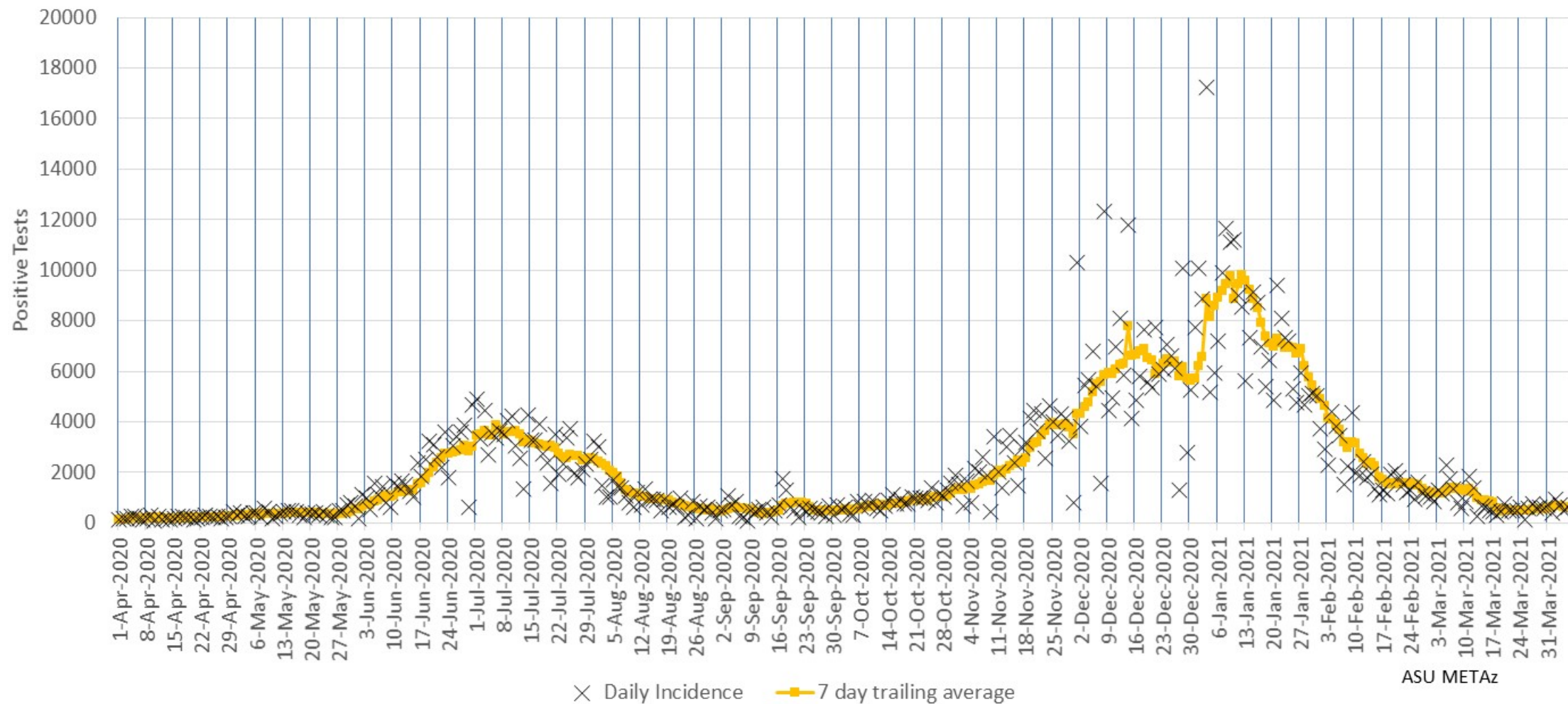
# Arizona Statewide Analysis



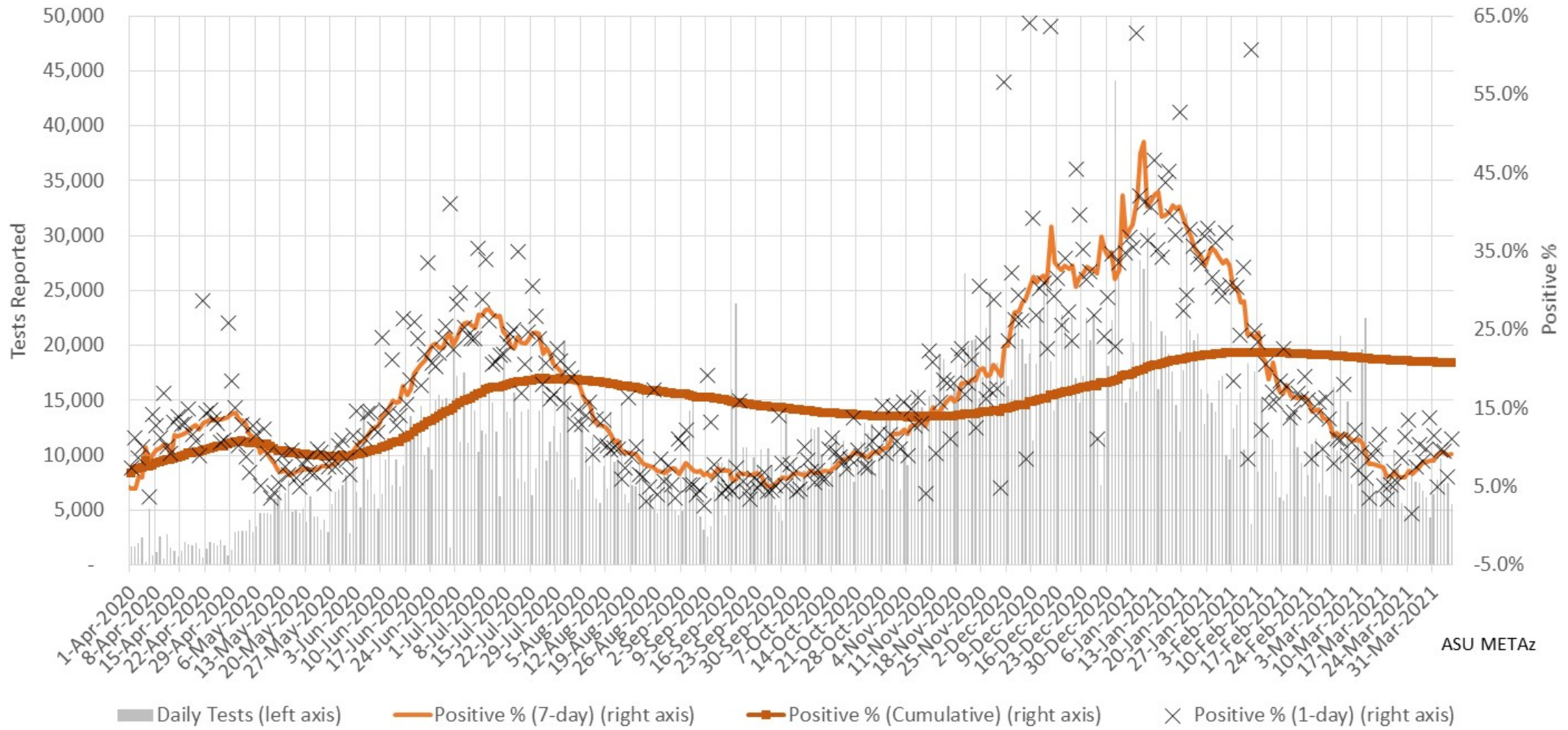
# Epidemiology



### Arizona Statewide Daily COVID-19 Positive Tests Results Reported (confirmed incidence)



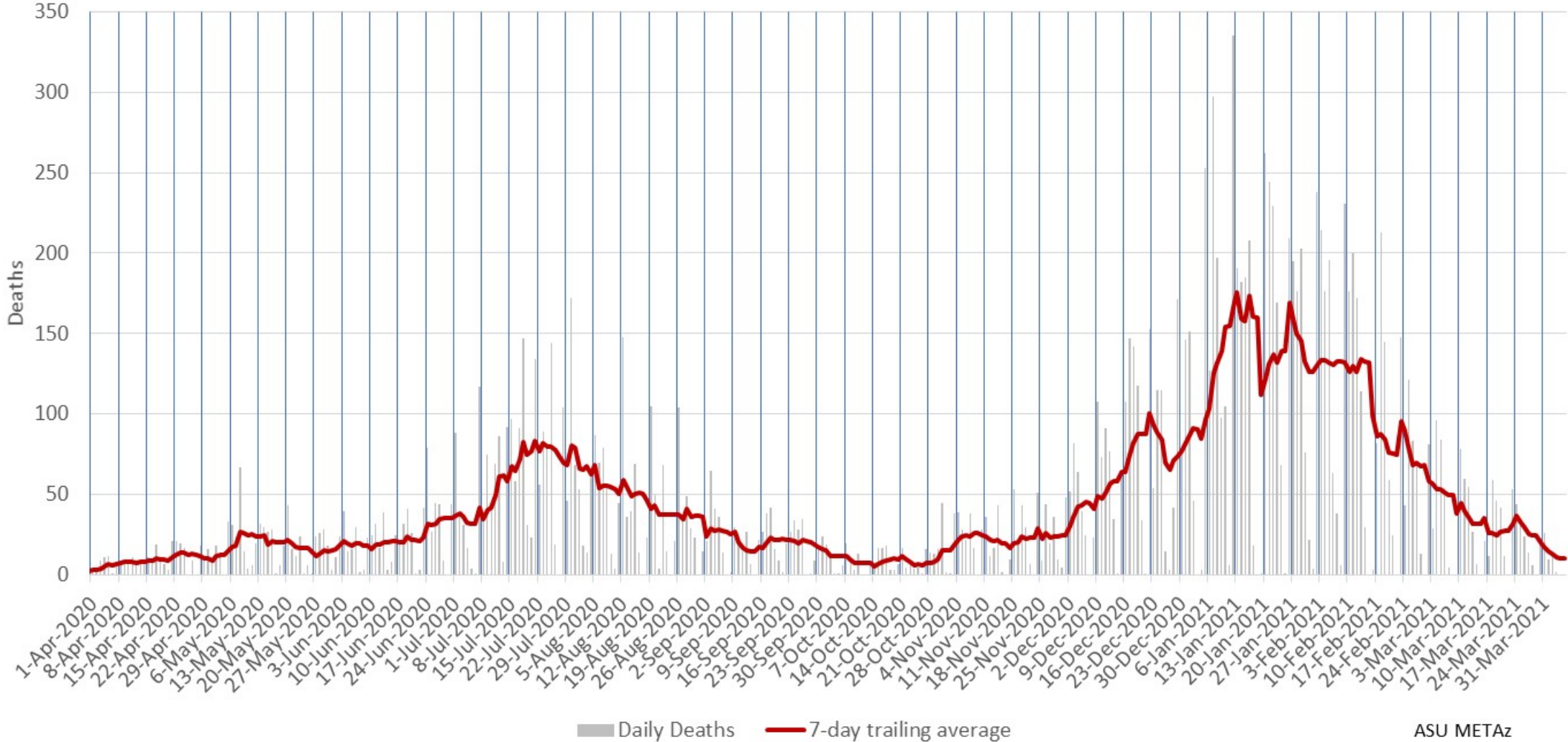
### Arizona Statewide Rolling weekly positive COVID-19 test rate



ASU METAz

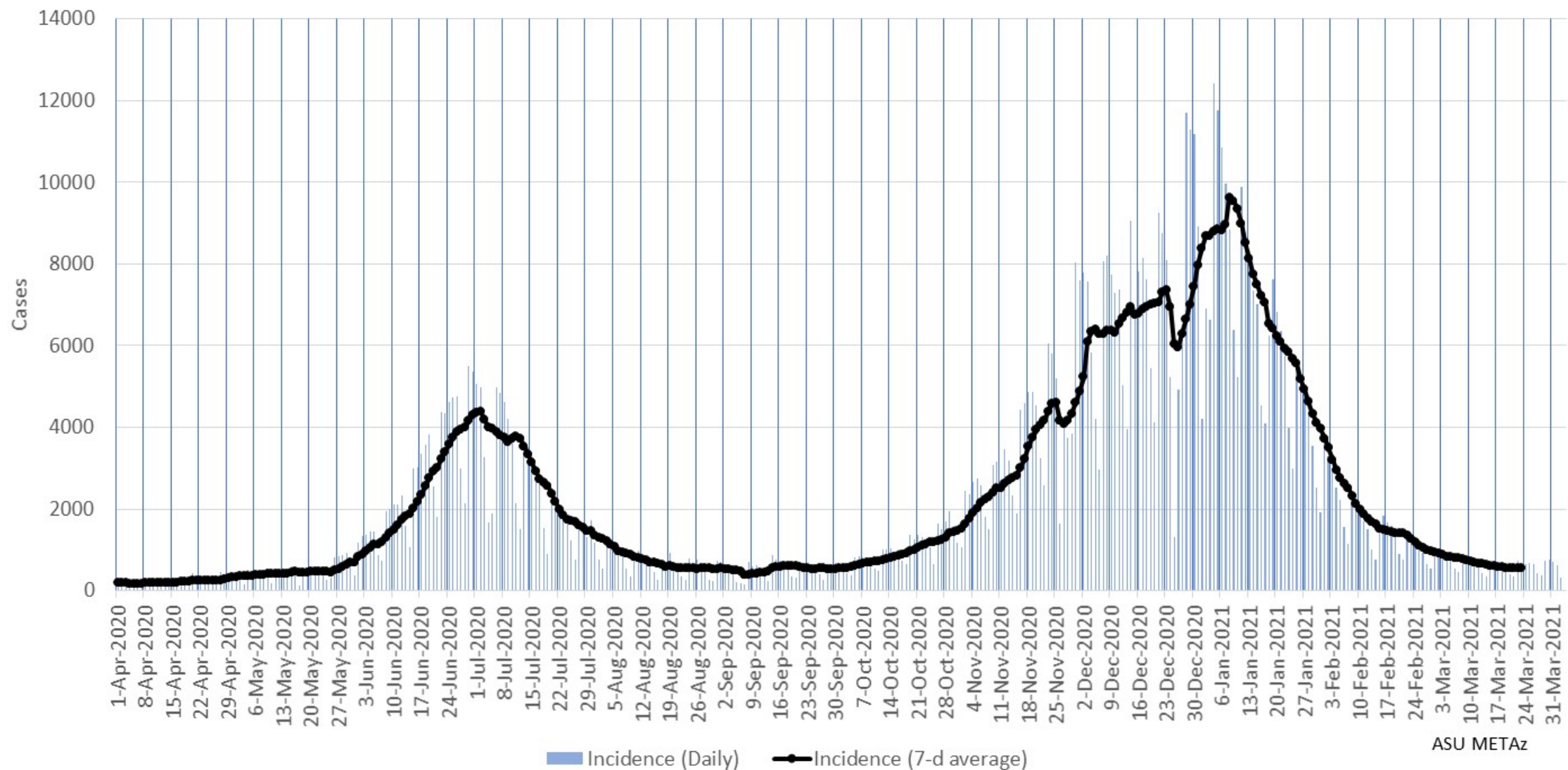


### Arizona Statewide Daily COVID-19 Deaths (by date of reporting)



ASU METAz

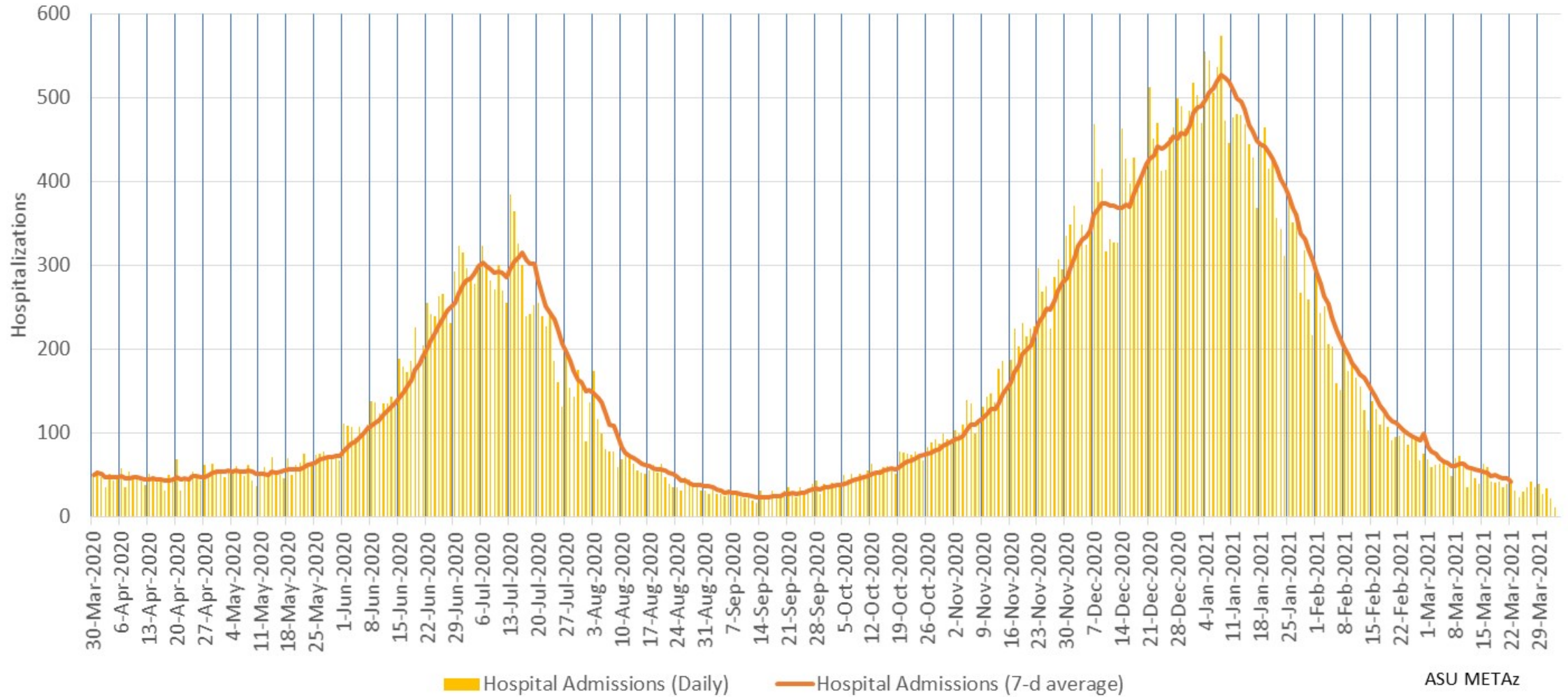
### Arizona Statewide Daily COVID-19 Cases by Date of Sample Collection (Epi Curve)



ASU METAz

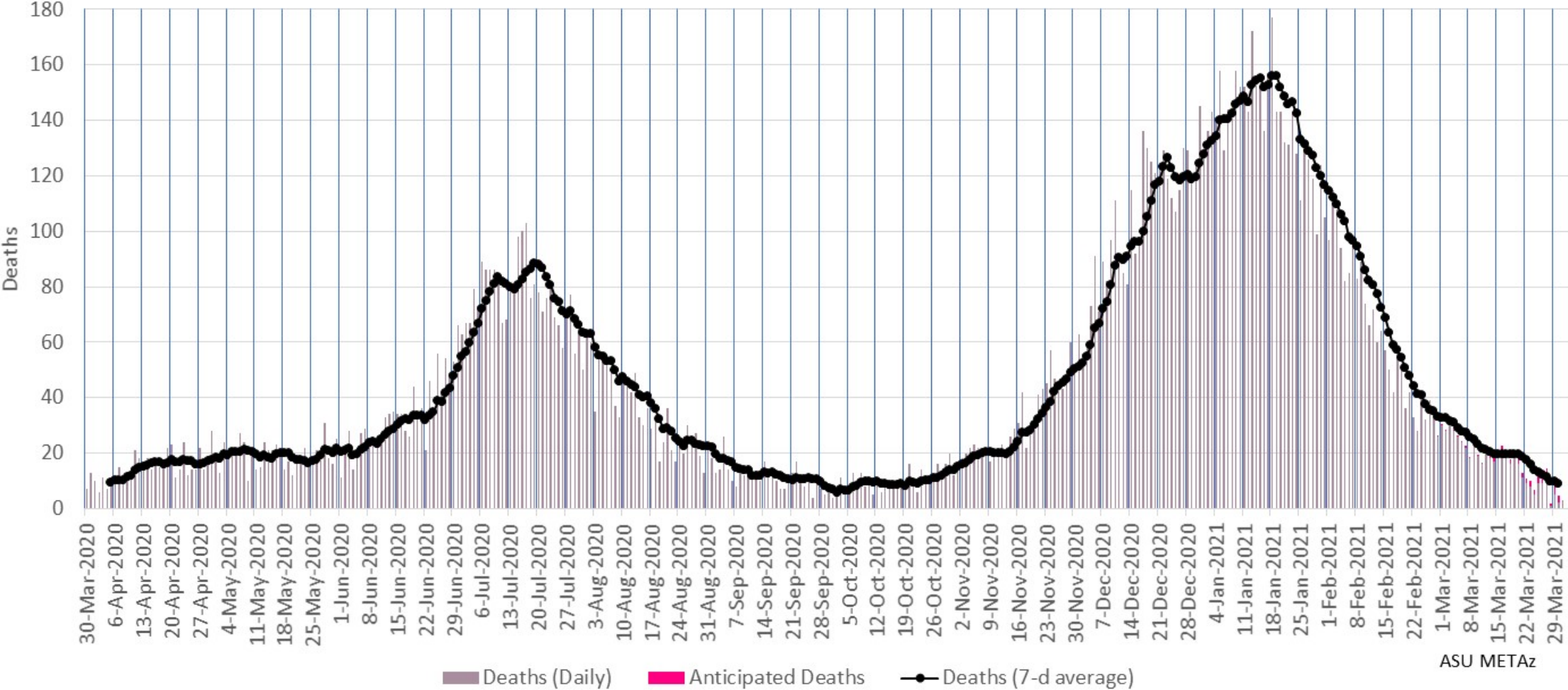


### Arizona Statewide Daily COVID-19 Hospitalizations by Date of Hospitalization (Epi Curve)



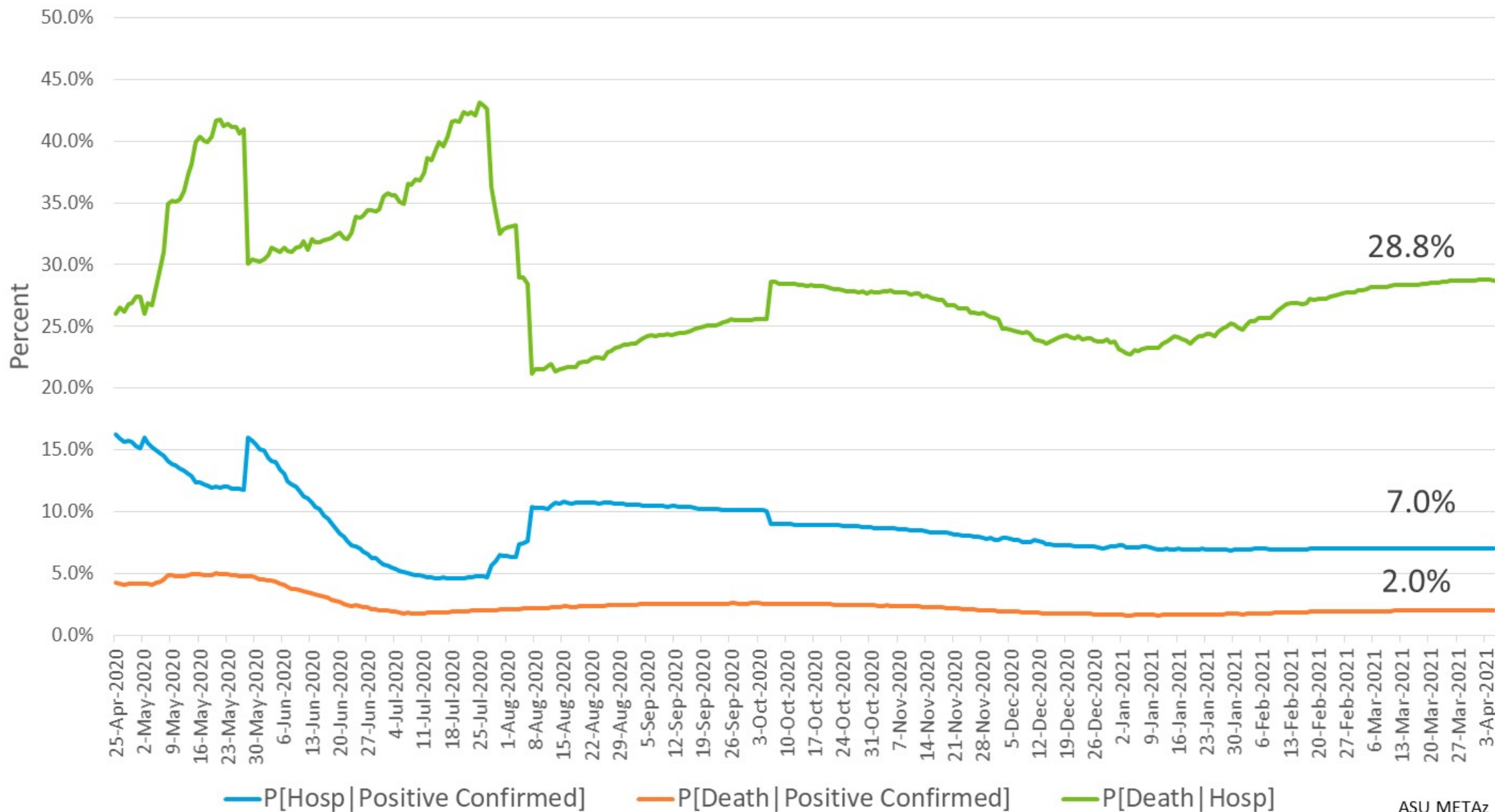
ASU METAz

### Arizona Statewide Daily COVID-19 Deaths by Date of Death (Epi Curve)



ASU METAz

# Arizona Statewide Case Fatality and Hospitalization Rates

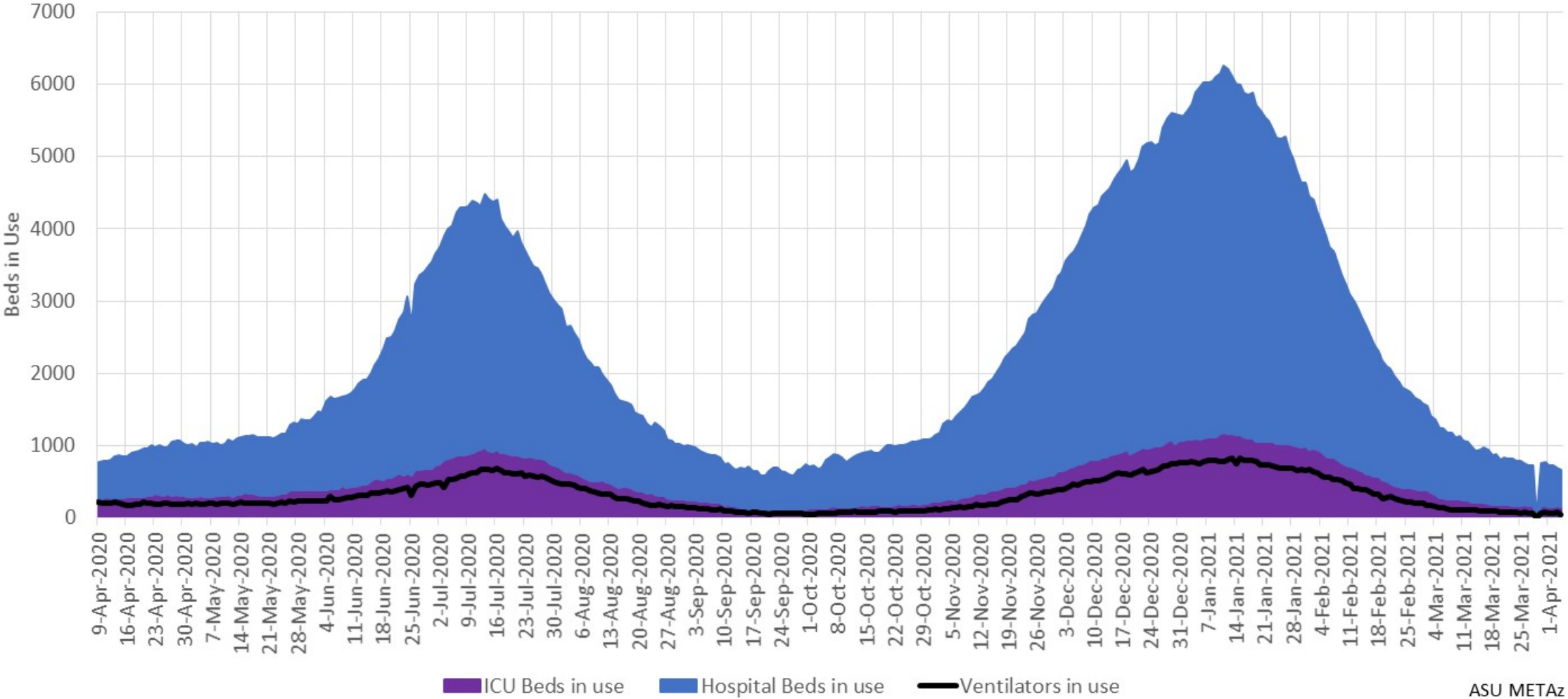


ASU METaz

# Hospital Usage



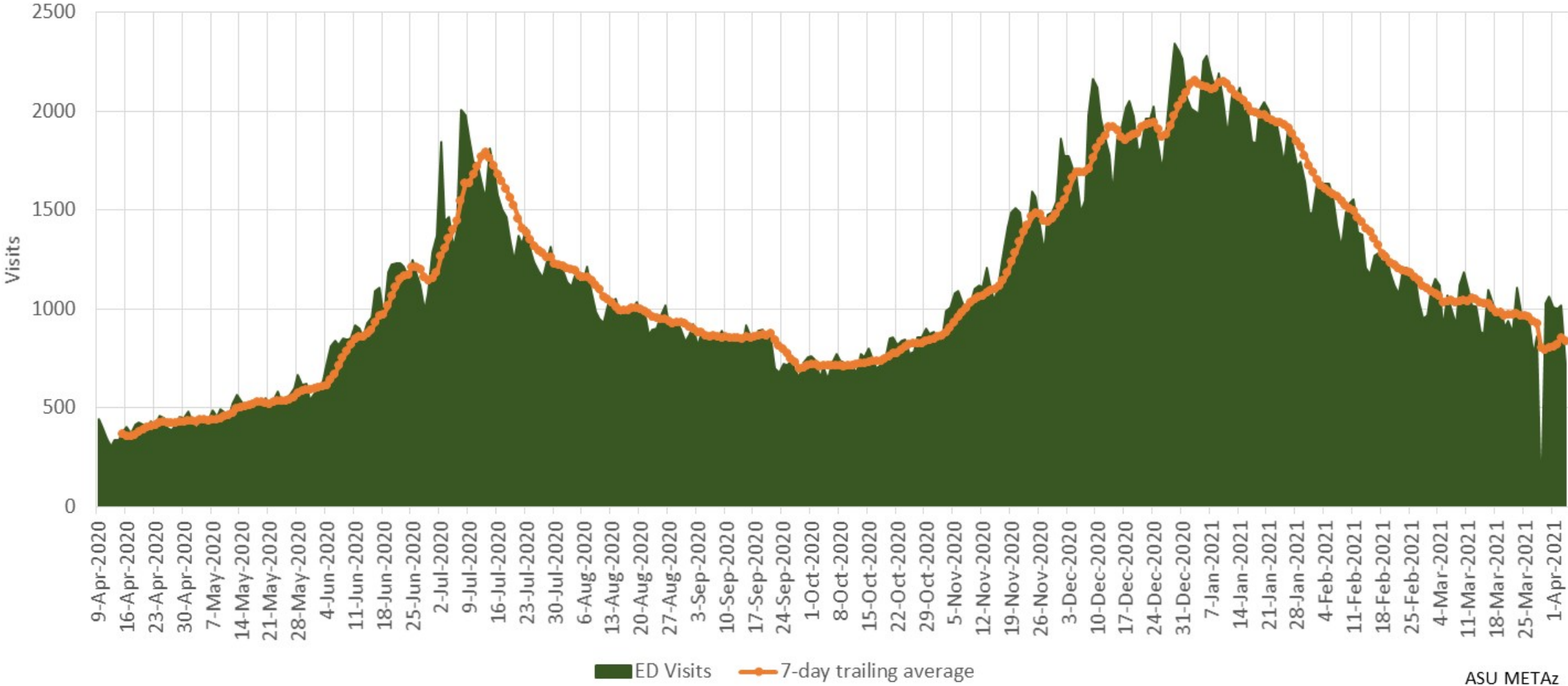
# Arizona Statewide COVID-19 Hospital Resource Utilization



ASU METaz



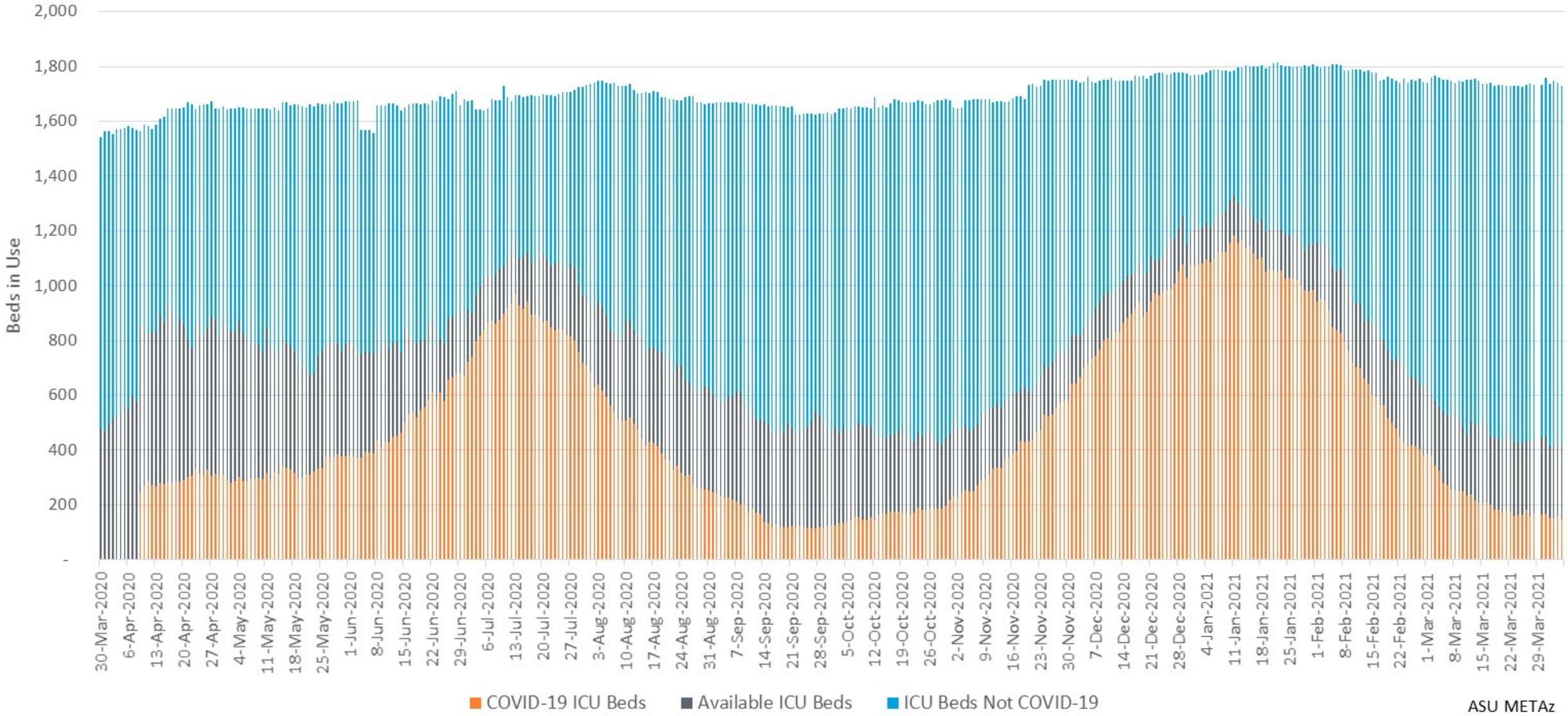
### Arizona Statewide COVID-19 Emergency Department Visits



ASU METAz

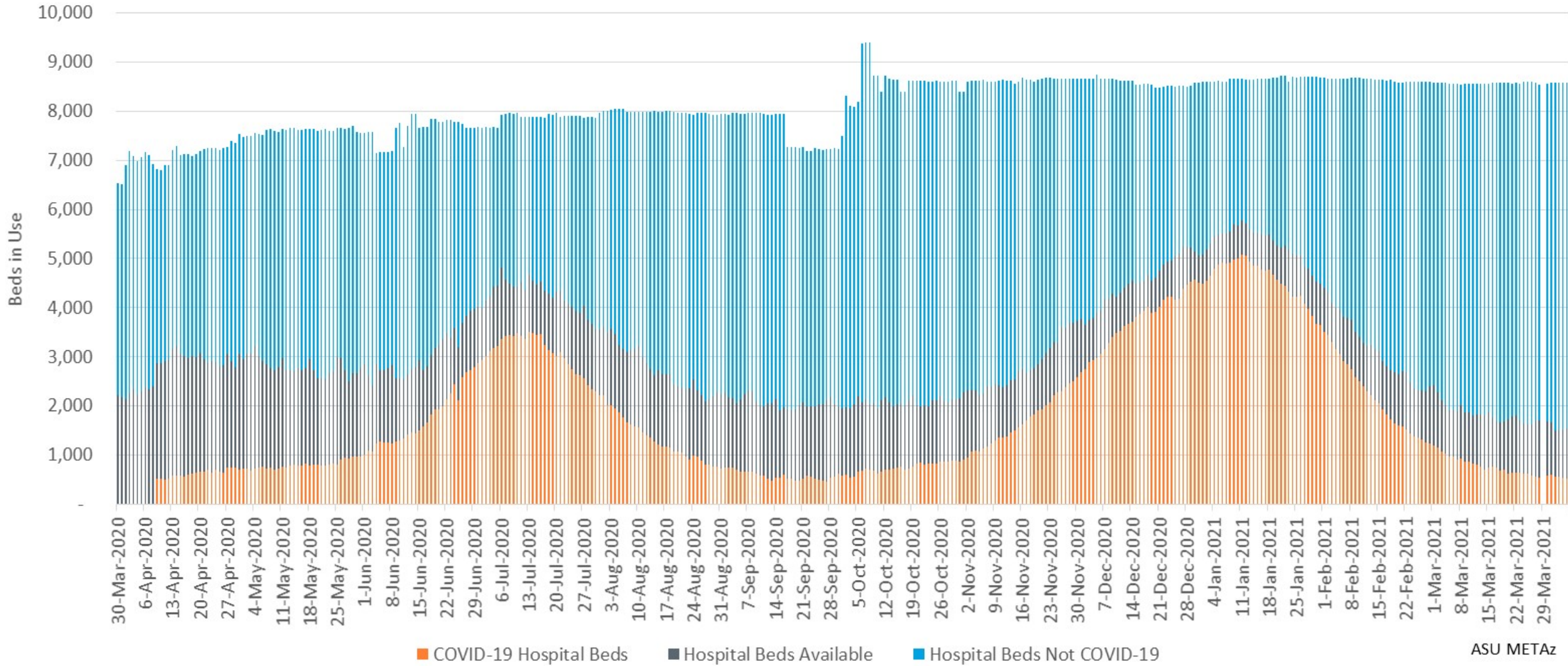


# Arizona Statewide ICU Bed Usage



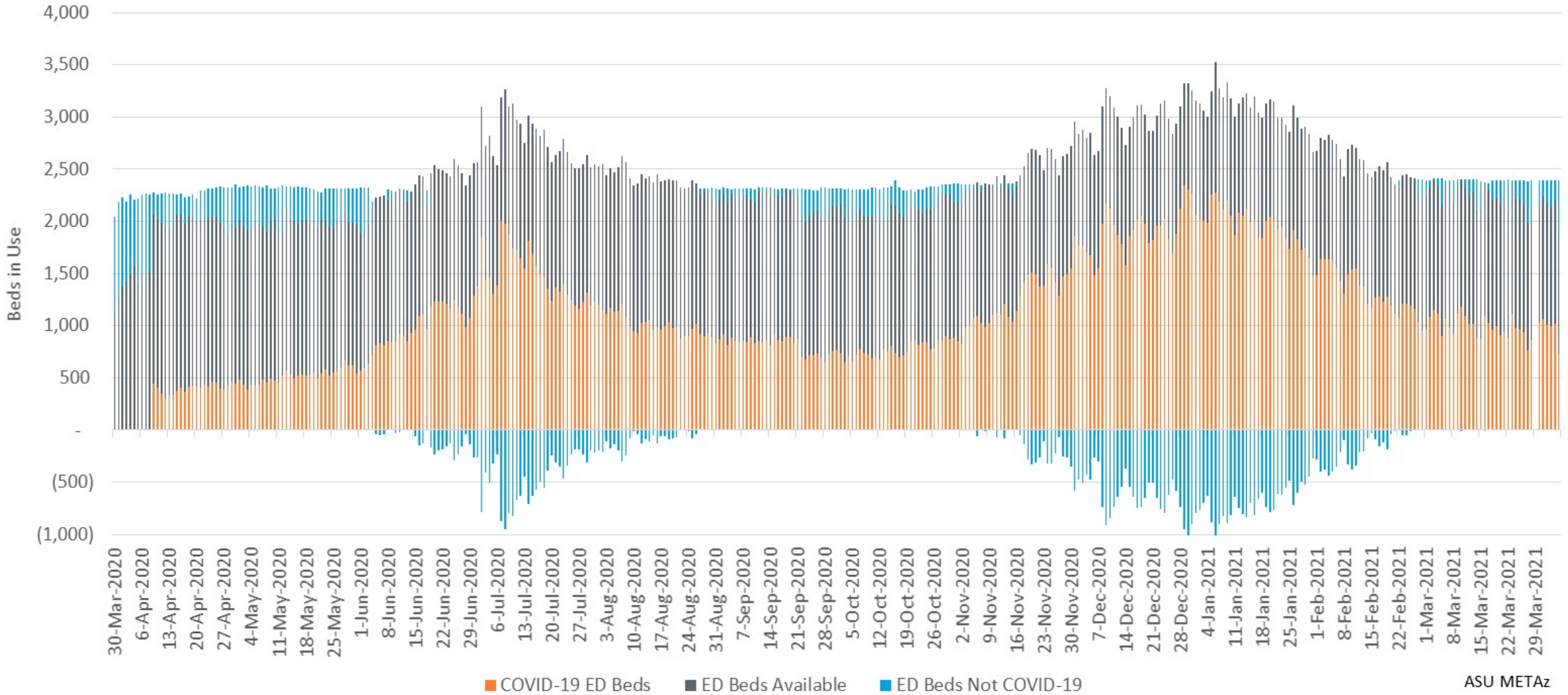
ASU METAz

# Arizona Statewide Inpatient Bed Usage



ASU METAz

# Arizona Statewide ED Bed Usage



Where blue bars are below zero, COVID ED patients exceeded total reported ED bed usage