



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

March 29, 2021

Summary

March 29, 2021				
	Statewide		Maricopa	
	Reported Today	Cumulative	Reported Today	Cumulative
Cases	604	840,492	384	523,808
PCR Tests	6,186	4,030,610	3,494	2,408,720
% Positive	9.8%	20.9%	11.0%	14.4%
Hospitalizations	17	58,946	11	36,388
Deaths	0	16,918	0	9,644

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

- Today's reported statewide case count is 604 with 384 cases (63%) in Maricopa County, equivalent to population distribution.
- The 7-day average for reported cases has been trending slightly upward for the past 4 days and is now 536.
- After more than a month of trending downward, percent positivity has begun to rise and is now approaching 10%.
- Hospital utilization continues to decline slowly for inpatient beds (similar to early October levels) and remains stable for ICU beds (similar to mid October levels) and ER beds (similar to early November levels).
- Bed usage for COVID-19 is 6% of inpatient beds and 10% of ICU beds statewide. Current hospital utilization is 86% 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. Overall case mortality remains stable. COVID-19 remains the leading cause of death in Arizona in a 12-month period.

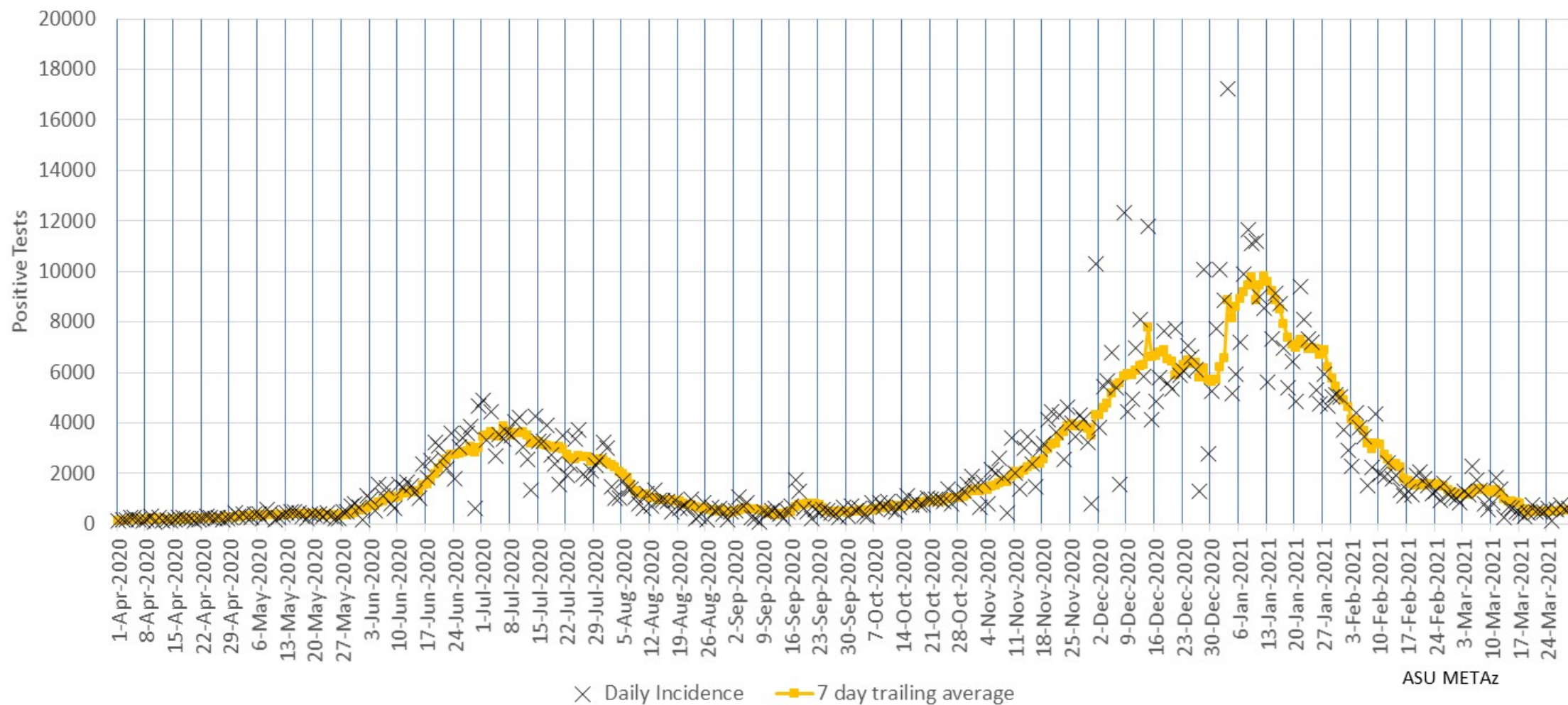
Arizona Statewide Analysis



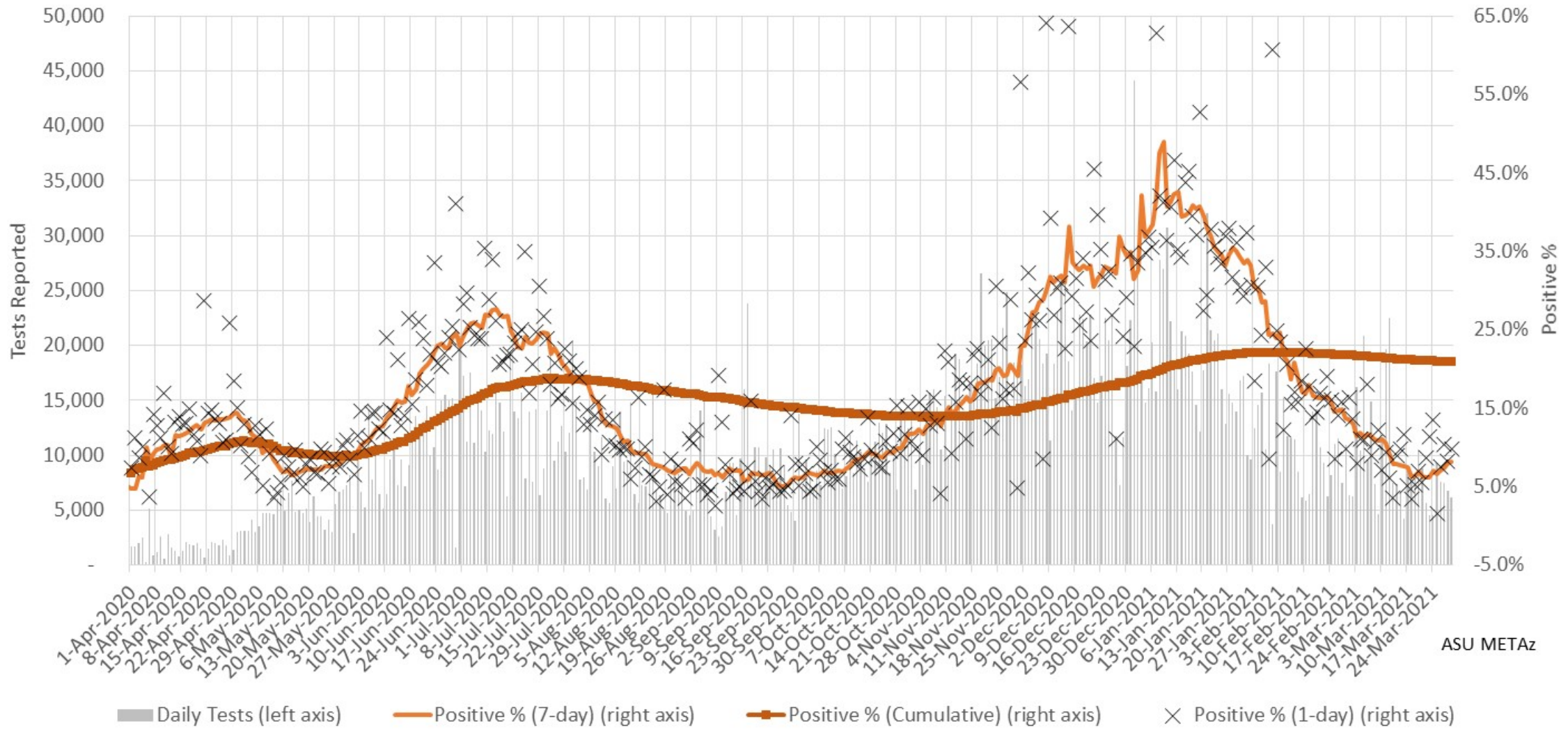
Epidemiology



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



Arizona Statewide Rolling weekly positive COVID-19 test rate

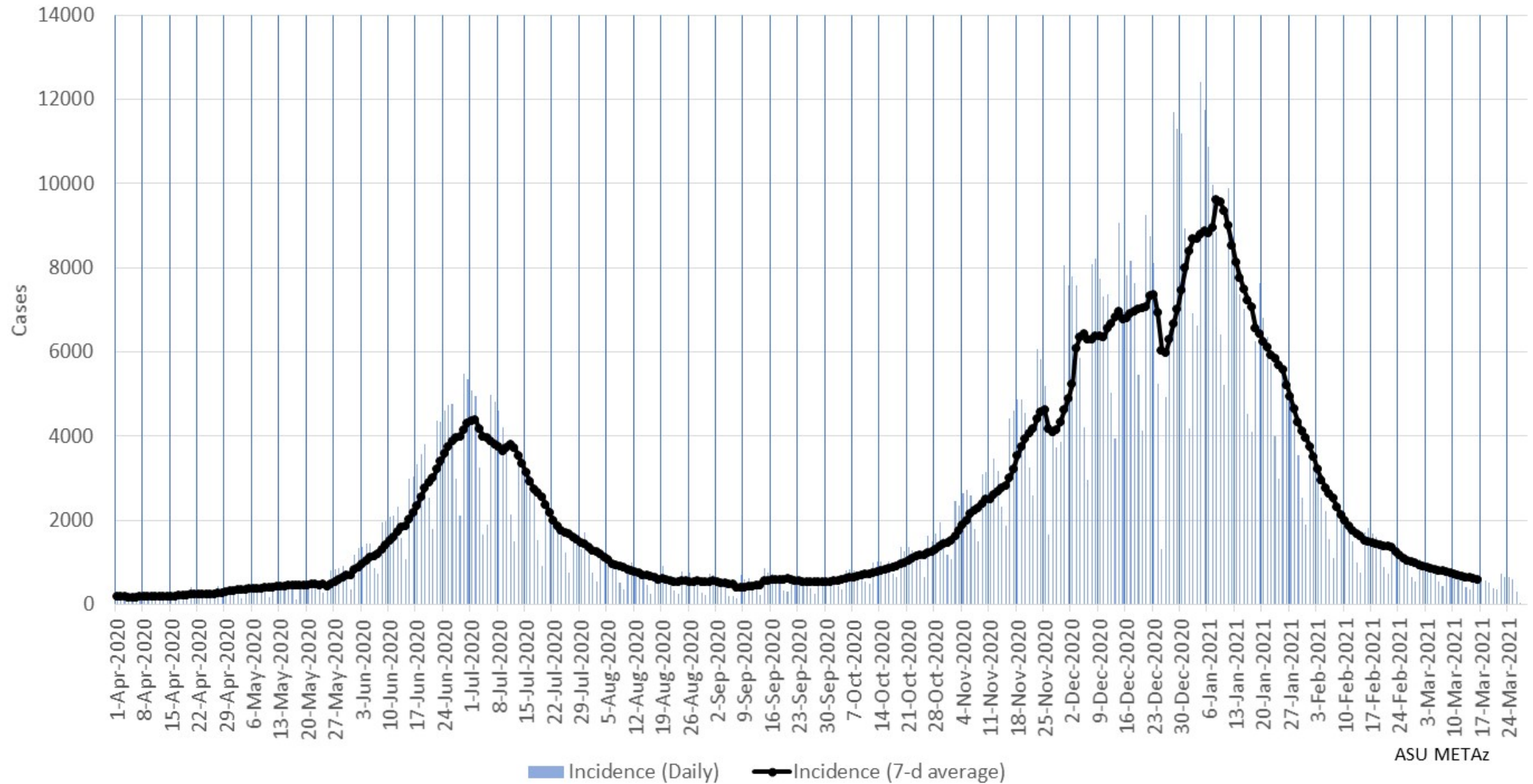


ASU METAz

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

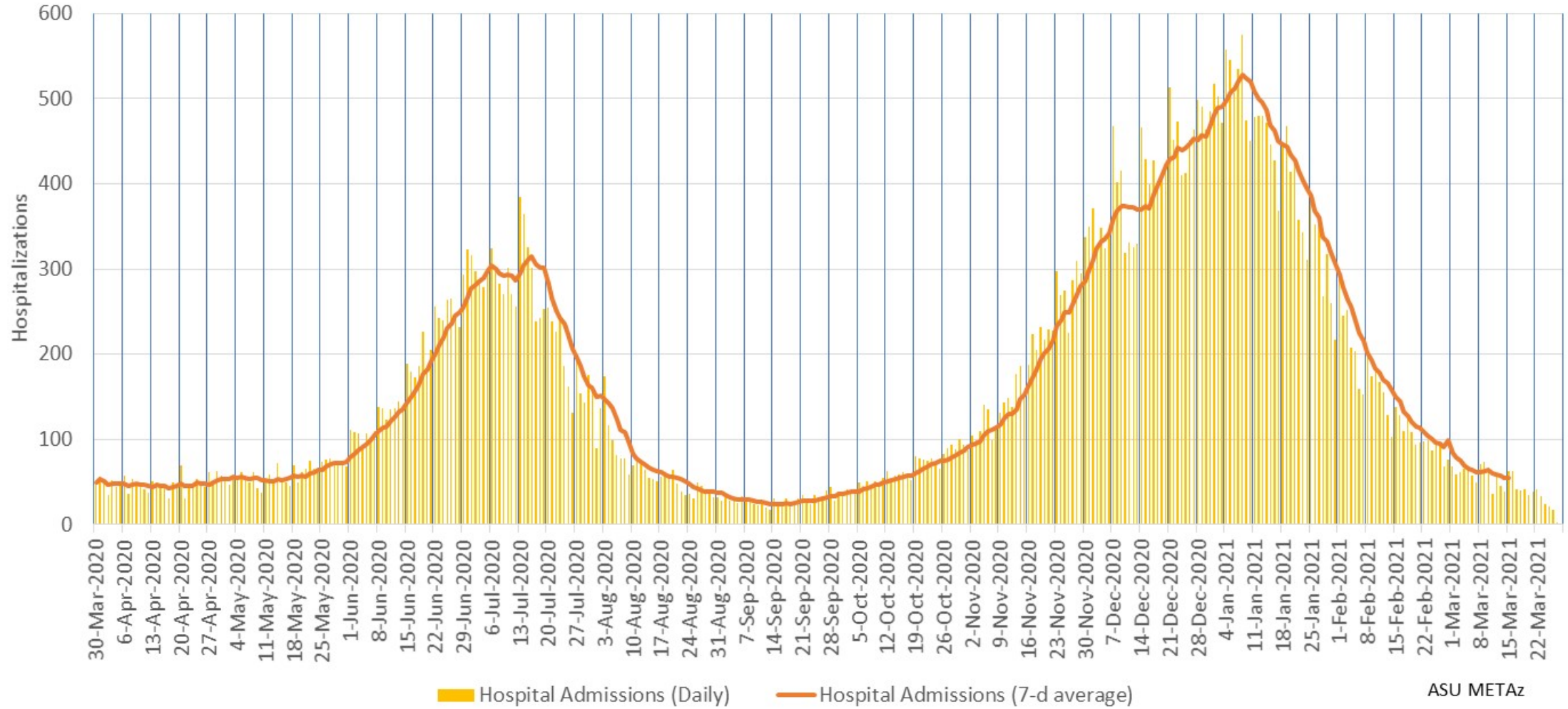


Arizona Statewide Daily COVID-19 Cases by Date of Sample Collection (Epi Curve)

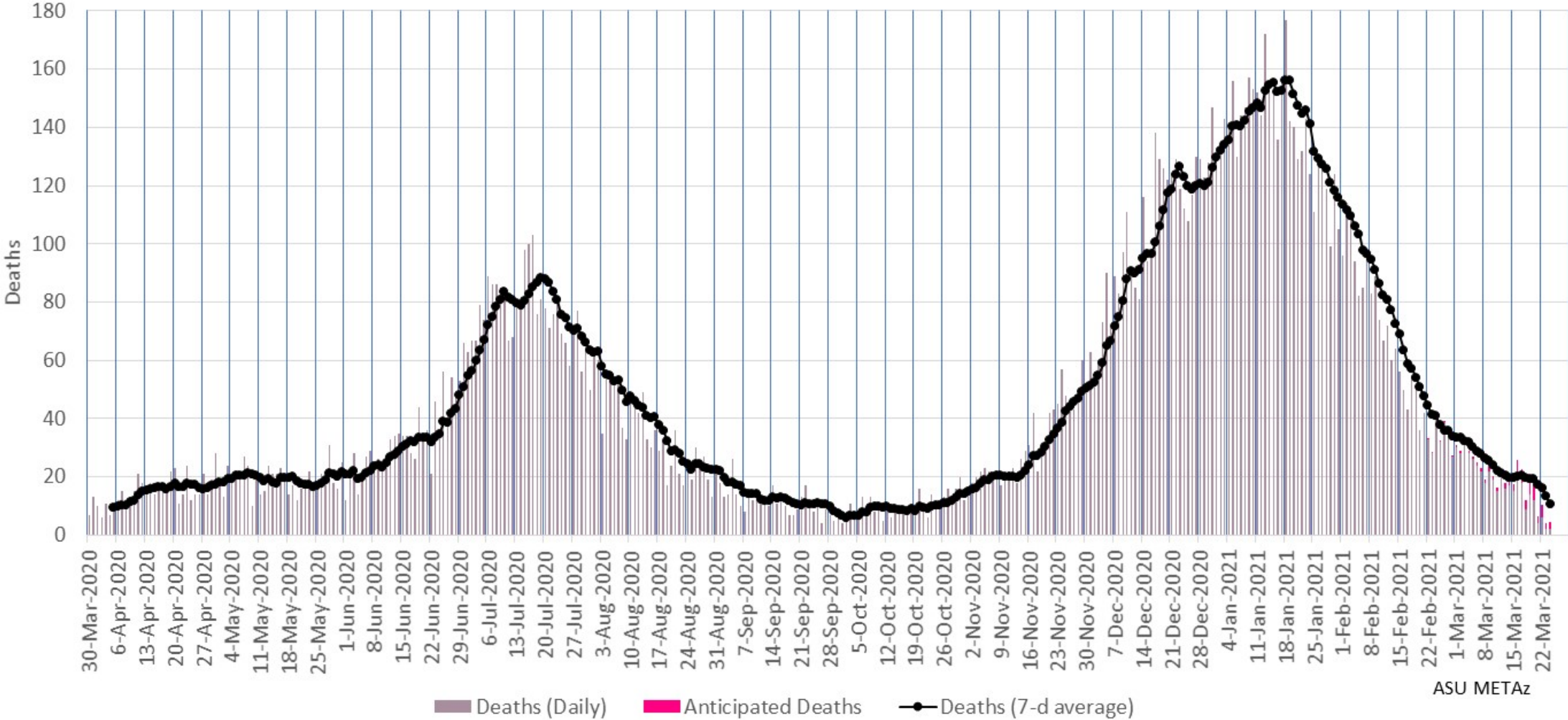


ASU METaz

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

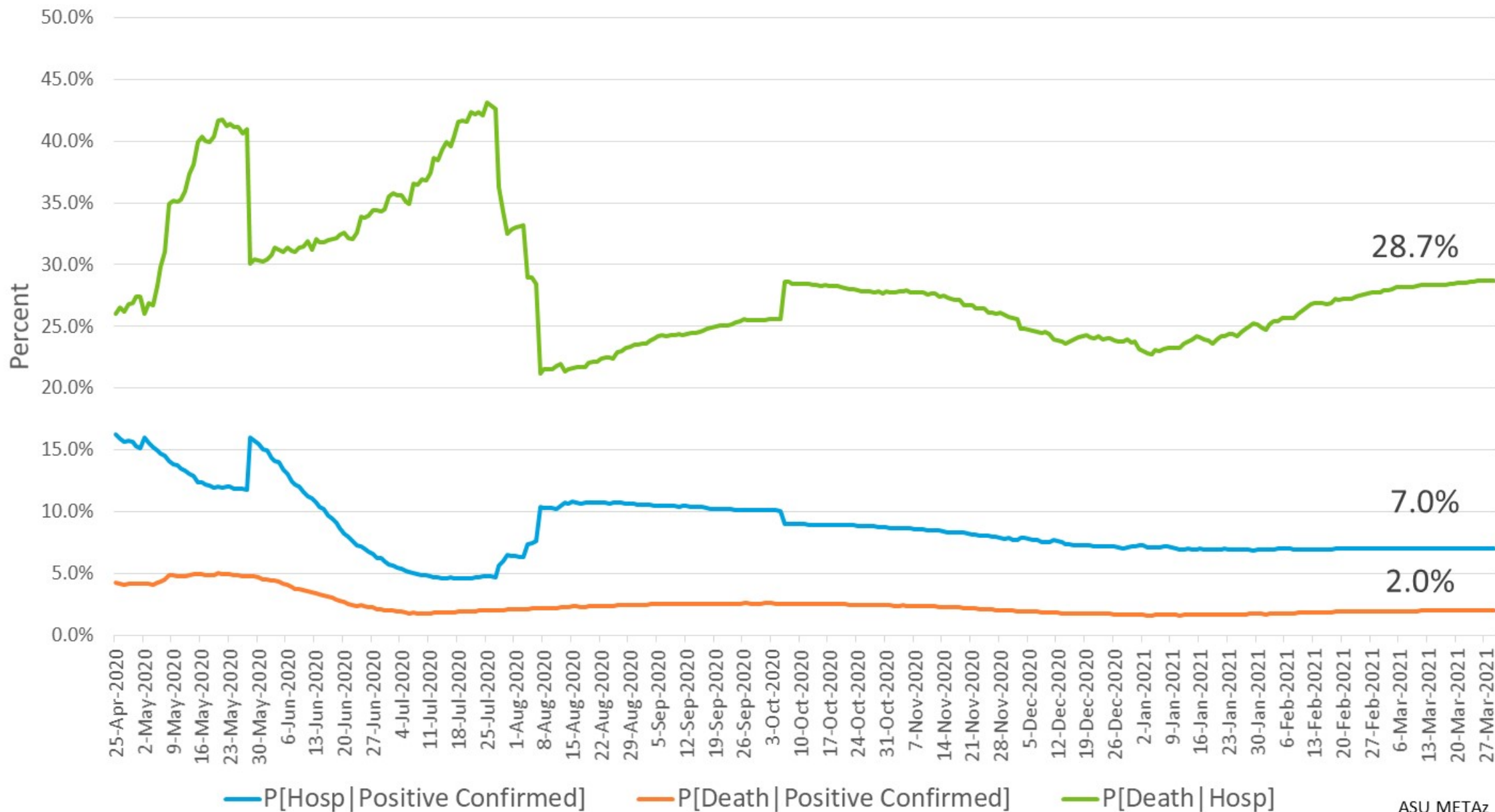


Arizona Statewide Daily COVID-19 Deaths by Date of Death (Epi Curve)



ASU METAz

Arizona Statewide Case Fatality and Hospitalization Rates

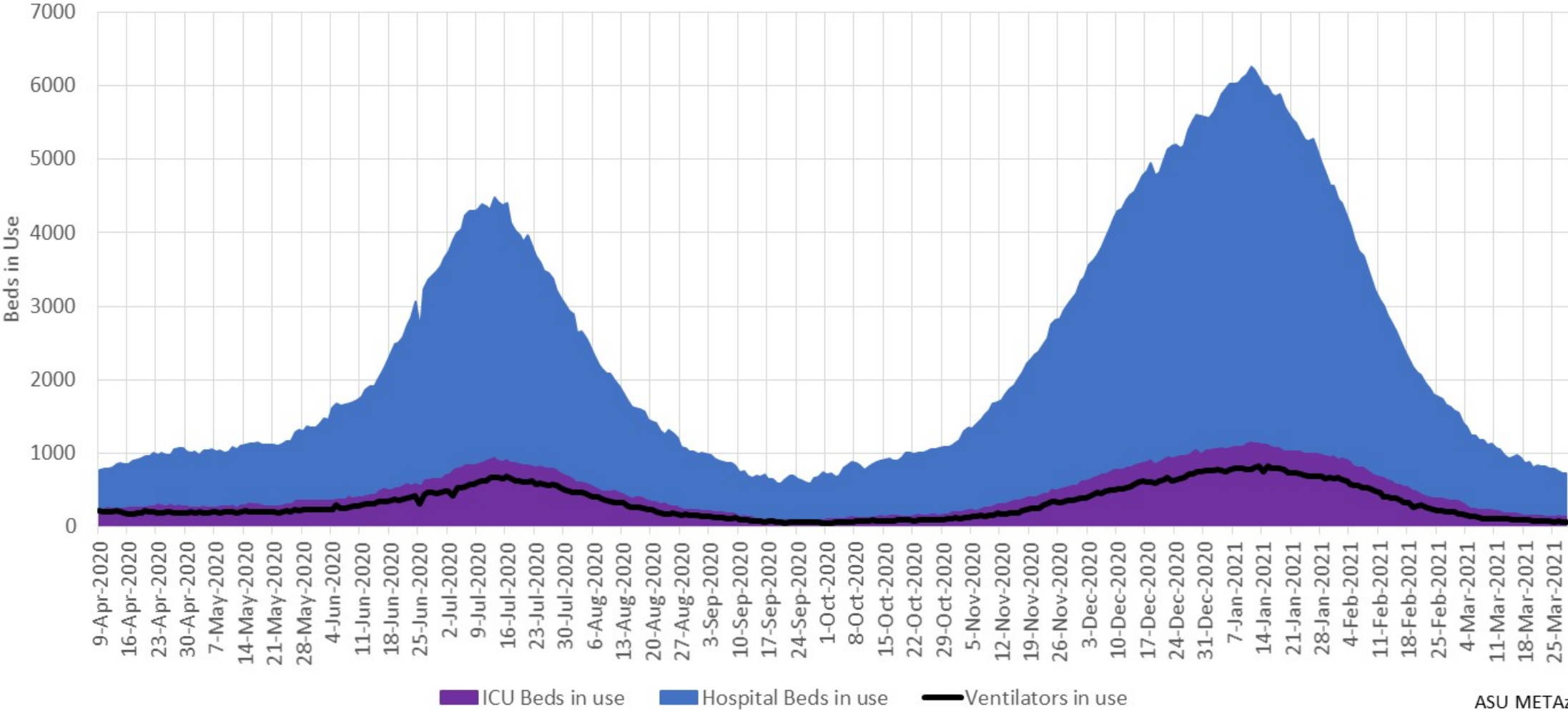


ASU METAz

Hospital Usage

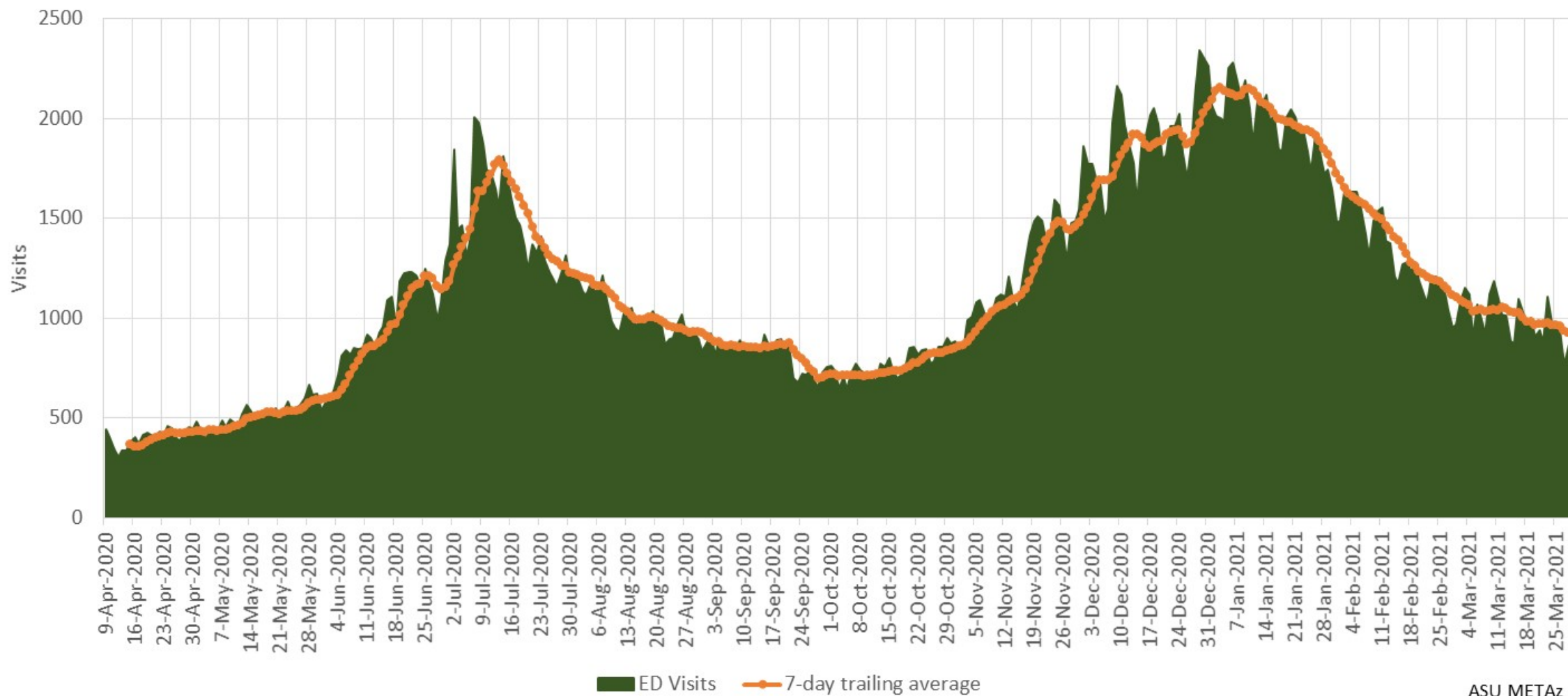


Arizona Statewide COVID-19 Hospital Resource Utilization



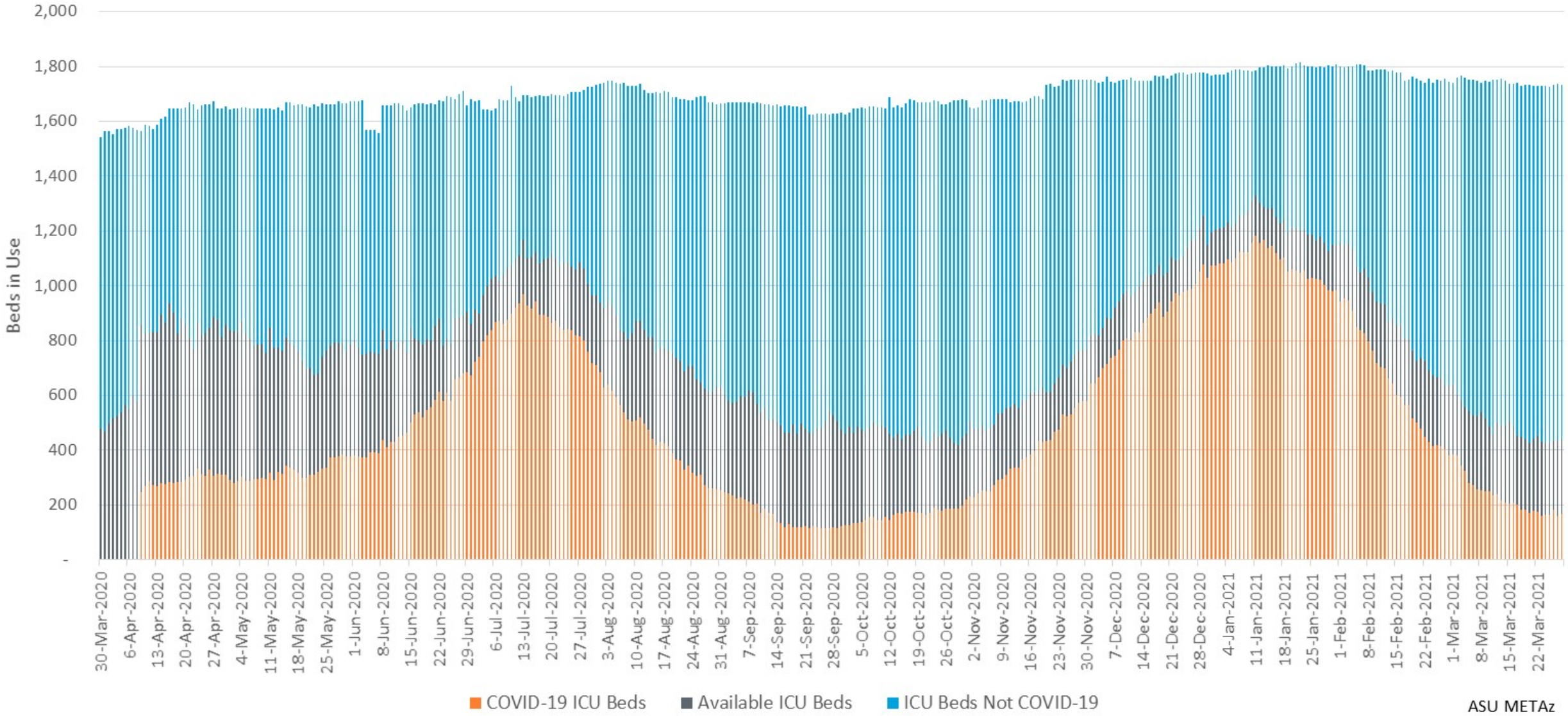
ASU METAz

Arizona Statewide COVID-19 Emergency Department Visits



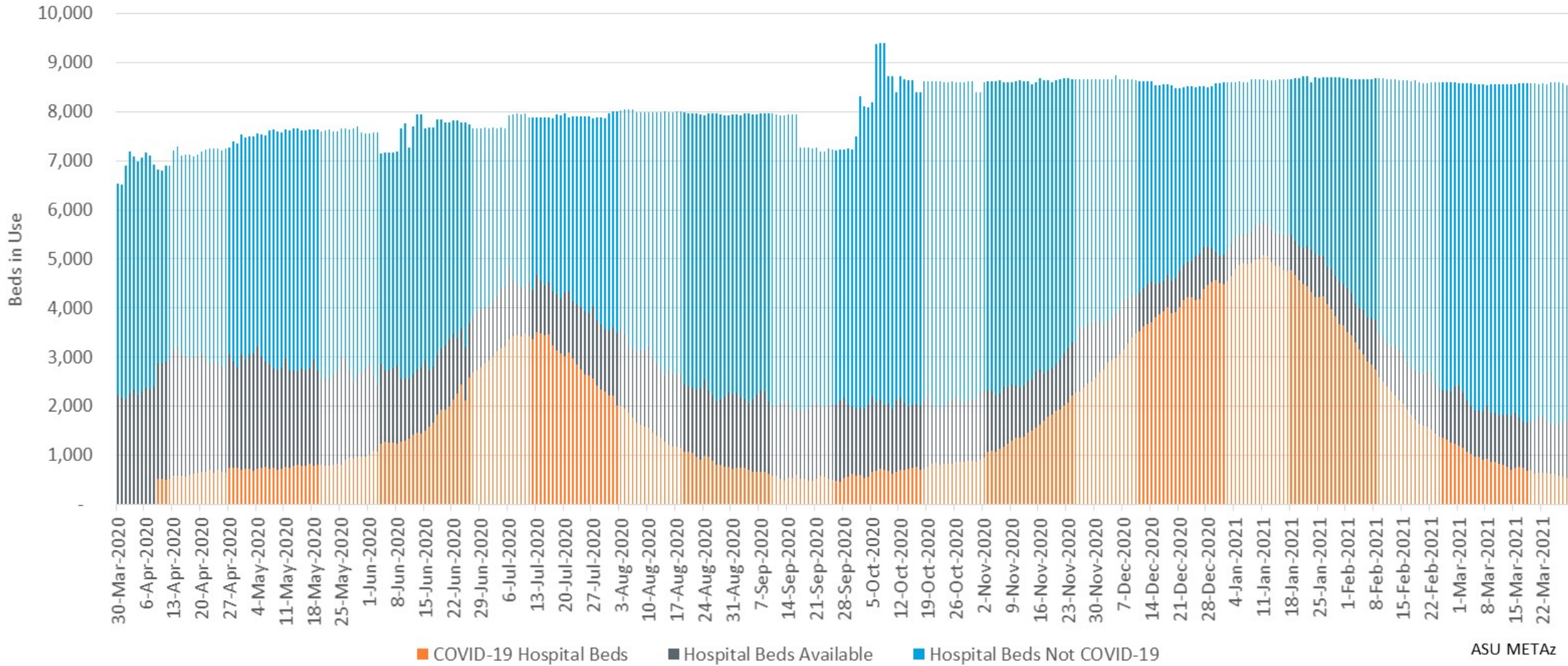
ASU METaz

Arizona Statewide ICU Bed Usage



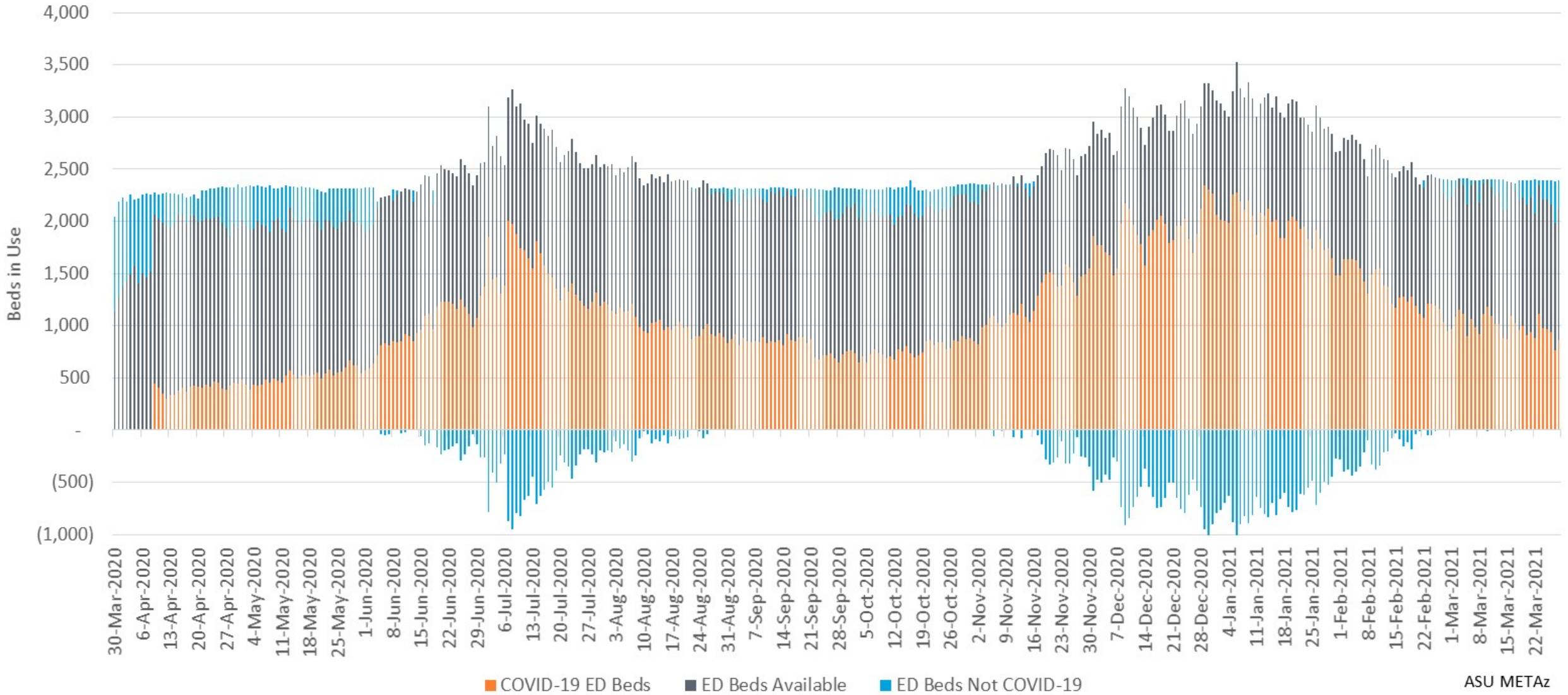
ASU METAz

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