
COVID-19 Cases, Testing, and Variants

*House Committee on Health Care,
Subcommittee on COVID-19*

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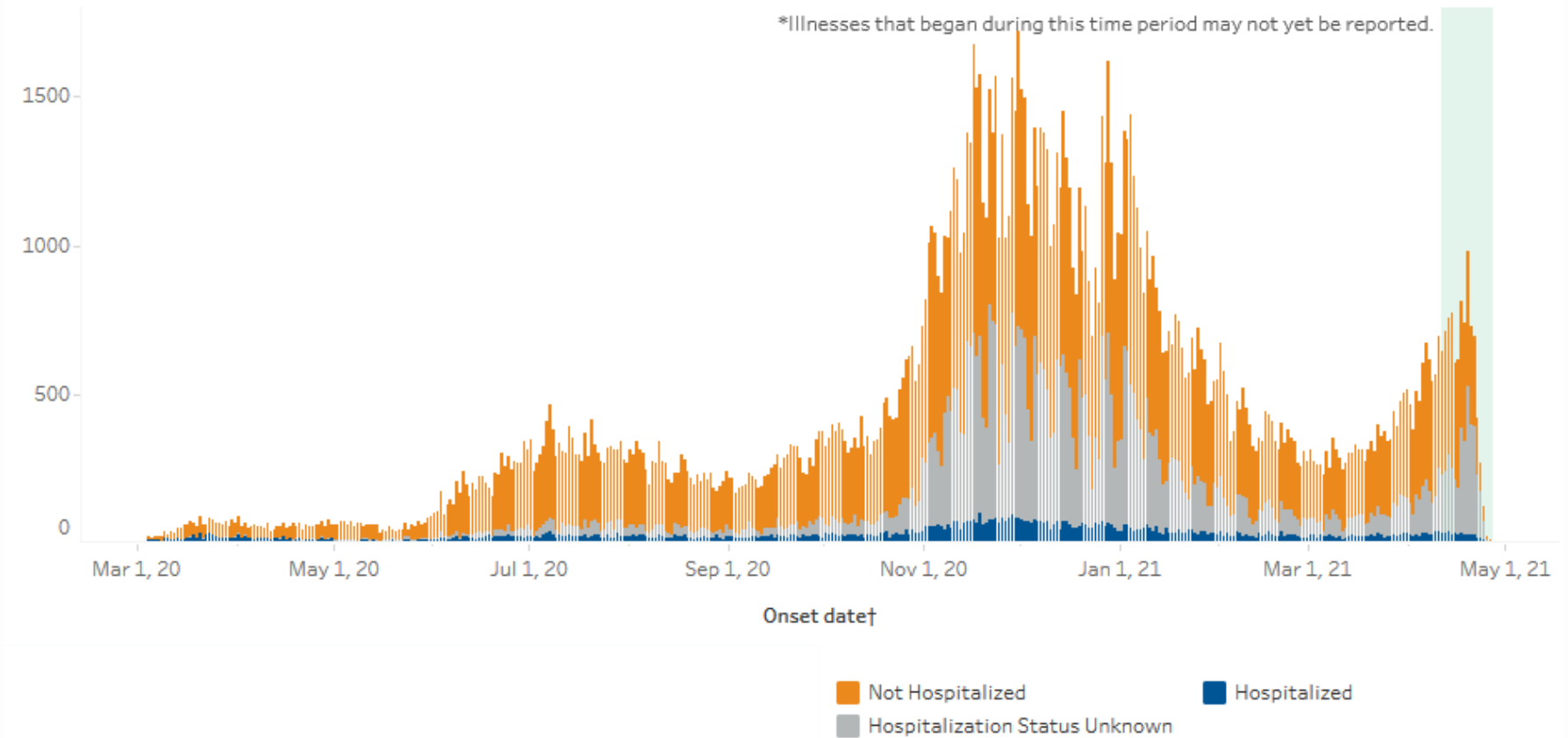
DATA UPDATE

COVID-19 Cases in Oregon

Oregon's Epi Curve: COVID-19 cases

This chart shows the number of Oregonians who have been identified as COVID-19 cases and whether they were ever hospitalized for their illness.†

Total Cases	Hospitalized	Not Hospitalized	Hospitalization Status Unknown
182,040	10,040	122,231	49,769

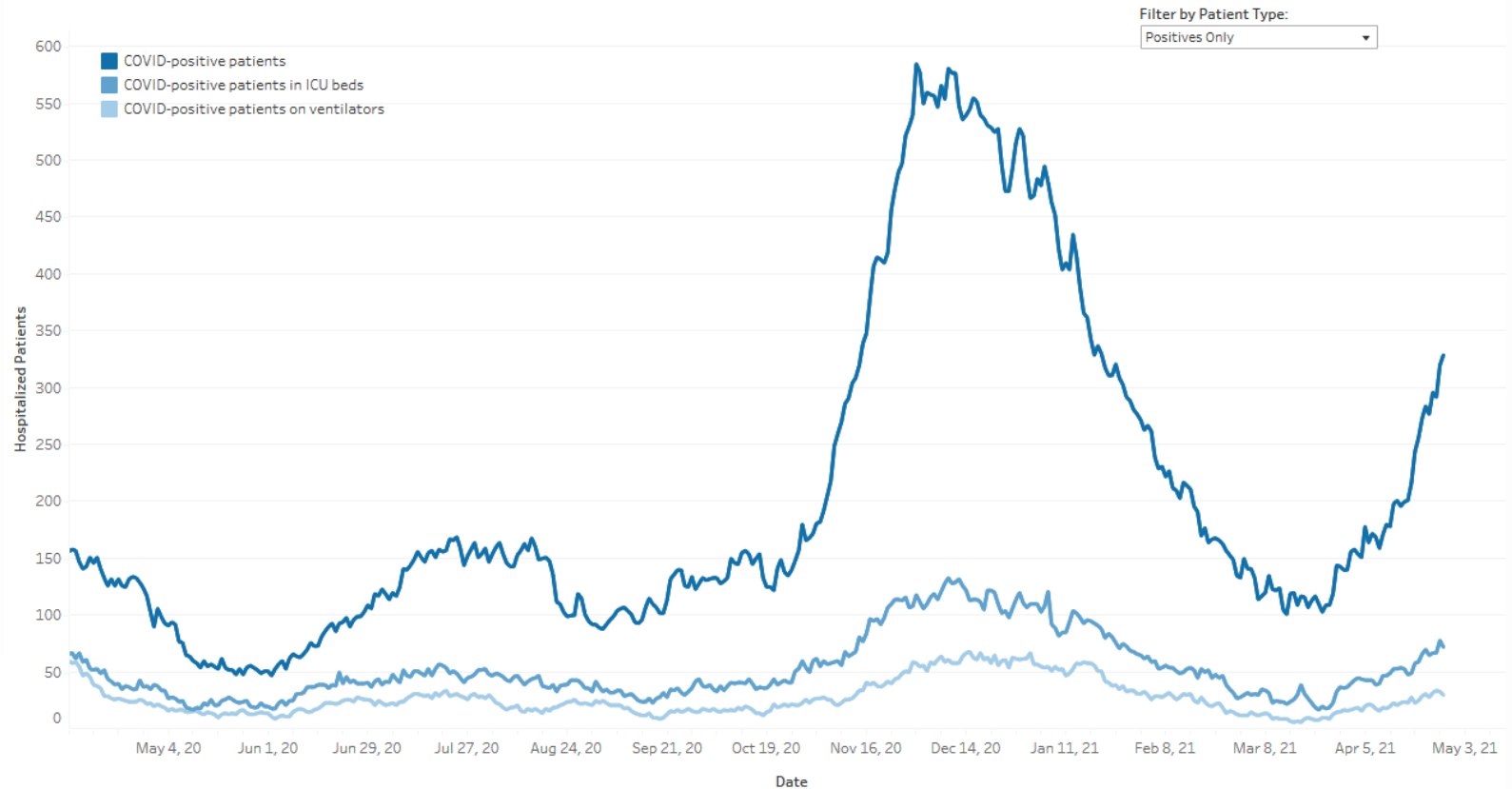


https://public.tableau.com/profile/oregon.health.authority.covid.19#!/vizhome/OregonHealthAuthorityCOVID-19DataDashboard/COVID-19EPICases?display_count=y&toolbar=n&origin=viz_share_link&showShareOptions=false
Accessed 04.27.2021

Hospitalizations by Severity

Oregon's Hospitalization Trends by Severity

This chart shows daily COVID-19 hospitalizations and whether patients were in the ICU or on ventilators, as reported to Oregon's Hospital Capacity Web System (HOSCAP)¹. It initially displays only those who tested positive, but you can view all suspected or confirmed patients² using the dropdown menu below. Click on a legend item to highlight it in the chart (ctrl+click to select multiple items).



<https://public.tableau.com/profile/oregon.health.authority.covid.19#!/vizhome/OregonCOVID-19HospitalCapacity/BedAvailabilitybyRegion>
Accessed 04.27.2021

Weekly Trends

Summary Statistics For the Previous 6 MMWR Weeks - All

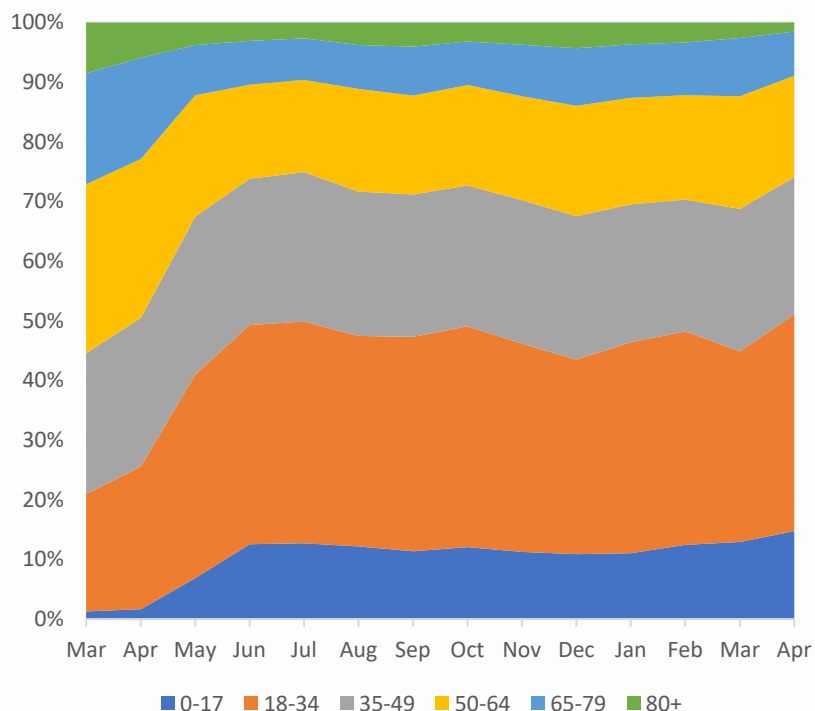
Week of True Case Date	Total New Cases	Average New Cases Per Day	% Cases Not Traced to a Known Source
3/14/21	1,966	281	50.8%
3/21/21	2,431	347	54.1%
3/28/21	2,920	417	52.3%
4/4/21	3,673	525	55.9%
4/11/21	4,579	654	56.5%
4/18/21	5,591	799	62.9%

https://tableau.dhsoha.state.or.us/t/OHA/views/InternalStakeholdersDashboardFinal/InternalDashboard?iframeSizedToWindow=true&:embed=y&:showAppBanner=false&:display_count=no&:showVizHome=no&:origin=viz_share_link#1

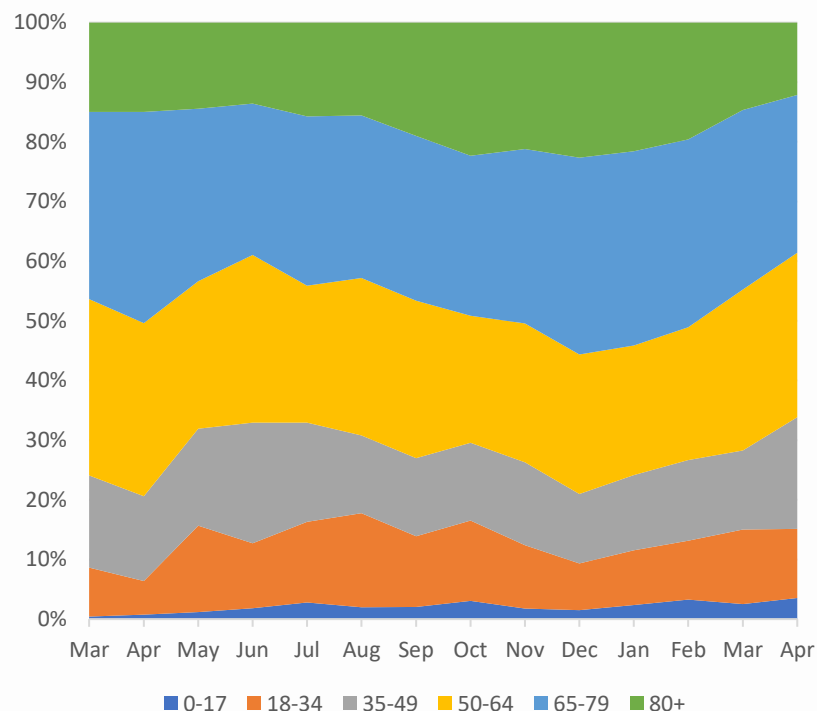
Accessed 04.27.2021

Statewide Cases & Hospitalizations by Age

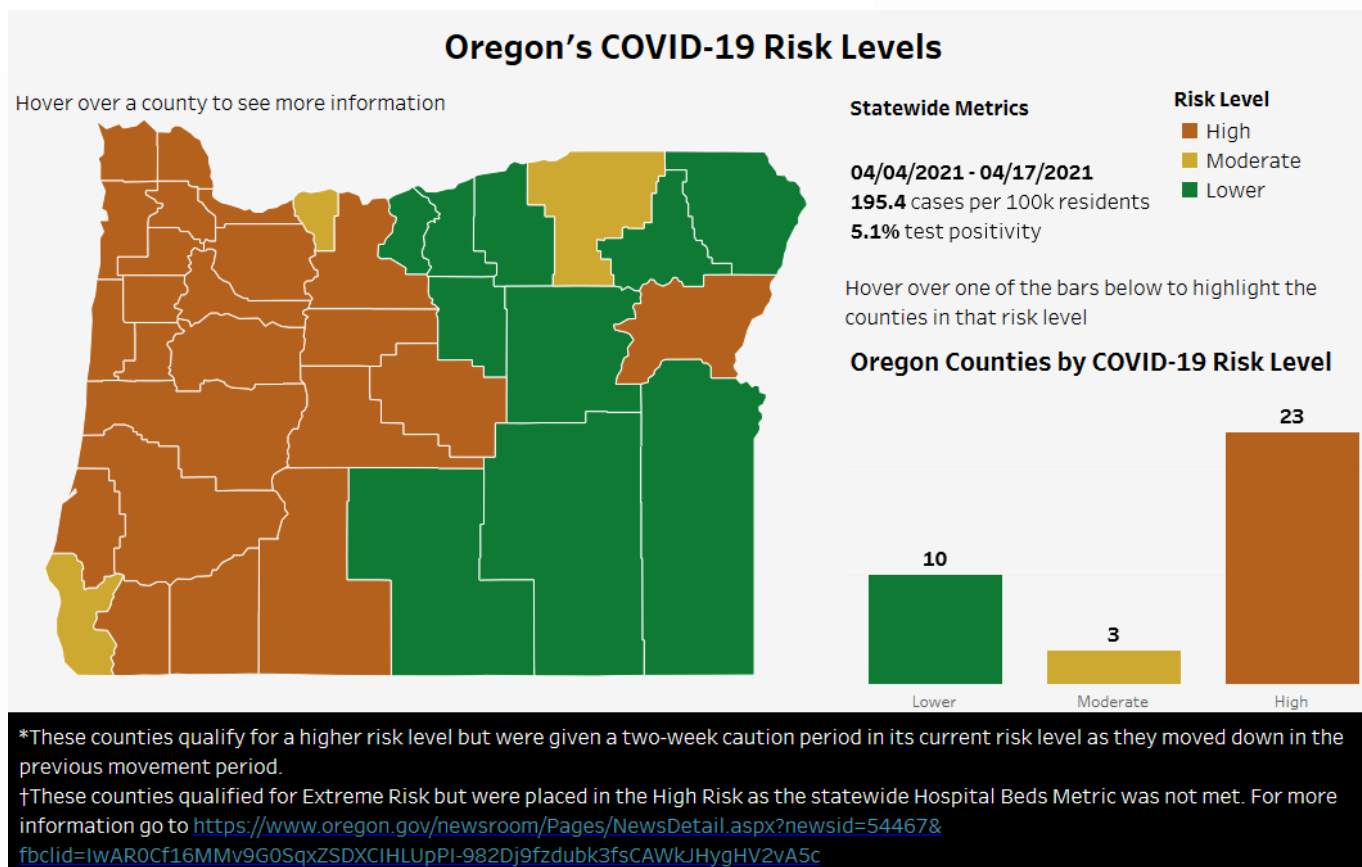
Diagnosed cases by age and month, statewide



Hospitalized cases by age and month, statewide



COVID-19 Risk Levels by County



<https://public.tableau.com/profile/oregon.health.authority.covid.19#!/vizhome/OregonCOVID-19PublicHealthIndicators/Risk>
Accessed 04.26.2021

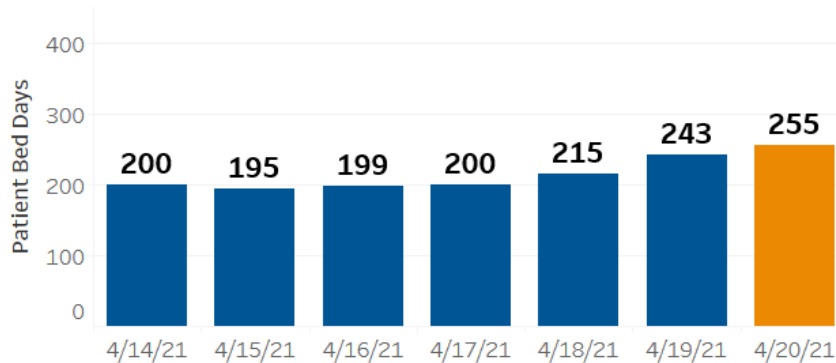
Hospital Census Metric

Seven Day Totals of COVID-19 Positive Patient Bed Days

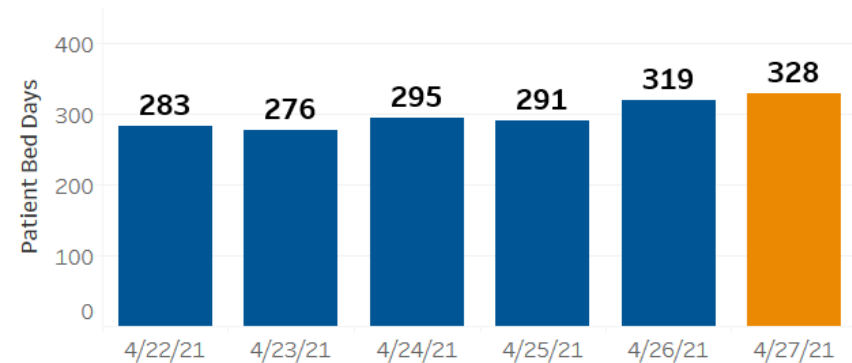
Previous Seven Day Period	Current Seven Day Period	Percent Change	Current Period Daily Peak
1,507	2,064	37.0%	328

If both the Percent Change and Current Period Daily Peak boxes are red, then the metric is met.

Previous Seven Day Period COVID-19 Positive Patient Bed Days



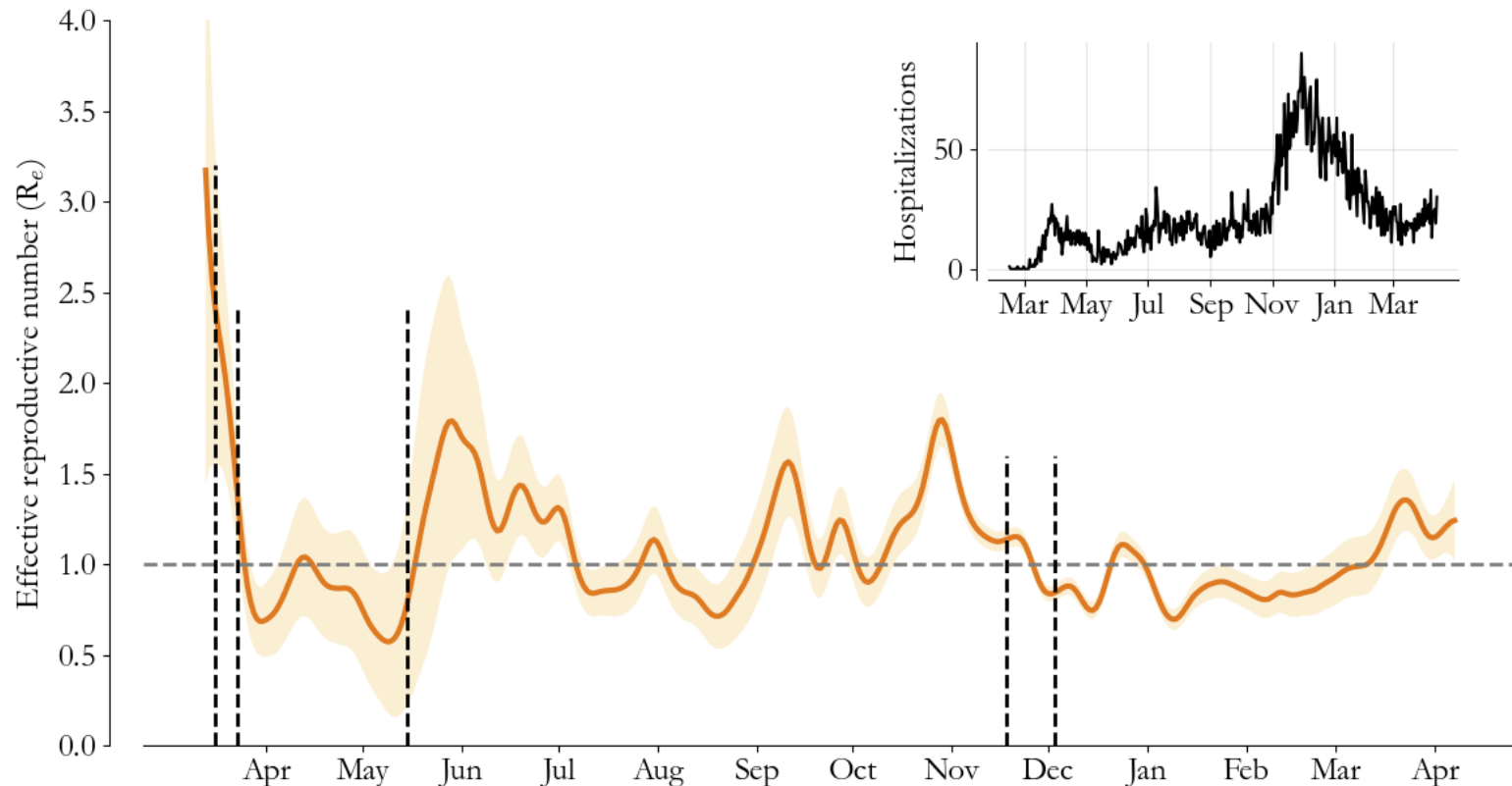
Current Seven Day Period COVID-19 Positive Patient Bed Days



Orange indicates the highest daily number of beds occupied by COVID-19 positive patients in that seven day period.

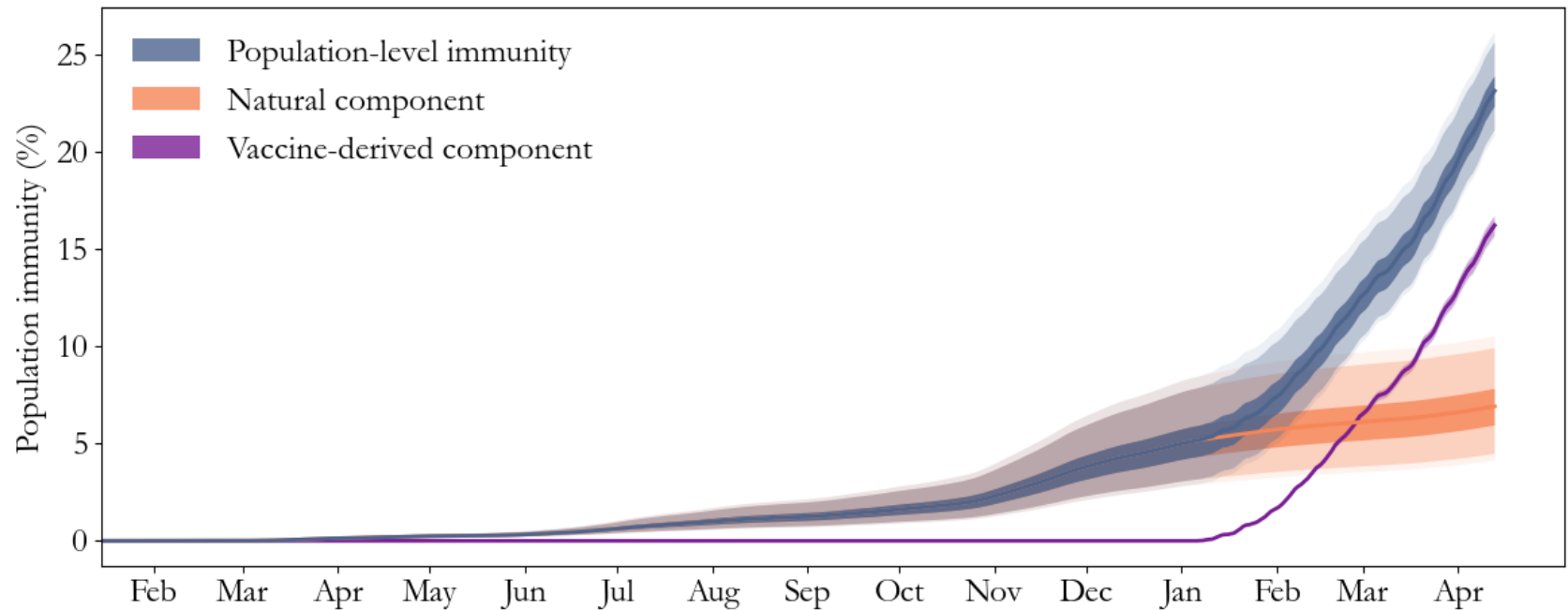
LATEST PROJECTIONS

Re Estimates over Time with 95% Confidence Intervals

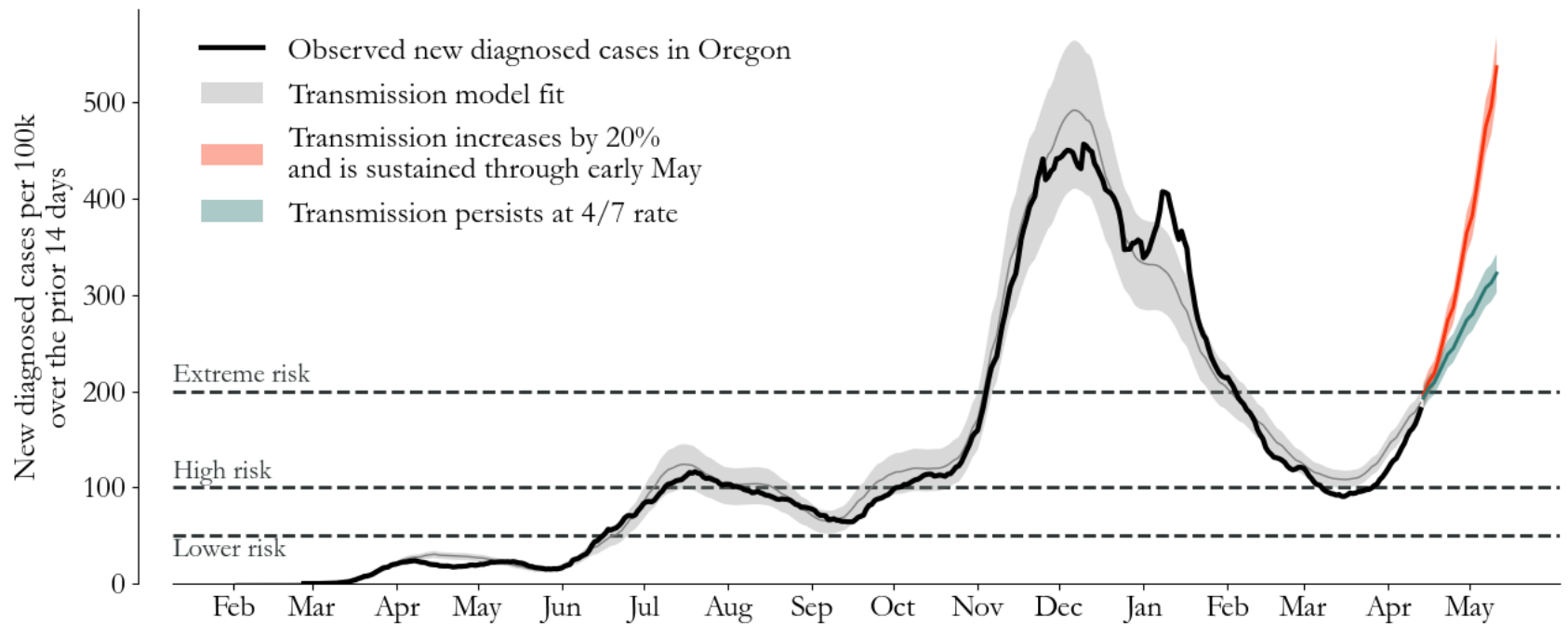


<https://www.oregon.gov/oha/covid19/Documents/DataReports/Epidemic-Trends-and-Projections.pdf>
Accessed 04.23.2021

Population Level Immunity Estimates



Observed Diagnosed Cases with Projections



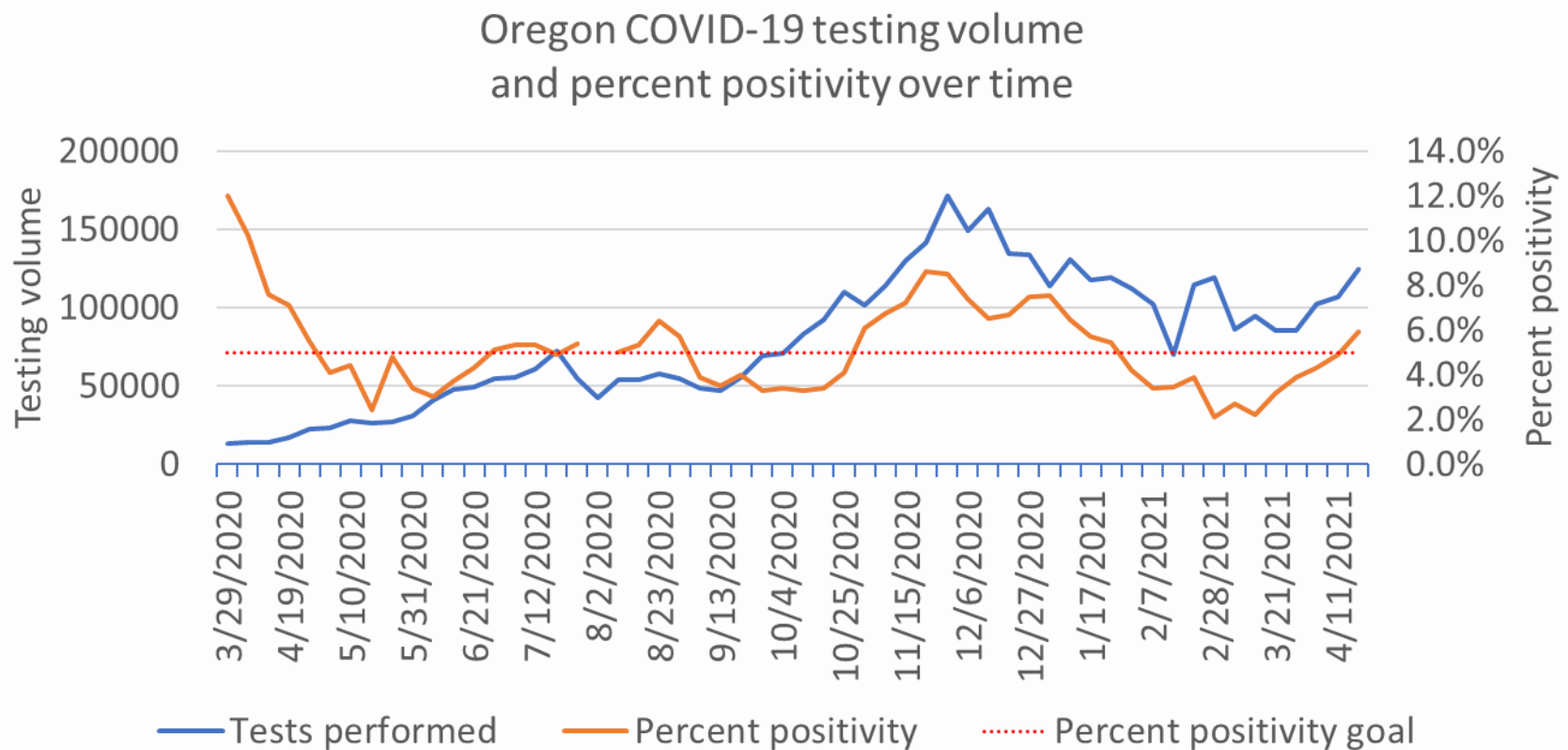
<https://www.oregon.gov/oha/covid19/Documents/DataReports/Epidemic-Trends-and-Projections.pdf>
Accessed 04.23.2021

Acknowledgement: Melissa Sutton

TESTING UPDATE

Testing volume trends

- From 4/18-4/24, estimated testing volume was 124,577 and **percent positivity was 5.9%** (goal $\leq 5\%$)

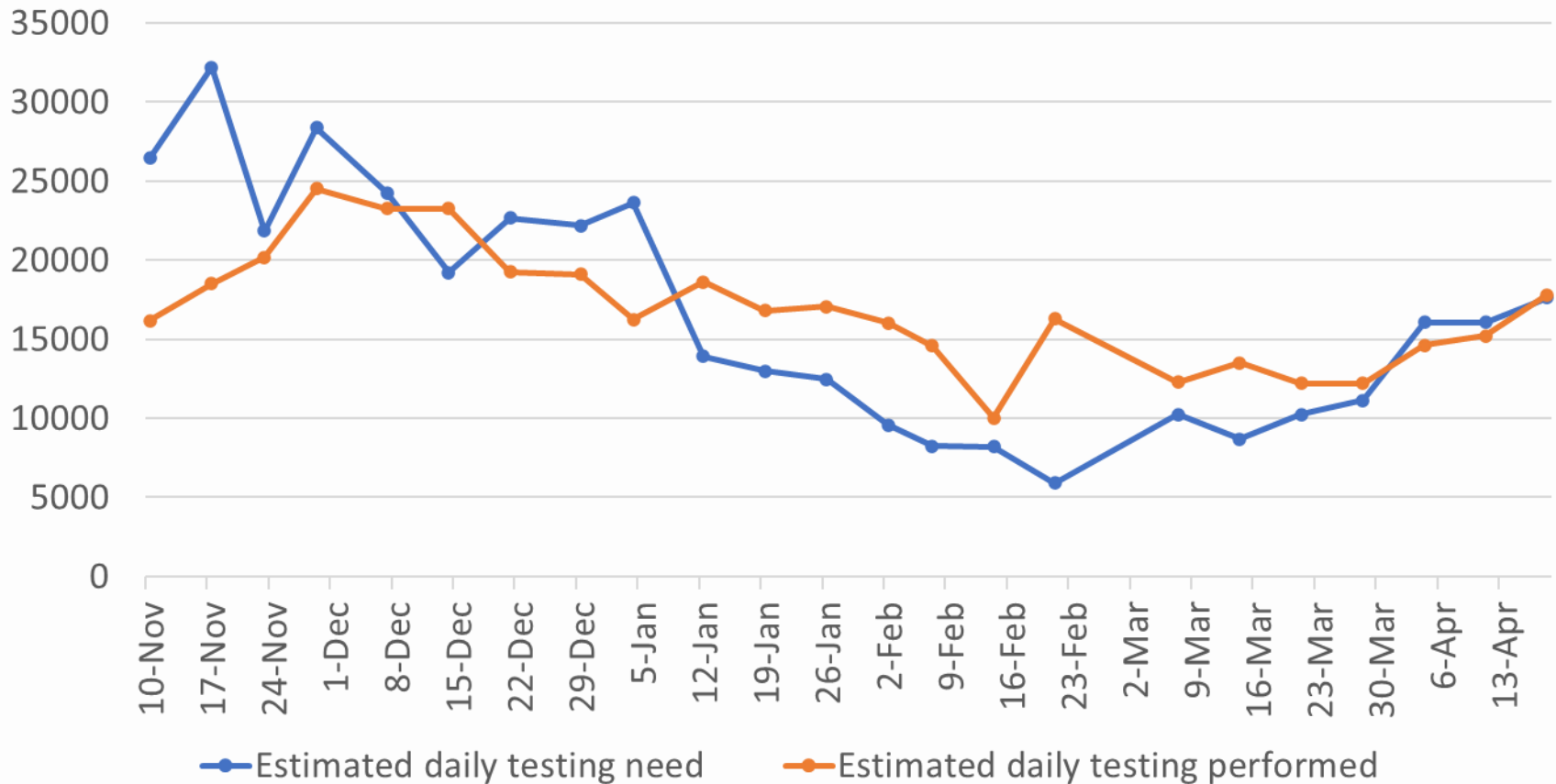


Testing needs and gap analysis

- The amount of COVID-19 in the community, screening and surveillance testing all determine testing needs
- As of April 17, we estimate that Oregon needed approximately 17,600 tests/day¹
 - Corresponding estimated testing volume: 17,800 tests/day
 - As case counts increase, there is **a marginal testing gap** emerging
 - We have seen testing capacity increase up to 2.5-fold since the surge began in October, and believe it can adapt again to meet demand
- Non-supply issues remain
 - **Reallocation of resources from testing to vaccines is the greatest challenge to maintaining adequate testing**
 - Within CRRU and in the larger community
 - Testing access
 - Testing acceptance

Testing needs and gap analysis

Oregon COVID-19 daily testing gap over time



Testing strategy updates

- **K-12 Testing in Oregon's Schools** project—**1,169** registered
 - Testing offered to all public and private K-12 schools
 - Testing required if high community transmission or high-risk sports
- CDC ELC has awarded **\$127 m** to Oregon to support screening in schools
 - Screening of unvaccinated K-12 staff launched in partnership with Willamette Valley Toxicology
 - Confidential, by-mail PCR testing
 - Attempting to quickly adapt software platform to allow registration in Spanish as well as English
 - Screening will expand to students for the 2021-22 academic year

March Surge Testing Events Summary

- **26 events in 14 counties:** Baker (1), Benton (1), Coos (2), Curry (2), Deschutes (1), Gilliam (1), Josephine (3), Linn (1), Marion (3), Multnomah (4), Umatilla (4), and Yamhill (3) counties
 - **717 tests conducted**
 - **29 cases identified; 4.04% positivity rate** overall
- Race and ethnicity of those tested (may choose more than one)
 - 59.6% White
 - 10.6% Hispanic
 - 5.6% Unknown
 - 1.8% Asian
 - 1.8% American Indian/Alaska Native
 - 1% Black/African American
 - <1% Pacific Islander

Acknowledgement: Melissa Sutton

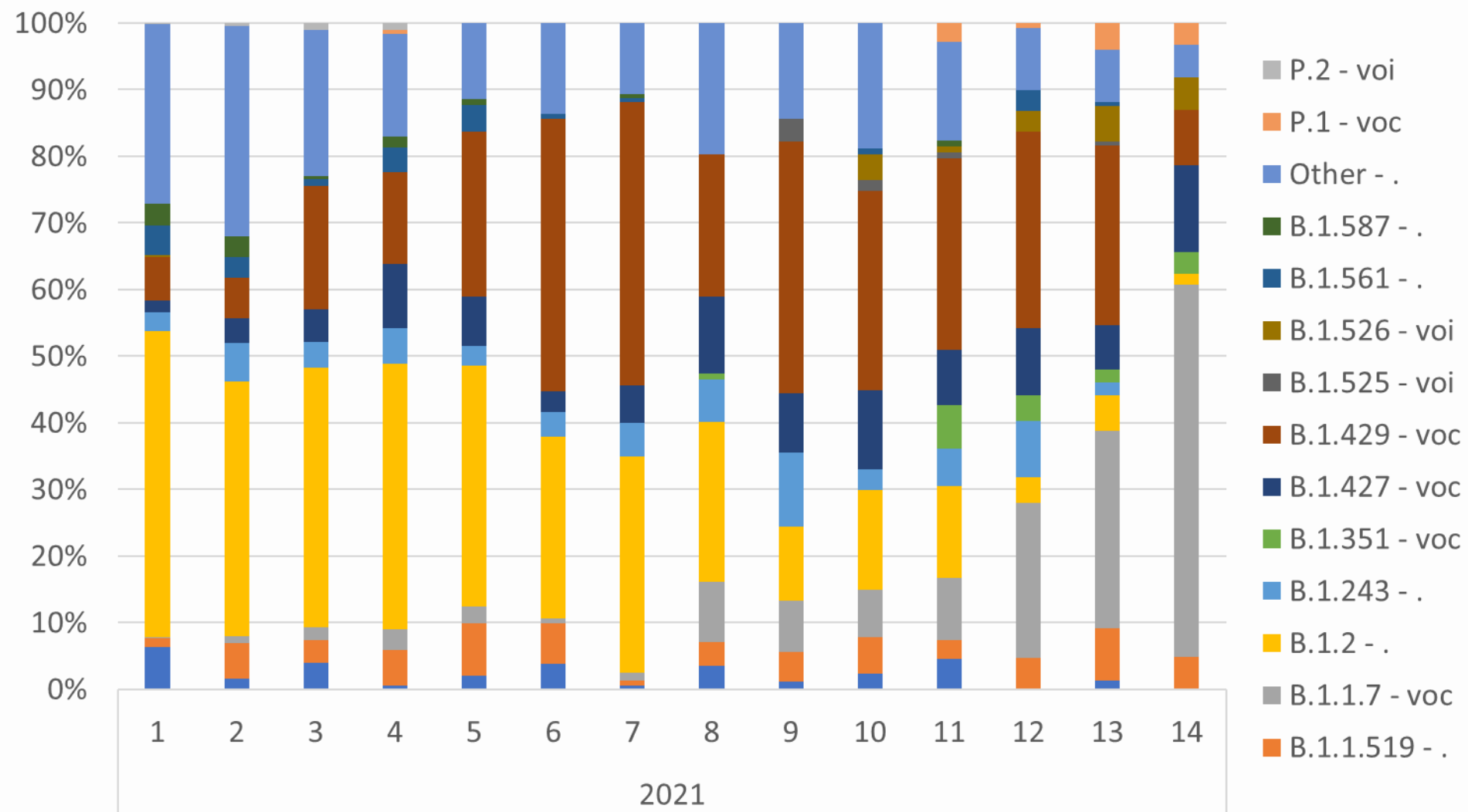
ADVANCED MOLECULAR DETECTION: SEQUENCING SURVEILLANCE

Situational overview: variants

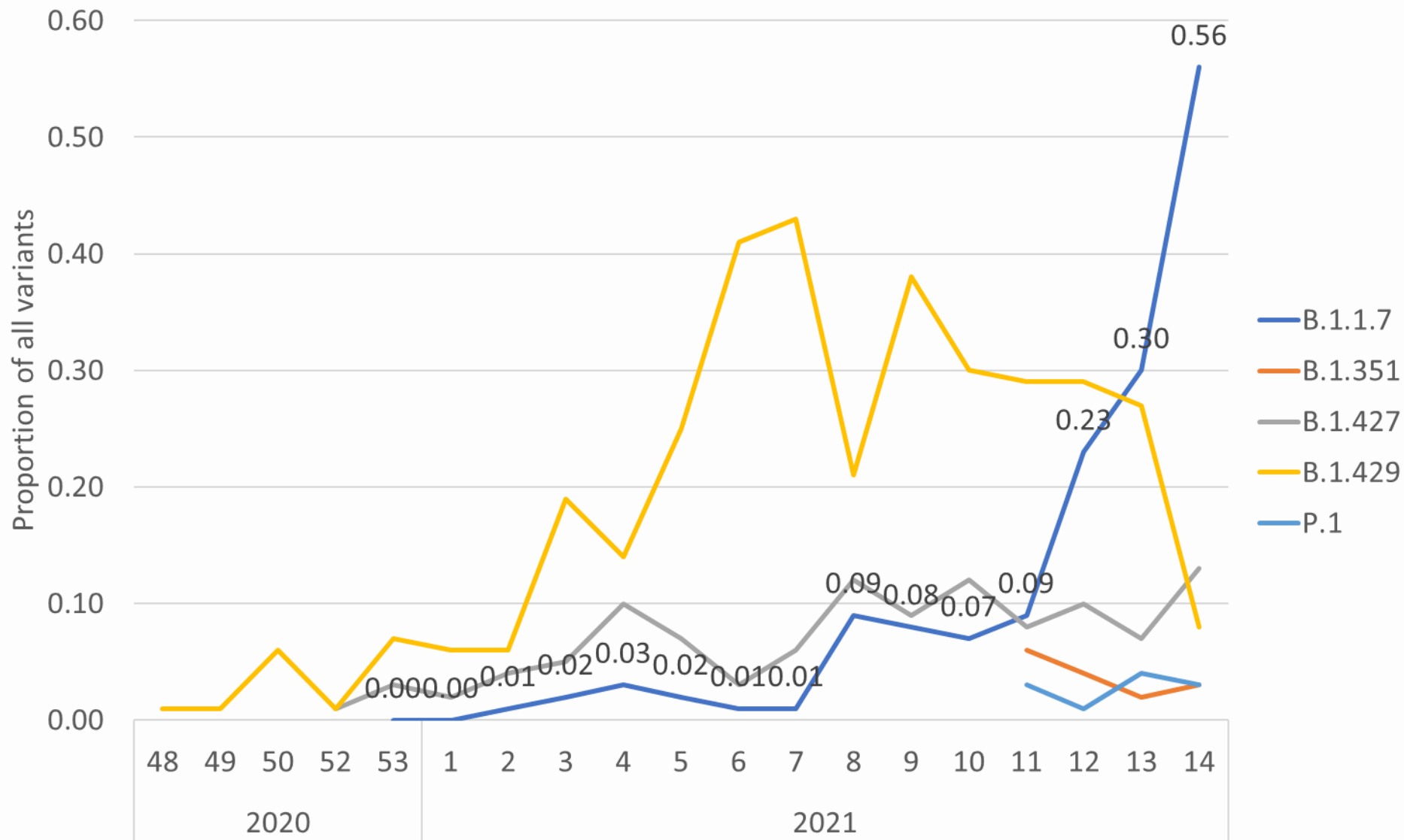
B.1.429	B.1.427	B.1.1.7	B.1.351	P.1	B.1.525	B.1.526	P.2
519	159	168	18	13	7	22	6

- Oregon has sequenced **5,152** specimens (3.07% of all specimens; rank 5th nationwide) since the beginning of the pandemic
- 877 variants of concern (VOCs) and 35 variants of interest (VOIs) have been identified
- B.1.1.7 (the “UK variant”) has been identified in several communities
 - Approximately 50% more transmissible
 - Likely causes more severe illness (evidence mixed, but accumulating)
 - Quickly gaining momentum very recently
- B.1.427 and B.1.429 (the “California variants”) have been identified statewide and represent the majority of VOCs
 - Approximately 20% more transmissible
 - Once introduced, these have slowly replaced other variants
- B.1.351 (the “South Africa” variant) and P.1 (the “Brazil” variant) have been identified in a few locations
 - Wastewater has identified B.1.351 circulation in two counties previously unknown to have cases indicating community transmission

SARS-CoV-2 Variants Circulating in Oregon 2021 by MMWR Week



SARS-CoV-2 Variants of Concern Circulating in Oregon



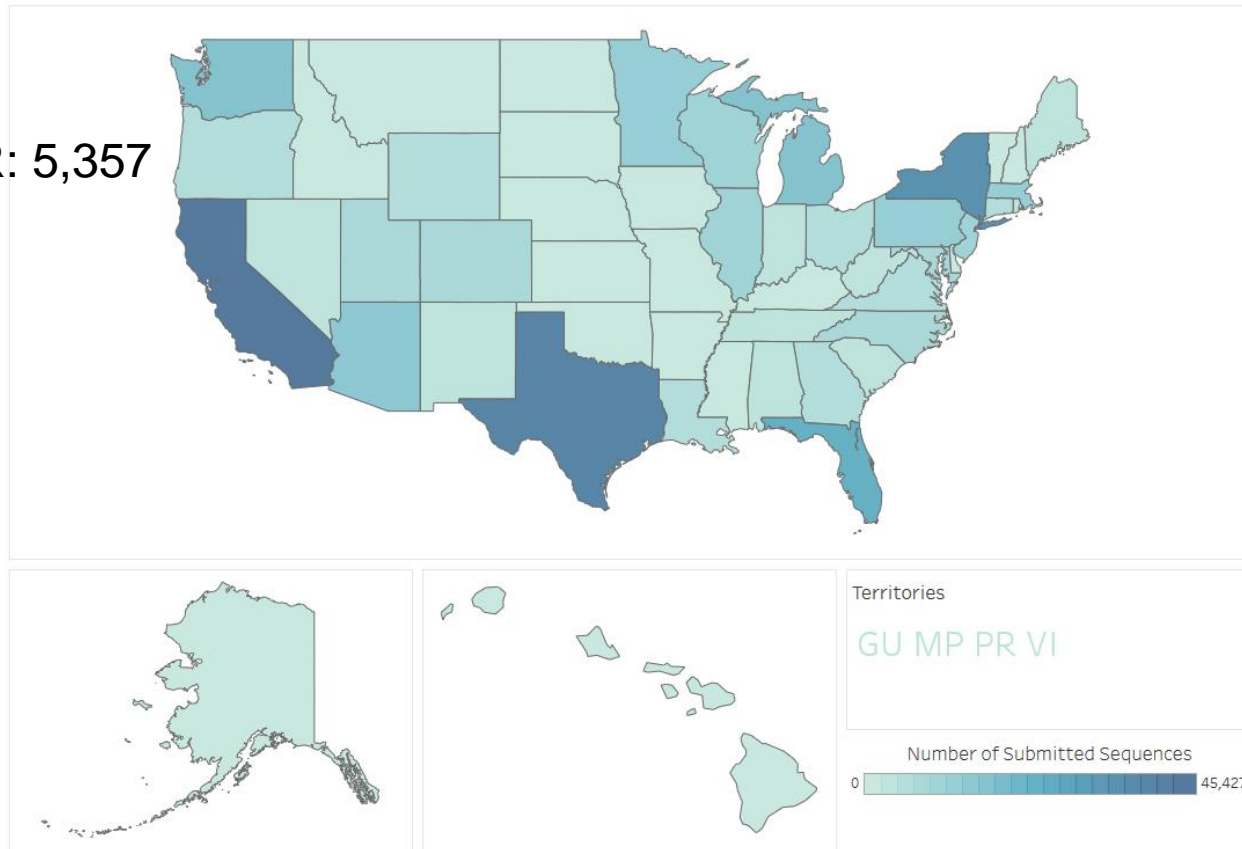
B.1.1.7 is now dominant

- B.1.1.7 (the “UK variant”) has suddenly increased from a small fraction of all specimens sequenced to 56% of all specimens last week
- Approximately 50% more transmissible
- Likely causes more severe disease (i.e., more hospitalizations, deaths)
 - OHSU confirms younger and sicker patients than at any other time during the pandemic
- States with B.1.1.7 > 50% of all specimens are experiencing significant surges e.g., Minnesota and Michigan

VARIANT SEQUENCING: NATIONAL PICTURE

Total Sequences Submitted & Available

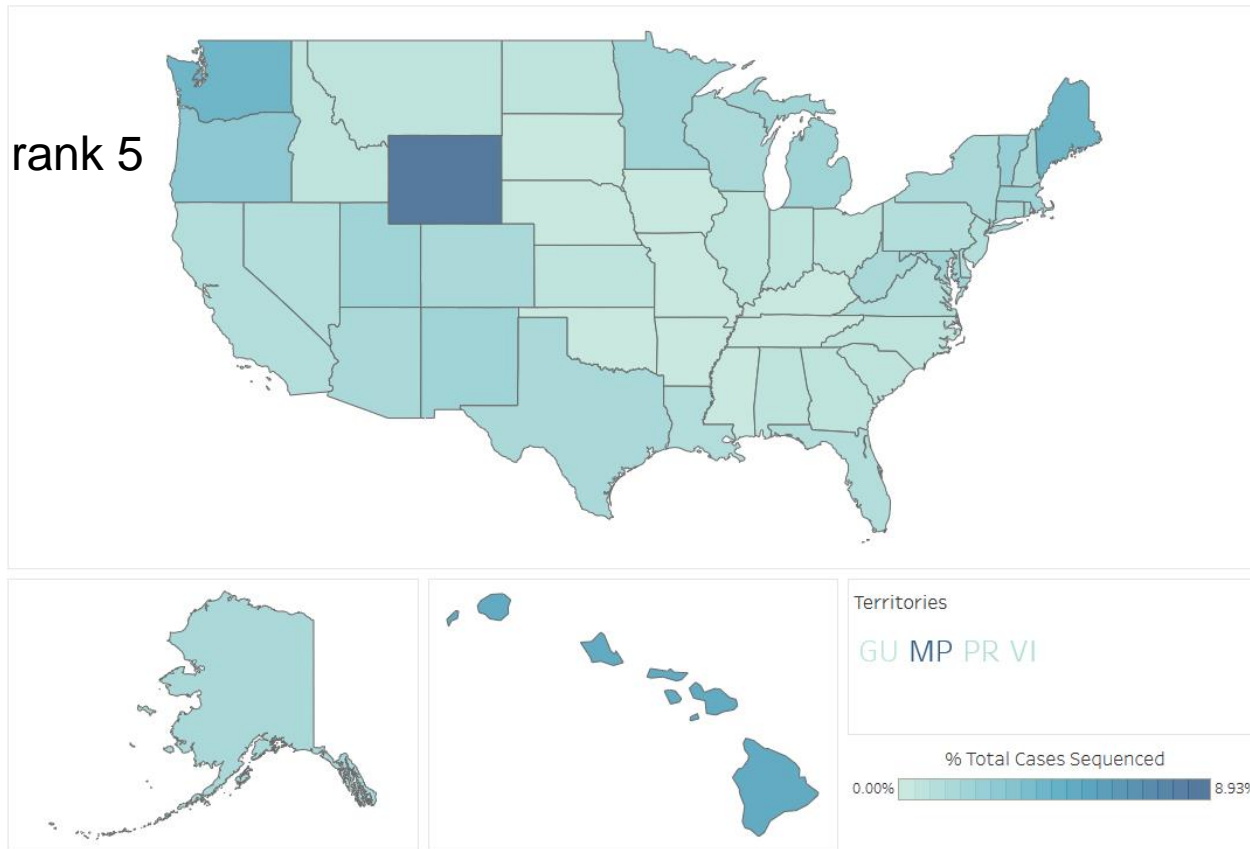
OR: 5,357



<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/genomic-surveillance-dashboard.html>
Accessed 04.27.2021

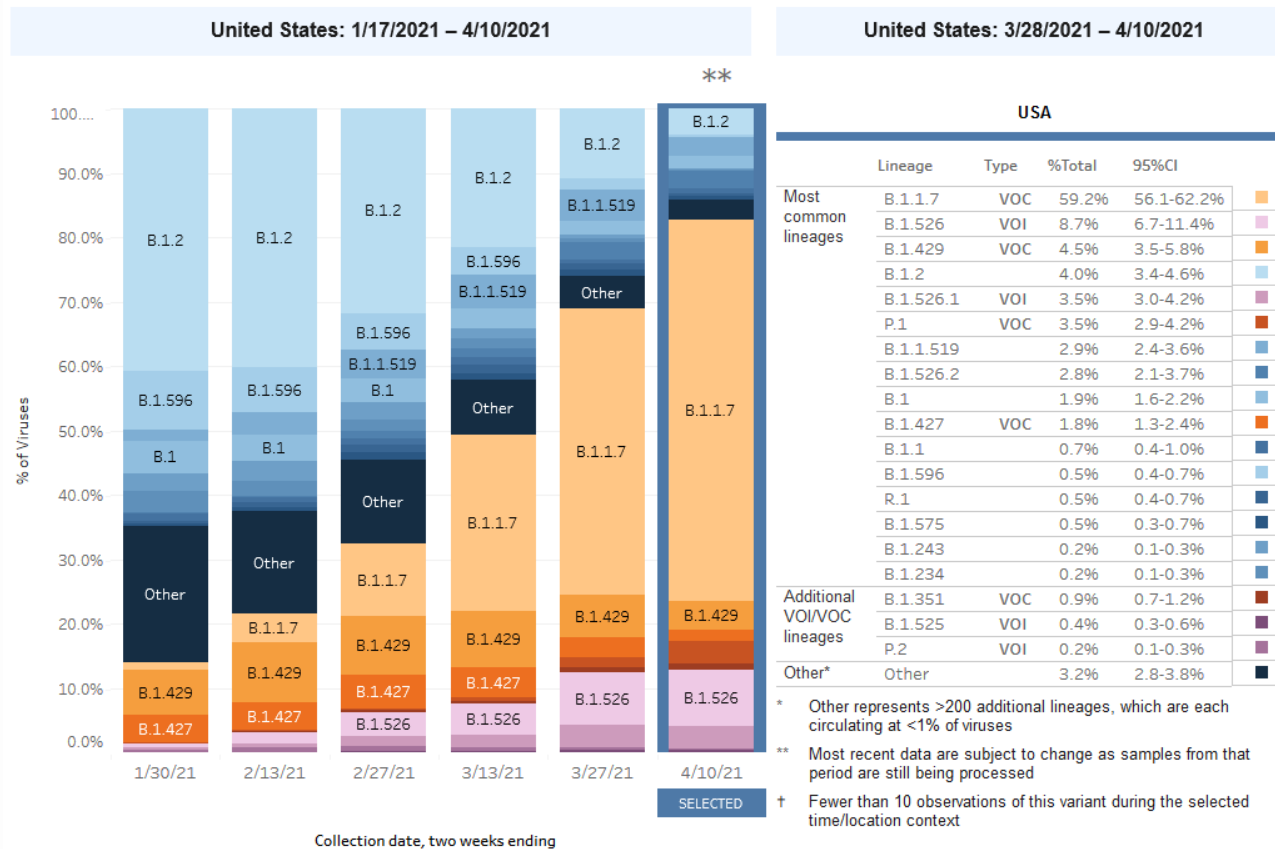
Percentage of Cumulative Cases Sequenced

OR: 3.06%, rank 5



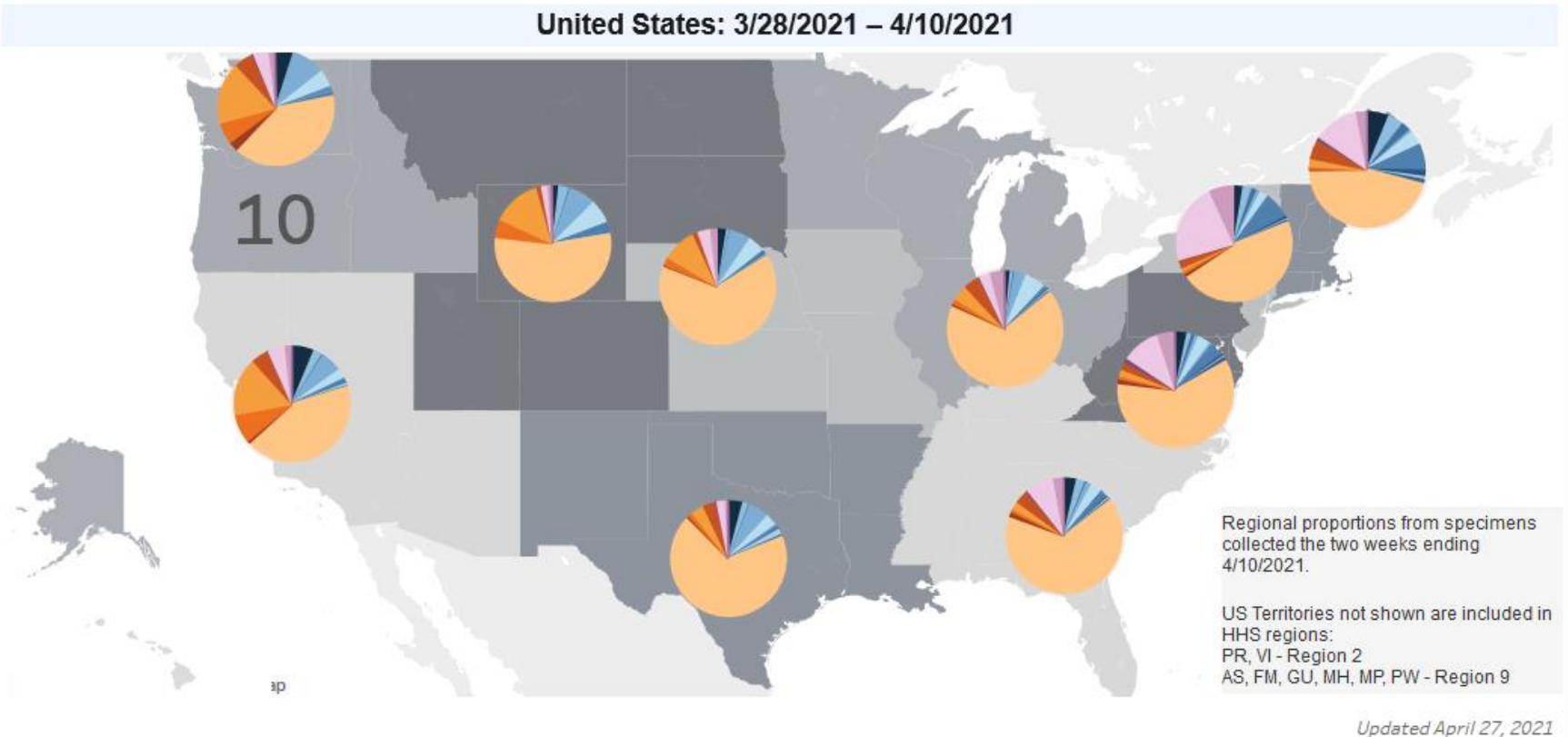
<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/genomic-surveillance-dashboard.html>
Accessed 04.27.2021

Variants Circulating in the US



<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-proportions.html>
 Accessed 04.27.2021

Weighted Estimates of Variants



Questions/ Discussion