
COVID-19 Cases, Testing, and Variants

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

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Dean Sidelinger, MD MSEd
State Health Officer and State Epidemiologist

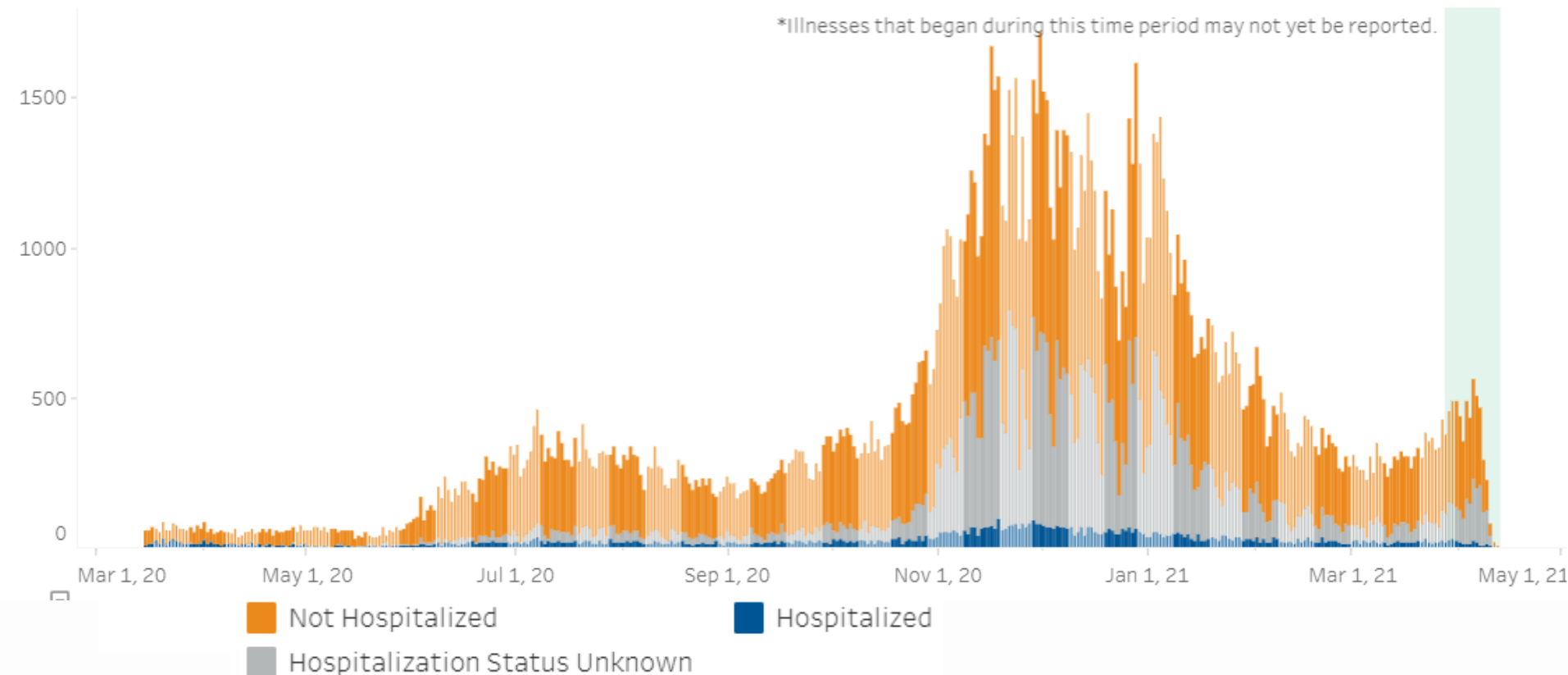
Oregon
Health
Authority

COVID-19 Cases in Oregon

Oregon's Epi Curve: COVID-19 cases

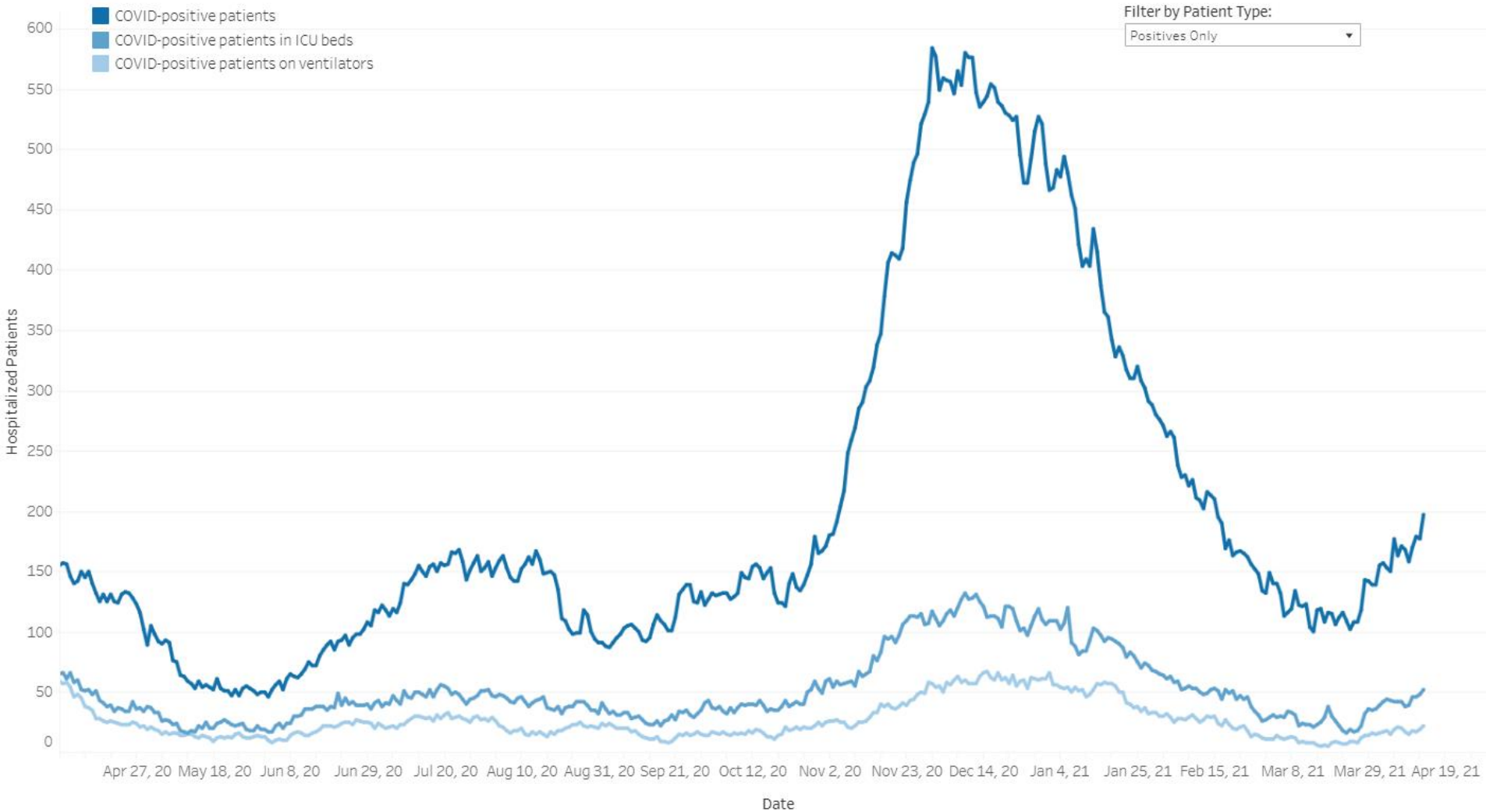
This chart shows the number of Oregonians who have been identified as COVID-19 cases and whether they were ever hospitalized for their illness.‡

Total Cases	Hospitalized	Not Hospitalized	Hospitalization Status Unknown
171,398	9,511	115,764	46,123



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 04.14.2021

Hospitalizations by Severity



<https://public.tableau.com/profile/oregon.health.authority.covid.19#!/vizhome/OregonCOVID-19HospitalCapacity/BedAvailabilitybyRegion>
Accessed 04.14.2021

Weekly Trends

Summary Statistics For the Previous 6 MMWR Weeks - All

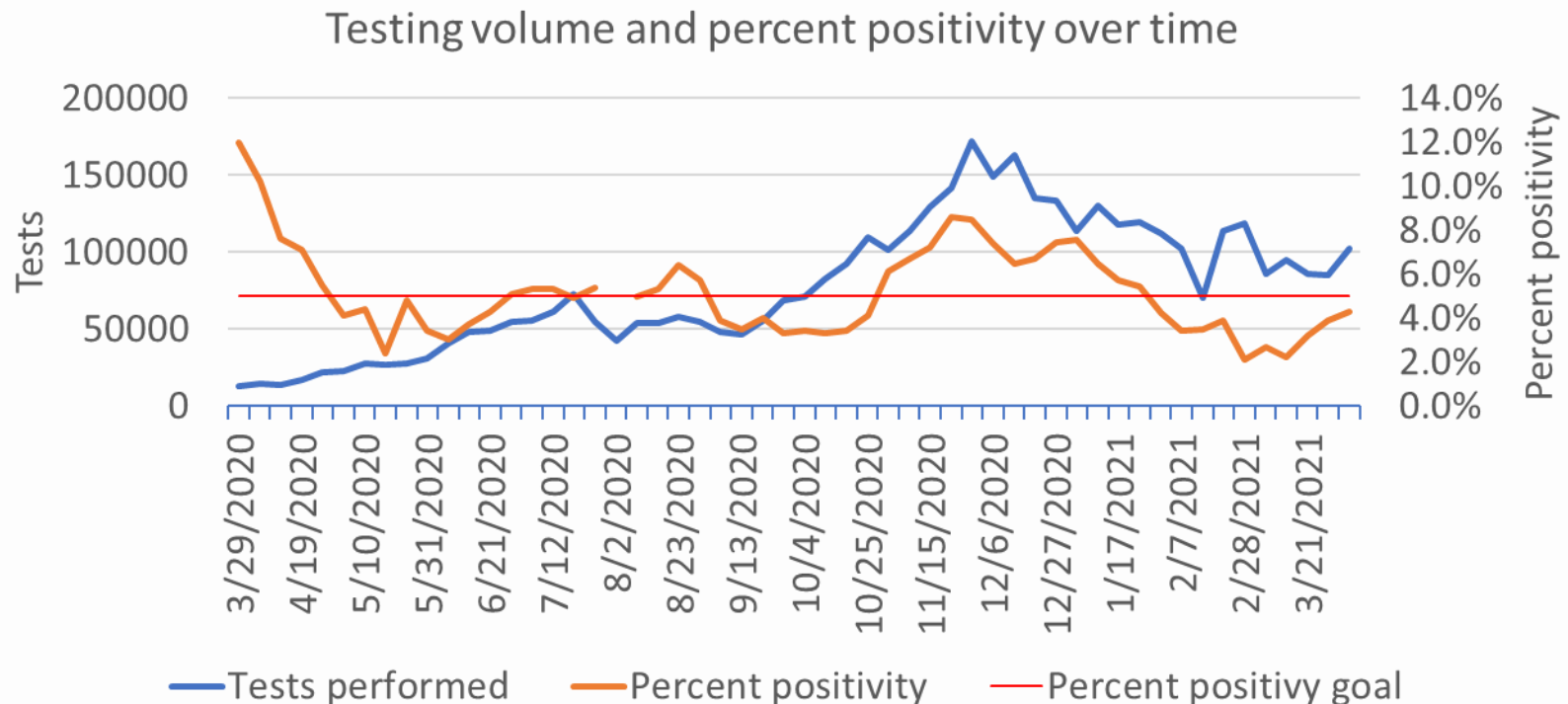
Week of True Case Date	Total New Cases	Average New Cases Per Day	% Cases Not Traced to a Known Source
2/28/21	1,744	249	48.3%
3/7/21	2,348	335	51.2%
3/14/21	1,966	281	50.8%
3/21/21	2,433	348	54.5%
3/28/21	2,923	418	53.3%
4/4/21	3,685	526	60.7%

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

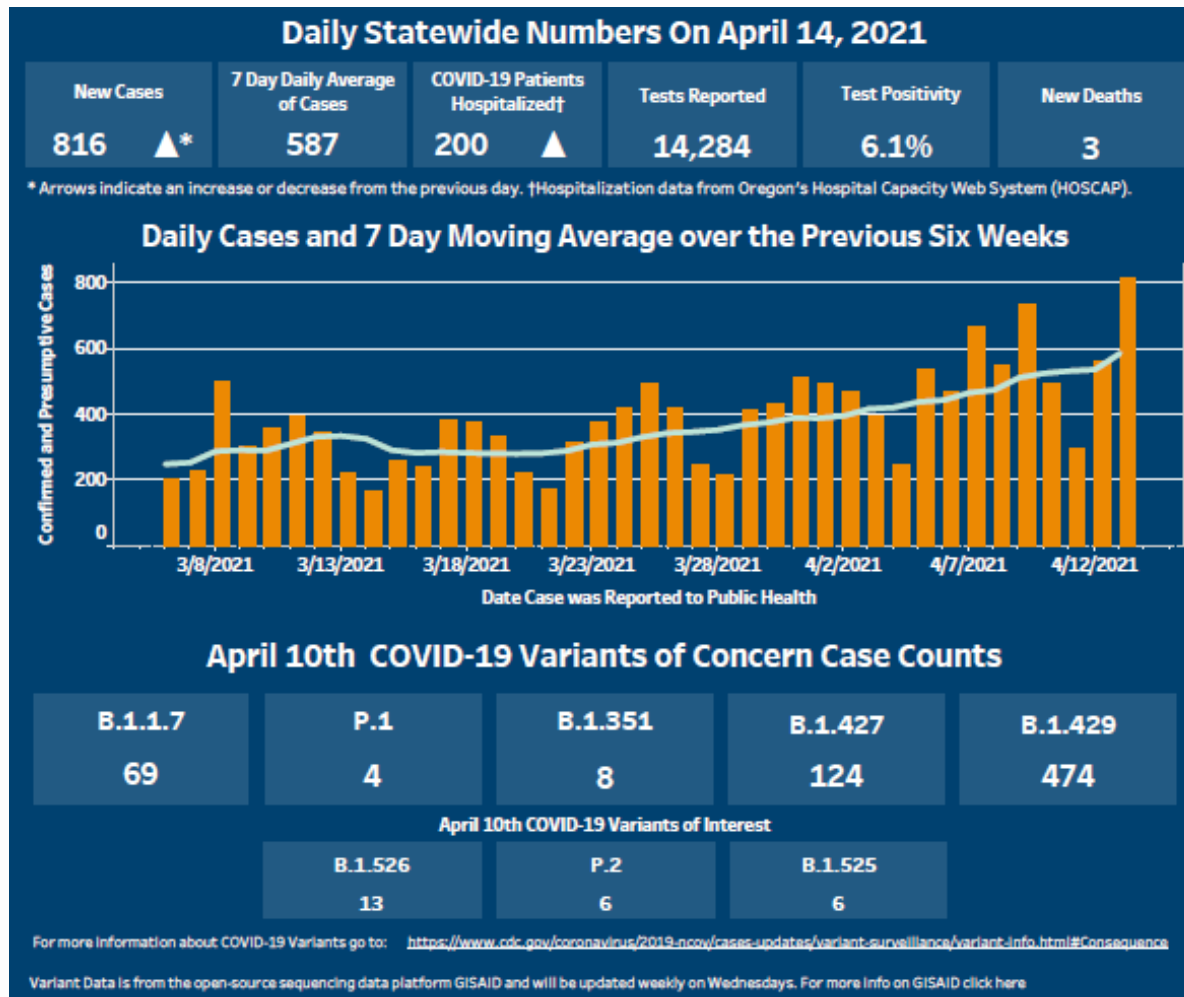
Accessed 04.06.2021

Testing Volume Trends

- From 4/4-4/10, estimated testing volume was 102,320 and **percent positivity was 4.3%** (goal $\leq 5\%$)

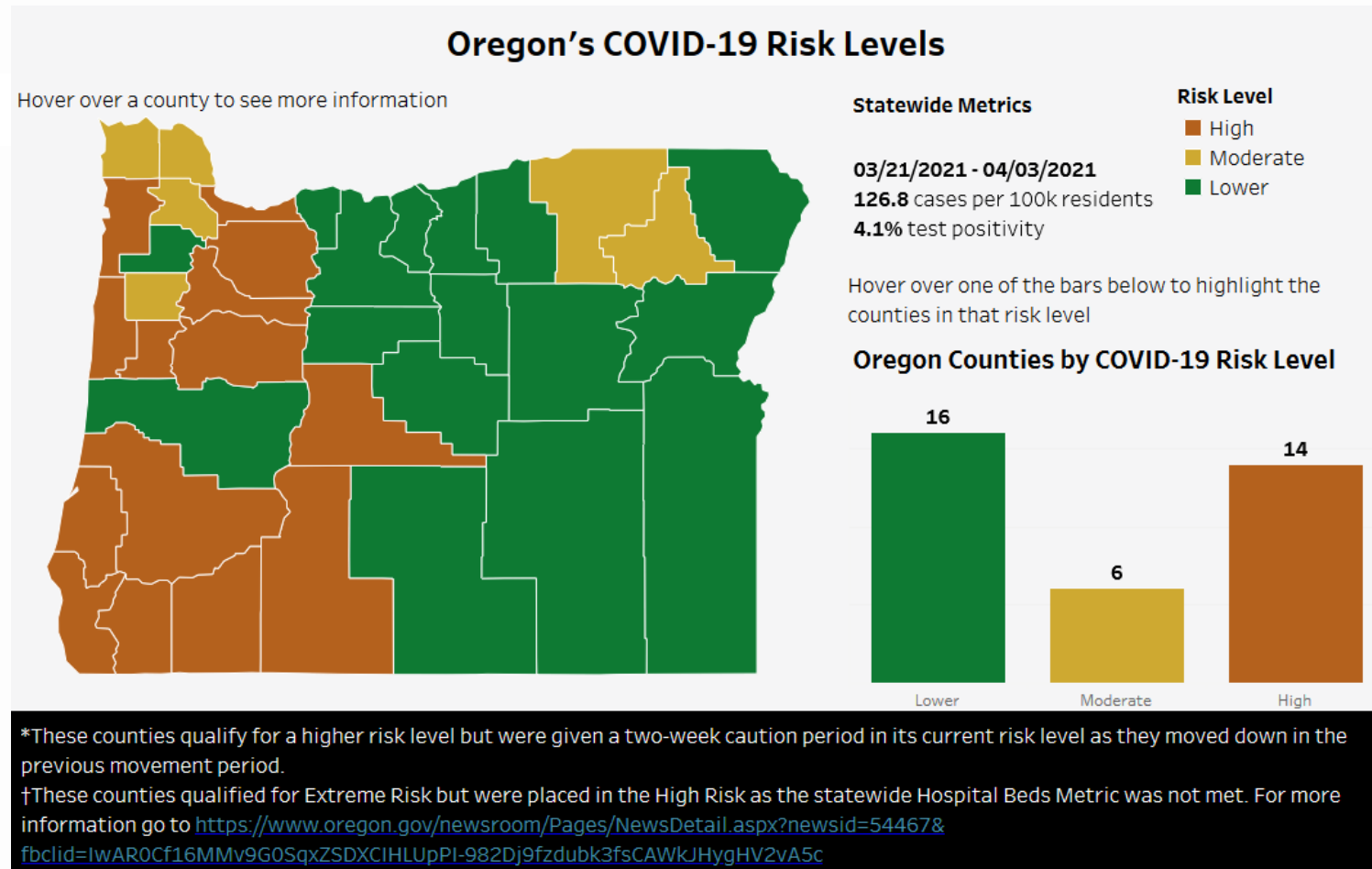


Daily COVID-19 Update



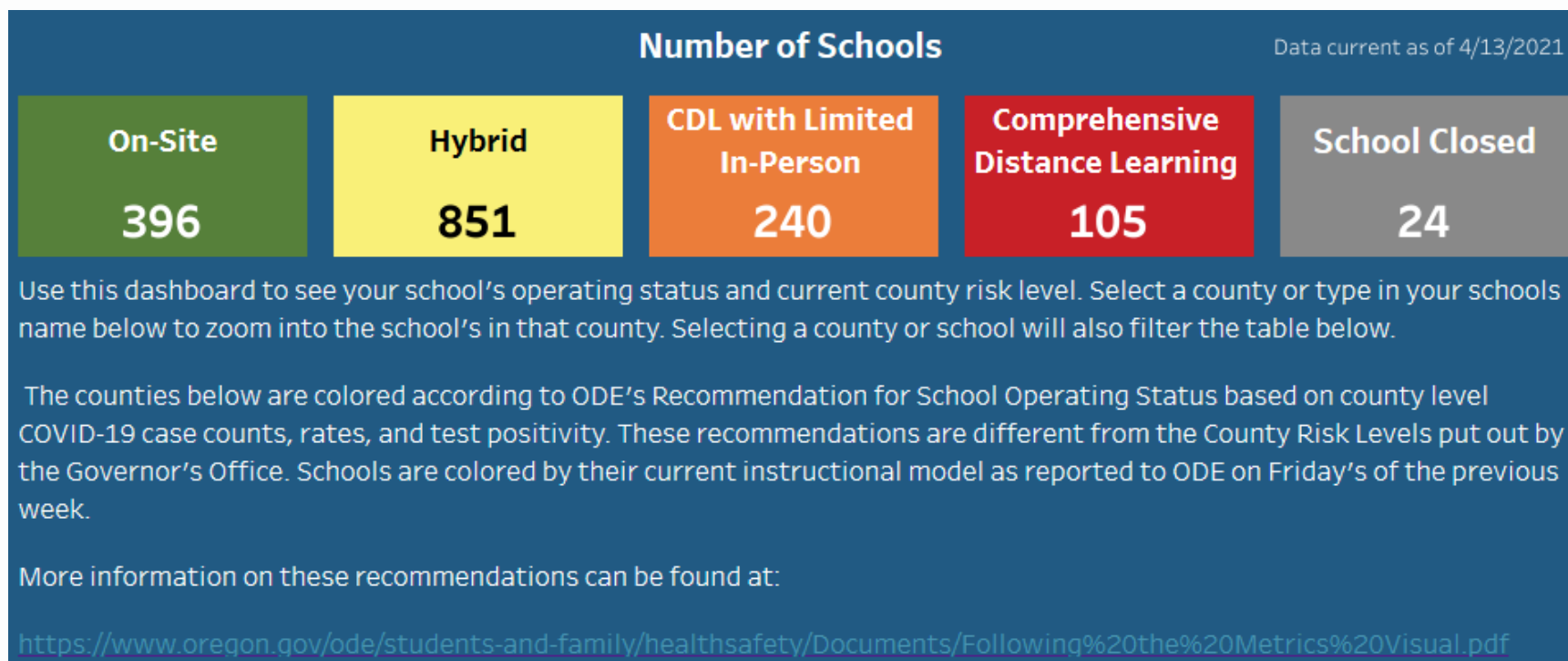
<https://public.tableau.com/profile/oregon.health.authority.covid.19#!/vizhome/OregonCOVID-19Update/DailyDataUpdate>
 Accessed 04.14.2021

COVID-19 Risk Levels by County



SCHOOL STATUS

School Operating Status



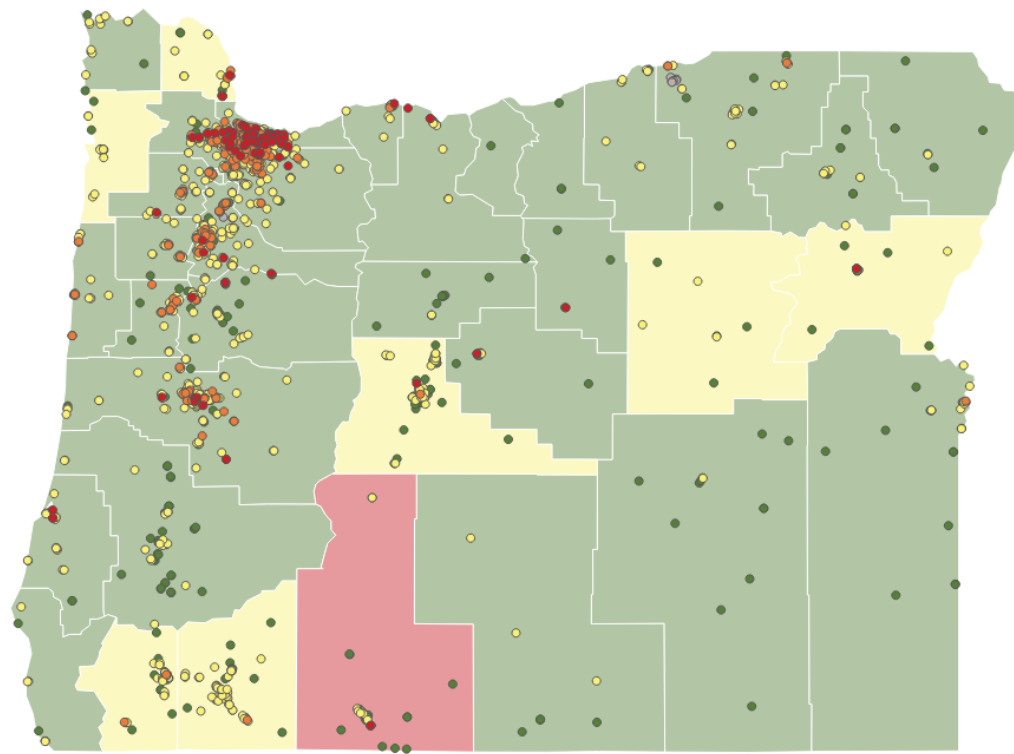
School Operating Status Map

Current School Instructional Model

- Comprehensive Distance Learning
- Comprehensive Distance Learning w/LIPI
- Hybrid
- On-Site
- Not In Session/School Closed

Current Reopening Recommendations (Based on OHA Data)

- Comprehensive Distance Learning
- Elementary On-Site or Hybrid
- K-12 On-Site or Hybrid



<https://public.tableau.com/profile/oregon.health.authority.covid.19#!/vizhome/OregonSchoolsReopeningStatus/SchoolReopeningMap>
Accessed 04.14.2021

Acknowledgement: Melissa Sutton

TESTING UPDATE

Testing Strategy Updates

- CDC issued new **Operational Strategy for K-12 schools**
 - Recommends that all students and staff who develop symptoms at school or experience an exposure be referred for testing
 - Screening may or may not be implemented
- **K-12 Testing in Oregon's Schools** project—**1,083** registered
 - Testing offered to all public and private K-12 schools
 - Testing **required** under the following circumstances
 - K-12 schools operating in-person in counties above advisory metrics
 - K-12 outdoor partial/full contact sports opening in high or extreme levels
- CDC ELC has awarded \$127 m to Oregon to support screening in schools
 - Screening of staff will be launched immediately
 - Additional details will be determined following stakeholder input

Acknowledgement: Melissa Sutton and Kristen Donheffner

SCHOOL SURVEILLANCE TESTING

ELC Reopening Schools

- \$127 m awarded to Oregon to support screening in schools through July 2022
- 85% must directly support school screening
- Allowable costs:
 - Broad definition of testing-related costs
 - Q+I support
 - Outreach support
- Programming must acknowledge HHS funding

CDC's Operational Strategy for K-12 Schools

- Phased prevention strategy
- First: basic public health interventions with prioritization of masking and physical distancing
- Additional strategies:
 - Diagnostic testing: any student/staff with symptoms should have access to diagnostic testing
 - Screening testing:
 - Staff weekly
 - Students by community transmission levels: moderate and higher at least weekly
 - Consider screening students by high-risk activities (sports)

ELC Reopening Schools Proposal

- Goal: to design a rational screening strategy that aligns with CDC guidance, may be easily operationalized by educational partners and does not depart from Oregon's focus on leading with evidence.
- Challenges:
 - Enormous burden on schools during time of limited resources
 - Evidence-base for screening on this scale problematic
 - Rough estimates include \$25,000+++ per case detected and (many) more cases missed than detected
 - Those least likely to following basic public health interventions are most likely to become infected and least likely to opt-in to screening

Alignment with CDC's Operational Strategy

Intervention	Oregon's approach	Need
Basic public health interventions	RSSL guidance	Met
Diagnostic testing	K-12 Testing Program	Met for those who opt in or must participate by risk level
Screening staff	Mail-in self-swabbing	Met by May 1, 2021
Screening students	TBD	Met by September 2021

Acknowledgement: Melissa Sutton

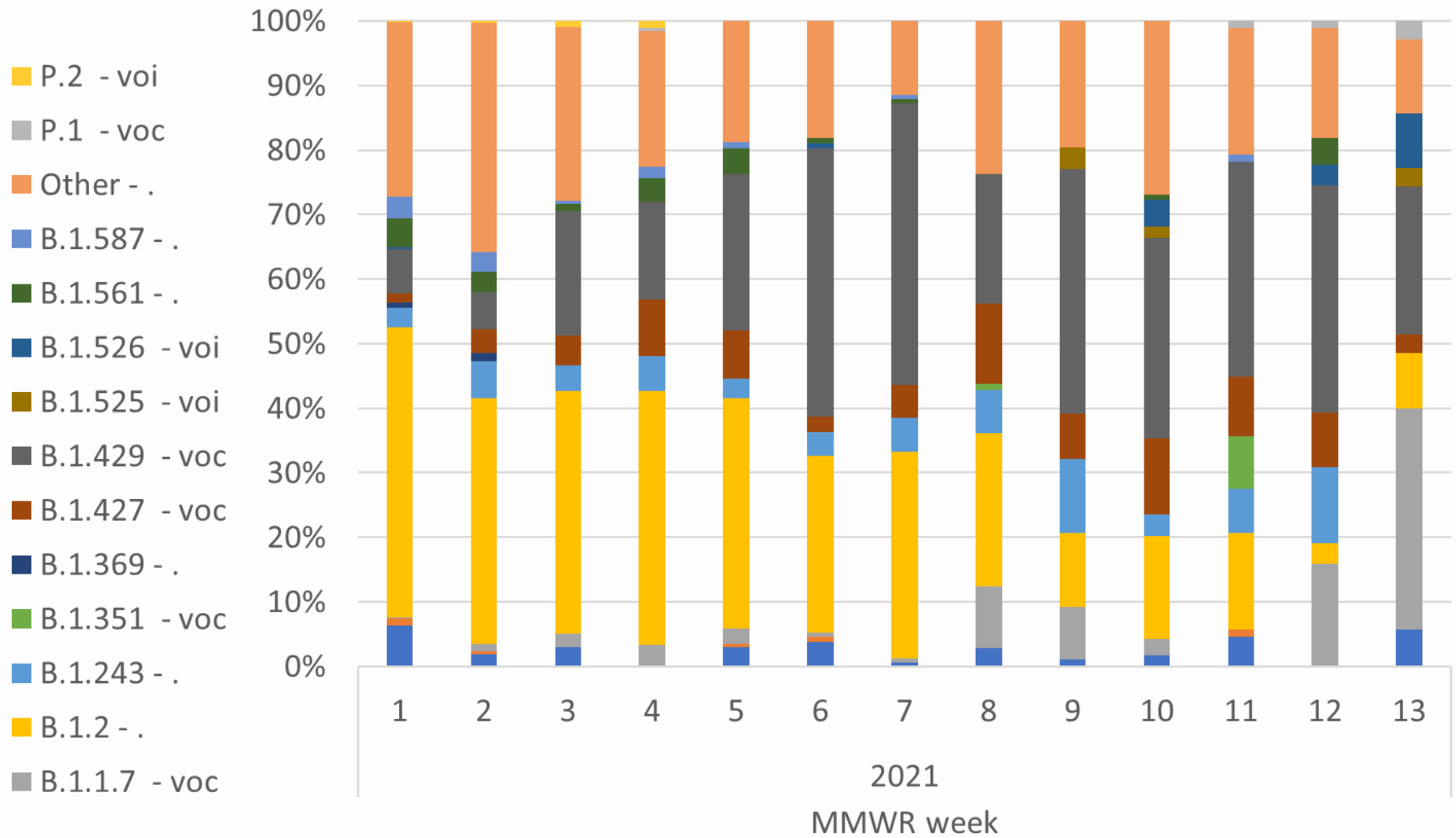
ADVANCED MOLECULAR DETECTION

Situational overview

B.1.429	B.1.427	B.1.1.7	B.1.351	P.1	B.1.525	B.1.526	P.2
469	124	69	8	4	6	13	6

- Oregon has sequenced more than 4,800 specimens since the beginning of the pandemic
- 674 variants of concern (VOCs) and 25 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 cause more severe disease (i.e., more hospitalizations, deaths)
 - 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
 - Once introduced, these appear to slowly replace other variants
 - Wastewater surveillance confirms this trend
 - Approximately 20% more transmissible
 - Concern that antibody response may be impaired—increased risk of reinfection and reduced effectiveness of monoclonal antibody therapies

SARS-CoV-2 Variants Circulating in Oregon 2021



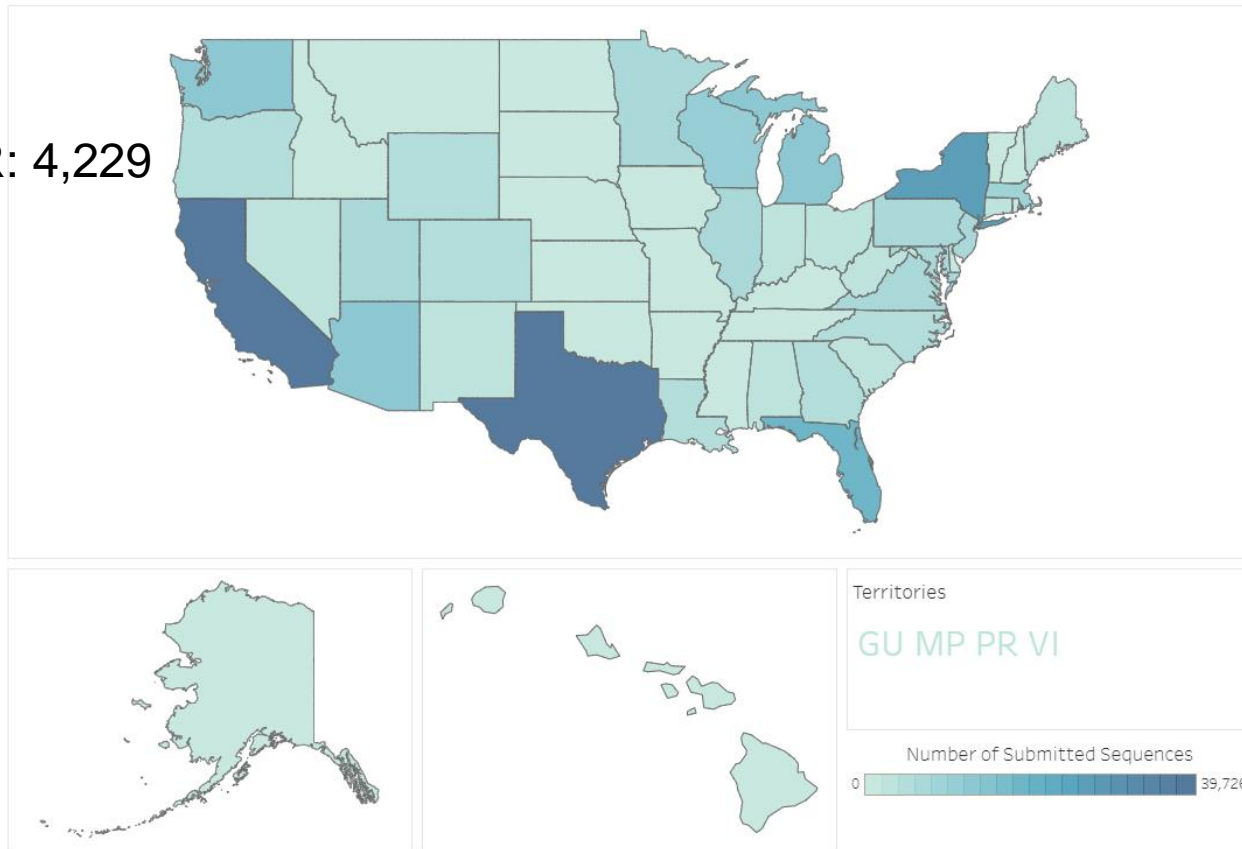
Situational Overview: Variants in Children

B.1.429	B.1.427	B.1.1.7	B.1.351	P.1	B.1.525	B.1.526	P.2
10	6	0	0	0	0	0	0

- Age is missing for 40% of specimens sequenced
- Only 16 VOCs/VOIs have been identified in children
 - All California variants to date
- Other states with significant B.1.1.7 circulating have reported significant spread around school extracurricular activities

Total Sequences Submitted & Available

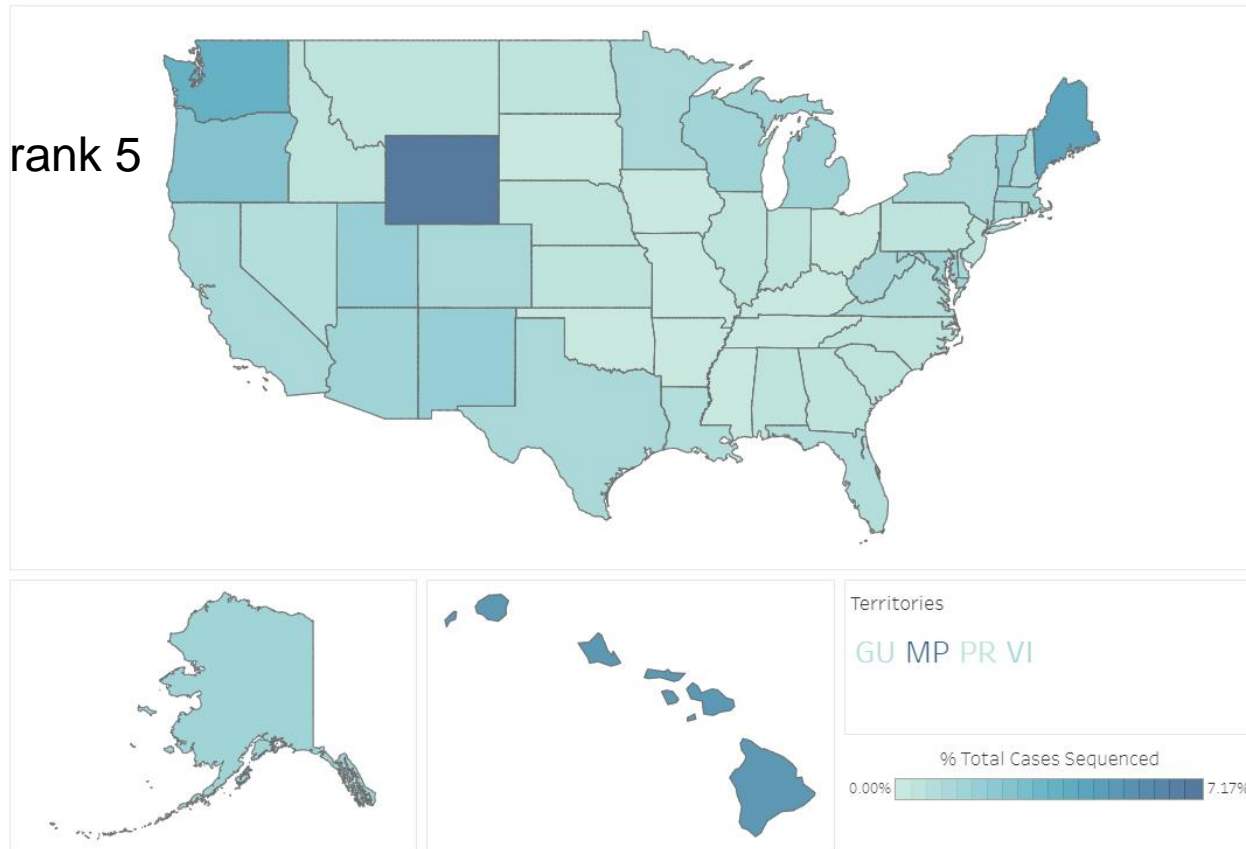
OR: 4,229



<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/genomic-surveillance-dashboard.html>
Accessed 04.05.2021

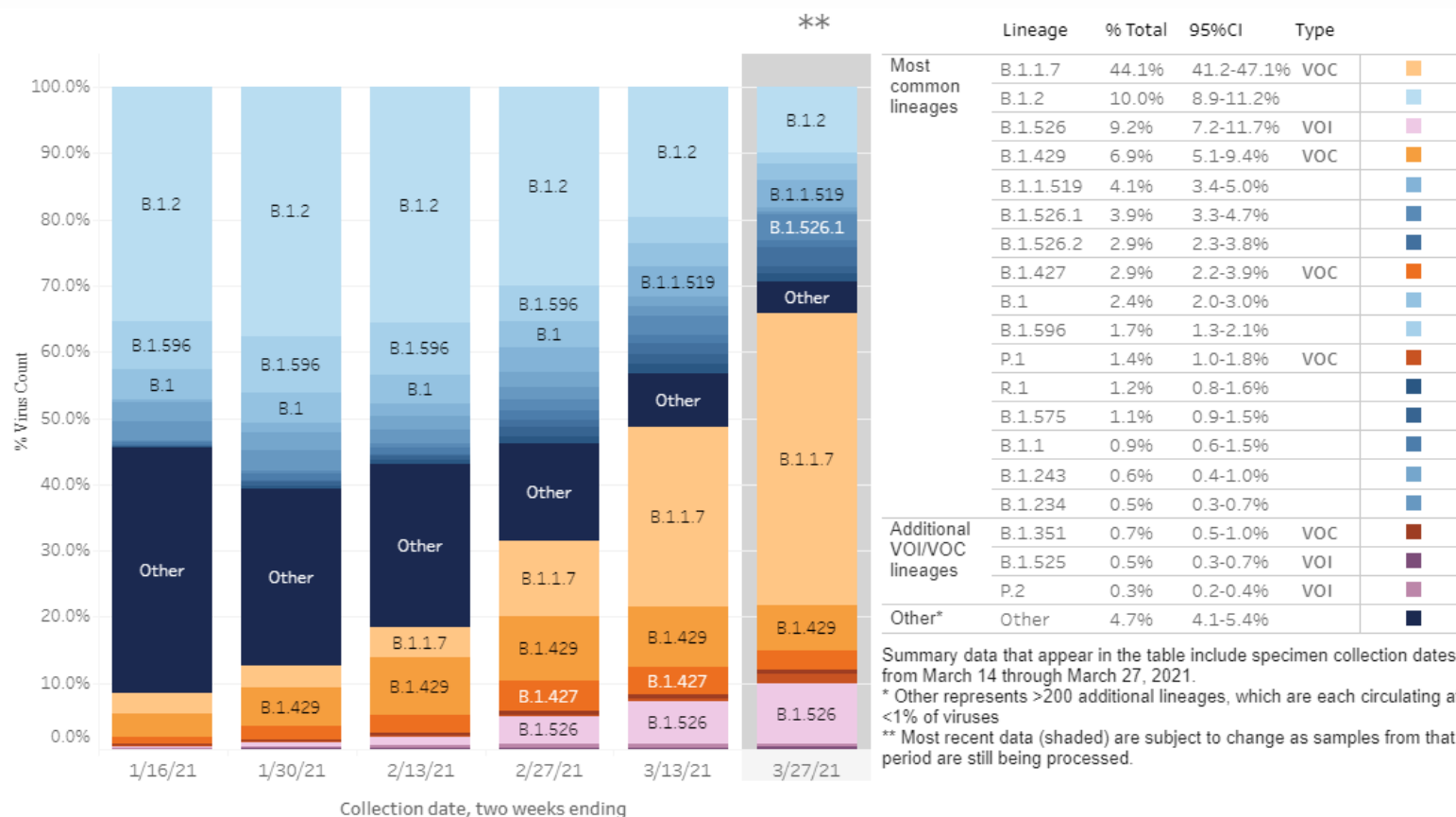
Percentage of Cumulative Cases Sequenced

OR: 2.59%, rank 5



<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/genomic-surveillance-dashboard.html>
Accessed 04.14.2021

Variants Circulating in the US



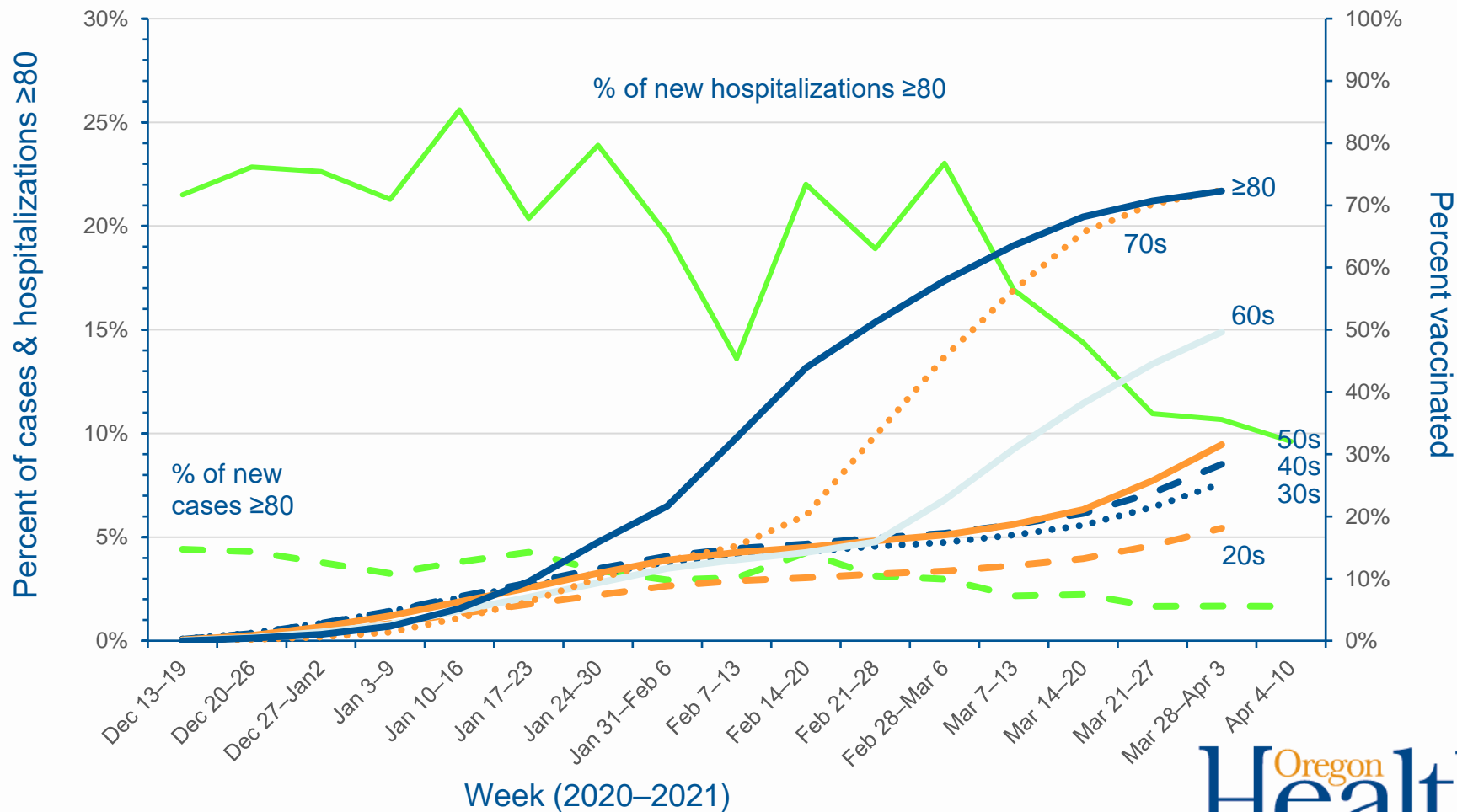
Proportion of SARS-CoV-2 VOC by State

State	B.1.1.7	B.1.351	B.1.427/B.1.429	P.1	Other lineages
Arizona	14.1%		36.0%	0.7%	49.2%
California	15.9%	0.3%	53.8%	1.6%	28.4%
Colorado	29.1%	0.1%	28.1%	0.38	42.0%
Oregon – not updated	5.5%	0.3%	31.3%	0.6%	62.4%
Washington – Not updated	2.2%		27.0%		70.8%
Maryland	39.0%	2.4%	2.9%	0.1%	55.7%
Michigan	57.6%	0.1%	5.8%	0.2%	36.4%
Minnesota	55.6%	0.1%	13.9%	0.3%	30.3%
Wisconsin	23.8%	1.9%	11.1%	1.4%	61.9%

<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-proportions.html>
 Accessed 04.14.2021 - adapted

VACCINATION IMPACT

COVID-19 Cumulative First-dose Vaccination, by Age—Oregon*



HOW DO WE COMPARE

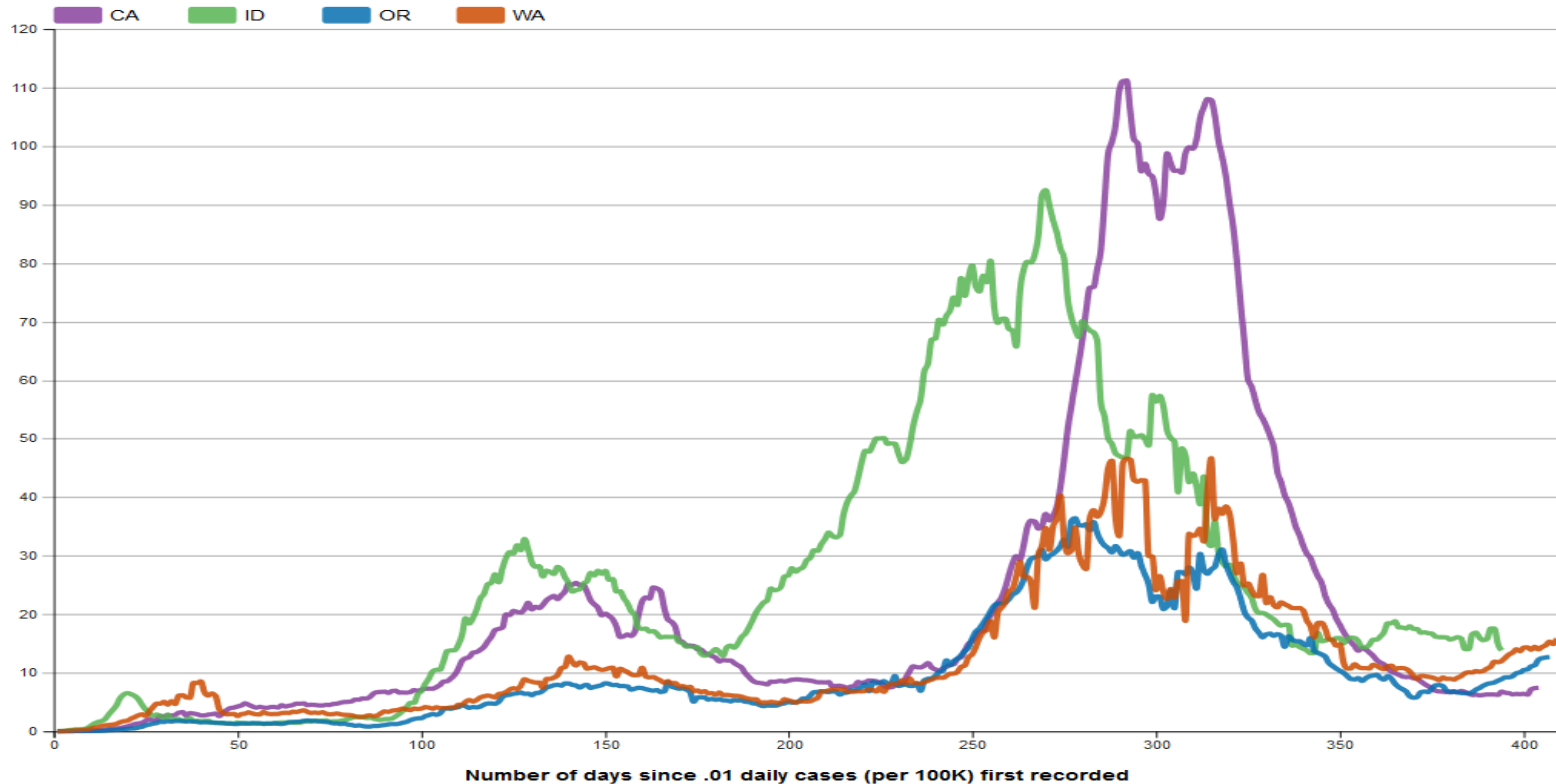
National comparisons

- Disease burden: remains exceptionally low
 - Last 7 days:
 - Daily cases/100,000 rank 56th **lowest** of 50 states
 - Daily deaths/100,000 rank 5th **lowest** of 50 states
 - To date:
 - Cumulative cases/100,000 rank 3rd **lowest** of 50 states
 - Cumulative deaths/100,000 rank 5th **lowest** of 50 states
- Testing volume: remains mid-pack
 - Last 7 days:
 - Daily PCR tests/100,000 rank 21st
 - To date:
 - Cumulative PCR tests/100,000 rank 29th
- Seroprevalence estimate: 6.7%

Regional Comparisons

New cases of Covid-19, reported to CDC, in CA, ID, OR, and WA

Seven-day moving average of new cases (per 100K), by number of days since .01 average daily cases (per 100K) first recorded.

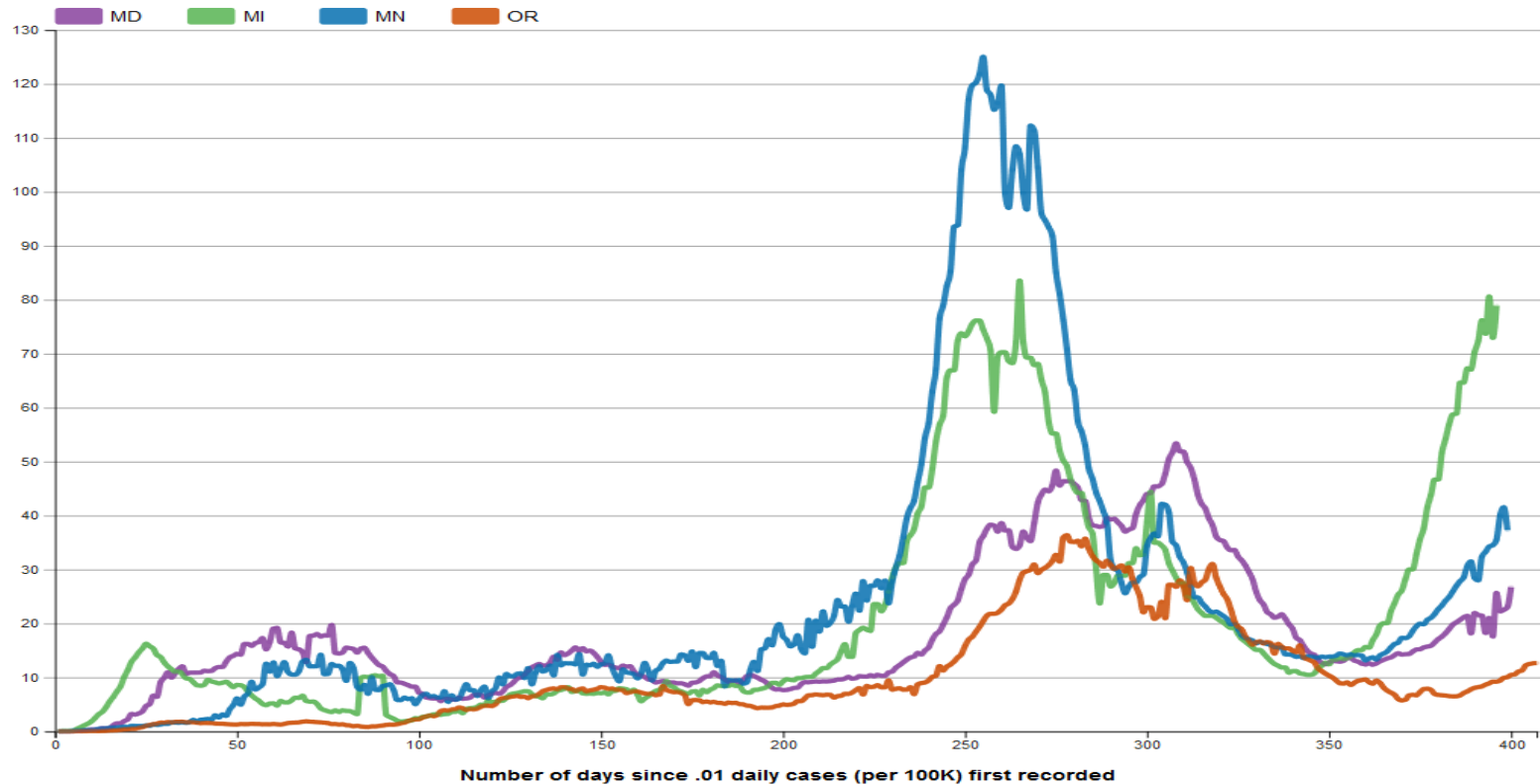


<https://covid.cdc.gov/covid-data-tracker/#datatracker-home>
Accessed 04.14.2021

Select National Comparisons

New cases of Covid-19, reported to CDC, in MD, MI, MN, and OR

Seven-day moving average of new cases (per 100K), by number of days since .01 average daily cases (per 100K) first recorded.



<https://covid.cdc.gov/covid-data-tracker/#datatracker-home>
Accessed 04.12.2021

Questions/ Discussion