

Risk Level Metrics: Schools and Counties

Oregon public health officials have developed evidence-based metrics to determine and track county risk levels. These data guide school reopening and county risk level assignment in Oregon.

What is the data source?

Data presented in this document come from Oregon's case investigation database, the Oregon Pandemic Emergency Response Application (Opera). Opera is the tool by which Local Public Health Authorities (LPHAs) receive and process COVID-19 test results, including Electronic Laboratory Reports (ELRs) and Electronic Case Reports (ECRs), as well as manage information collected from case interviews and medical record reviews.

What is the time period?

On Mondays, OHA pulls the number of COVID-19 cases, cases per 100,000 residents, and test positivity by county for the previous two full weeks from Opera. Weeks run from Sunday to Saturday following the Center for Disease Control's standard Morbidity and Mortality Weekly Report (MMWR) week. The case counts, case rates, and test positivity numbers are used to determine the county risk levels. For case counts and case rates, cases are assigned to a MMWR week based on the date when public health first identified them as a confirmed or presumptive COVID-19 case. For percent test positivity, lab results are assigned to a MMWR week based on the date the test result was reported to public health.

For more information on how the risk levels are determined, please visit:

<https://coronavirus.oregon.gov/Pages/living-with-covid-19.aspx#currentrisklevelbycountyma>

What is the Difference Between a Movement Week and a Warning Week?

County risk levels run on a two-week cycle. The first week is a movement week and the second week is a warning week. On movement weeks, data are updated on Monday and counties are notified of any change in risk level; changes go into effect on the Friday of a movement week. OHA continues to monitor these metrics during warning weeks, however, and provides an update on case counts, rates, and percent positivity.

Where Can I Find My County's Current Risk Level?

For information on what risk level your county is in right now go to:

<https://coronavirus.oregon.gov/Pages/living-with-covid-19.aspx#countystatus>

The map on this site colors counties by their current risk level. New data are pulled every Monday, but the county colors on the map only change on the day counties move risk levels.

How Does OHA Calculate Test Positivity?

OHA receives test results from a variety of laboratories and health care providers. To calculate test positivity, OHA pulls all test results received from Electronic Lab Reports (ELRs) and via Oregon's COVID Reporting Portal (OCR) that were reported to public health in the previous two full MMWR weeks by county. Next, the positive number of test results in each county are divided by the total number of test results in each county to calculate the county's test positivity rate.

Are Adults in Custody (AICs) Included in County Case Counts?

Adults in Custody are not included in case counts or rates for the determination of county risk levels and school operating recommendations. The data presented in this document may include AICs, but OHA examines cases in AICs in state and federal facilities weekly because these individuals do not interact with members of the broader community and do not directly contribute to community spread of COVID-19. If cases of COVID-19 in AICs would lead to a county being placed in a higher risk level, they are manually subtracted from the counts and rates and that is noted below the COVID-19 risk level map [here](#).



Document accessibility: For individuals with disabilities or individuals who speak a language other than English, OHA can provide information in alternate formats such as translations, large print, or braille. Contact the Health Information Center at 1-971-673-2411, 711 TTY or COVID19.LanguageAccess@dhsosha.state.or.us

Risk Level Metrics: Statewide Hospital Beds

Hospital Bed Metrics:

The Oregon Health Authority is updating the County Risk Metrics to include data on the number of hospital beds occupied by COVID-19 positive patients. Starting on April 26, these numbers will be updated **daily** instead of weekly to include the most up to date data. This change was made due to increased disease burden and rising COVID-19 hospitalizations. To see these data go to the Oregon Hospital Capacity Dashboard . <https://public.tableau.com/profile/oregon.health.authority.covid.19#!/vizhome/OregonCOVID-19HospitalCapacity/BedAvailabilitybyRegion>

Counties will not move into the Extreme Risk category unless the following **two** criteria are met **statewide**:

1. The peak daily number of beds occupied by COVID-19 positive patients the previous seven days (including the current day) is ≥ 300 , **AND**
2. The percent increase in total number of COVID-19 positive patient bed-days is 15% or greater when comparing the most recent seven-day period with the previous seven-day period.^[1]

If both criteria are met, counties that meet the case, case rate, or test positivity metric for Extreme Risk based on county size will be moved to Extreme Risk. If either of the hospital bed metrics are not met, then counties that qualify for Extreme Risk will stay in or move to High Risk.

Where does this information come from?

Data are pulled from Oregon's Hospital Capacity Web System (HOSCAP). Every hospital in Oregon is required to submit the number of beds occupied by COVID-19 positive patients twice daily. These data differ from hospitalization data reported from OPERA (Oregon's electronic disease surveillance system for COVID-19), which reports how many cases were ever hospitalized at any point in time. HOSCAP reports how many confirmed COVID-19 cases are currently hospitalized; people are counted on each day of their hospital stay.

What is a COVID-19 positive patient bed-day?

This metric looks at the number of beds occupied by COVID-19 positive patients by day. The number of patient bed-days is the cumulative number of hospital beds being occupied by a person with a positive COVID-19 test over a given period of time. A hospital may report the same number of beds occupied on consecutive days, but that does not mean the same persons with confirmed cases of COVID-19 are occupying those beds.

When are the data pulled?

OHA pulls the number of COVID-19 positive patient hospital beds by day for the previous two consecutive seven day periods **daily** from HOSCAP.

^[1] OHA will round to the nearest tenth; 14.95% will round up to 15.0% and 14.94% will round down to 14.9%.

Weekly Monitoring Periods From Mar. 28 – April 24

This table is based on data pulled at 12:01 AM on April 26, 2021. For case counts and case rates, cases are assigned to a week based on their true case date, which is the date when public health first identified them as a confirmed or presumptive COVID-19 case. For percent positivity in testing, lab results are assigned to a week based on the date their test result was reported to Public Health. All data are provisional and subject to change.

County	County Size	Time Period	Case Count	Cases per 100,000	Test Positivity
Oregon, statewide		03/28/2021 - 04/10/2021	6,593	155.6	4.6%
		04/04/2021 - 04/17/2021	8,252	194.8	5.1%
		04/11/2021 - 04/24/2021	10,193	240.6	5.7%
Baker	Medium‡	03/28/2021 - 04/10/2021	71	422.2	7.0%
		04/04/2021 - 04/17/2021	79	469.7	8.8%
		04/11/2021 - 04/24/2021	99	588.7	12.3%
Benton	Large†	03/28/2021 - 04/10/2021	106	112.3	2.4%
		04/04/2021 - 04/17/2021	127	134.6	2.6%
		04/11/2021 - 04/24/2021	176	186.5	2.6%
Clackamas	Large†	03/28/2021 - 04/10/2021	719	169.8	6.3%
		04/04/2021 - 04/17/2021	897	211.8	6.8%
		04/11/2021 - 04/24/2021	1,036	244.7	6.7%
Clatsop	Large†	03/28/2021 - 04/10/2021	35	89.0	4.6%
		04/04/2021 - 04/17/2021	49	124.6	5.4%
		04/11/2021 - 04/24/2021	54	137.3	6.1%
Columbia	Large†	03/28/2021 - 04/10/2021	139	263.5	9.3%
		04/04/2021 - 04/17/2021	125	237.0	6.8%
		04/11/2021 - 04/24/2021	108	204.8	6.4%
Coos	Large†	03/28/2021 - 04/10/2021	72	113.8	4.2%
		04/04/2021 - 04/17/2021	73	115.3	3.4%
		04/11/2021 - 04/24/2021	72	113.8	3.1%
Crook	Medium‡	03/28/2021 - 04/10/2021	36	153.6	2.0%
		04/04/2021 - 04/17/2021	59	251.7	4.3%
		04/11/2021 - 04/24/2021	107	456.5	8.3%
Curry	Medium‡	03/28/2021 - 04/10/2021	38	165.2	4.2%
		04/04/2021 - 04/17/2021	33	143.5	3.7%
		04/11/2021 - 04/24/2021	40	173.9	3.8%

*Small counties are those with less than 15,000 residents. School reopening decisions in these counties are based on case counts.

‡Medium counties are those with greater than 15,000 but less than 30,000 residents. School reopening decisions in these counties are based on case counts and test positivity.

†Large counties are those with 30,000 or more residents. School reopening decisions in these counties are based on cases per 100,000 and test positivity.

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County	County Size	Time Period	Case Count	Cases per 100,000	Test Positivity
Deschutes	Large†	03/28/2021 - 04/10/2021	428	221.8	5.6%
		04/04/2021 - 04/17/2021	673	348.7	7.4%
		04/11/2021 - 04/24/2021	901	466.8	8.1%
Douglas	Large†	03/28/2021 - 04/10/2021	141	125.6	2.9%
		04/04/2021 - 04/17/2021	121	107.8	2.4%
		04/11/2021 - 04/24/2021	103	91.8	3.0%
Gilliam	Small*	03/28/2021 - 04/10/2021	1	50.2	5.1%
		04/04/2021 - 04/17/2021	2	100.5	3.1%
		04/11/2021 - 04/24/2021	2	100.5	0.0%
Grant	Small*	03/28/2021 - 04/10/2021	69	937.5	16.2%
		04/04/2021 - 04/17/2021	121	1,644.0	13.2%
		04/11/2021 - 04/24/2021	123	1,671.2	6.8%
Harney	Small*	03/28/2021 - 04/10/2021	15	203.8	1.9%
		04/04/2021 - 04/17/2021	12	163.0	1.9%
		04/11/2021 - 04/24/2021	18	244.6	11.9%
Hood River	Medium‡	03/28/2021 - 04/10/2021	15	58.9	2.8%
		04/04/2021 - 04/17/2021	40	157.0	4.7%
		04/11/2021 - 04/24/2021	49	192.3	5.5%
Jackson	Large†	03/28/2021 - 04/10/2021	495	223.7	6.9%
		04/04/2021 - 04/17/2021	543	245.4	6.9%
		04/11/2021 - 04/24/2021	600	271.1	9.6%
Jefferson	Medium‡	03/28/2021 - 04/10/2021	32	134.2	6.0%
		04/04/2021 - 04/17/2021	48	201.3	9.1%
		04/11/2021 - 04/24/2021	52	218.1	9.5%
Josephine	Large†	03/28/2021 - 04/10/2021	203	234.0	6.4%
		04/04/2021 - 04/17/2021	210	242.1	3.5%
		04/11/2021 - 04/24/2021	189	217.9	3.1%
Klamath	Large†	03/28/2021 - 04/10/2021	291	426.8	14.9%
		04/04/2021 - 04/17/2021	404	592.5	16.3%
		04/11/2021 - 04/24/2021	537	787.5	12.9%

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Lake	Small*	03/28/2021 - 04/10/2021	10	123.7	1.3%
		04/04/2021 - 04/17/2021	7	86.6	1.5%
		04/11/2021 - 04/24/2021	12	148.5	12.8%
Lane	Large†	03/28/2021 - 04/10/2021	522	137.8	2.5%
		04/04/2021 - 04/17/2021	684	180.5	3.0%
		04/11/2021 - 04/24/2021	814	214.8	3.5%
Lincoln	Large†	03/28/2021 - 04/10/2021	68	140.9	5.0%
		04/04/2021 - 04/17/2021	72	149.2	5.2%
		04/11/2021 - 04/24/2021	62	128.5	5.1%
Linn	Large†	03/28/2021 - 04/10/2021	225	177.8	5.0%
		04/04/2021 - 04/17/2021	268	211.8	5.8%
		04/11/2021 - 04/24/2021	334	263.9	7.2%
Malheur	Large†	03/28/2021 - 04/10/2021	25	78.0	4.3%
		04/04/2021 - 04/17/2021	27	84.3	4.9%
		04/11/2021 - 04/24/2021	25	78.0	4.3%
Marion	Large†	03/28/2021 - 04/10/2021	477	137.2	5.1%
		04/04/2021 - 04/17/2021	712	204.7	6.9%
		04/11/2021 - 04/24/2021	1,041	299.3	8.8%
Morrow	Small*	03/28/2021 - 04/10/2021	9	71.0	3.8%
		04/04/2021 - 04/17/2021	15	118.3	5.1%
		04/11/2021 - 04/24/2021	18	141.9	6.3%
Multnomah	Large†	03/28/2021 - 04/10/2021	1,138	138.5	3.7%
		04/04/2021 - 04/17/2021	1,370	166.7	3.9%
		04/11/2021 - 04/24/2021	1,818	221.2	4.8%
Polk	Large†	03/28/2021 - 04/10/2021	159	191.7	5.9%
		04/04/2021 - 04/17/2021	166	200.1	5.4%
		04/11/2021 - 04/24/2021	179	215.8	7.0%
Sherman	Small*	03/28/2021 - 04/10/2021	3	169.3	6.8%
		04/04/2021 - 04/17/2021	4	225.7	9.6%
		04/11/2021 - 04/24/2021	1	56.4	4.3%

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Tillamook	Medium‡	03/28/2021 - 04/10/2021	67	252.9	7.8%
		04/04/2021 - 04/17/2021	49	184.9	7.0%
		04/11/2021 - 04/24/2021	35	132.1	5.8%
Umatilla	Large†	03/28/2021 - 04/10/2021	57	70.2	3.0%
		04/04/2021 - 04/17/2021	86	106.0	4.7%
		04/11/2021 - 04/24/2021	114	140.5	5.1%
Union	Medium‡	03/28/2021 - 04/10/2021	40	149.0	2.9%
		04/04/2021 - 04/17/2021	26	96.9	2.2%
		04/11/2021 - 04/24/2021	22	82.0	1.7%
Wallowa	Small*	03/28/2021 - 04/10/2021	9	125.9	4.5%
		04/04/2021 - 04/17/2021	5	69.9	2.1%
		04/11/2021 - 04/24/2021	4	55.9	5.7%
Wasco	Medium‡	03/28/2021 - 04/10/2021	16	58.7	2.4%
		04/04/2021 - 04/17/2021	46	168.9	4.4%
		04/11/2021 - 04/24/2021	74	271.7	6.7%
Washington	Large†	03/28/2021 - 04/10/2021	751	122.4	5.0%
		04/04/2021 - 04/17/2021	974	158.8	5.5%
		04/11/2021 - 04/24/2021	1,184	193.0	5.3%
Wheeler	Small*	03/28/2021 - 04/10/2021	0	0.0	0.0%
		04/04/2021 - 04/17/2021	0	0.0	0.0%
		04/11/2021 - 04/24/2021	1	69.5	10.0%
Yamhill	Large†	03/28/2021 - 04/10/2021	111	102.7	4.6%
		04/04/2021 - 04/17/2021	125	115.7	5.4%
		04/11/2021 - 04/24/2021	189	174.9	5.3%

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