

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 (OCRP) 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 April 11 – May 8

This table is based on data pulled at 12:01 AM on May 10, 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		04/11/2021 - 04/24/2021	10,155	237.9	5.7%
		04/18/2021 - 05/01/2021	11,231	263.1	6.4%
		04/25/2021 - 05/08/2021	10,755	252.0	6.4%
Baker	Medium‡	04/11/2021 - 04/24/2021	98	579.5	12.3%
		04/18/2021 - 05/01/2021	61	360.7	10.6%
		04/25/2021 - 05/08/2021	47	277.9	9.0%
Benton	Large†	04/11/2021 - 04/24/2021	179	189.1	2.6%
		04/18/2021 - 05/01/2021	199	210.2	2.6%
		04/25/2021 - 05/08/2021	204	215.5	3.3%
Clackamas	Large†	04/11/2021 - 04/24/2021	1,040	243.8	6.7%
		04/18/2021 - 05/01/2021	1,203	282.1	7.7%
		04/25/2021 - 05/08/2021	1,253	293.8	8.5%
Clatsop	Large†	04/11/2021 - 04/24/2021	54	136.9	6.1%
		04/18/2021 - 05/01/2021	61	154.6	6.3%
		04/25/2021 - 05/08/2021	52	131.8	5.1%
Columbia	Large†	04/11/2021 - 04/24/2021	108	202.7	6.4%
		04/18/2021 - 05/01/2021	121	227.1	7.7%
		04/25/2021 - 05/08/2021	115	215.8	6.9%
Coos	Large†	04/11/2021 - 04/24/2021	73	115.3	3.1%
		04/18/2021 - 05/01/2021	58	91.6	3.2%
		04/25/2021 - 05/08/2021	43	67.9	2.6%
Crook	Medium‡	04/11/2021 - 04/24/2021	106	452.2	8.3%
		04/18/2021 - 05/01/2021	123	524.7	9.3%
		04/25/2021 - 05/08/2021	128	546.1	8.6%
Curry	Medium‡	04/11/2021 - 04/24/2021	40	173.9	3.8%
		04/18/2021 - 05/01/2021	39	169.5	3.8%
		04/25/2021 - 05/08/2021	30	130.4	5.2%

*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.

Weekly Monitoring Periods From April 11 – May 8

This table is based on data pulled at 12:01 AM on May 10, 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
Deschutes	Large†	04/11/2021 - 04/24/2021	902	457.8	8.1%
		04/18/2021 - 05/01/2021	1,054	535.0	8.8%
		04/25/2021 - 05/08/2021	1,069	542.6	9.0%
Douglas	Large†	04/11/2021 - 04/24/2021	103	91.5	3.0%
		04/18/2021 - 05/01/2021	116	103.1	3.1%
		04/25/2021 - 05/08/2021	132	117.3	4.1%
Gilliam	Small*	04/11/2021 - 04/24/2021	2	100.5	0.0%
		04/18/2021 - 05/01/2021	1	50.3	0.0%
		04/25/2021 - 05/08/2021	5	251.3	0.0%
Grant	Small*	04/11/2021 - 04/24/2021	123	1,681.5	6.8%
		04/18/2021 - 05/01/2021	81	1,107.3	7.6%
		04/25/2021 - 05/08/2021	42	574.2	10.1%
Harney	Small*	04/11/2021 - 04/24/2021	18	247.3	11.9%
		04/18/2021 - 05/01/2021	23	315.9	12.3%
		04/25/2021 - 05/08/2021	20	274.7	10.3%
Hood River	Medium‡	04/11/2021 - 04/24/2021	49	191.1	5.5%
		04/18/2021 - 05/01/2021	41	159.9	5.5%
		04/25/2021 - 05/08/2021	34	132.6	4.9%
Jackson	Large†	04/11/2021 - 04/24/2021	600	268.8	9.6%
		04/18/2021 - 05/01/2021	598	267.9	9.2%
		04/25/2021 - 05/08/2021	487	218.2	7.5%
Jefferson	Medium‡	04/11/2021 - 04/24/2021	51	211.6	9.5%
		04/18/2021 - 05/01/2021	69	286.2	8.9%
		04/25/2021 - 05/08/2021	76	315.3	8.5%
Josephine	Large†	04/11/2021 - 04/24/2021	189	218.3	3.1%
		04/18/2021 - 05/01/2021	183	211.4	5.7%
		04/25/2021 - 05/08/2021	160	184.8	4.8%
Klamath	Large†	04/11/2021 - 04/24/2021	536	787.4	12.9%
		04/18/2021 - 05/01/2021	608	893.1	14.3%
		04/25/2021 - 05/08/2021	526	772.7	17.4%

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Lake	Small*	04/11/2021 - 04/24/2021	12	148.6	12.8%
		04/18/2021 - 05/01/2021	24	297.2	11.0%
		04/25/2021 - 05/08/2021	23	284.8	2.6%
Lane	Large†	04/11/2021 - 04/24/2021	814	213.4	3.5%
		04/18/2021 - 05/01/2021	870	228.1	3.7%
		04/25/2021 - 05/08/2021	808	211.9	3.6%
Lincoln	Large†	04/11/2021 - 04/24/2021	62	128.4	5.1%
		04/18/2021 - 05/01/2021	56	115.9	4.0%
		04/25/2021 - 05/08/2021	44	91.1	3.6%
Linn	Large†	04/11/2021 - 04/24/2021	333	261.5	7.2%
		04/18/2021 - 05/01/2021	420	329.9	7.6%
		04/25/2021 - 05/08/2021	485	380.9	8.5%
Malheur	Large†	04/11/2021 - 04/24/2021	25	77.9	4.3%
		04/18/2021 - 05/01/2021	37	115.2	5.5%
		04/25/2021 - 05/08/2021	64	199.3	6.0%
Marion	Large†	04/11/2021 - 04/24/2021	1,041	298.2	8.8%
		04/18/2021 - 05/01/2021	1,147	328.5	9.2%
		04/25/2021 - 05/08/2021	1,020	292.2	8.3%
Morrow	Small*	04/11/2021 - 04/24/2021	17	132.6	6.3%
		04/18/2021 - 05/01/2021	14	109.2	5.3%
		04/25/2021 - 05/08/2021	14	109.2	3.1%
Multnomah	Large†	04/11/2021 - 04/24/2021	1,780	214.6	4.8%
		04/18/2021 - 05/01/2021	2,095	252.5	6.0%
		04/25/2021 - 05/08/2021	2,014	242.8	5.9%
Polk	Large†	04/11/2021 - 04/24/2021	180	214.8	7.0%
		04/18/2021 - 05/01/2021	174	207.6	7.0%
		04/25/2021 - 05/08/2021	175	208.8	6.1%
Sherman	Small*	04/11/2021 - 04/24/2021	1	55.7	4.3%
		04/18/2021 - 05/01/2021	0	0.0	0.0%
		04/25/2021 - 05/08/2021	1	55.7	2.2%

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Tillamook	Medium‡	04/11/2021 - 04/24/2021	35	131.9	5.8%
		04/18/2021 - 05/01/2021	43	162.1	6.5%
		04/25/2021 - 05/08/2021	41	154.5	6.1%
Umatilla	Large†	04/11/2021 - 04/24/2021	114	139.9	5.1%
		04/18/2021 - 05/01/2021	119	146.0	5.0%
		04/25/2021 - 05/08/2021	111	136.2	5.5%
Union	Medium‡	04/11/2021 - 04/24/2021	22	82.0	1.7%
		04/18/2021 - 05/01/2021	19	70.8	2.0%
		04/25/2021 - 05/08/2021	19	70.8	2.7%
Wallowa	Small*	04/11/2021 - 04/24/2021	4	55.9	5.7%
		04/18/2021 - 05/01/2021	19	265.4	10.7%
		04/25/2021 - 05/08/2021	22	307.3	11.9%
Wasco	Medium‡	04/11/2021 - 04/24/2021	74	271.1	6.7%
		04/18/2021 - 05/01/2021	68	249.1	5.5%
		04/25/2021 - 05/08/2021	38	139.2	3.1%
Washington	Large†	04/11/2021 - 04/24/2021	1,181	190.5	5.3%
		04/18/2021 - 05/01/2021	1,279	206.3	5.8%
		04/25/2021 - 05/08/2021	1,245	200.8	6.3%
Wheeler	Small*	04/11/2021 - 04/24/2021	1	69.4	10.0%
		04/18/2021 - 05/01/2021	1	69.4	8.3%
		04/25/2021 - 05/08/2021	2	138.9	9.4%
Yamhill	Large†	04/11/2021 - 04/24/2021	188	173.1	5.3%
		04/18/2021 - 05/01/2021	207	190.6	5.3%
		04/25/2021 - 05/08/2021	206	189.7	5.6%

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