

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>

When Do Counties Move?

County Risk Levels are updated every week in response to how COVID-19 is spreading in our communities. On Tuesdays, updated data are published and County Risk Levels are assigned. Counties can move to lower risk levels based either on vaccination rates and the submission of an equity plan, or declining case rates and positivity rates. Counties facing moves back up to higher risk levels are placed into a higher risk level during movement weeks only, giving county health partners the warning week to focus efforts on driving case numbers back down before additional health and safety restrictions are renewed. Risk Levels take effect on Friday and remain in effect for the next week.

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](#).

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%.

People with One or More Doses of a COVID-19 Vaccine as of June 14th

*This table is based on data pulled at 12:01AM on June 14, 2021 from Oregon's statewide lifespan immunization registry, Oregon ALERT Immunization Information System. It includes people age 16 and up who have received one dose or more of a COVID-19 vaccine with an Oregon address on file in ALERT IIS, relative to the estimated Oregon population from the 2020 Portland State University Population Research Center. For counties, in order to be eligible to move to Lower Risk in Oregon's Risk Level Framework, **65% or more of the county population 16 and older** must have received at least one dose of COVID-19 vaccine. This is based on ALERT IIS data as well as federal doses from Veterans Affairs, Department of Defense and Federal Bureau of Prisons. Federal doses from these entities are not shown below but are counted toward the county risk metric movement.

County	% 16 and Older with One or More Doses	People 16+ With One or More Doses	Population 16 and Older
Baker	43.4%	6,170	14,203
Benton	70.6%	57,869	82,021
Clackamas	64.0%	224,191	350,209
Clatsop	61.7%	20,209	32,773
Columbia	48.7%	21,441	43,987
Coos	55.2%	29,208	52,930
Crook	47.2%	9,374	19,876
Curry	52.4%	10,678	20,387
Deschutes	67.6%	108,013	159,726
Douglas	43.2%	41,005	94,856
Gilliam	39.6%	673	1,700
Grant	40.4%	2,589	6,406
Harney	40.2%	2,438	6,063
Hood River	70.8%	14,587	20,589
Jackson	51.6%	95,216	184,579
Jefferson	51.2%	10,042	19,632
Josephine	45.4%	33,111	72,926
Klamath	44.6%	25,204	56,458
Lake	34.3%	2,412	7,025
Lane	64.5%	208,615	323,543
Lincoln	68.5%	28,518	41,620
Linn	53.2%	54,422	102,353
Malheur	35.1%	8,932	25,437
Marion	58.8%	160,455	272,859
Morrow	41.3%	4,182	10,138
Multnomah	70.2%	486,437	692,963
Polk	63.3%	42,042	66,370
Sherman	50.7%	759	1,497
Tillamook	62.6%	13,747	21,965
Umatilla	39.0%	24,752	63,489
Union	43.3%	9,303	21,465
Wallowa	55.1%	3,247	5,898
Wasco	56.8%	12,493	21,976
Washington	71.2%	353,603	496,682
Wheeler	49.5%	607	1,226
Yamhill	58.3%	50,919	87,293

Weekly Monitoring Periods From May 16 – June 12

This table is based on data pulled at 12:01 AM on June 14, 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		05/16/2021 - 05/29/2021	5,666	132.8	5.2%
		05/23/2021 - 06/05/2021	4,589	107.5	4.6%
		05/30/2021 - 06/12/2021	3,813	89.3	4.1%
Baker	Medium‡	05/16/2021 - 05/29/2021	11	65.0	2.7%
		05/23/2021 - 06/05/2021	20	118.3	3.4%
		05/30/2021 - 06/12/2021	22	130.1	3.4%
Benton	Large†	05/16/2021 - 05/29/2021	63	66.6	2.0%
		05/23/2021 - 06/05/2021	53	56.0	1.9%
		05/30/2021 - 06/12/2021	45	47.5	1.6%
Clackamas	Large†	05/16/2021 - 05/29/2021	643	150.8	7.1%
		05/23/2021 - 06/05/2021	560	131.3	6.2%
		05/30/2021 - 06/12/2021	445	104.3	5.2%
Clatsop	Large†	05/16/2021 - 05/29/2021	16	40.6	2.1%
		05/23/2021 - 06/05/2021	10	25.3	1.9%
		05/30/2021 - 06/12/2021	16	40.6	3.2%
Columbia	Large†	05/16/2021 - 05/29/2021	73	137.0	4.8%
		05/23/2021 - 06/05/2021	69	129.5	5.3%
		05/30/2021 - 06/12/2021	54	101.4	4.8%
Coos	Large†	05/16/2021 - 05/29/2021	56	88.4	3.6%
		05/23/2021 - 06/05/2021	20	31.6	2.2%
		05/30/2021 - 06/12/2021	13	20.5	1.0%
Crook	Medium‡	05/16/2021 - 05/29/2021	65	277.3	5.9%
		05/23/2021 - 06/05/2021	57	243.2	5.4%
		05/30/2021 - 06/12/2021	73	311.4	7.8%
Curry	Medium‡	05/16/2021 - 05/29/2021	21	91.3	6.1%
		05/23/2021 - 06/05/2021	17	73.9	7.0%
		05/30/2021 - 06/12/2021	18	78.2	5.4%

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‡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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Deschutes	Large†	05/16/2021 - 05/29/2021	491	249.2	7.3%
		05/23/2021 - 06/05/2021	340	172.6	6.1%
		05/30/2021 - 06/12/2021	282	143.1	8.1%
Douglas	Large†	05/16/2021 - 05/29/2021	250	222.2	7.7%
		05/23/2021 - 06/05/2021	250	222.2	9.5%
		05/30/2021 - 06/12/2021	235	208.8	8.1%
Gilliam	Small*	05/16/2021 - 05/29/2021	1	50.2	1.9%
		05/23/2021 - 06/05/2021	8	401.8	11.6%
		05/30/2021 - 06/12/2021	11	552.5	22.9%
Grant	Small*	05/16/2021 - 05/29/2021	7	95.7	6.4%
		05/23/2021 - 06/05/2021	10	136.6	5.8%
		05/30/2021 - 06/12/2021	18	246.0	5.5%
Harney	Small*	05/16/2021 - 05/29/2021	35	480.8	13.5%
		05/23/2021 - 06/05/2021	38	522.0	16.2%
		05/30/2021 - 06/12/2021	31	425.9	15.9%
Hood River	Medium‡	05/16/2021 - 05/29/2021	9	35.1	3.5%
		05/23/2021 - 06/05/2021	9	35.1	3.0%
		05/30/2021 - 06/12/2021	12	46.8	2.4%
Jackson	Large†	05/16/2021 - 05/29/2021	283	126.8	5.4%
		05/23/2021 - 06/05/2021	233	104.4	5.0%
		05/30/2021 - 06/12/2021	188	84.2	5.0%
Jefferson	Medium‡	05/16/2021 - 05/29/2021	92	381.7	11.4%
		05/23/2021 - 06/05/2021	71	294.5	9.8%
		05/30/2021 - 06/12/2021	45	186.7	8.9%
Josephine	Large†	05/16/2021 - 05/29/2021	105	121.3	3.4%
		05/23/2021 - 06/05/2021	75	86.6	3.0%
		05/30/2021 - 06/12/2021	57	65.9	2.4%
Klamath	Large†	05/16/2021 - 05/29/2021	185	271.8	11.2%
		05/23/2021 - 06/05/2021	114	167.5	7.9%
		05/30/2021 - 06/12/2021	73	107.2	6.3%

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County	County Size	Time Period	Case Count	Cases per 100,000	Test Positivity
Lake	Small*	05/16/2021 - 05/29/2021	7	86.7	2.0%
		05/23/2021 - 06/05/2021	3	37.1	0.8%
		05/30/2021 - 06/12/2021	4	49.5	0.9%
Lane	Large†	05/16/2021 - 05/29/2021	362	94.9	2.5%
		05/23/2021 - 06/05/2021	323	84.7	2.6%
		05/30/2021 - 06/12/2021	278	72.9	2.5%
Lincoln	Large†	05/16/2021 - 05/29/2021	11	22.8	1.5%
		05/23/2021 - 06/05/2021	11	22.8	1.7%
		05/30/2021 - 06/12/2021	14	29.0	1.6%
Linn	Large†	05/16/2021 - 05/29/2021	322	252.9	6.6%
		05/23/2021 - 06/05/2021	211	165.7	6.1%
		05/30/2021 - 06/12/2021	157	123.3	4.8%
Malheur	Large†	05/16/2021 - 05/29/2021	32	99.7	8.8%
		05/23/2021 - 06/05/2021	36	112.1	8.0%
		05/30/2021 - 06/12/2021	35	109.0	6.8%
Marion	Large†	05/16/2021 - 05/29/2021	617	176.7	7.2%
		05/23/2021 - 06/05/2021	529	151.5	6.6%
		05/30/2021 - 06/12/2021	420	120.3	5.7%
Morrow	Small*	05/16/2021 - 05/29/2021	22	171.5	8.1%
		05/23/2021 - 06/05/2021	20	155.9	8.0%
		05/30/2021 - 06/12/2021	17	132.6	7.8%
Multnomah	Large†	05/16/2021 - 05/29/2021	872	105.1	4.9%
		05/23/2021 - 06/05/2021	689	83.1	3.7%
		05/30/2021 - 06/12/2021	582	70.2	2.9%
Polk	Large†	05/16/2021 - 05/29/2021	83	99.0	4.5%
		05/23/2021 - 06/05/2021	71	84.7	4.6%
		05/30/2021 - 06/12/2021	67	79.9	4.9%
Sherman	Small*	05/16/2021 - 05/29/2021	5	278.9	6.3%
		05/23/2021 - 06/05/2021	7	390.4	10.8%
		05/30/2021 - 06/12/2021	3	167.3	5.2%

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Tillamook	Medium‡	05/16/2021 - 05/29/2021	10	37.7	1.8%
		05/23/2021 - 06/05/2021	9	33.9	2.3%
		05/30/2021 - 06/12/2021	5	18.8	1.2%
Umatilla	Large†	05/16/2021 - 05/29/2021	165	202.5	6.8%
		05/23/2021 - 06/05/2021	140	171.8	6.2%
		05/30/2021 - 06/12/2021	116	142.3	5.5%
Union	Medium‡	05/16/2021 - 05/29/2021	14	52.2	2.9%
		05/23/2021 - 06/05/2021	22	82.0	4.4%
		05/30/2021 - 06/12/2021	23	85.7	4.9%
Wallowa	Small*	05/16/2021 - 05/29/2021	2	27.9	5.3%
		05/23/2021 - 06/05/2021	5	69.8	8.1%
		05/30/2021 - 06/12/2021	7	97.8	6.5%
Wasco	Medium‡	05/16/2021 - 05/29/2021	37	135.6	6.4%
		05/23/2021 - 06/05/2021	26	95.3	4.8%
		05/30/2021 - 06/12/2021	16	58.6	2.5%
Washington	Large†	05/16/2021 - 05/29/2021	548	88.4	4.3%
		05/23/2021 - 06/05/2021	400	64.5	3.4%
		05/30/2021 - 06/12/2021	331	53.4	2.8%
Wheeler	Small*	05/16/2021 - 05/29/2021	2	139.1	0.0%
		05/23/2021 - 06/05/2021	1	69.5	0.0%
		05/30/2021 - 06/12/2021	1	69.5	7.4%
Yamhill	Large†	05/16/2021 - 05/29/2021	149	137.2	4.8%
		05/23/2021 - 06/05/2021	132	121.5	5.3%
		05/30/2021 - 06/12/2021	99	91.2	3.6%

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