Deschutes County Cases (Cumulative)

1,459 Cases
1,136 released from isolation
13 deaths

Data are shown based on the date a case first became identified as a case.

Data as of 11/9/20
Deschutes County Cases by Week

Data as of 11/9/20
Deschutes County Testing by Week

Tests are shown by week of test collection. Data for the most recent few weeks is not yet complete due to testing turnaround time.

Data as of 11/9/20
School Metrics: Two-week Case Rates per 100,000 population

Data as of 11/9/20

Implement comprehensive distance learning
Consider transition to comprehensive distance learning
On-site and distance learning
Prioritize on-site learning
Two week Rolling Case Rate - Deschutes County

Data are provisional and subject to change.
School Metrics: Two-week Percent Positivity

Data are provisional and subject to change.

Data as of 11/9/20
Daily Count of COVID-19 Patients Hospitalized (St. Charles Health System Data)

Data as of 11/9/20
The following analysis focuses on our “new” outbreaks opened since 10/1/20.

- Deschutes has had 36 new outbreaks opened since 10/1/20, 25 of those in Bend.
- The 36 have 183 associated cases, 30% of all cases 10/1-11/8 (n=606 cases).
- These are not all of our outbreak-associated cases from that time frame, just those cases associated with the 36 new outbreaks opened since 10/1/20.

- **It is very important to understand the limitations on these data:**
  - Our Communicable Disease team is currently conducting case investigation and contact tracing at an heroic scale, > 200 cases 11/4-10, monitoring 279 close contacts. Staffing is very strained to keep up.
  - This precludes lengthy interviews beyond the scope of OPERA (OHA Database)
  - Despite many discussions, OHA has not yet added bars and restaurants to the investigative guidelines nor to the investigation/tracing questionnaire
  - This means that cases so classified are typically only incidental to workplace outbreaks or other outbreak investigations
  - OHA may implement a bar/restaurant/club questionnaire module in the next week or two, so we may have more information going forward soon
  - Thus, absence of evidence in some categories may not = evidence of absence
Deschutes County COVID-19 outbreaks opened since 10/1/20:

N= 36 total new outbreaks opened since 10/1/20
N=183 total cases associated with these new outbreaks. This represents 30% of all new cases (n=606) between 10/1/20 and 11/9/20.

Location of outbreaks:
- 25 in Bend (135 total cases)
- 6 in Redmond (19 cases)
- 2 elsewhere in the county (7 cases)
- 3 involving Deschutes county residents in settings outside of Deschutes County (22 cases)
Setting of outbreaks in Bend (n=25 outbreaks):
- Long term care facility or other congregate living setting: 6 outbreaks (33 total cases)
- Gyms, exercise facilities, and recreational facilities: 3 outbreaks (31 total cases)
- Daycare center or school: 5 outbreaks (27 total cases). These include 2 large, private school outbreaks, with 14 and 6 cases respectively.
- Private parties or gatherings: 1 outbreak (5 total cases)
- Other businesses:
  o Restaurants or bars: 3 outbreaks (5 total cases)
  o Healthcare facilities: 2 outbreaks (7 total cases)
  o “Other” workplaces with operations that are primarily public-facing (e.g., retail, hospitality): 2 outbreaks (8 total cases)
  o “Other” workplaces with operations that are not primarily public-facing (e.g., construction, manufacturing, other): 3 outbreaks (19 total cases)
Bend outbreaks are broken down by sector.

- Outbreaks (cases with shared exposure with other case) and cases continue to occur in long-term care & congregate housing.
- Most concerning may be how many cases are associated with gyms, exercise, and recreational facilities.
- Daycare operations and schools are also major settings for outbreaks and cases.
- Construction employees are in outbreaks and among sporadic (i.e., no known exposure to another case or outbreak) cases, but some appear to be acquiring Covid19 in social gatherings.
- With colder weather, these operations may move to the interiors of incomplete structures, often sealed with plastic sheeting and heated by forced air space heaters. Attention to air exchange ventilation, masks, and distancing will be important.
Selected community mitigation measures* and COVID-19 case counts† and 7-day moving averages§ — Arizona, January 22–August 7, 2020

- Mar 19: Limited public events; senior living facility visitation restrictions; closures of restaurants for dine-in, bars, gyms, movie theaters
- Mar 15: Limited public events; school closures
- Mar 11: Arizona public health emergency declaration
- Apr 29–May 11: Phased reopening; limitations on retail, cosmetologists, barbers, dine-in services
- May 15: Stay-at-home order lifted; closures expired
- Jun 29: Limited public events; closure of bars, gyms, movie theaters, water parks, recreational tubing facilities
- Jun 17: Local officials able to mandate and enforce wearing of masks
- Jul 9: Reduced restaurant dine-in capacity (50%); social distancing
- Jul 23: Limitations and closures extended
Arizona’s prevention and control measures over the summer months helped slow the spread of COVID-19

Number of cases stabilized then decreased after multiple statewide and local prevention measures implemented

151% ↑ in cases after stay-at-home order lifted

- Mask requirements
- Limited public events
- Closures of certain businesses

75% ↓ in cases following sustained prevention efforts across the state

CDC.GOV
bit.ly/MMWR10620
The difference between droplet and airborne transmission

**Droplet transmission**
Coughs and sneezes can spread droplets of saliva and mucus

**Airborne transmission**
Tiny particles, possibly produced by talking, are suspended in the air for longer and travel further

Less than 5 microns

Droplets

Human hair: 60 - 120 microns wide

Source: WHO

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**COVID-19 BE INFORMED:**
Know Your Risk During COVID-19

On a scale of 1 to 10, how risky is...

1. Opening the mail
2. Getting restaurant takeaway
3. Pumping gasoline
4. Playing tennis
5. Going camping
6. Grocery shopping
7. Going for a walk, run, or bike ride with others
8. Playing golf
9. Staying at a hotel for two nights
10. Stringing in a doctor's waiting room
11. Going to a library or museum
12. Ending in a restaurant (outside)
13. Walking in a busy downtown
14. Spending an hour at a playground
15. Having dinner at someone else's house
16. Attending a backyard barbecue
17. Going to a beach
18. Shopping at a mall
19. Sending kids to school, camp, or day care
20. Working a week in an office building
21. Swimming in a public pool
22. Visiting an elderly relative or friend in their home
23. Going to a hair salon or barbershop
24. Eating in a restaurant (inside)
25. Attending a wedding or funeral
26. Traveling by plane
27. Playing basketball
28. Playing football
29. Hugging or shaking hands when greeting a friend
30. Eating at a buffet
31. Working out at a gym
32. Going to an amusement park
33. Going to a movie theater
34. Attending a large music concert
35. Going to a sports stadium
36. Attending a religious service with 100+ worshippers
37. Going to a bar

*Low Risk*

*Low-Moderate Risk*

*Moderate Risk*

*High Risk*
Tips for Reducing Risk of Getting COVID-19

Things that Increase Risk

- No Masks Worn
- Crowded Place
- Indoor Space

HOT SPOT

Things that Decrease Risk

- Masks Worn
- 6 Feet of Space Between People
- Outdoor Space

SAFE SPOT

www.cdc.gov/coronavirus
School reopening approaches

- DOE & OHA revised reopening metrics
- Biweekly SARS-CoV-2 Antigen testing for teachers and staff?
- Ventilation assessment and improvements
- Rigorous attention to cohorting:

Age-appropriate cohorting
HEALTHY CLASSROOMS
Following safe practices in classrooms.

- Wear masks
- Wash hands frequently
- Maximize physical distancing to protect individuals
- Maximize group distancing to slow transmission chains
- Disinfect objects between users

HEALTHY BUILDINGS
Breathing clean air in the school building.

- Increase outdoor air ventilation
- Filter indoor air
- Supplement with portable air cleaners
- Verify ventilation and filtration performance
- Consider advanced air quality techniques
- Use plexiglass as physical barrier
- Install no-contact infrastructure
- Keep surfaces clean
- Focus on bathroom hygiene
HEALTHY POLICIES

Building a culture of health, safety, and shared responsibility.

- Establish and reinforce a culture of health, safety, and shared responsibility
- Form a COVID-19 response team and plan
- Prioritize staying home when sick
- Promote viral testing and antibody testing
- Establish plans for when there is a case
- Support remote learning options
- De-densify school buildings
- Protect high-risk students and staff

HEALTHY SCHEDULES

Moving between rooms and locations safely.

- Manage transition times and locations
- Make lunchtime safer
- Rethink transportation
- Modify attendance
5 Step Guide to Measuring Ventilation Rates in Classrooms

1. Measure the Classroom Dimensions
2. Perform Preliminary Audio and Visual Checks
3. Measure or Estimate Outdoor Air Ventilation Rate (using one of four methods)
4. Compare Results to Targets
5. If Needed, Consider Supplemental Air cleaning Strategies to Meet Targets
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<td><strong>STEP 1. HOW BIG IS THE ROOM?</strong></td>
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<td>Select units of preference</td>
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<td>How big is your room?</td>
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<td>How tall are your ceiling?</td>
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<td>4</td>
<td><strong>STEP 2. WHAT IS THE 'CLEAN AIR DELIVERY RATE' OF THE AIR PURIFIER?</strong> (you get this from the manufacturer)</td>
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<td>How tall are your ceiling?</td>
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<td>What is the clean air delivery rate of the air cleaner?</td>
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<td><strong>STEP 3. HOW MUCH OUTDOOR AIR VENTILATION DO YOU HAVE?</strong></td>
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<td>How is the ventilation in my school?</td>
<td>Low ventilation</td>
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<td>Good ventilation</td>
<td>3 ACH</td>
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<td>Enhanced ventilation</td>
<td>4 ACH</td>
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<td>Typical school</td>
<td>1.5 ACH</td>
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<td>Low ventilation</td>
<td>1 ACH</td>
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<td>12</td>
<td><strong>STEP 4. COMBINING AIR CLEANING AND VENTILATION, IS YOUR ROOM MEETING THE TARGET?</strong></td>
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<td>Air changes from outdoor air ventilation</td>
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<td>TARGET IS AT LEAST 5 TOTAL AIR CHANGES PER HOUR</td>
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<td>Air changes from air cleaner</td>
<td>4.5</td>
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<td>Clear (8 ACH)</td>
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<td>15</td>
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<td>Total air changes in the room per hour</td>
<td>5.5</td>
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<td>Good (5-6 ACH)</td>
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<td>Satisfactory (4-5 ACH)</td>
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<td>Low (&lt;3 ACH)</td>
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<td><strong>STEP 5. WHAT SIZE ROOM WILL WORK FOR THIS PORTABLE AIR CLEANER?</strong></td>
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<td>19</td>
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<td>Cubic feet per minute (cfm) of clean air from cleaner</td>
<td>300</td>
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<td>This is from the manufacturer (see cell C10)</td>
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<td>Cubic feet per minute (cfm) of outdoor air from ventilation</td>
<td>67</td>
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<td>This is calculated from air changes per hour and volume of room</td>
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<td>21</td>
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<td>Total cfm of air cleaning and ventilation</td>
<td>367</td>
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<td>Recommended room size for this air cleaner (in square feet)</td>
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<td>This is the recommended maximum size of the room for this air cleaner to achieve 5 total ACH</td>
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Recommendations and reminders:

- Our communities must set a high priority on reopening schools, and organizing around how to do that (i.e., bringing COVID-19 infection rates down, improving ventilation and cohorting, consider routine testing).
- Focused outreach to teens and young adults re: risk avoidance
- Message and discourage large Holiday gatherings
- Maintaining social distance indoors and out
- Universal mask wearing at all times around others that are not household members:
  - Promote as a social norm, enforcement as necessary
  - Energetic outreach and enforcement as indicated for high-risk settings
- Continue to better define what interactions carry the highest risk
Thanks

Questions?


gleorge.conway@Deschutes.org