



COVID-19 County Alert System

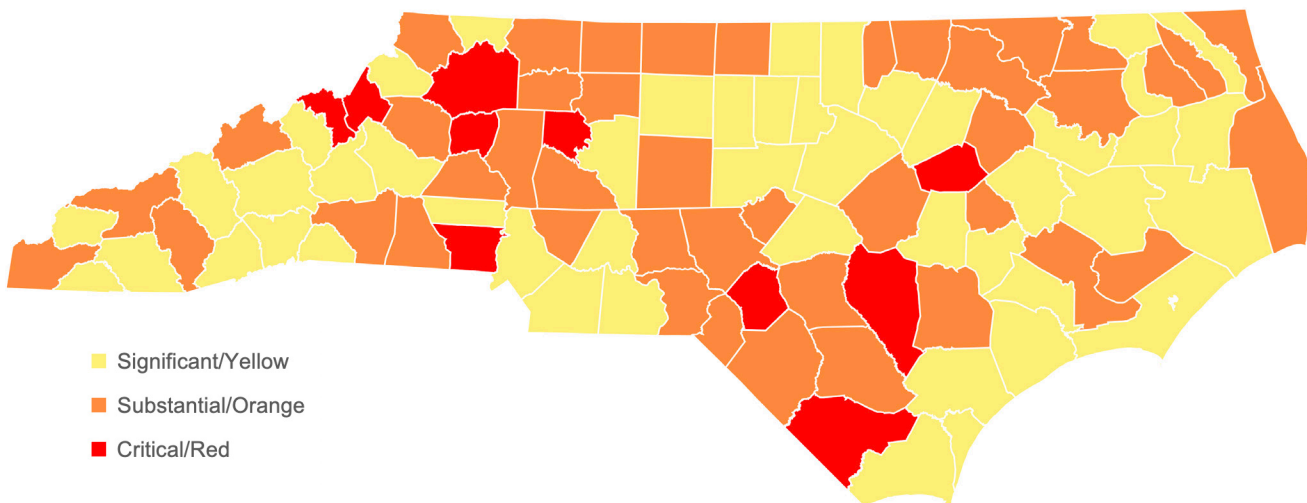
Introduction

North Carolina is experiencing high levels of community transmission of COVID-19 statewide, but the virus is impacting some counties particularly hard. The State has established a COVID-19 County Alert System to give individuals, businesses, community organizations, and public officials another tool to understand how their county is faring and to make decisions about actions to slow the spread of the virus. The COVID-19 County Alert System uses metrics informed by the White House Coronavirus Task Force and North Carolina's key metrics to categorize counties into three tiers:

1. **Yellow:** Significant Community Spread
2. **Orange:** Substantial Community Spread
3. **Red:** Critical Community Spread

Because no one metric provides a complete picture, the COVID-19 County Alert System uses a combination of three metrics: case rate, the percent of tests that are positive, and hospital impact within the county.

NC Counties by Tier: November 1, 2020 – November 14, 2020



A complete list of counties and their metrics is listed at the end of the report.

County Metrics

The COVID-19 County Alert System uses a combination of metrics to determine whether a county meets criteria to be in the red or orange tier. These metrics provide information about the amount of viral spread and hospital impact in the county.

How Tiers are Determined:

To be assigned to the red or orange tier, a county must meet the threshold for case rate for that tier **AND** the threshold for either percent positive OR hospital impact.

- **Case Rate:** The number of new cases in 14 days per 100,000 people
- **Percent Positive:** The percent of tests that are positive over 14 days
- **Hospital Impact:** A composite score based on the impact that COVID-19 has had on hospitals including percent of COVID-19 hospitalizations, COVID-19 related visits to the Emergency Department, staffed open hospital beds, and critical staffing shortages over 14 days

	Counties must meet:	And meet one of these:	
	Case rate	Percent positive	Hospital Impact within the county*
Critical (red)	>200/100k new cases in 14 days with at least 42 cases in 14 days.	>10%	High Impact on county hospital(s)
Substantial (orange)	101-200/100k new cases in 14 days with at least 21 cases in 14 days.	8-10%	Moderate Impact on county hospital(s)

*Counties without a hospital are assigned the average hospital impact score from the county where the highest percentage of their inpatient hospital admissions occurred.

Counties that do not meet criteria for the red or orange tier are categorized as being in the yellow tier (significant community spread) and should continue to be vigilant to prevent further spread of COVID-19.

Recommended Actions for Individuals, Businesses and Community Organizations, and Public Officials

There are critical actions we can all take to slow the spread of COVID-19, regardless of whether your county is currently in the yellow, orange, or red tier. Individuals, businesses, community organizations, and public officials all have a responsibility to take these recommended actions, in addition to following the requirements in existing [Executive Orders](#) and [NC DHHS guidance](#). Red and orange counties need to do even more to slow the spread of COVID-19 in their communities; it is strongly recommended these counties go further and build upon current requirements as outlined in the recommendations below.

Note: If more than 25% of cases are linked to outbreaks in congregate living settings, additional outbreak mitigation steps may be recommended.



Individual Actions

ALL INDIVIDUALS

- Wear a mask at all times outside the home and maintain physical distance from people who do not live in your household
- Download the [SlowCOVIDNC app](#) and share with friends and family; if you test positive, enter your pin into the app to notify close contacts to get tested
- Get a flu shot
- Get [tested](#) if [symptomatic](#) or if you think you have been exposed to COVID-19
- Answer the call and participate in contact tracing
- Avoid large gatherings and crowds
- If you must host or attend a gathering, limit attendance to 10 or fewer, host outdoors, and ventilate indoor spaces as much as possible (e.g., keep windows open) (resources: [Guidance for Private Social Gatherings](#))
- Avoid non-essential travel

INDIVIDUALS IN RED AND ORANGE COUNTIES

Individuals in red and orange counties should take the actions listed for All Individuals AND the actions below to slow the spread of COVID-19 in their community.

- Limit mixing between households and minimize the number of people in your social circle
- Avoid settings where people congregate, like outdoor bars and night clubs (in NC, indoor bars remain closed and indoor night clubs must remain below indoor mass gathering limits)
- If patronizing restaurants, consider ordering take out from restaurants and/or eating outdoors socially distanced
- Individuals who are [high-risk for developing serious illness](#) should consider staying at home as much as possible
- Reduce your public interactions to mainly essential activities like going to work or school, caring for family members, buying food, getting health care or picking up medications



Businesses & Community Organization Actions

ALL BUSINESSES AND COMMUNITY ORGANIZATIONS

- Share messages about the importance of wearing a mask and [practicing the 3Ws](#)
- Post [signs about 3Ws at entrances in accordance with executive order](#)
- Provide face coverings to employees and patrons (resources: certain organizations can [request PPE](#))
- Support employees to stay home when sick (resources: [Check My Symptoms](#))
- Strongly encourage all employees download and use the [SlowCOVIDNC app](#)
- Follow [general guidance for businesses and organizations](#) as well as [industry-specific guidance](#)
- Take actions from the [business toolkit](#)
- Community and religious organizations are strongly encouraged to:
 - Hold meetings, events, and/or services online/virtually, or
 - Limit occupancy at indoor meetings, events, or services to ensure social distancing and require face coverings
- Follow guidance in [Places of Worship Guidance](#) and [Faith Leaders Toolkit](#)

BUSINESSES AND COMMUNITY ORGANIZATIONS IN RED AND ORANGE COUNTIES

Businesses and community organizations in red and orange counties should take actions listed for All Businesses and Community Organizations AND actions below to slow the spread of COVID-19 in their community.

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- All businesses are strongly encouraged to implement teleworking if feasible and cancel any non-essential work travel
 - Promote [Find My Testing Place](#) website to employees
 - Require all employees to participate in [Count on Me NC training](#)
 - Manufacturing, construction, food processing, farms – request a consultation from NCDHHS on reducing workplace transmission (919-707-5900)
 - [Institutes of Higher Education](#)
 - Adopt strict restrictions on student gatherings and events on-campus and off-campus
 - Close indoor dining and move to grab and go
 - Consider moving to single occupancy dorms or other single occupancy living arrangements
 - Community and religious organizations should avoid any in-person indoor meetings, events, worship services, or other gatherings above the indoor mass gathering limit



PUBLIC OFFICIALS IN ALL COUNTIES

- Role model and actively [promote 3Ws](#). Always wear a mask when you are with people you do not live with
- Post [signs about the 3Ws](#) in all public buildings
- Work with local media to share messages about the importance of wearing a mask and [practicing the 3Ws](#)
- Have all public employees download and use the [SlowCOVIDNC app](#)

PUBLIC OFFICIALS IN RED AND ORANGE COUNTIES

Public officials in red and orange counties should take actions listed for Public Officials in All Counties AND actions below to slow the spread of COVID-19 in their community.

- Meet with State officials to discuss plans for mitigating spread
- Work with the state to expand availability of [no-cost testing](#) to residents, especially prior to holiday travel
- Work with the state to increase availability of non-congregate housing
- Increase messaging on the risk of serious disease for older individuals and individuals in all age groups with certain underlying medical conditions [identified by CDC](#), and recommend those individuals stay at home as much as possible
- Adopt ordinances that allow for the use of civil penalties for enforcement of the statewide restrictions
- Increase enforcement of mass gathering limits and masks with local law enforcement or other local regulators or inspectors, such as the fire marshal
- Consider adopting local ordinances to end alcohol sales for onsite consumption at an earlier time
- Consider adopting local ordinances with additional restrictions for public facing businesses

State Resources for Counties

The State can provide additional resources to support counties. Public officials from counties that are in the red or orange tier, in coordination with their local health departments, should contact the State to meet to discuss plans for mitigating spread. Our intent is to prioritize resources for counties in red and orange tiers as we make resource allocation decisions.



Prevention communications

- Targeted promotion of prevention campaigns/communications, including to specific sub-populations in the county
- Direct outreach to stakeholder groups through webinars, presentations, or town halls
- DHHS leadership can speak on local media outlets about prevention



Enforcement

- Department of Public Safety outreach to local law enforcement
- DHHS to issue warning letters to establishments not complying with the Governor's Executive Order
- DHHS Secretary to issue imminent hazard abatement orders to establishments where there is an imminent threat to the public health
- Increased communications to Alcohol Law Enforcement (ALE)/Alcoholic Beverage Control (ABC) Commission, and other regulatory groups to enforce



Ramp up testing

- Deploy state and/or federally sponsored testing vendors, if not already present in county, to host community testing events
- Deploy rapid, point-of-care antigen tests for targeted testing
- Assist in identifying additional capacity for specimen processing
- Help county plan local testing event(s), including finding additional local partners to engage



Ramp up support to Local Health Departments

- Surge staff for data entry, case investigation, and contact tracing
- Provide technical assistance on case investigation and contact tracing
- Provide technical assistance on reducing workplace transmission at manufacturing, construction, food processing plants, and farms



Wrap-around services

- Provide technical assistance on setup, funding, and reimbursement for non-congregate sheltering
- Help promote Support Services program (relief payments, food assistance, COVID-19 supplies, transportation, and medication delivery) in counties with services available

Frequently Asked Questions

If my county is in the red or orange tier, what can I do to help my county move out of the red or orange tier?

Individuals, business leaders, community leaders, and public officials all have actions they can take to help slow the spread of COVID-19 in their community (outlined on page 3 of this report).

How were these metrics selected?

The selected metrics align with the White House Coronavirus Task Force for cases per 100,000 individuals and for percent positive. Hospital stakeholders were consulted on how to best measure the impact of the pandemic on individual hospitals.

What is a case rate and how is it calculated?

To compare counties with different populations to one another, the COVID-19 County Alert System uses a case rate. This is the same case rate measure that the White House Coronavirus Task Force uses to compare counties and states. It shows how many new cases there are per 100,000 people in the county over a 14 day period.

How is percent of tests that are positive determined?

The percent of tests that are positive is the number of positive COVID-19 molecular (PCR) test results divided by the total number of molecular (PCR) test results during the period of interest. This calculation only includes results from laboratories that electronically report both positive and negative results to NC DHHS. Antigen tests are excluded from percent positivity calculations to align with current CDC definitions used to calculate percent positivity.

How is hospital impact measured?

Hospital impact is based on a composite score of four measures:

1. Percent of hospitalizations from COVID-19
2. COVID-19 related visits to the Emergency Department
3. Total number of open beds for which the hospital has people to staff*
4. Critical Staffing Shortages

*Patients cannot be placed in an open bed if there are not the necessary number of staff to provide support.

What if my county doesn't have a hospital or has more than one hospital?

Counties without a hospital are assigned the average hospital impact score from the county where the highest percentage of their inpatient hospital admissions occurred. Counties with multiple hospitals received the average composite score from all the hospitals in the county.

What happens if my county's case rate, percent positive, or hospital impact measures fall into different tiers?

A county must meet the criteria for case rate AND either percent positive or hospital impact to be in a red or orange tier. For example, if a county meets the orange tier criteria for case rate but meets the red tier criteria for percent positive and hospital impact, then the county will be assigned to the orange tier. Alternatively, if a county meets the red tier criteria for case rate, but meets the orange tier criteria for percent positive and hospital impact, then the county will be assigned to the orange tier.

Frequently Asked Questions (CONTINUED)

Why doesn't the COVID-19 County Alert System use Emergency Department visits for COVID-Like Illness?

Emergency department (ED) visits for COVID-Like Illness are closely tracked at the state and regional level, but are less useful at the county level particularly for counties with smaller populations and fewer ED visits. Instead, the COVID-19 County Alert System uses the numbers of COVID-19 -related ED visits that are directly reported daily by hospitals.

What if my counties case rate is high, but there are only a small number of cases?

Many small counties may have a high case rate, but a relatively small number of cases because the county has a smaller population. To account for this, there is a minimum number of cases that counties must have to be categorized as red or orange (42 cases in last 14 days for red tier; 21 cases in last 14 days for orange tier).

How often will the COVID-19 County Alert System be updated?

After the initial report, NCDHHS will publish this report on the 2nd week of each month. Counties that are identified as meeting criteria for the red or orange tiers will be categorized in those tiers for at least 4 weeks.

How can I see how my county is doing after this report is published?

County metrics are published on the NCDHHS public dashboard. You can go to the [NCDHHS COVID-19 dashboard](#) to monitor your county's [case rate](#) and [percent positive](#). County officials can engage with their local hospitals to understand where and how they need support.

What should schools/school districts do if they are in a county that is in the red or orange tier?

School leaders should continue to work with their local health departments to determine the best plan for their district and/or school. Schools may continue to stay open according to plans allowed by the State (as of November 17, elementary schools can open in Plan A and middle and high schools can open in Plan B). Strict adherence to the prevention strategies in the [StrongSchoolsNC Public Health Toolkit \(K-12\)](#) are critically important. Additional information on CDC Indicators for Dynamic School Decision-Making found at <https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/indicators.html>.

What should counties do if they are in the yellow tier?

All executive orders apply to all North Carolina counties and their residents. Individuals, businesses, community organizations, and public officials in counties in the yellow tier should:

- Follow Executive Orders
- Continue prevention messaging
- Take recommended actions outlined on pages 3-5

Metrics by County

Metrics are based on data from November 1, 2020 to November 14, 2020.

* Counties that did meet the case rate threshold, but did not meet the minimum number of cases for the red tier (42 cases) or orange tier (21 cases).

^ Percent Positivity estimates in this table are rounded to the nearest decimal place. Tiers are assigned based on unrounded percent positivity estimates.

County	Final Tier	14-day Case Rate Per 100,000	14-day Percent Positive [^]	Hospital Impact
Alamance County	Significant/Yellow	391.1	6.8%	Low Impact
Alexander County	Critical/Red	914.7	16.8%	Low Impact
Alleghany County	Significant/Yellow	386.1	7.1%	Low Impact
Anson County	Significant/Yellow	323.2	6.6%	Low Impact
Ashe County	Substantial/Orange	514.6	8.7%	Low Impact
Avery County	Critical/Red	427.2	11.3%	Low Impact
Beaufort County	Significant/Yellow	200.0	5.1%	Low Impact
Bertie County	Substantial/Orange	343.1	8.3%	Low Impact
Bladen County	Substantial/Orange	290.3	8.2%	Low Impact
Brunswick County	Significant/Yellow	219.2	6.3%	Low Impact
Buncombe County	Significant/Yellow	207.5	4.1%	Low Impact
Burke County	Significant/Yellow	394.5	4.6%	Low Impact
Cabarrus County	Substantial/Orange	355.3	8.5%	Moderate Impact
Caldwell County	Substantial/Orange	416.2	7.6%	Moderate Impact
Camden County	Significant/Yellow	174.8*	10.9%	Low Impact
Carteret County	Significant/Yellow	300.8	7.1%	Low Impact
Caswell County	Substantial/Orange	380.5	8.2%	Low Impact
Catawba County	Substantial/Orange	573.5	9.5%	Low Impact
Chatham County	Significant/Yellow	271.3	6.3%	Low Impact
Cherokee County	Substantial/Orange	255.1	9.5%	Low Impact
Chowan County	Significant/Yellow	236.7*	4.4%	Low Impact
Clay County	Significant/Yellow	213.7*	3.6%	Low Impact
Cleveland County	Substantial/Orange	425.7	9.0%	Low Impact
Columbus County	Critical/Red	724.2	15.8%	Moderate Impact
Craven County	Substantial/Orange	245.7	5.5%	Moderate Impact
Cumberland County	Substantial/Orange	259.9	8.7%	Low Impact

Metrics by County (CONTINUED)

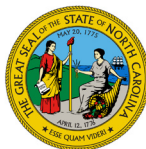
County	Final Tier	14-day Case Rate Per 100,000	14-day Percent Positive [^]	Hospital Impact
Currituck County	Substantial/Orange	180.1	8.5%	Low Impact
Dare County	Substantial/Orange	386.4	8.3%	Moderate Impact
Davidson County	Significant/Yellow	337.1	7.4%	Low Impact
Davie County	Critical/Red	410.8	10.4%	Low Impact
Duplin County	Substantial/Orange	320.0	6.2%	Moderate Impact
Durham County	Significant/Yellow	312.9	6.1%	Low Impact
Edgecombe County	Substantial/Orange	421.6	9.1%	Low Impact
Forsyth County	Substantial/Orange	465.3	8.6%	Low Impact
Franklin County	Significant/Yellow	302.8	6.8%	Low Impact
Gaston County	Critical/Red	456.5	8.7%	High Impact
Gates County	Significant/Yellow	147.0*	8.1%	Low Impact
Graham County	Significant/Yellow	165.9*	2.1%	Low Impact
Granville County	Significant/Yellow	355.7	5.0%	Low Impact
Greene County	Substantial/Orange	583.8	8.4%	Low Impact
Guilford County	Significant/Yellow	395.6	7.9%	Low Impact
Halifax County	Substantial/Orange	437.9	9.8%	Moderate Impact
Harnett County	Significant/Yellow	264.0	7.4%	Low Impact
Haywood County	Significant/Yellow	186.1	6.1%	Low Impact
Henderson County	Significant/Yellow	189.1	4.4%	Low Impact
Hertford County	Substantial/Orange	207.0	8.2%	Low Impact
Hoke County	Critical/Red	298.7	13.6%	Low Impact
Hyde County	Significant/Yellow	81.0	3.4%	Low Impact
Iredell County	Substantial/Orange	308.0	8.4%	Moderate Impact
Jackson County	Substantial/Orange	366.4	8.3%	Low Impact
Johnston County	Substantial/Orange	339.6	8.7%	Low Impact
Jones County	Significant/Yellow	191.1*	3.5%	Moderate Impact
Lee County	Substantial/Orange	199.1	6.3%	Moderate Impact
Lenoir County	Significant/Yellow	420.0	5.1%	Low Impact
Lincoln County	Significant/Yellow	427.4	8.0%	Low Impact
Macon County	Significant/Yellow	209.2	5.6%	Low Impact

Metrics by County (CONTINUED)

County	Final Tier	14-day Case Rate Per 100,000	14-day Percent Positive [^]	Hospital Impact
Madison County	Substantial/Orange	413.7	8.4%	Low Impact
Martin County	Significant/Yellow	254.0	4.4%	Low Impact
McDowell County	Significant/Yellow	421.8	6.4%	Low Impact
Mecklenburg County	Significant/Yellow	340.0	7.3%	Low Impact
Mitchell County	Critical/Red	835.3	11.6%	Low Impact
Montgomery County	Substantial/Orange	250.2	8.5%	Low Impact
Moore County	Substantial/Orange	237.9	6.8%	Moderate Impact
Nash County	Significant/Yellow	425.2	7.8%	Low Impact
New Hanover County	Significant/Yellow	296.0	6.7%	Low Impact
Northampton County	Substantial/Orange	472.2	8.3%	Moderate Impact
Onslow County	Significant/Yellow	303.1	6.4%	Low Impact
Orange County	Significant/Yellow	235.1	3.3%	Low Impact
Pamlico County	Substantial/Orange	220.0*	4.0%	Moderate Impact
Pasquotank County	Substantial/Orange	231.0	9.0%	Low Impact
Pender County	Significant/Yellow	233.1	7.8%	Low Impact
Perquimans County	Substantial/Orange	260.0*	10.9%	Low Impact
Person County	Significant/Yellow	303.9	7.6%	Low Impact
Pitt County	Significant/Yellow	393.9	6.6%	Low Impact
Polk County	Significant/Yellow	106.2	4.9%	Low Impact
Randolph County	Substantial/Orange	483.1	9.6%	Moderate Impact
Richmond County	Substantial/Orange	392.6	8.4%	Moderate Impact
Robeson County	Substantial/Orange	365.9	9.8%	Low Impact
Rockingham County	Substantial/Orange	445.0	8.3%	Low Impact
Rowan County	Substantial/Orange	417.3	9.3%	Low Impact
Rutherford County	Substantial/Orange	261.1	6.1%	Moderate Impact
Sampson County	Critical/Red	502.1	10.0%	Low Impact
Scotland County	Substantial/Orange	272.8	8.2%	Moderate Impact
Stanly County	Significant/Yellow	339.1	6.5%	Low Impact

Metrics by County (CONTINUED)

County	Final Tier	14-day Case Rate Per 100,000	14-day Percent Positive [^]	Hospital Impact
Stokes County	Substantial/Orange	414.6	6.9%	Moderate Impact
Surry County	Substantial/Orange	502.9	9.9%	Moderate Impact
Swain County	Substantial/Orange	210.2*	12.1%	Low Impact
Transylvania County	Significant/Yellow	151.2	6.9%	Low Impact
Tyrrell County	Significant/Yellow	74.7	3.4%	Low Impact
Union County	Significant/Yellow	314.8	7.1%	Low Impact
Vance County	Substantial/Orange	464.8	9.1%	Moderate Impact
Wake County	Significant/Yellow	280.8	5.6%	Low Impact
Warren County	Substantial/Orange	299.0	7.3%	Moderate Impact
Washington County	Significant/Yellow	120.9*	2.5%	Low Impact
Watauga County	Significant/Yellow	235.0	3.8%	Low Impact
Wayne County	Significant/Yellow	335.4	5.3%	Low Impact
Wilkes County	Critical/Red	574.5	10.5%	Low Impact
Wilson County	Critical/Red	460.9	8.3%	High Impact
Yadkin County	Substantial/Orange	414.2	8.7%	Low Impact
Yancey County	Significant/Yellow	437.2	5.6%	Low Impact



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