

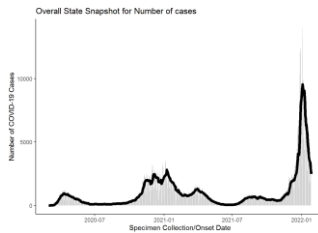
## COVID-19 Update February 10, 2022

As of **February 09, 2022**, the total of laboratory-confirmed and probable COVID-19 cases reported among Connecticut residents is **711,695**, including **638,324** laboratory-confirmed and **73,371** probable cases. **Five hundred twenty-nine** patients are currently hospitalized with laboratory-confirmed COVID-19; of these, **254** (48%) are not fully vaccinated. There have been **10,219** COVID-19-associated deaths.

Overall Summary	Total*	Change Since Yesterday
COVID-19 Cases (confirmed and probable)	711,695	+1,026
COVID-19 Tests Reported (molecular and antigen)	14,727,611	+23,078
Daily Test Positivity*		4.45%
Patients Currently Hospitalized with COVID-19	529	-23
	Total	Change since 02/03/2022
COVID-19-Associated Deaths	10,219	+136

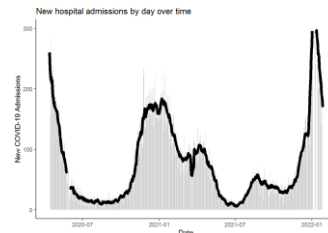
\* Includes confirmed and probable cases

### Cases



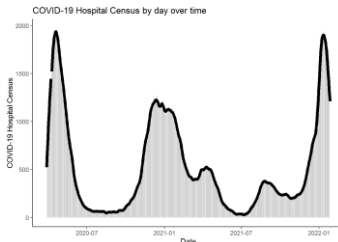
**Total Cases: 711,695**

### Hospitalizations



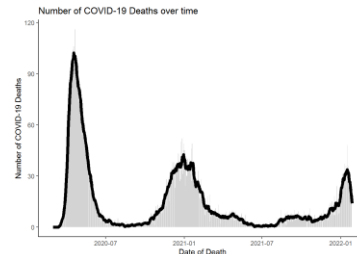
**Total Hospitalizations: 54,538**

### Hospital Census



**Hospital Census: 2/9/2022: 529**

### Deaths



**Total Deaths: 10,219**

**COVID-19 Cases and Associated Deaths by County of Residence As of 02/09/22.**

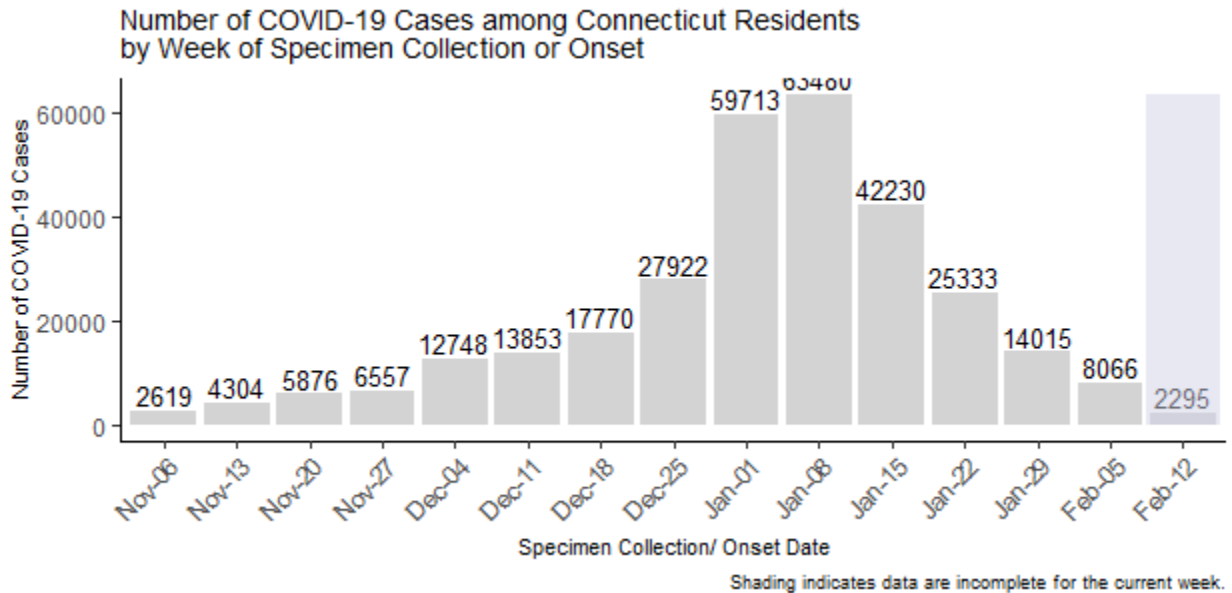
County	COVID-19 Cases		COVID-19-Associated Deaths	
	Confirmed	Probable	Confirmed	Probable
Fairfield County	174,228	21,807	2,086	507
Hartford County	156,793	15,377	2,411	528
Litchfield County	26,369	4,156	359	67
Middlesex County	24,132	2,395	331	130
New Haven County	164,882	21,622	2,248	406
New London County	48,145	4,308	476	131
Tolland County	17,817	1,905	187	70
Windham County	23,582	1,444	222	60
Pending address validation	2,376	357	0	0
<b>Total</b>	<b>638324</b>	<b>73371</b>	<b>8320</b>	<b>1899</b>

[National COVID-19 statistics](#) and information about [preventing spread of COVID-19](#) are available from the Centers for Disease Control and Prevention.

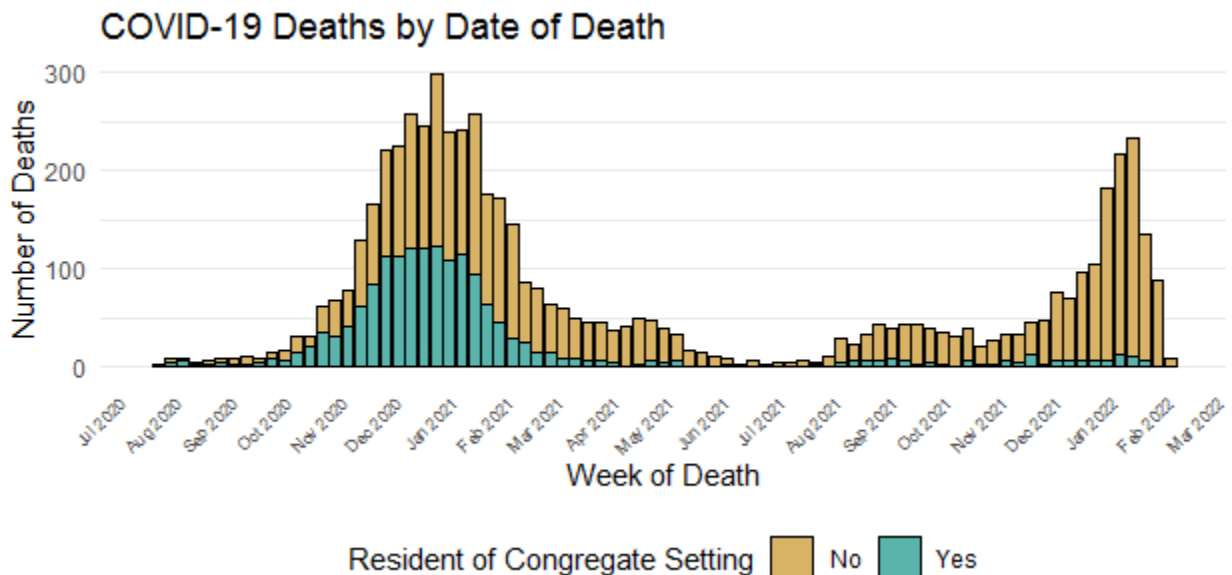
**Day-to-day changes reflect newly reported cases, deaths, and tests that occurred over the last several days to week.** All data in this report are preliminary; data for previous dates will be updated as new reports are received and data errors are corrected. Hospitalization data were collected by the Connecticut Hospital Association. Deaths reported to either OCME or DPH are included in the daily COVID-19 update.

## COVID-19 Cases and Deaths Over Time

The chart below shows the number of new COVID-19 cases reported to CT DPH by week of specimen collection or onset of illness. Case data includes probable cases based on positive antigen test results. During the past two weeks (January 23 - February 05), there were 22,081 new COVID-19 cases, including cases among people residing in the community and congregate settings, such as nursing homes, managed residential communities, and correctional facilities.



The graph below shows the number of COVID-19 associated deaths since August 1, 2020 by week of death and whether the person was residing in a congregate setting, such as a nursing home, managed residential community, or correctional facility.

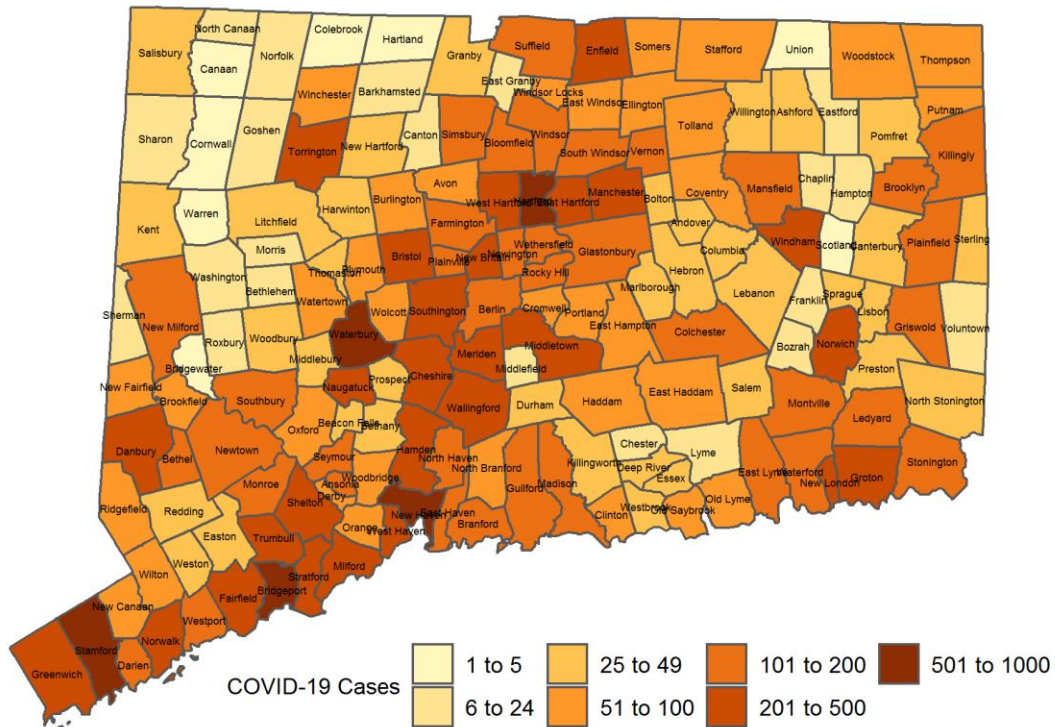


## Community Transmission of COVID-19

Among 22,081 new COVID-19 cases with specimen collection or onset date during January 23 - February 05, there were 21,940 cases among people living in community settings, as shown in the map below. This corresponds to an average of 43.96 new COVID-19 cases per day per 100,000 population. Cases among people residing in nursing homes, assisted living facilities, and correctional facilities are excluded. Darker colors indicate towns with more cases.

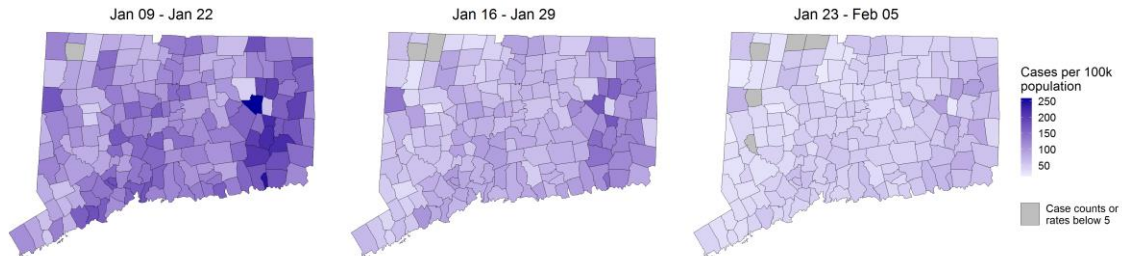
During this two-week period, there were more than 100 new COVID-19 cases in 70 towns.

Number of COVID-19 Cases among People Living in Community Settings by Town with Specimen Collection or Onset Date During January 23 - February 05



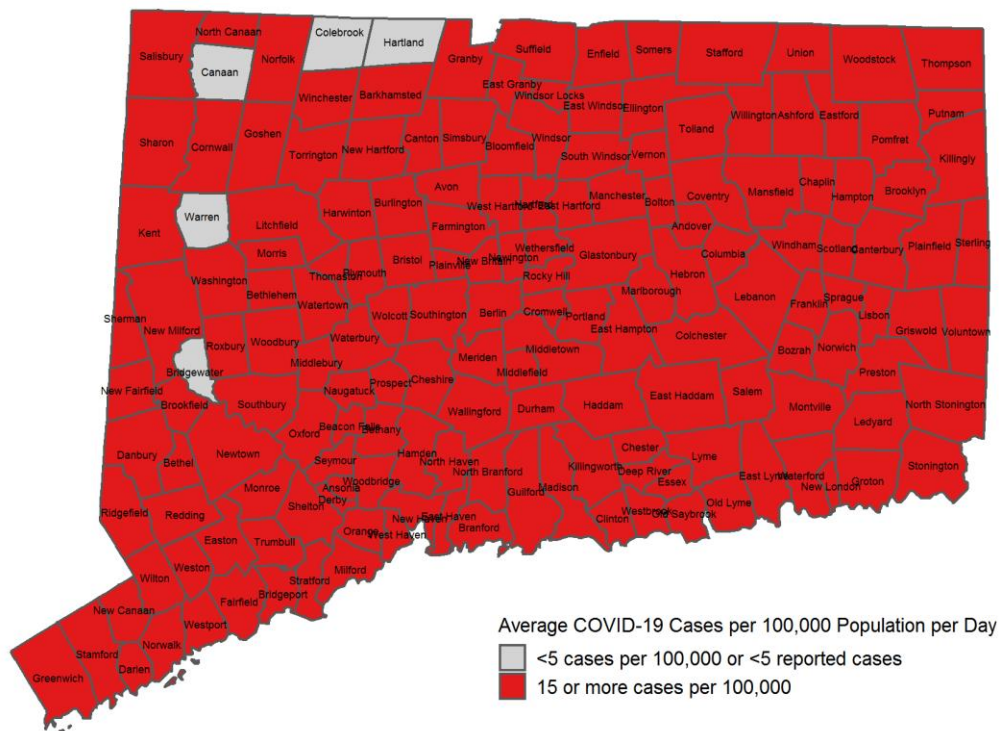
Map does not include 101 cases pending address validation

Because towns with larger populations are likely to have more cases, it is also important to look at the number of new cases per 100,000 population. The maps below show the average number of new cases per 100,000 population per day, with darker colors indicating higher rates. Cases among people residing in nursing homes, assisted living facilities, and correctional facilities are excluded.



Among towns with at least 5 new cases during January 23 - February 05, 164 towns had an average rate of 15 or more cases per 100,000 population per day, shown in red in the map below.

Average Daily Rate of COVID-19 Cases among People Living in Community Settings per 100,000 Population by Town with Specimen Collection or Onset Date During January 23 - February 05



Map does not include 101 cases pending address validation

## Epidemiology of COVID-19 by Vaccine Status

### Methodology

To determine cases of COVID-19 among fully vaccinated persons or among those who have received an additional dose of COVID-19 vaccine, DPH matches COVID-19 case data with the vaccine registry to determine which cases meet the definition of being fully vaccinated or having received an additional dose and which are also vaccine breakthrough cases.

- A case of COVID-19 in a fully vaccinated person (e.g., vaccine breakthrough case) is defined as a person who has a positive PCR/NAAT or antigen test in a respiratory specimen collected  $\geq 14$  days after completing the final dose of an FDA-authorized or approved COVID-19 vaccine series and who did not have a previously positive COVID-19 test  $< 90$  days prior to the positive test currently under investigation.
- A case of COVID-19 in a fully vaccinated person who has received an additional dose is defined as a person who has a positive PCR/NAAT or antigen test in a respiratory specimen collected  $\geq 14$  days after receiving an additional dose of any COVID-19 vaccine and who did not have a previously positive COVID-19 test  $< 90$  days prior to the positive test currently under investigation.

All data presented below are preliminary and subject to change.

### Data

The table below shows new COVID-19 cases for the last two complete weeks (Sun-Sat) January 23, 2022 - February 5, 2022 by vaccination status. The percentage of cases among fully vaccinated individuals is influenced by the high proportion of the population that is eligible for and has completed a vaccine series, and should be considered in light of the overall proportion of vaccinated individuals who have contracted the virus.

Status	Case Count	Percent
New Cases	20,379	
Not Fully Vaccinated	8,902	43.7
Fully Vaccinated	11,477	56.3

As of **February 09, 2022**, 163,170 cases of COVID-19 among fully vaccinated persons in Connecticut have been identified. Of the 2,628,772 persons who are fully vaccinated, 6.21 percent have contracted the virus.

Since the beginning of the pandemic, 548,525 cases have been identified among individuals who are not fully vaccinated.

Six hundred twenty-one COVID-19 related deaths have occurred among the 163,170 fully vaccinated persons confirmed with COVID-19.

The table below shows cases and deaths among fully vaccinated persons, and among persons who have received an additional dose, by age group. As shown below, persons who have received an additional dose are a subset of those cases that are fully vaccinated.

**Cases and Deaths Among Fully Vaccinated Persons and Persons with Additional Doses by Age Group**

Age groups	# (%) Cases	# (%) Additional Dose Cases	# (%) Deaths	# (%) Additional Dose Deaths
5-11	3,015 (1.8%)	1 (0%)		
12-15	6,810 (4.2%)	28 (0.1%)		
16-24	23,066 (14.1%)	2,177 (6.9%)		
25-34	28,086 (17.2%)	4,008 (12.7%)	1 (0.2%)	
35-44	28,692 (17.6%)	5,352 (17%)	5 (0.8%)	
45-54	27,261 (16.7%)	5,639 (17.9%)	13 (2.1%)	2 (1.9%)
55-64	24,720 (15.1%)	6,430 (20.4%)	75 (12.1%)	10 (9.3%)
65-74	12,377 (7.6%)	4,658 (14.8%)	101 (16.3%)	20 (18.7%)
75+	9,143 (5.6%)	3,206 (10.2%)	426 (68.6%)	75 (70.1%)
<b>Total</b>	<b>163,170</b>	<b>31,499</b>	<b>621</b>	<b>107</b>

The risk of being infected, hospitalized or dying is higher when there is more virus spreading from person to person. Risk is decreased by becoming vaccinated against COVID-19 and decreased further by receiving an additional dose of vaccine. The figures below show that rates of infection, hospitalization, and death, are highest among those who are not vaccinated. The figures also show relative risk (RR) which is the difference in risk when comparing rates between those who have received an additional dose of vaccine and those who are not vaccinated. When the relative risk is InfX, it means the risk was only for unvaccinated persons, since no deaths were reported among persons who have received an additional dose that week.

The figures below are age standardized. The process of age-standardization allows for comparison of rates between groups when the age distributions of the two groups (e.g., vaccinated and unvaccinated) are different. The group defined as ‘additional dose’ in the figures below excludes those defined as ‘fully vaccinated’. The 2019 CT state population was used for age-adjustment purposes.

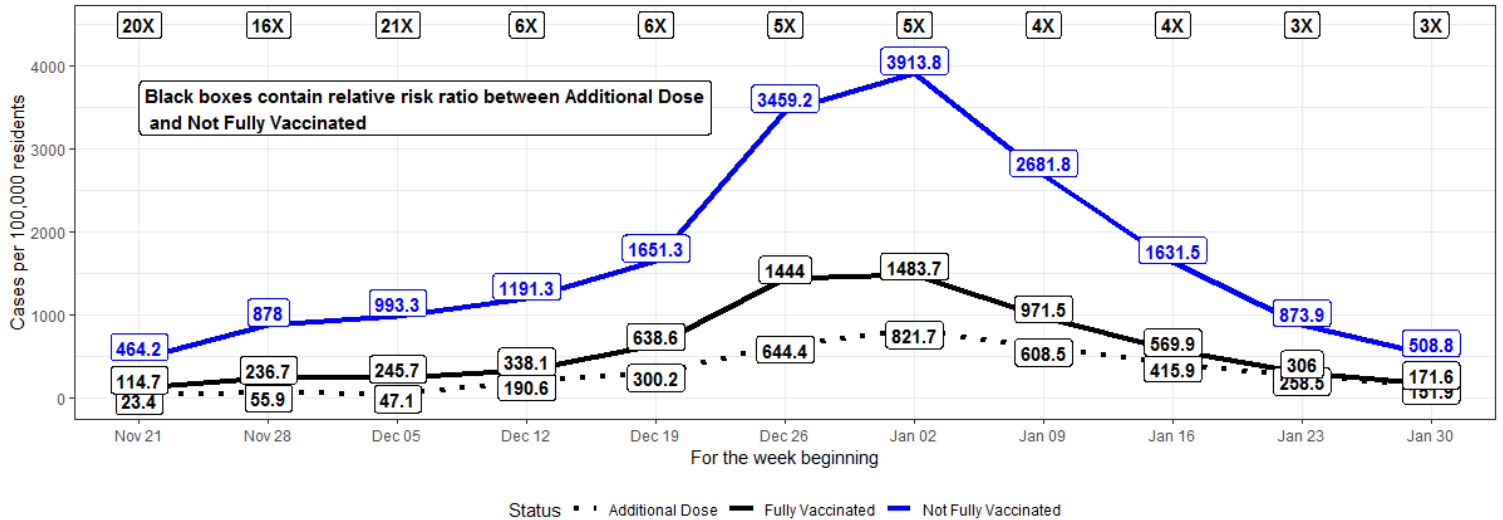
Compared to having received an additional dose of COVID-19 vaccine, being unvaccinated currently has the following relative risk:

- 3 Times higher risk of being infected with COVID-19
- 24 Times higher risk of dying from COVID-19
- 9 Times higher risk of being hospitalized with COVID-19

# COVID-19 Cases

## Age Standardized Weekly Incidence Rates

By Vaccination Status -- As of February 09, 2022

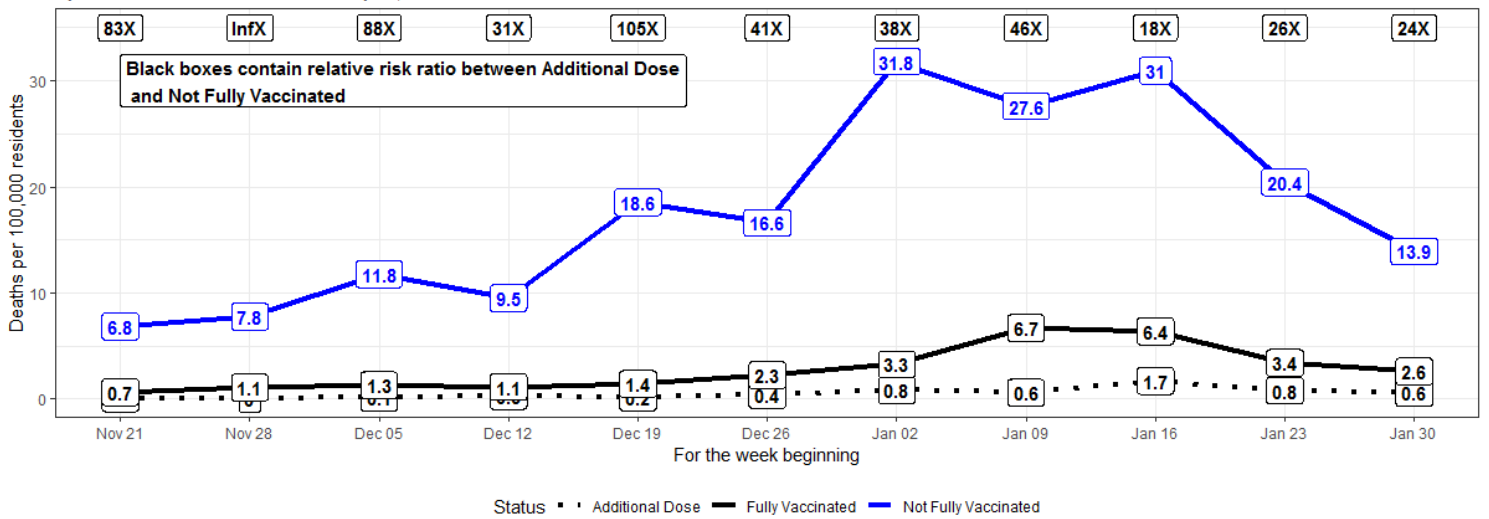


Using population >= 12 years old

# COVID-19 Deaths

## Age Standardized Mortality Rates

By Vaccination Status -- As of February 09, 2022



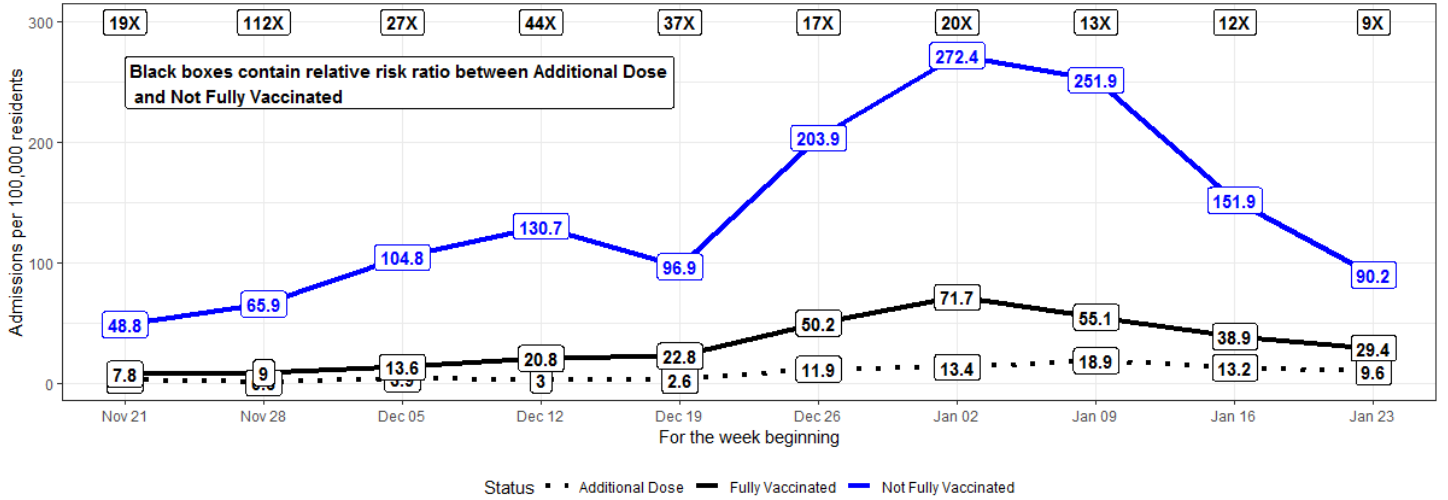
Using population >= 12 years old



# COVID-19 Hospitalizations

## Age Standardized Weekly Hospital Admission Rates

By Vaccination Status -- As of February 09, 2022 -- Limited to residents of New Haven and Middlesex Counties



Using population >= 12 years old

## SARS-CoV-2 Variant Surveillance

The Centers for Disease Control and Prevention (CDC) have identified three types of SARS-CoV-2 variants: variants of concern, variants being monitored, and variants of high consequence. The definitions for the three different variant categories and substitutions of therapeutic concern can be found here: [SARS-CoV-2 Variants of Concern | CDC](#).

Different terminology has been developed by international scientists for naming SARS-CoV-2 variants. Recently, the World Health Organization (WHO) developed new labels for describing these variants to the public. Below, the WHO label are listed for each variant described.

Below are data on variants of concern and variants being monitored identified among Connecticut residents. No variants of high consequence have been defined by CDC to date.

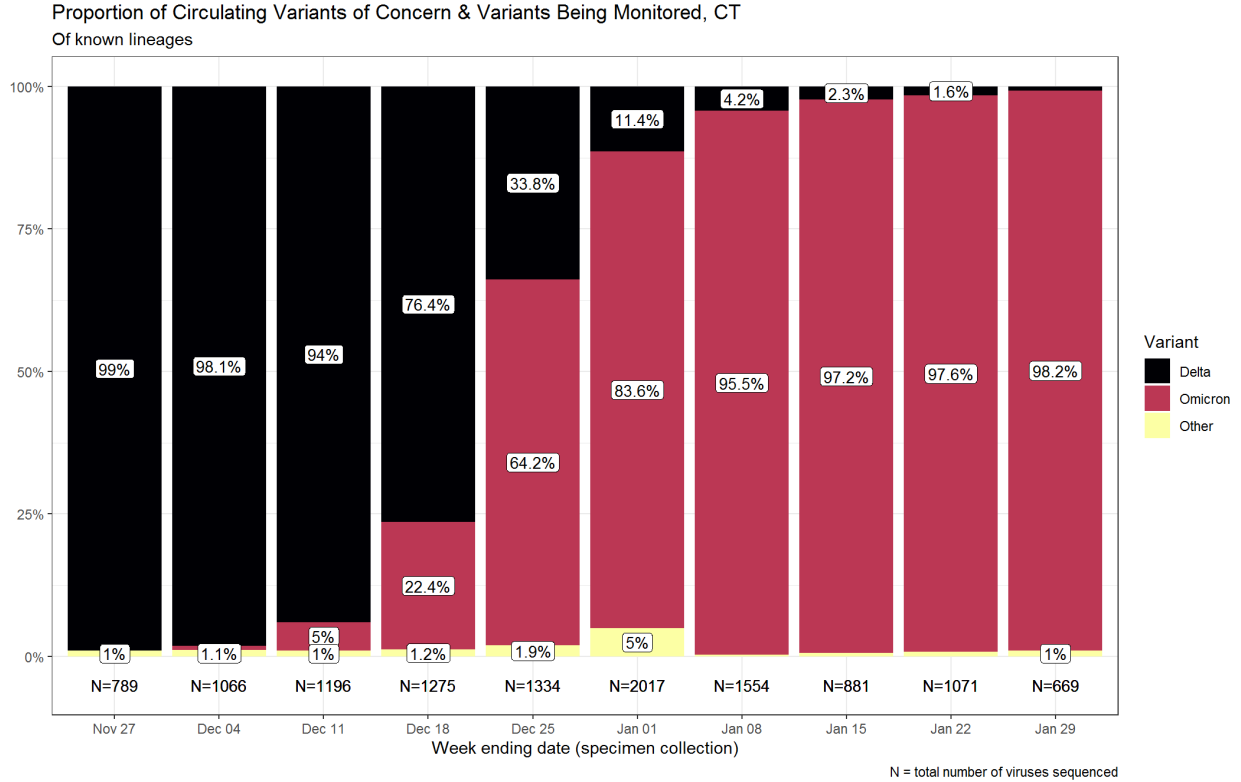
Data presented are now based on variant data reported directly to DPH instead of to the GISAID Initiative and only include data since January 2021-present.

Data below represent sequences that have been reported to DPH as of 02/09/2022 with specimen collection dates between 01/12/2021 and 02/03/2022. **The total number of SARS-CoV-2 sequences reported to DPH is 29728.**

Variant	Number	Percentage
<b>Variants of Concern</b>		
Delta	16,261	58.02
Omicron	6,969	24.87
<b>Variants Being Monitored</b>		
Alpha	2,525	9.01
Beta	23	0.08
Gamma	137	0.49
Epsilon	60	0.21
Zeta	1	0.00
Eta	10	0.04
Iota	718	2.56
Kappa	2	0.01
B.1.617.3	0	0.00
Mu	83	0.3

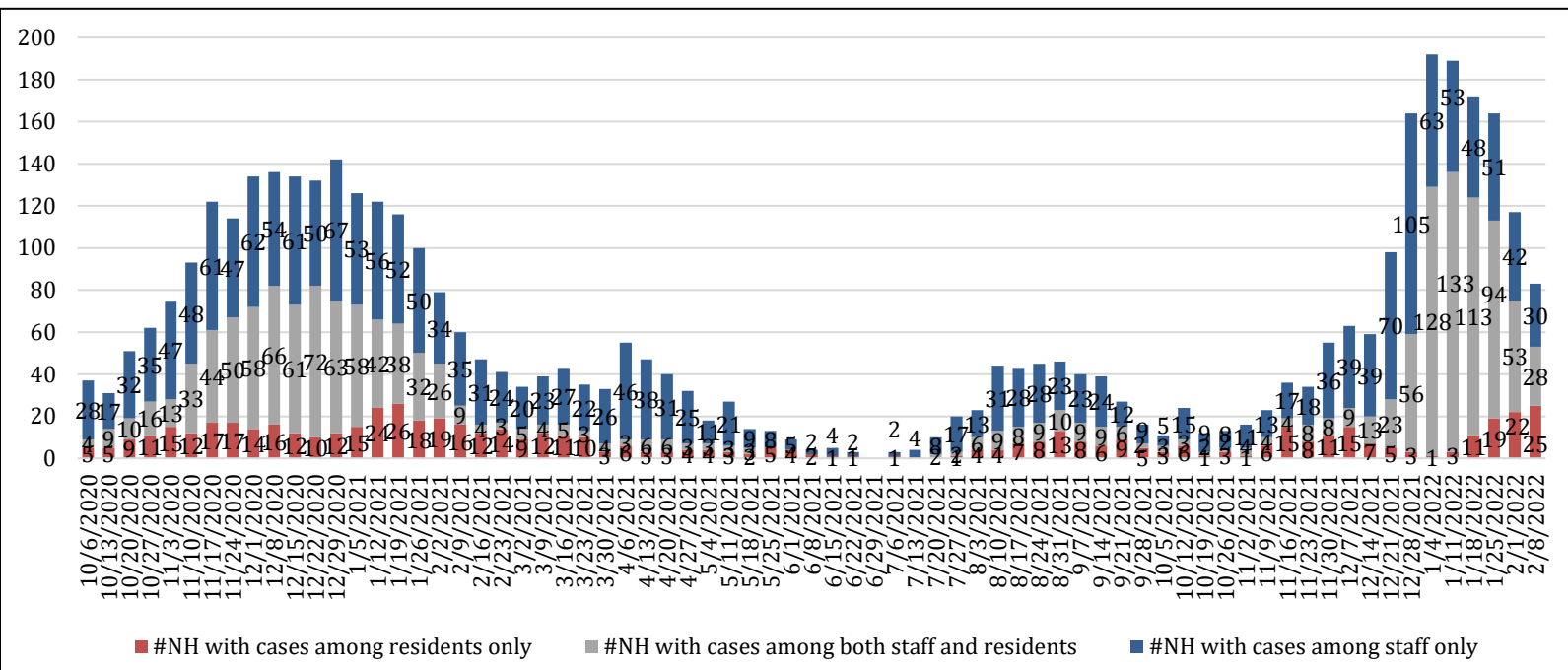
## SARS-CoV-2 Variant Surveillance, continued

The plot below, based on data reported to DPH through February 09, 2022, shows the change in proportion of circulating variants of concern by week. Data include sequences from specimens with dates of collection from 11/21/2021–01/29/2022.



Connecticut nursing homes are required by the Connecticut Department of Public Health (DPH) and the Centers for Medicare and Medicaid Services (CMS) to report on the impact of COVID-19 on their residents and staff through CDC’s National Healthcare Safety Network (NHSN). CT DPH uses data submitted to NHSN to produce a weekly nursing home report to depict recent COVID-19 activity in nursing homes. The following graph and table provide a quick overview of COVID-19 in CT nursing homes. For the complete DPH nursing home report, please see [Nursing Home and Assisted Living Facilities Data](#).

**Figure 1. Nursing Homes with Positive Staff or Residents October 27, 2020–February 8, 2022<sup>1,2,3</sup>**



<sup>1</sup> For more detailed information on COVID-19 reporting and NHSN, please see [here](#).

<sup>2</sup> Similar to DPH, CMS makes COVID-19 nursing home data, including vaccination rates, publicly available. Please see [CMS' COVID-19 Nursing Home Data website](#).

<sup>3</sup> 12 facilities did not report for this week, as of February 10, 2022.

**Table 1: Statewide COVID-19 Vaccination coverage among nursing home residents and staff from NHSN<sup>1,2</sup>**

	Statewide COVID-19 Vaccination Rate Data as of January 30, 2022	
	Resident Vaccination Rates N= 203 homes	Staff Vaccination Rates N= 202 homes
Average Vaccination Rate	92%	97%
Median Vaccination Rate	94%	97%
Range of Vaccination Rates	69-100%	82-100%
% of the reporting nursing homes with vaccination rate ≥ 90%	77%	94%

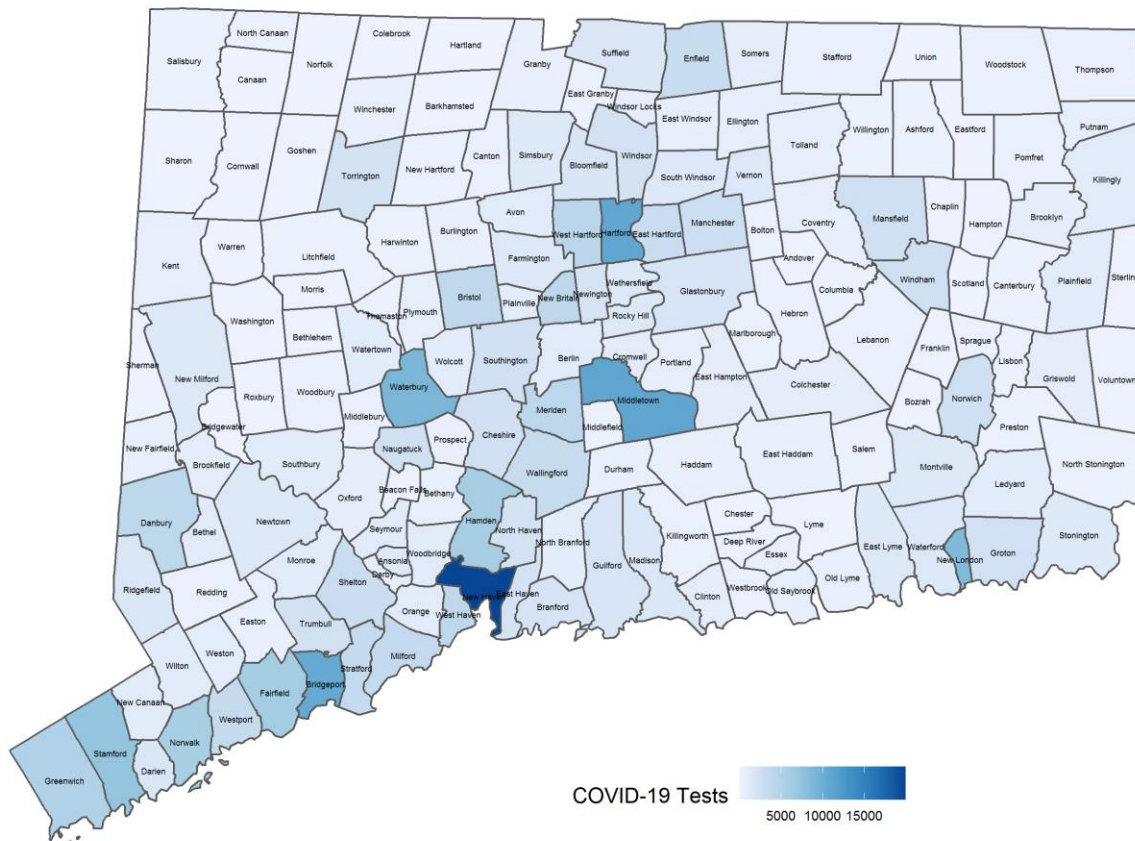
<sup>1</sup> NHSN vaccine reporting instructions for nursing homes can be found [here](#).

<sup>2</sup> Similar to DPH, CMS makes COVID-19 nursing home data, including vaccination rates, publicly available. Please see [CMS' COVID-19 Nursing Home Data website](#).

## COVID-19 Molecular and Antigen Tests during January 23, 2022 - February 05, 2022

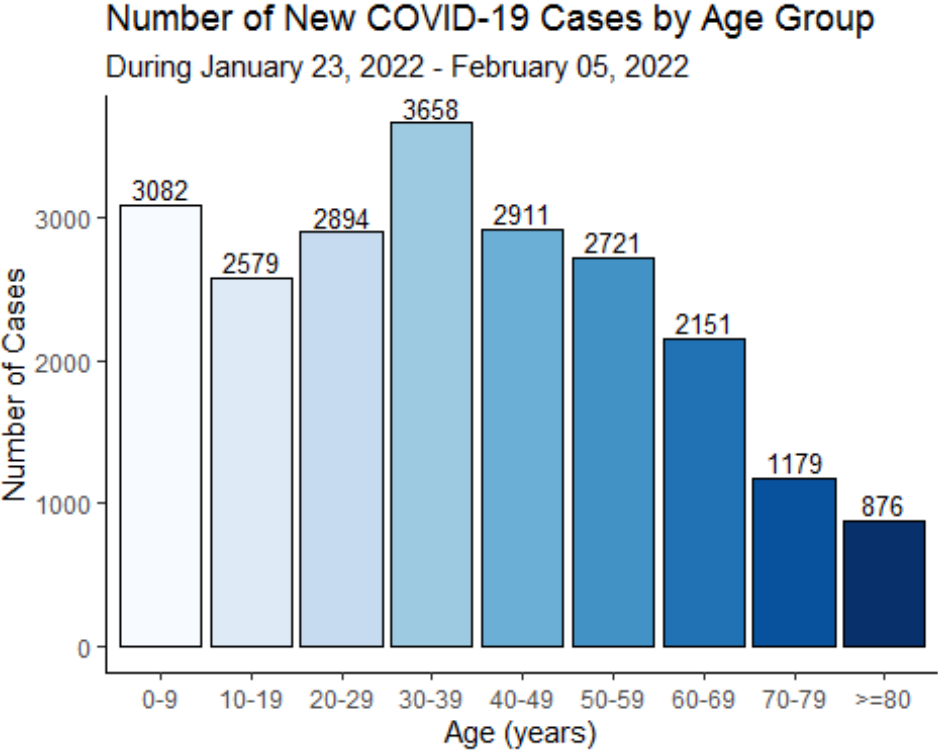
Among 281,951 molecular and antigen tests for COVID-19 with specimen collection date during January 23, 2022 - February 05, 2022, 265,781 (94%) tests were conducted among people who did not reside in congregate settings (including nursing homes, assisted living, and correctional facilities). Of these 265,781 tests, 28,495 (11%) were positive. The map below shows the number of molecular and antigen COVID-19 tests by town with specimen collection date during January 23, 2022 - February 05, 2022 that were conducted among community residents.

Number of Molecular and Antigen Tests for COVID-19 among People Living in Community Settings by Town with Specimen Collection Date During January 23 - February 05



Map does not include tests pending address validation

**Age Distribution of COVID-19 Cases with Specimen Collection or Onset  
During January 23, 2022 - February 05, 2022**



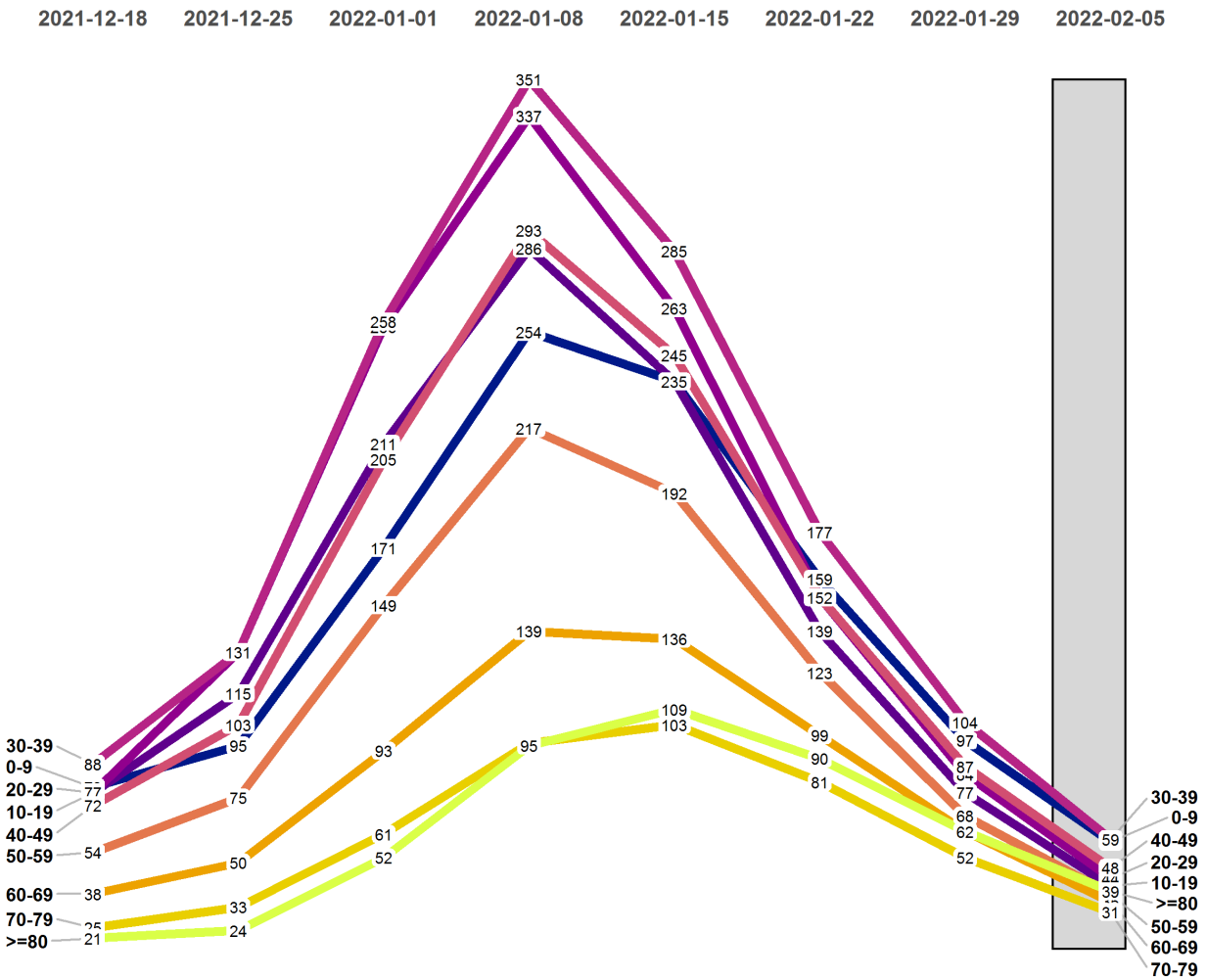
All data are preliminary and subject to change.

### Average Daily Incidence by Age Group

The chart below shows the average number of new COVID-19 cases per day per 100,000 population by age group. The rates in this chart are calculated by averaging the number of new cases diagnosed each day during the previous two weeks, dividing by the annual population in each age group, and then multiplying by 100,000.

### Average daily rate of COVID-19 cases by age group

As of 02/09/2022

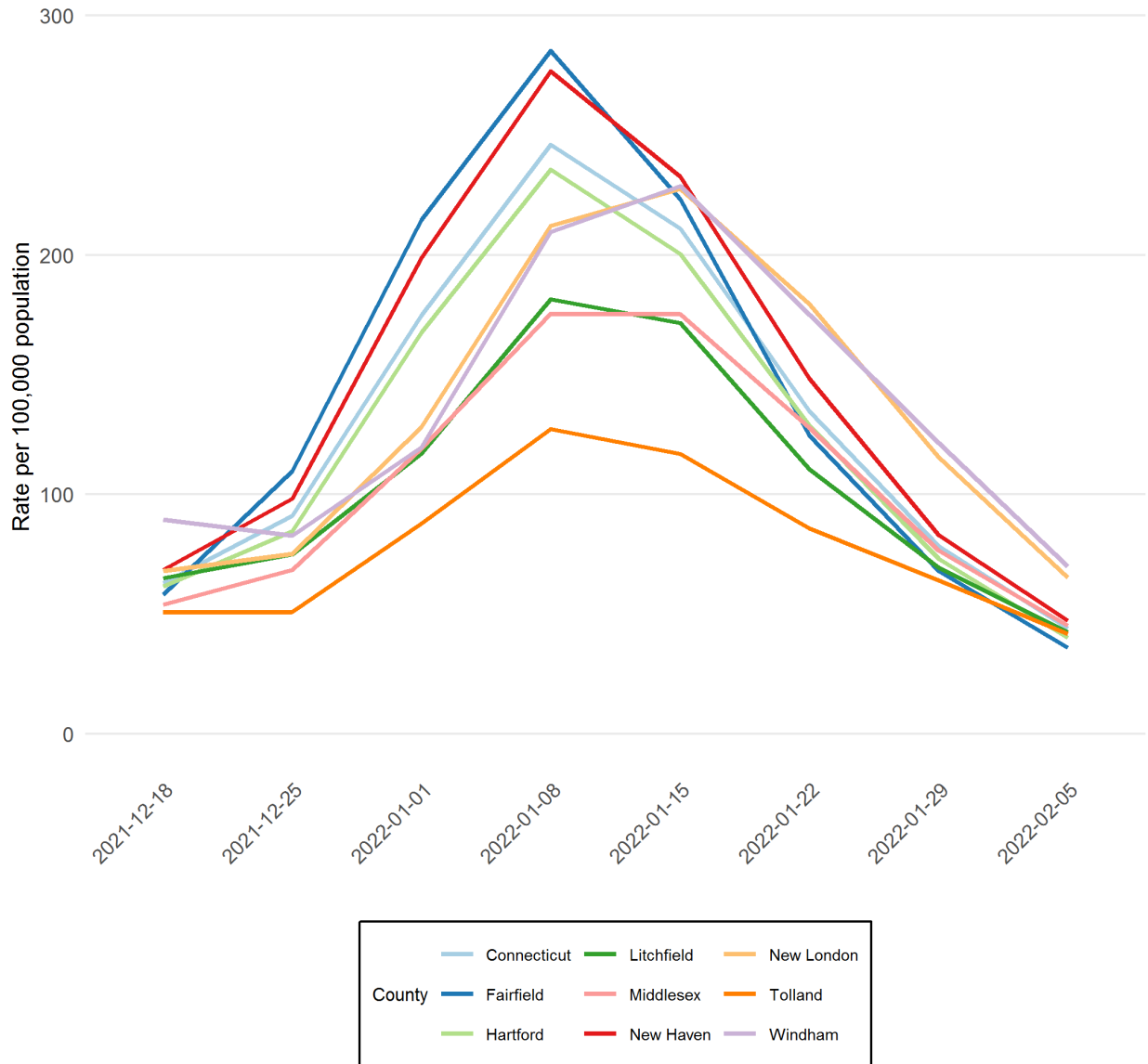


All data are preliminary and subject to change.

### Average Daily Incidence by County

The chart below shows the average number of new COVID-19 cases per day per 100,000 population in the state of Connecticut and for each Connecticut county. The rates in this chart are calculated by averaging the number of new cases diagnosed each day during the previous two weeks, dividing by the annual estimated population, and then multiplying by 100,000.

Average daily rates of COVID-19 cases by county  
As of 02/09/2022



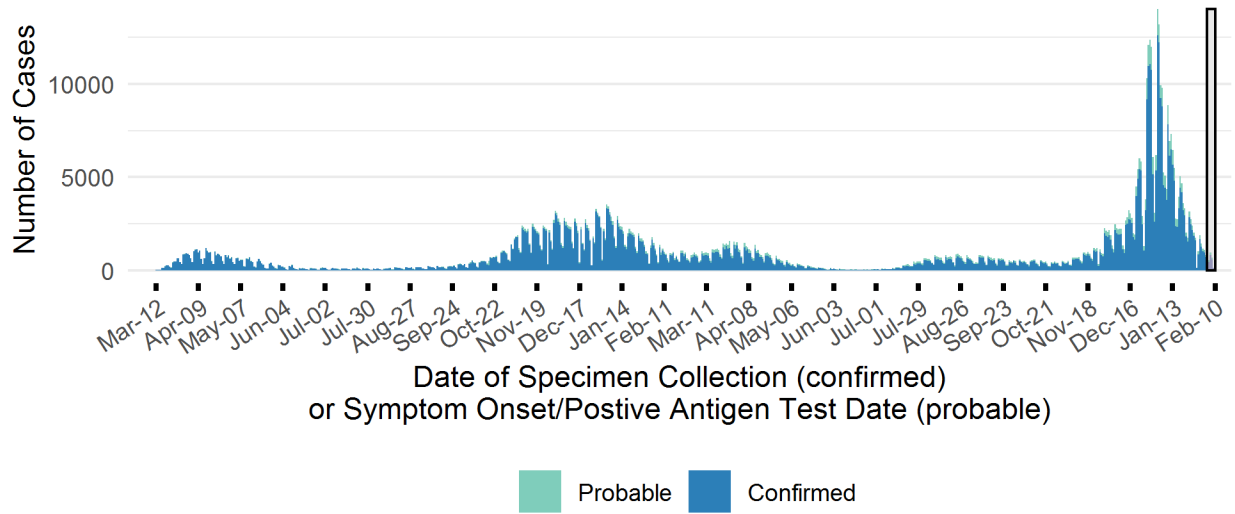


## Cumulative Number of COVID-19 Cases and COVID-19-Associated Deaths by Date

Test results may be reported several days after the result. Data are incomplete for most recent dates shaded in grey. Data from previous dates are routinely updated.

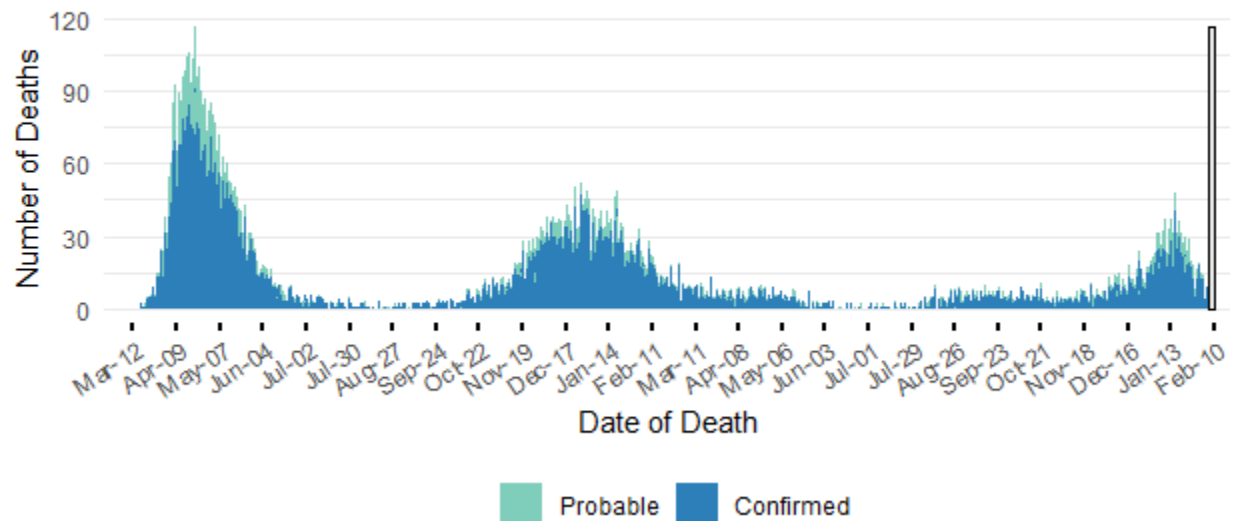
### Number of Confirmed and Probable COVID-19 Cases by Date

As of 02/09/2022



### Number of COVID-19-Associated Deaths by Date of Death

As of 02/09/2022

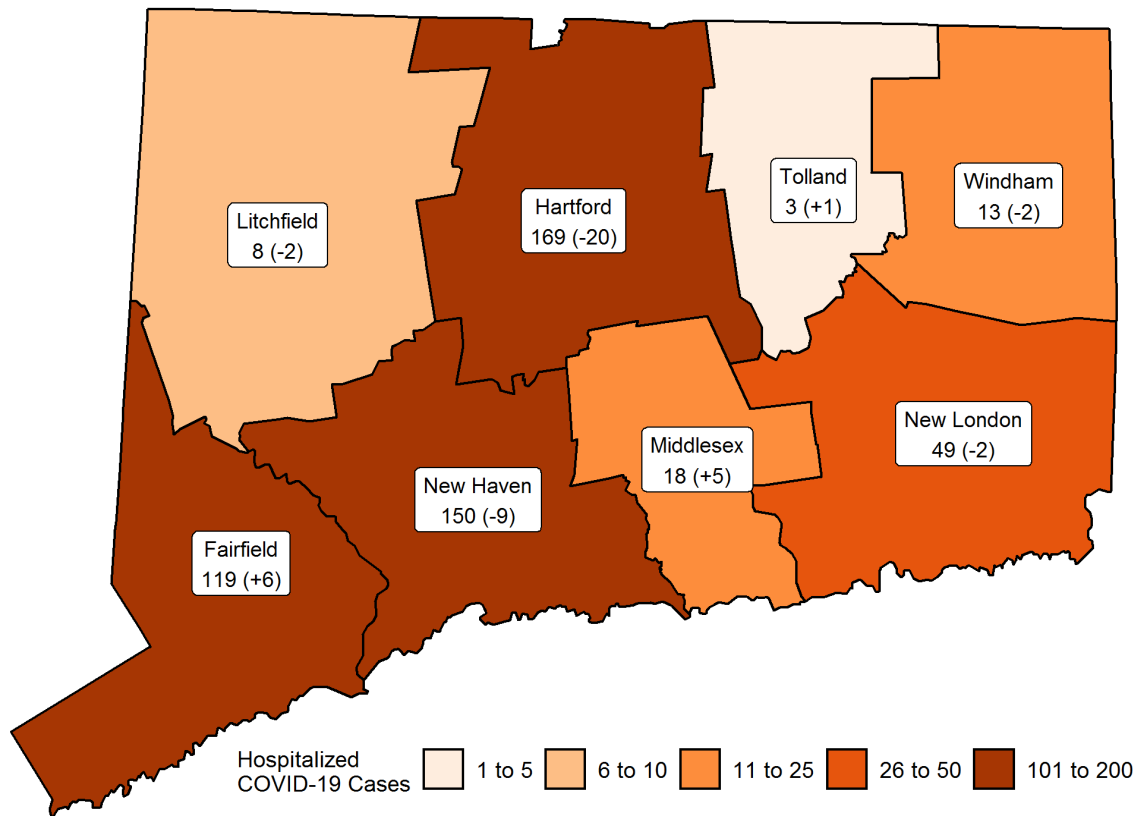


## Hospitalization Surveillance

The map below shows the number of patients currently hospitalized with laboratory-confirmed COVID-19 by county based on data collected by the Connecticut Hospital Association. The distribution is by location of hospital, not patient residence. The labels indicate the number of patients currently hospitalized with the change since yesterday in parentheses.

### Patients Currently Hospitalized by Connecticut County

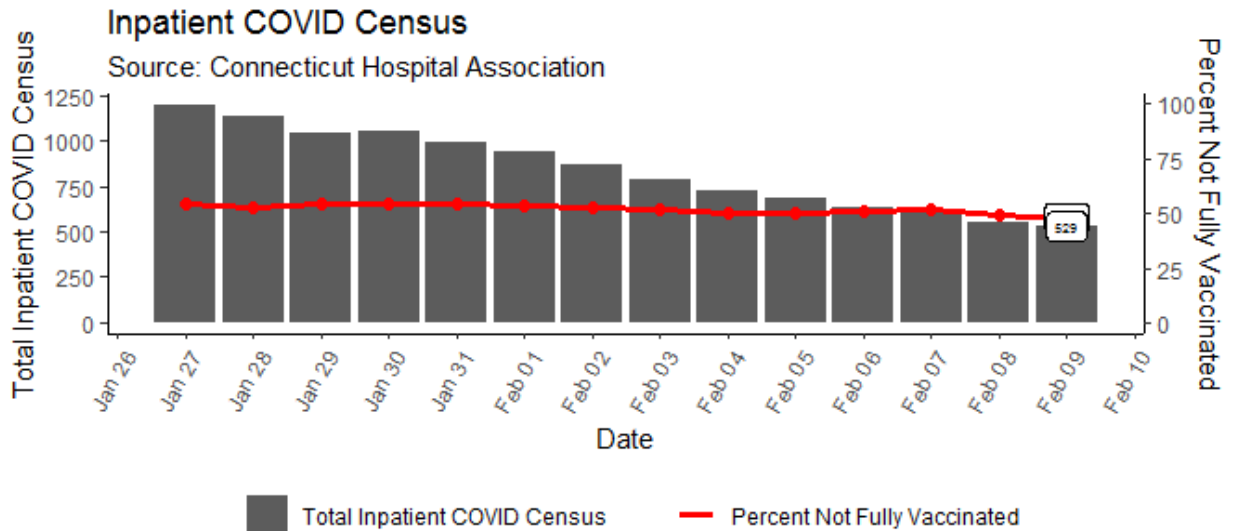
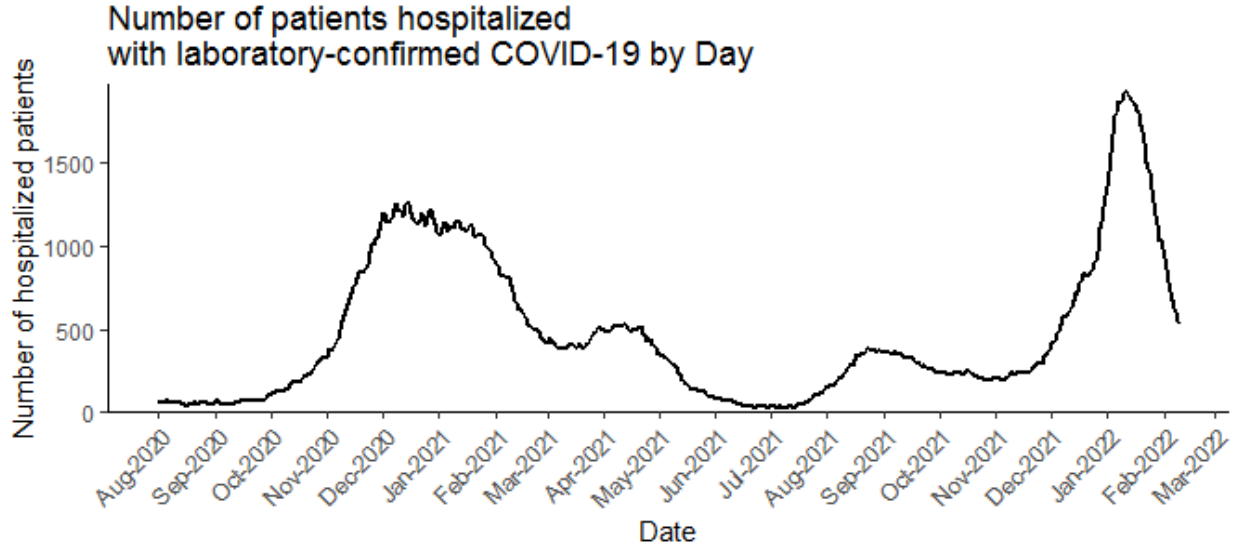
*Distribution by location of hospital not patient residence. Data from the Connecticut Hospital Association.*



More information about hospitalized cases of COVID-19 in New Haven and Middlesex Counties is available from [COVID-NET](#).

## COVID-19 Hospital Census in Connecticut

The chart below shows the COVID-19 hospital census, which is the number of patients currently hospitalized with laboratory-confirmed COVID-19 on each day. Data were collected by the Connecticut Hospital Association and are shown since August 1, 2020.

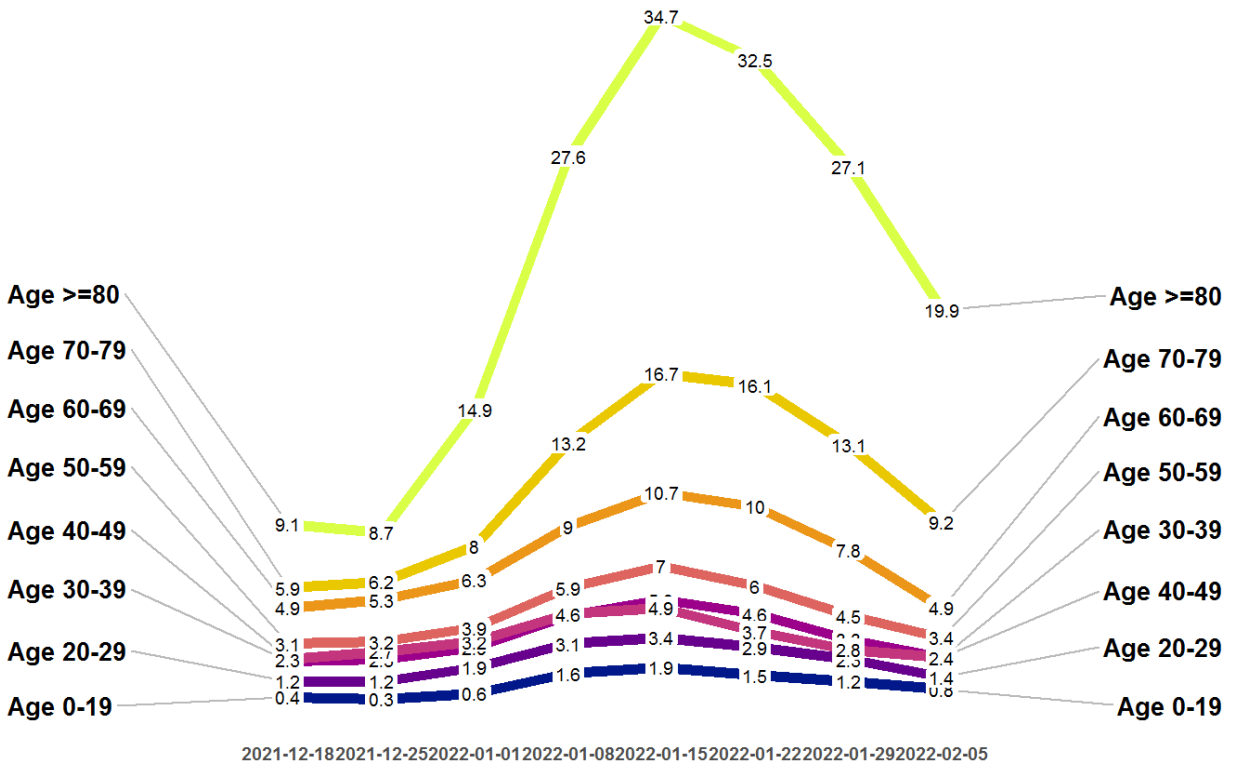


## COVID-19 Admissions

The chart below shows the average daily rate of hospital admissions with laboratory-confirmed COVID-19 by age group. The data used to create this plot were gathered from HHS Protect. More information on [HHS Protect data can be found here](#).

### Average daily COVID-19 hospital admission rate per 100,000, Connecticut

Data from HHS Protect



## Child Care-Associated Case Surveillance

The table below shows the number of cases among child care attendees and staff reported to the Department of Public Health (DPH). Licensed child care centers are required to report cases of COVID-19 among attendees and staff to the DPH and the local health department. There are 1,388 licensed child care centers and group child care homes in Connecticut that serve approximately 50,000 children. Beginning the week of January 9th, reporting transitioned from individual case reporting to aggregate reporting of cases among attendees and staff. The form for collecting aggregate data from child care centers can be found [here](#).

Data are preliminary and, like other passive surveillance systems, under reporting occurs and the true incidence of disease is more than the number of cases reported. Data from previous weeks are updated as new data are received. Several weeks of data from the new reporting system will be needed to determine trends.

### Number of Reported Child Care-Associated Cases Statewide

Overall Summary	Child Care Centers Reporting	COVID-19 Cases: Children Attendees	COVID-19 Cases: Staff
1/9/2022 - 1/15/2022	330	937	339
1/16/2022 - 1/22/2022	383	1209	384
1/23/2022 - 1/29/2022	273	751	213
1/30/2022 - 2/5/2022	160	339	66

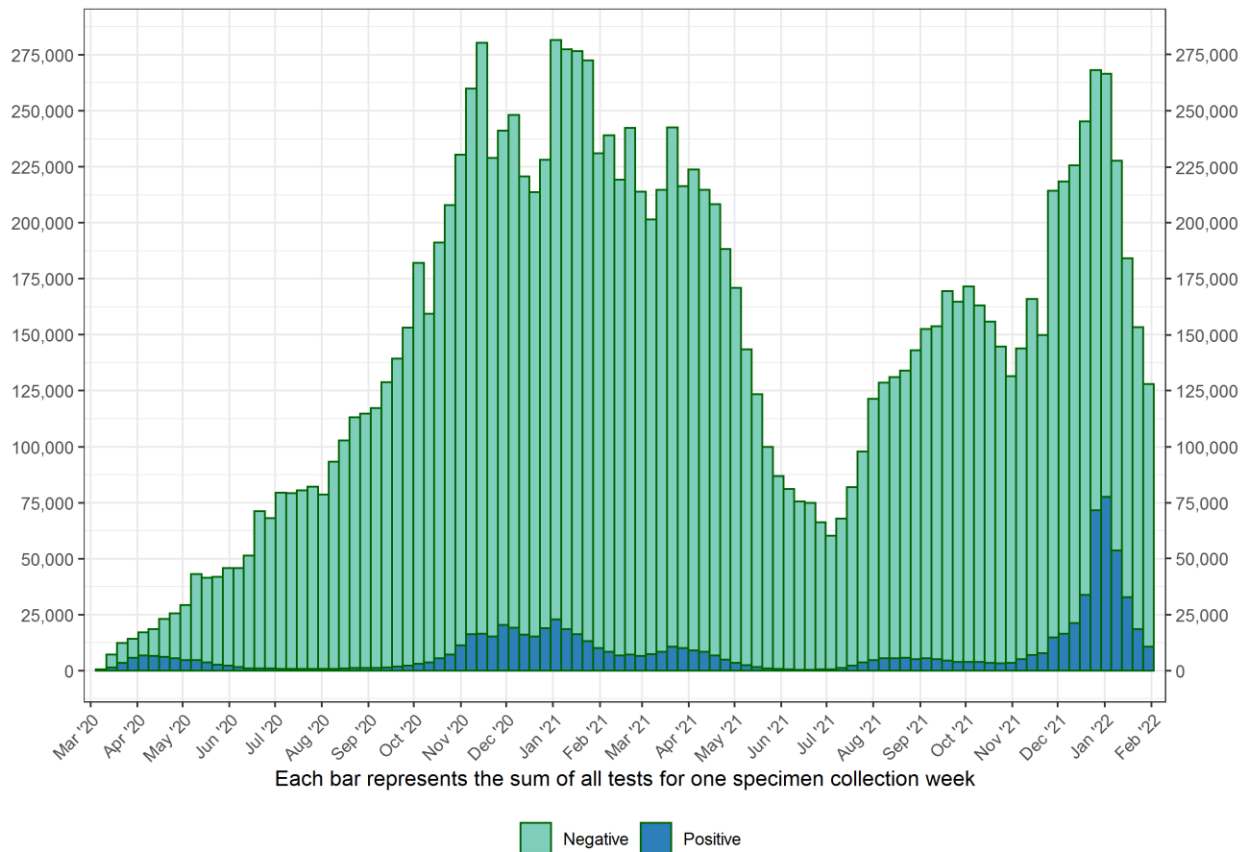
## Laboratory Surveillance

### Molecular Tests

To date, DPH has received reports on a total of 13,051,284 molecular COVID-19 laboratory tests; of these 12,896,083 test results were received via electronic laboratory reporting (ELR) methods from commercial laboratories, hospital laboratories, and the Dr. Katherine A. Kelley State Public Health Laboratory. The chart below shows the number of tests reported via ELR by date of specimen collection and test result.

*Test results may be reported several days after specimen collection. Data are incomplete for most recent dates shaded in grey. Data for previous dates are routinely updated.*

Number of Molecular Laboratory Tests for COVID-19 Reported via ELR  
Weekly test total by Specimen Collection Date  
As of February 09, 2022



*Testing of recently collected specimens is ongoing and does not reflect a decrease in testing. Chart only includes test results received by electronic laboratory reporting.*

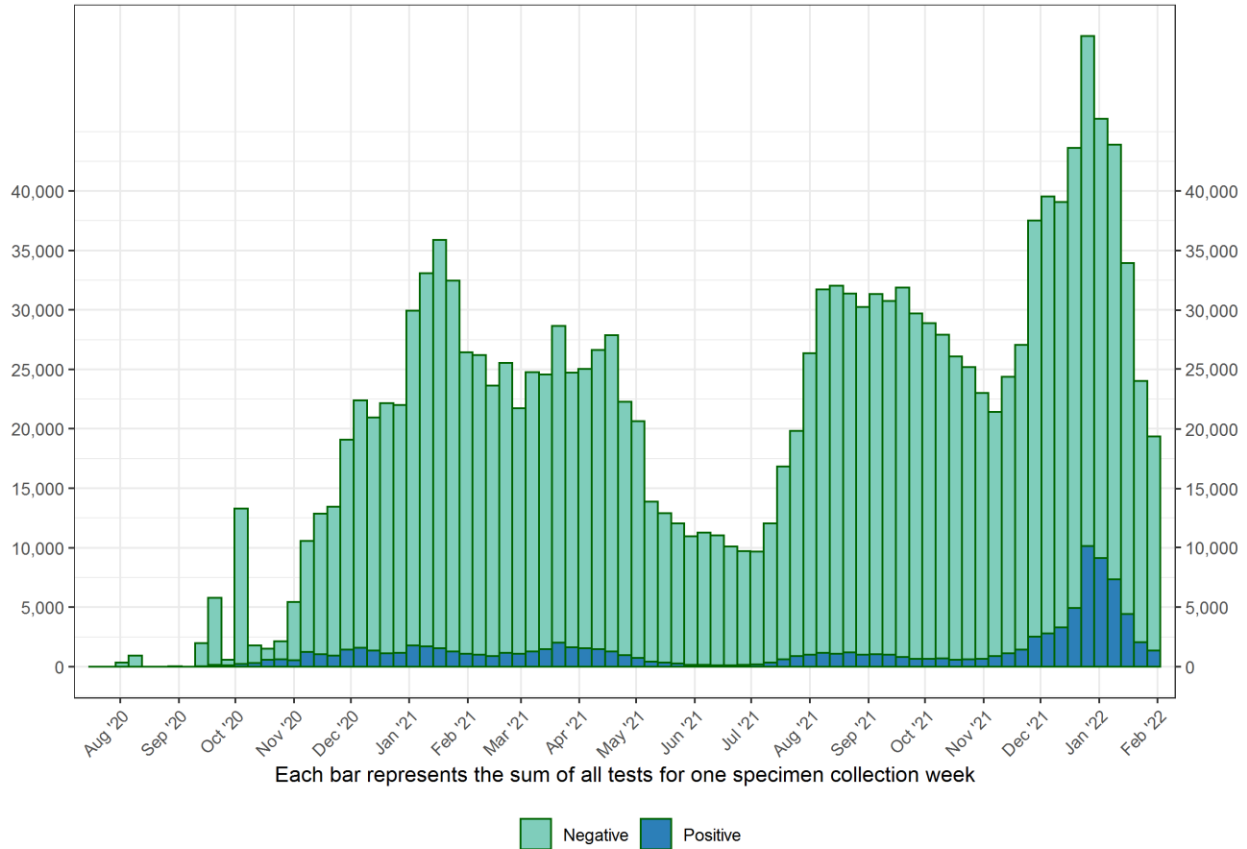
*ELR = Electronic Laboratory Reporting*

## Antigen Tests

To date, DPH has received reports on a total of 1,676,327 COVID-19 antigen laboratory tests. The chart below shows the number of antigen tests reported to DPH by specimen collection date and test result.

*Test results may be reported several days after specimen collection. Data are incomplete for most recent dates shaded in grey. Data for previous dates are routinely updated.*

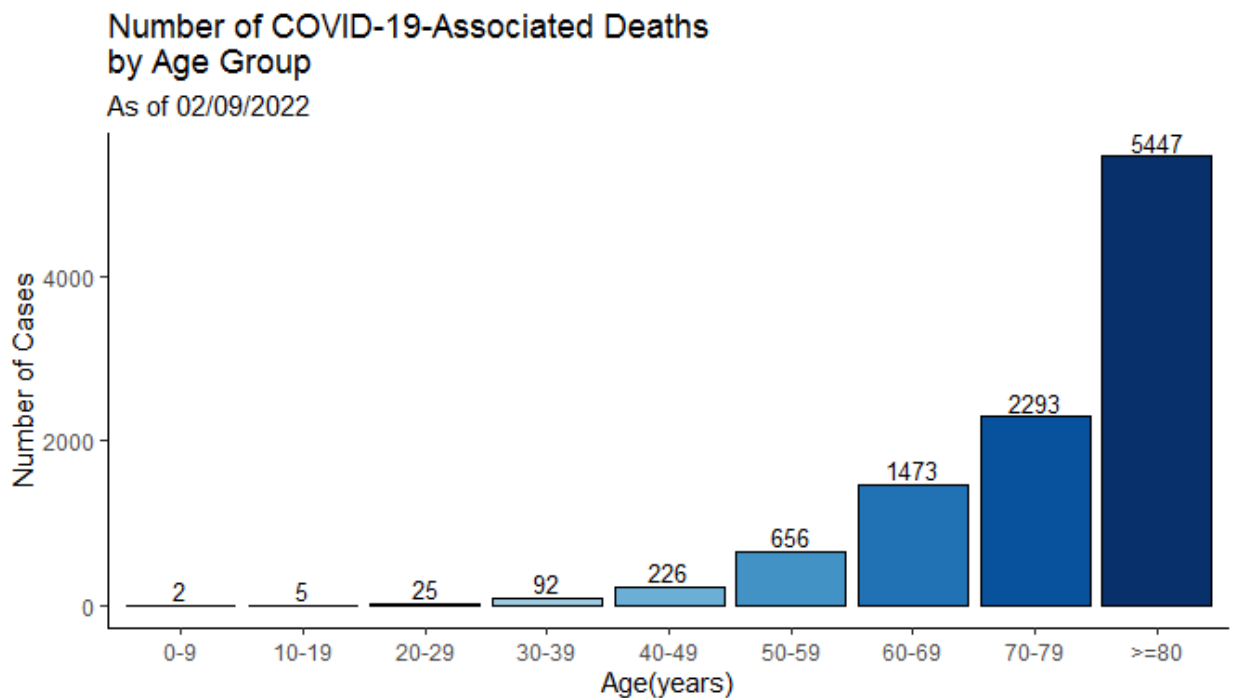
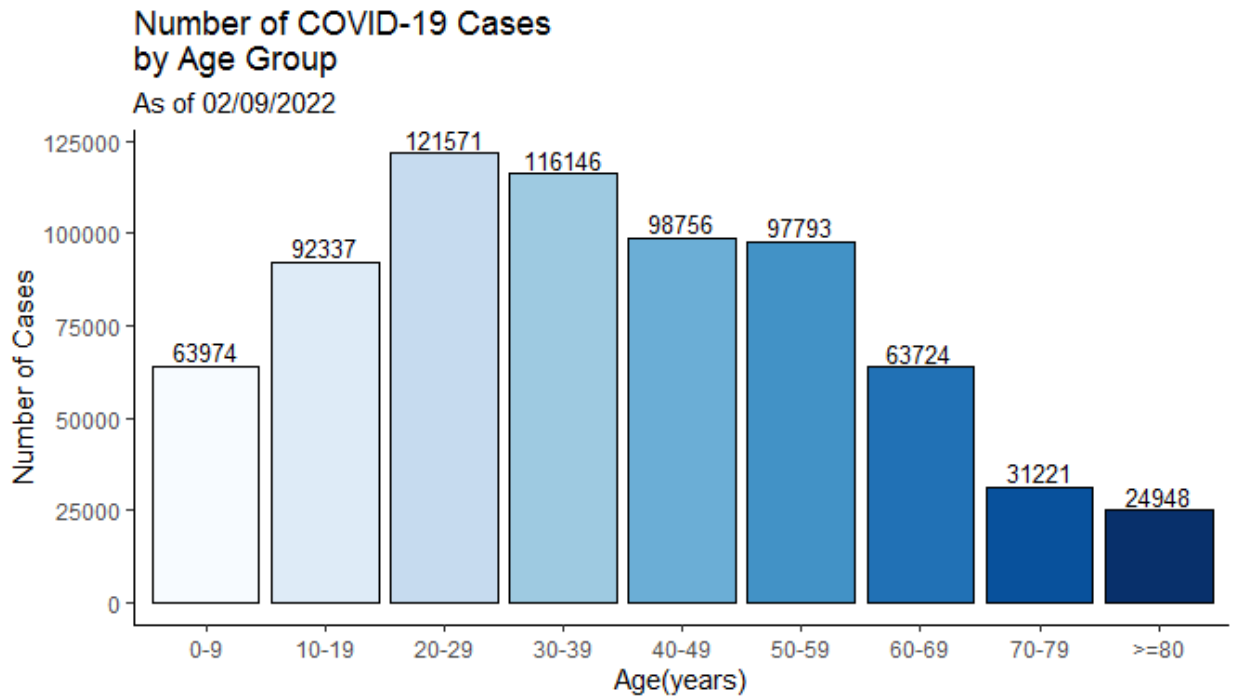
Number of Antigen Tests for COVID-19 Reported via ELR  
 Weekly test total by Specimen Collection Date  
 As of February 09, 2022



*Testing of recently collected specimens is ongoing and does not reflect a decrease in testing.*

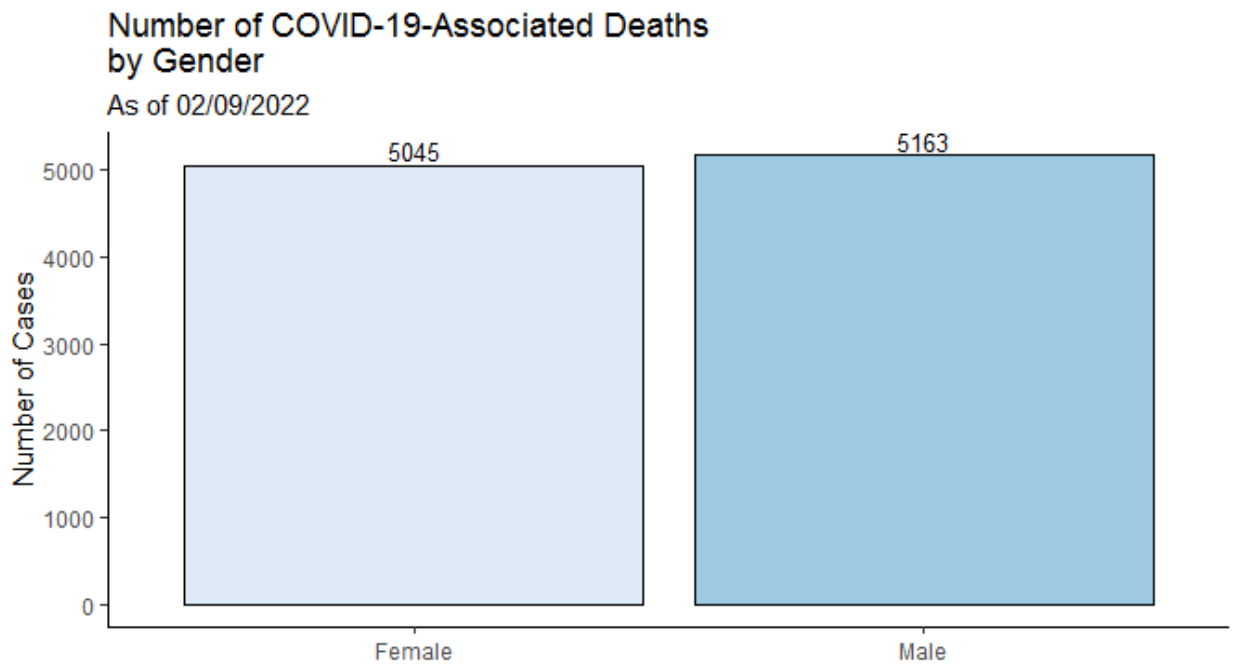
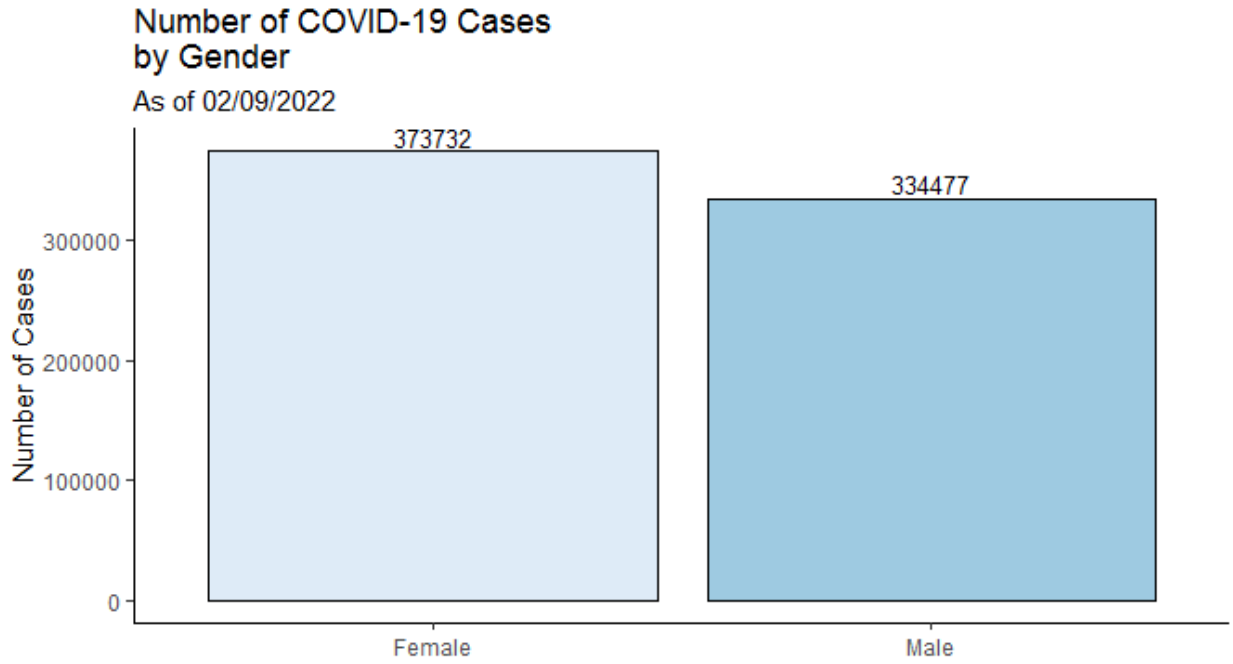
## Characteristics of COVID-19 Cases and Associated Deaths

Counts may not add up to total case count because demographic data may be missing.



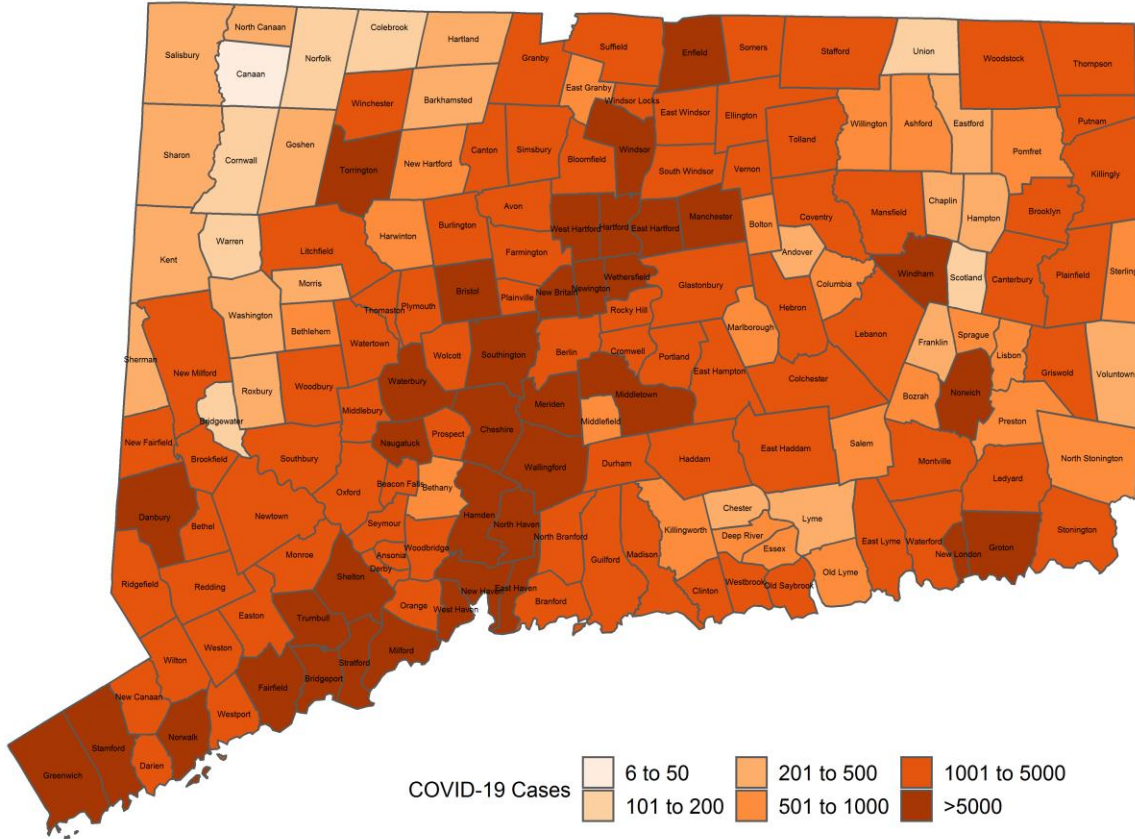


Counts may not add up to total case count because demographic data may be missing.



# Cumulative Number of COVID-19 Cases by Town

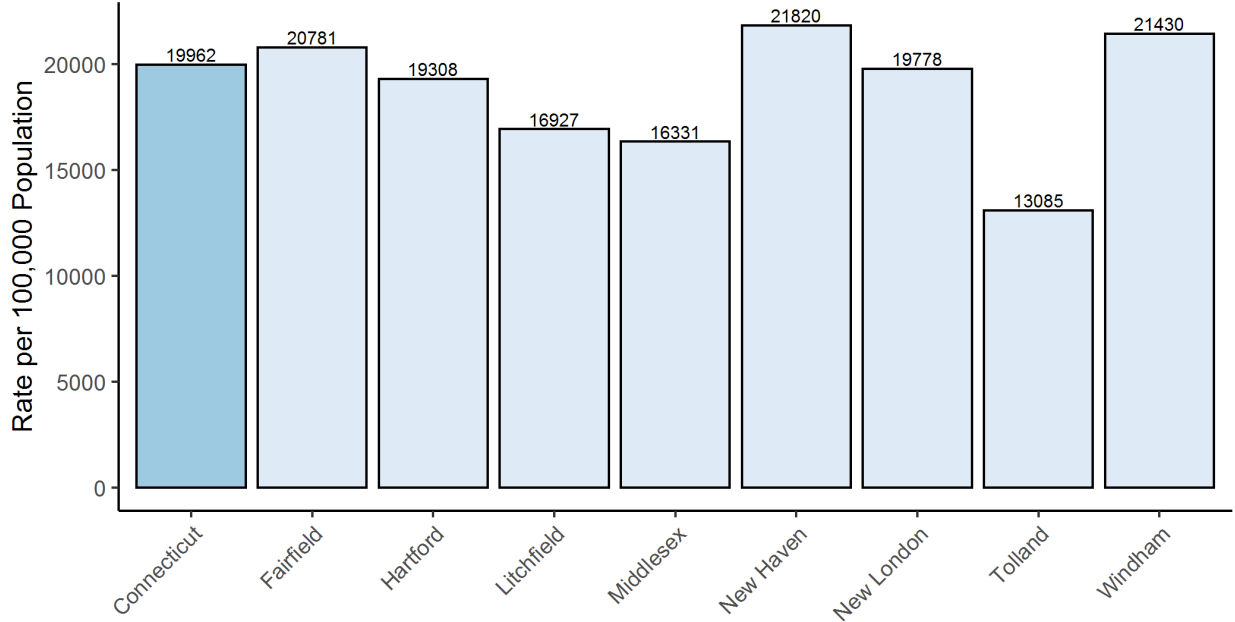
Map does not include 2733 cases pending address validation



**APPENDIX A.** The following graphs show the number of cases per 100,000 Connecticut residents statewide and by county, age group, and gender. Population estimate from: [DPH Population Statistics](#)

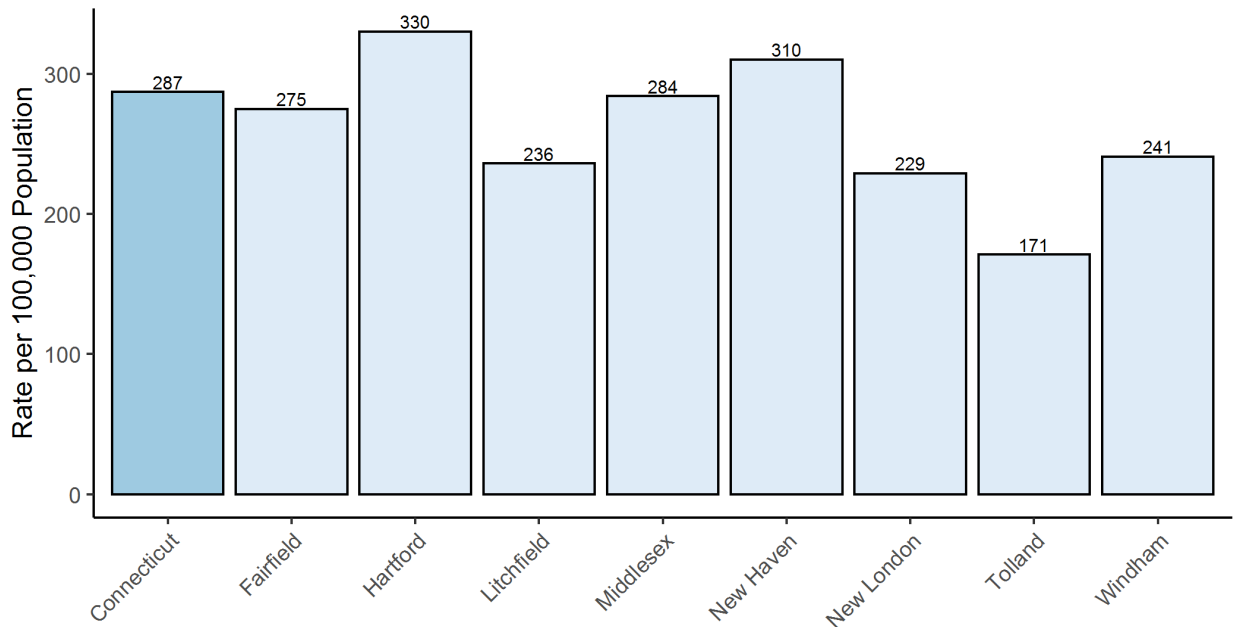
### Rate of COVID-19 Cases Statewide and by County

As of 02/09/2022



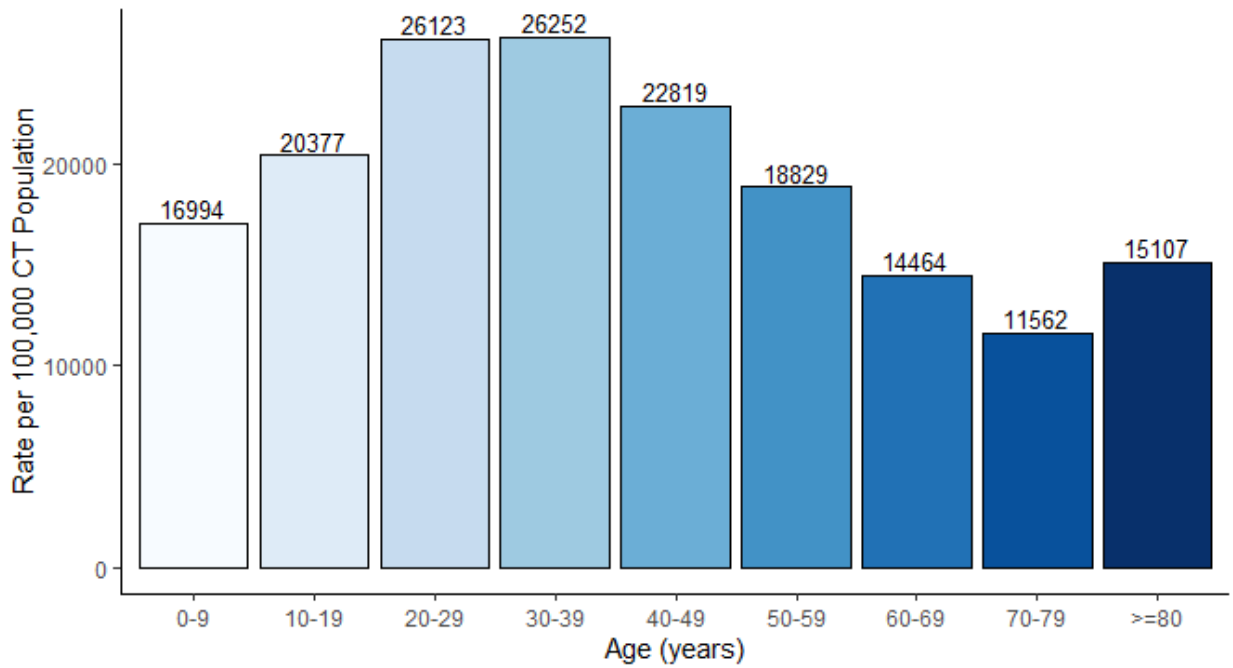
### Rate of COVID-19-Associated Deaths Statewide and by County

As of 02/09/2022



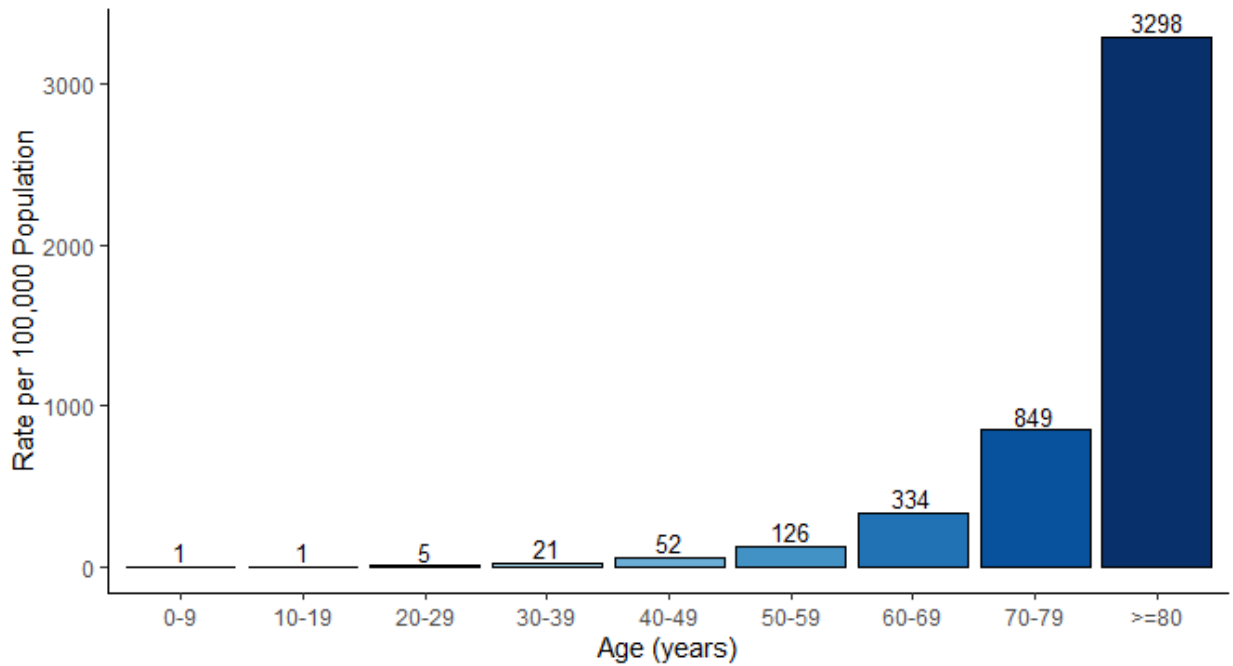
### Rate of COVID-19 Cases by Age Group

As of 02/09/2022



### Rate of COVID-19-Associated Deaths by Age Group

As of 02/09/2022



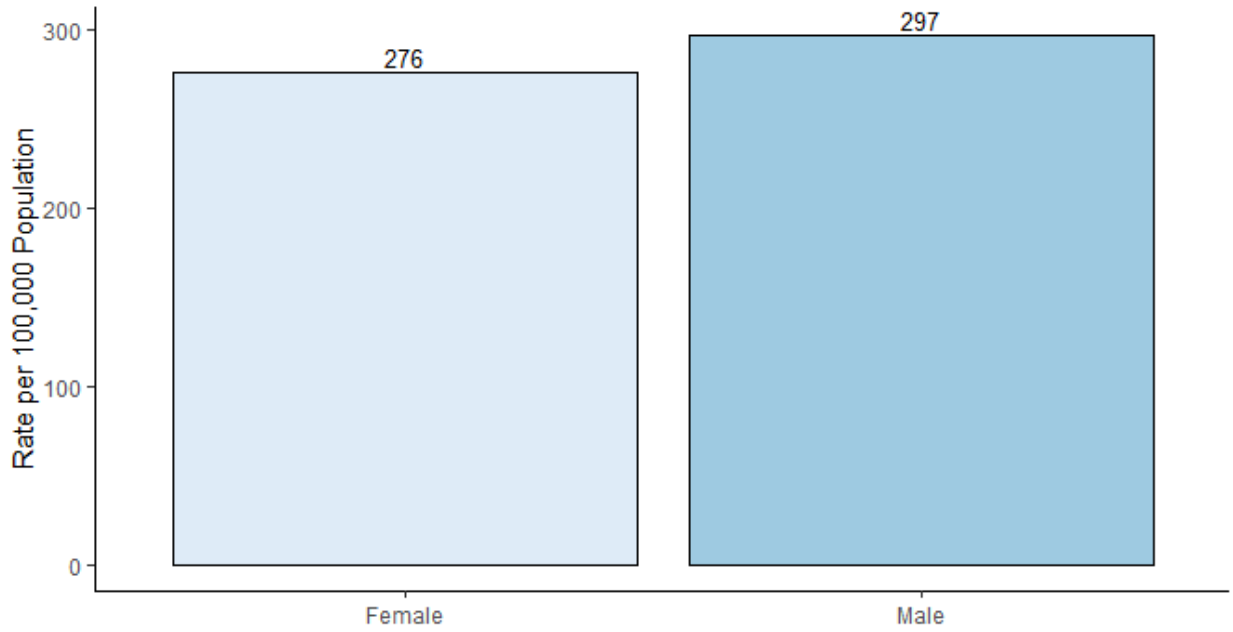
### Rate of COVID-19 Cases by Gender

As of 02/09/2022

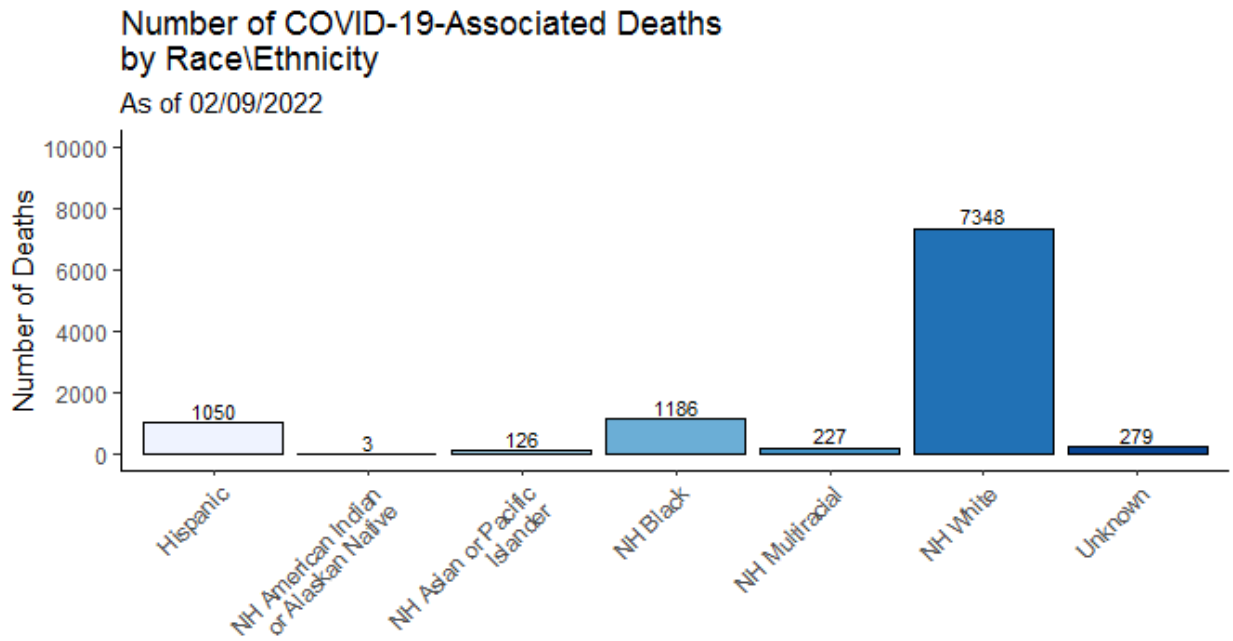
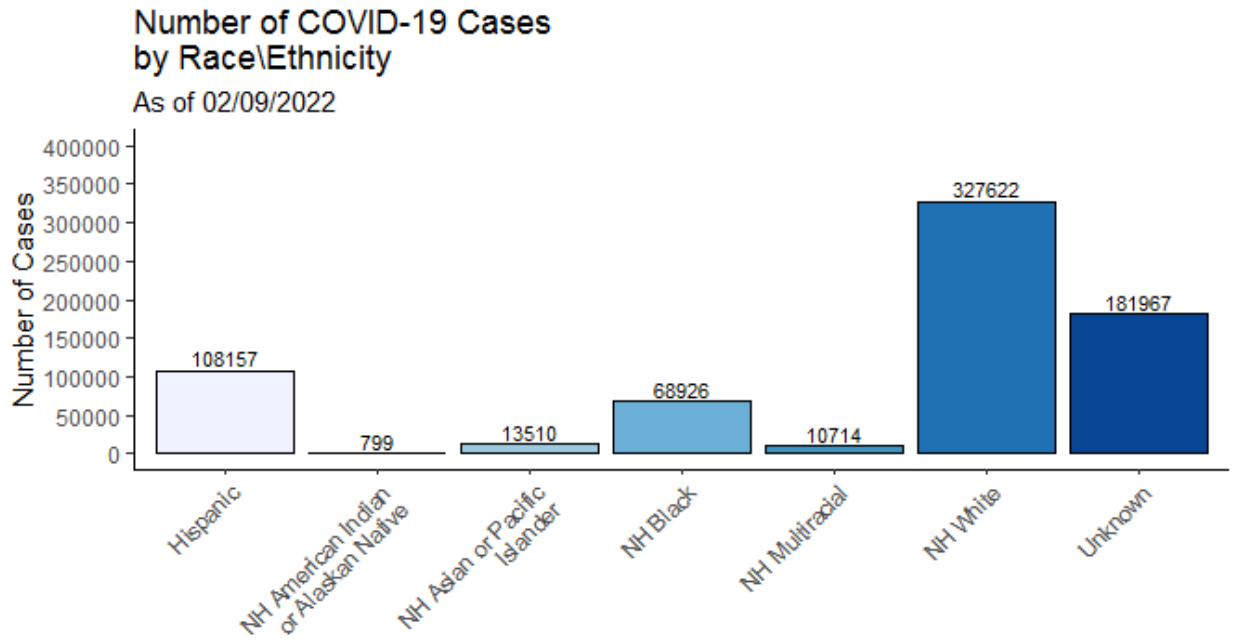


### Rate of COVID-19-Associated Deaths by Gender

As of 02/09/2022

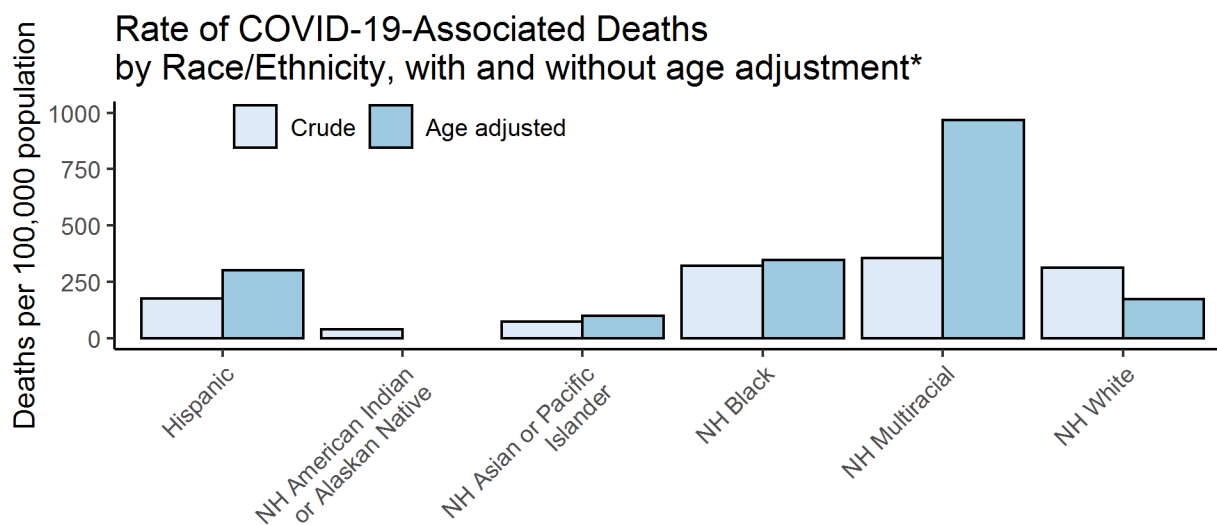
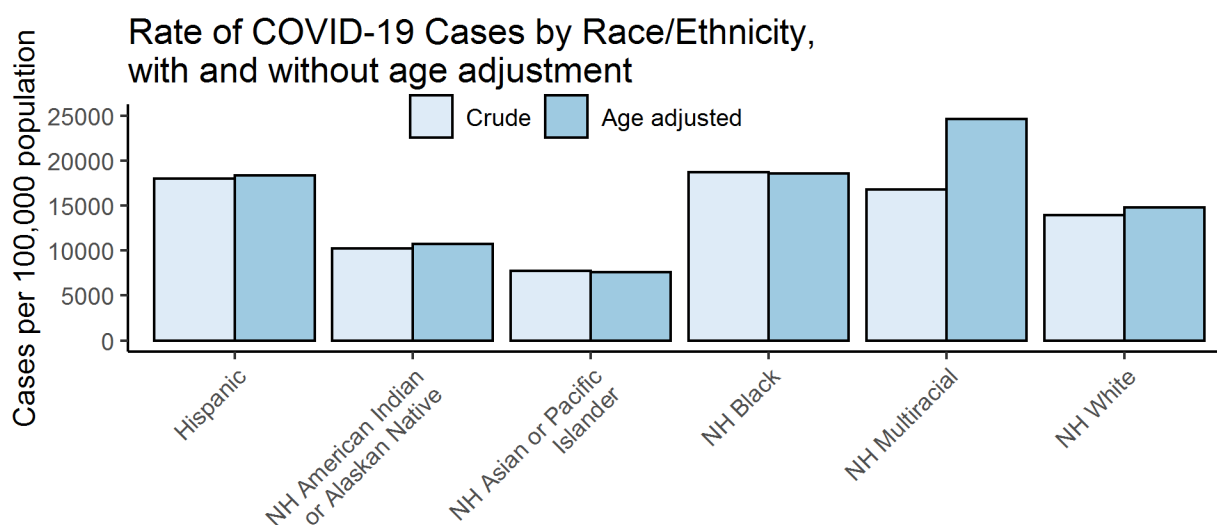


**APPENDIX B.** The following graphs show the number of cases and deaths by race and ethnicity. Categories are mutually exclusive. The category “multiracial” includes people who answered ‘yes’ to more than one race category. NH=Non-Hispanic



The following graphs show the number of COVID-19 cases and COVID-19-associated deaths per 100,000 population by race and ethnicity. Crude rates represent the total cases or deaths per 100,000 people. Age-adjusted rates consider the age of the person at diagnosis or death when estimating the rate and use a standardized population to provide a fair comparison between population groups with different age distributions. Age-adjustment is important in Connecticut as the median age of among the non-Hispanic white population is 47 years, whereas it is 34 years among non-Hispanic blacks, and 29 years among Hispanics. Because most non-Hispanic white residents who died were over 75 years of age, the age-adjusted rates are lower than the unadjusted rates. In contrast, Hispanic residents who died tend to be younger than 75 years of age which results in higher age-adjusted rates.

The 2018 Connecticut and 2000 US Standard Million populations were used for age adjustment; population estimates from: [DPH Population Statistics](#). Categories are mutually exclusive. Cases missing data on race/ethnicity are excluded from calculation of rates. NH=Non-Hispanic



\*Age adjusted rates only calculated for groups with at least 30 deaths