COVID-19 Update December 24, 2020

As of **December 23, 2020, at 8:30 PM**, the total of laboratory-confirmed and probable COVID-19 cases reported among Connecticut residents is **172743**, including **162449** laboratory-confirmed and **10294** probable cases. **One thousand two hundred** patients are currently hospitalized with laboratory-confirmed COVID-19. There have been **5791** COVID-19-associated deaths.

In Connecticut during the early months of this pandemic, it became increasingly clear that it would be necessary to track probable COVID-19 cases and deaths, in addition to laboratory-confirmed (molecular test) cases and deaths. This was needed to better measure the burden and impact of this disease in our communities and is now part of the national surveillance case definition for COVID-19. Prior to June 1, probable and confirmed cases were reported together.

Overall Summary	Total*	Change Since Yesterday
COVID-19 Cases (confirmed and probable)	172743	+2038
COVID-19 Tests Reported (molecular and antigen)	4114785	+37549
Daily Test Positivity		5.43%
Patients Currently Hospitalized with COVID-19	1200	+45
COVID-19-Associated Deaths	5791	+55

*Includes confirmed plus probable cases

COVID-19 Cases and Associated Deaths by County of Residence a*s of 12/23/20 8:30pm.*

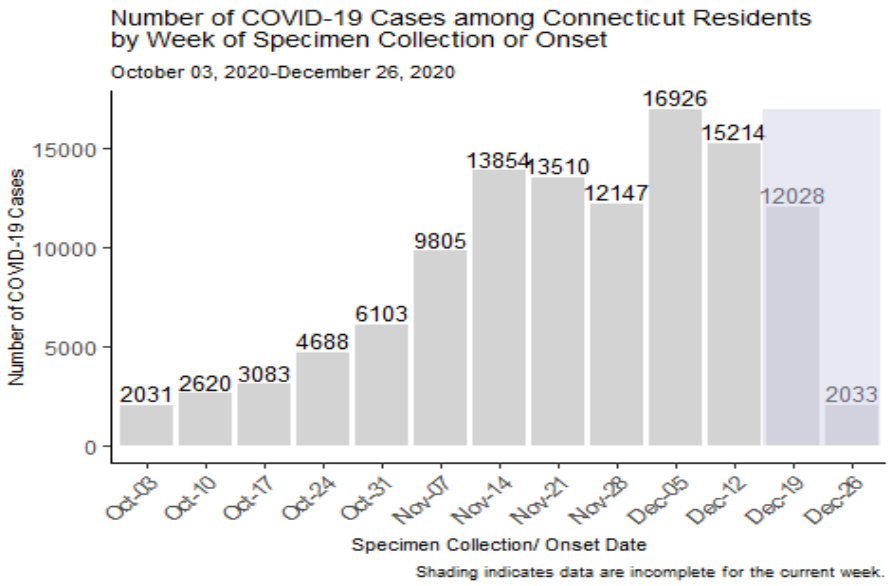
County	COVID-19 Cases		COVID-19-Associated Deaths	
	Confirmed	Probable	Confirmed	Probable
Fairfield County	49225	3876	1312	357
Hartford County	41331	1922	1429	361
Litchfield County	6516	488	187	27
Middlesex County	5562	312	184	48
New Haven County	41091	3043	1263	223
New London County	9422	223	169	60
Tolland County	4194	303	84	22
Windham County	4518	73	58	7
Pending address validation	590	54	0	0
Total	**162449**	**10294**	**4686**	**1105**

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

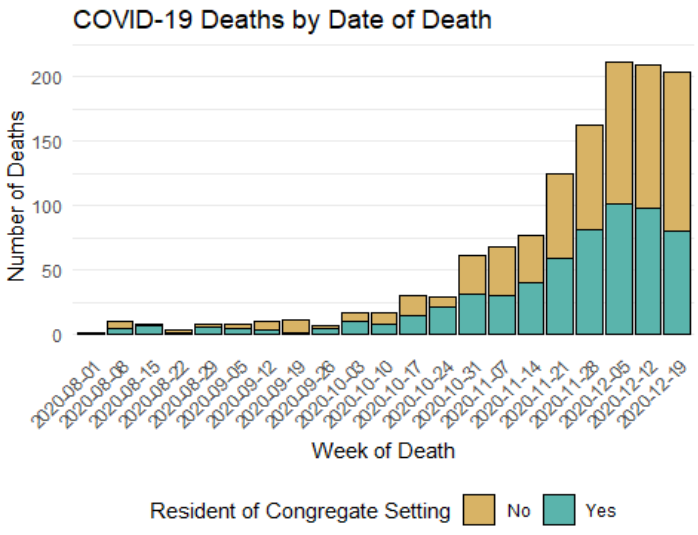
Day-to-day changes reflect newly reported cases, deaths, and tests that occurred over the last several days to week. All data in this report are preliminary; data for previous dates will be updated as new reports are received and data errors are corrected. Hospitalization data were collected by the Connecticut 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 now includes probable cases based on positive antigen test results. During the past two weeks (December 06-19), there were 27,242 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 1st 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.

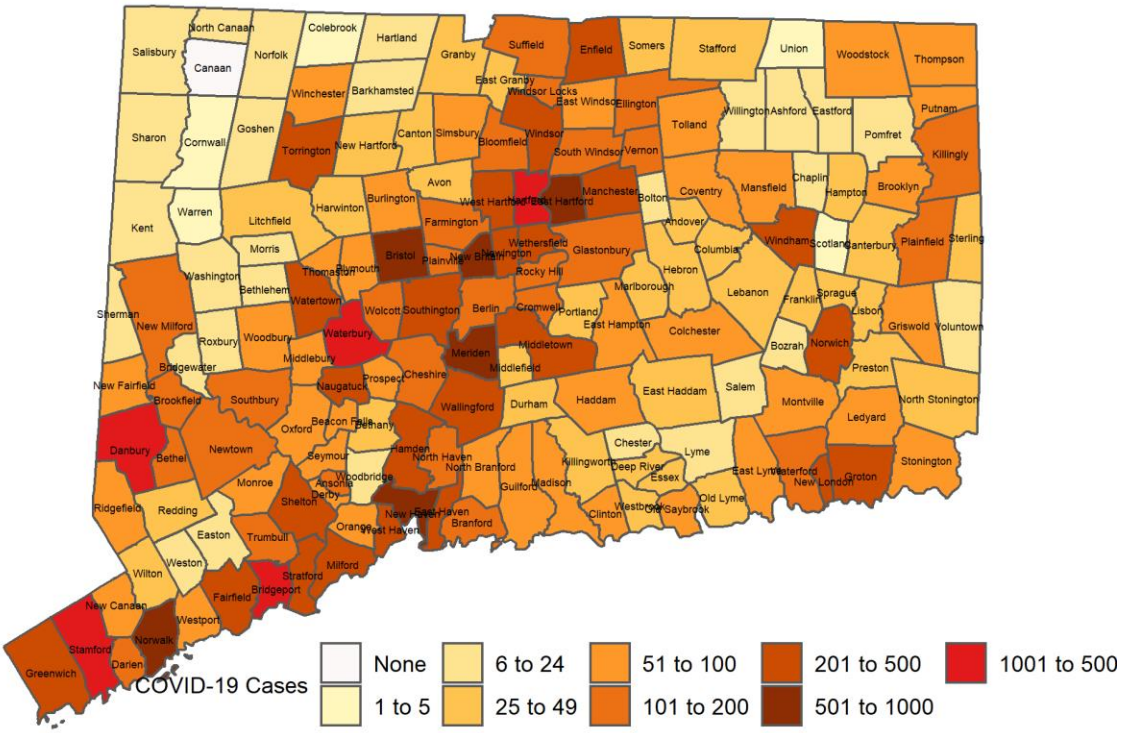


Community Transmission of COVID-19

Among 27,242 new COVID-19 cases with specimen collection or onset date during December 06-19, there were 26,322 cases among people living in community settings, as shown in the map below. This corresponds to an average of 52.63 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 64 towns.

Number of COVID-19 Cases among People Living in Community Settings by Town with Specimen Collection or Onset Date During December 06-19

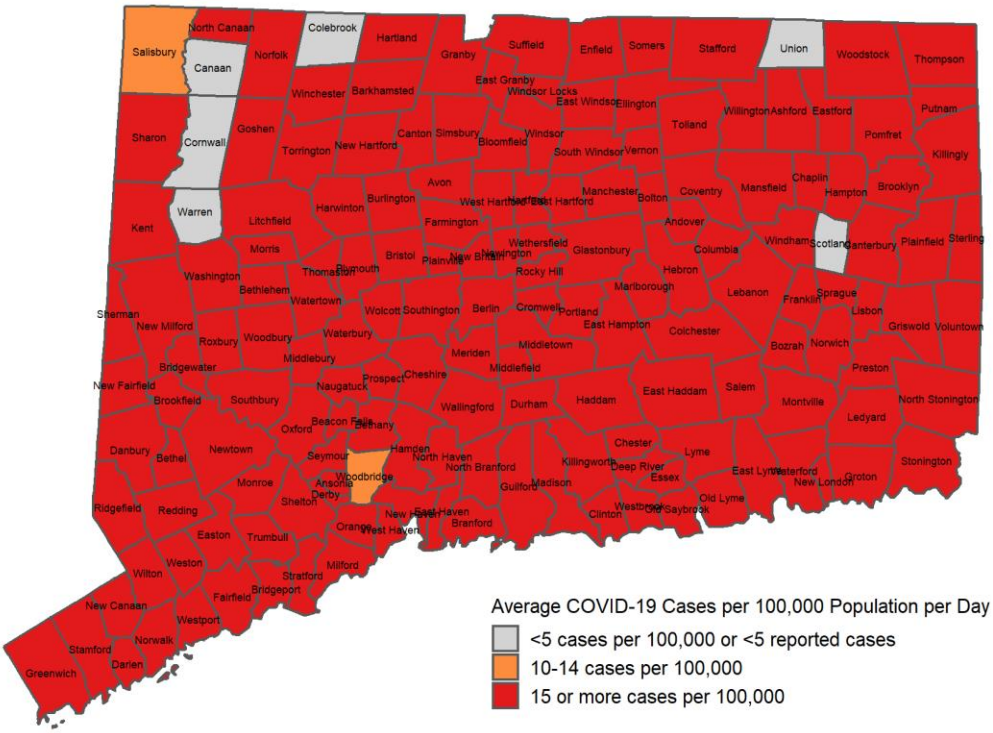


Map does not include 165 *cases pending address validation*

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 next map below shows 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 December 06-19, 161 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 December 06-19



Map does not include 165 *cases pending address validation*

Population, Number and Average Daily Rate of COVID-19 Cases among People Living in Community Settings by Town with Specimen Collection or Onset Date during December 06-19, 2020

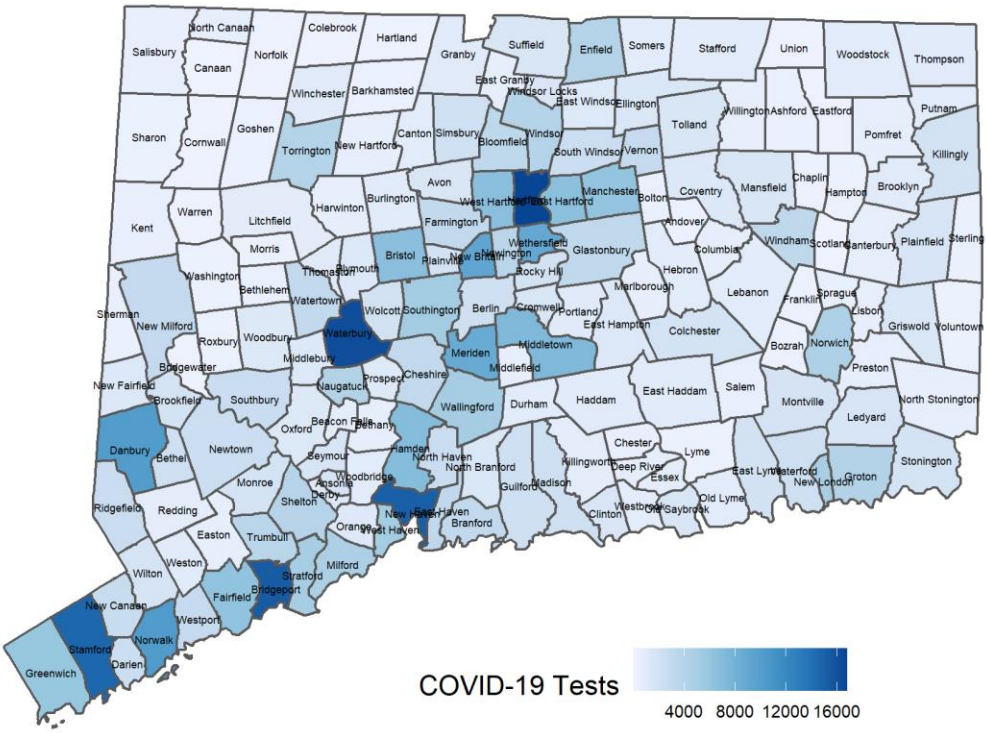
Map does not include 165 *cases pending address validation*

Town	Population	Cases	Rate	Town	Population	Cases	Rate	Town	Population	Cases	Rate
Andover	3231	27	59.7	Griswold	11591	89	54.8	Prospect	9790	69	50.3
Ansonia	18721	109	41.6	Groton	38692	218	40.2	Putnam	9395	80	60.8
Ashford	4261	18	30.2	Guilford	22216	100	32.2	Redding	9125	29	22.7
Avon	18302	39	15.2	Haddam	8222	54	46.9	Ridgefield	25008	84	24
Barkhamsted	3624	13	25.6	Hamden	60940	330	38.7	Rocky Hill	20145	114	40.4
Beacon Falls	6182	53	61.2	Hampton	1853	28	107.9	Roxbury	2160	13	43
Berlin	20432	149	52.1	Hartford	122587	1525	88.9	Salem	4123	21	36.4
Bethany	5479	33	43.0	Hartland	2120	11	37.1	Salisbury	3598	6	11.9
Bethel	19714	156	56.5	Harwinton	5430	31	40.8	Scotland	1685	4	17
Bethlehem	3422	23	48.0	Hebron	9482	42	31.6	Seymour	16509	99	42.8
Bloomfield	21301	159	53.3	Kent	2785	20	51.3	Sharon	2703	7	18.5
Bolton	4890	14	20.4	Killingly	17287	137	56.6	Shelton	41097	213	37
Bozrah	2537	18	50.7	Killingworth	6370	30	33.6	Sherman	3614	19	37.6
Branford	28005	142	36.2	Lebanon	7207	33	32.7	Simsbury	24979	84	24
Bridgeport	144900	1060	52.3	Ledyard	14736	87	42.2	Somers	10834	50	33
Bridgewater	1641	7	30.5	Lisbon	4248	33	55.5	South Windsor	26054	164	45
Bristol	60032	561	66.8	Litchfield	8127	26	22.9	Southbury	19656	140	50.9
Brookfield	17002	145	60.9	Lyme	2338	10	30.6	Southington	43807	329	53.6
Brooklyn	8280	73	63.0	Madison	18106	83	32.7	Sprague	2889	28	69.2
Burlington	9665	59	43.6	Manchester	57699	438	54.2	Stafford	11884	49	29.5
Canaan	1055	0	0.0	Mansfield	25817	60	16.6	Stamford	129775	1167	64.2
Canterbury	5100	48	67.2	Marlborough	6358	30	33.7	Sterling	3780	28	52.9
Canton	10270	31	21.6	Meriden	59540	673	80.7	Stonington	18449	79	30.6
Chaplin	2256	7	22.2	Middlebury	7731	94	86.8	Stratford	51967	300	41.2
Cheshire	29179	176	43.1	Middlefield	4380	30	48.9	Suffield	15743	110	49.9
Chester	4229	15	25.3	Middletown	46146	339	52.5	Thomaston	7560	74	69.9
Clinton	12950	76	41.9	Milford	54661	264	34.5	Thompson	9395	83	63.1
Colchester	15936	86	38.5	Monroe	19470	97	35.6	Tolland	14655	87	42.4
Colebrook	1405	4	20.3	Montville	18716	89	34.0	Torrington	34228	214	44.7
Columbia	5385	45	59.7	Morris	2262	15	47.4	Trumbull	35802	198	39.5
Cornwall	1368	2	10.4	Naugatuck	31288	277	63.2	Union	840	4	34
Coventry	12414	70	40.3	New Britain	72453	870	85.8	Vernon	29303	198	48.3
Cromwell	13905	142	72.9	New Canaan	20213	100	35.3	Voluntown	2535	14	39.4
Danbury	84730	1085	91.5	New Fairfield	13877	89	45.8	Wallingford	44535	330	52.9
Darien	21753	106	34.8	New Hartford	6685	34	36.3	Warren	1399	1	5.1
Deep River	4463	32	51.2	New Haven	130418	793	43.4	Washington	3434	14	29.1
Derby	12515	95	54.2	New London	26939	237	62.8	Waterbury	108093	1347	89
Durham	7195	41	40.7	New Milford	26974	171	45.3	Waterford	18887	115	43.5
East Granby	5147	29	40.2	Newington	30112	243	57.6	Watertown	21641	253	83.5
East Haddam	8988	33	26.2	Newtown	27774	114	29.3	West Hartford	62939	344	39
East Hampton	12854	80	44.5	Norfolk	1640	6	26.1	West Haven	54879	323	42
East Hartford	49998	655	93.6	North Branford	14158	84	42.4	Westbrook	6914	45	46.5
East Haven	28699	206	51.3	North Canaan	3254	15	32.9	Weston	10247	24	16.7
East Lyme	18645	94	36.0	North Haven	23691	150	45.2	Westport	28115	88	22.4
East Windsor	11375	63	39.6	North Stonington	5243	37	50.4	Wethersfield	26082	363	99.4
Eastford	1790	11	43.9	Norwalk	89047	772	61.9	Willington	5887	22	26.7
Easton	7517	25	23.8	Norwich	39136	385	70.3	Wilton	18397	44	17.1
Ellington	16299	102	44.7	Old Lyme	7366	27	26.2	Winchester	10655	65	43.6
Enfield	44466	334	53.7	Old Saybrook	10087	69	48.9	Windham	24706	345	99.7
Essex	6674	33	35.3	Orange	13949	69	35.3	Windsor	28760	221	54.9
Fairfield	61952	302	34.8	Oxford	13226	77	41.6	Windsor Locks	12876	113	62.7
Farmington	25506	110	30.8	Plainfield	15173	148	69.7	Wolcott	16649	159	68.2
Franklin	1933	31	114.6	Plainville	17623	144	58.4	Woodbridge	8805	13	10.5
Glastonbury	34491	158	32.7	Plymouth	11645	94	57.7	Woodbury	9537	69	51.7
Goshen	2879	17	42.2	Pomfret	4204	25	42.5	Woodstock	7862	56	50.9
Granby	11375	43	27.0	Portland	9305	44	33.8				
Greenwich	62727	271	30.9	Preston	4638	39	60.1				

COVID-19 Molecular and Antigen Tests during December 06-19

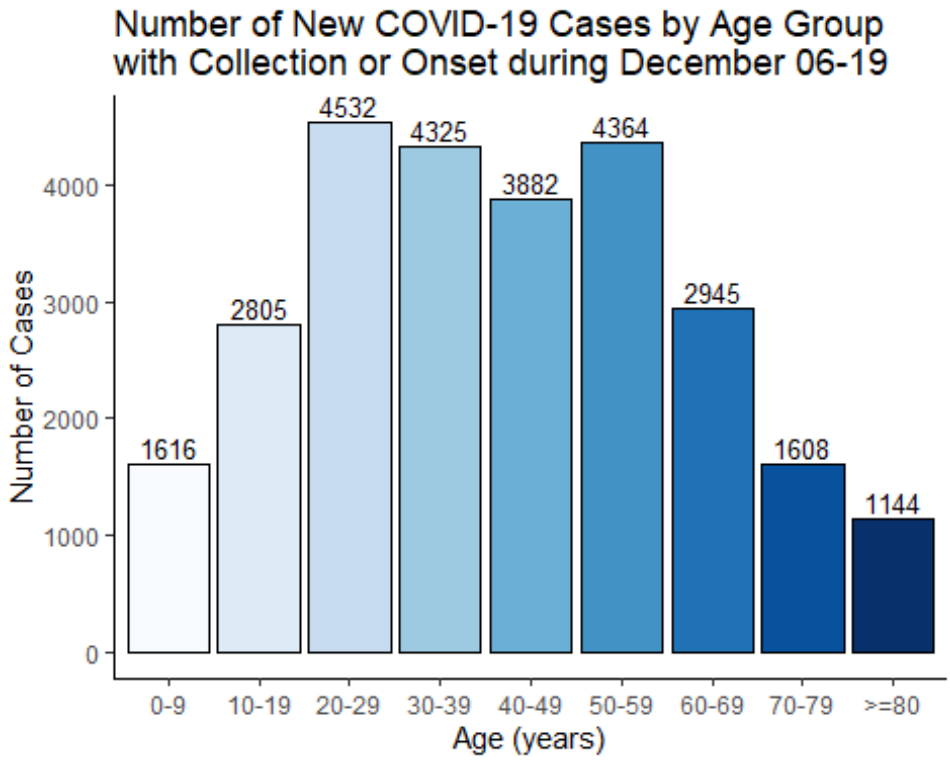
Among 445,495 molecular and antigen tests for COVID-19 with specimen collection date during December 06-19, 407,727 (92%) tests were conducted among people who did not reside in congregate settings (including nursing homes, assisted living, and correctional facilities). Of these 407,727 tests, 31,968 (8%) were positive. The map below shows the number of molecular and antigen COVID-19 tests by town with specimen collection date during December 06-19 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 December 06-19



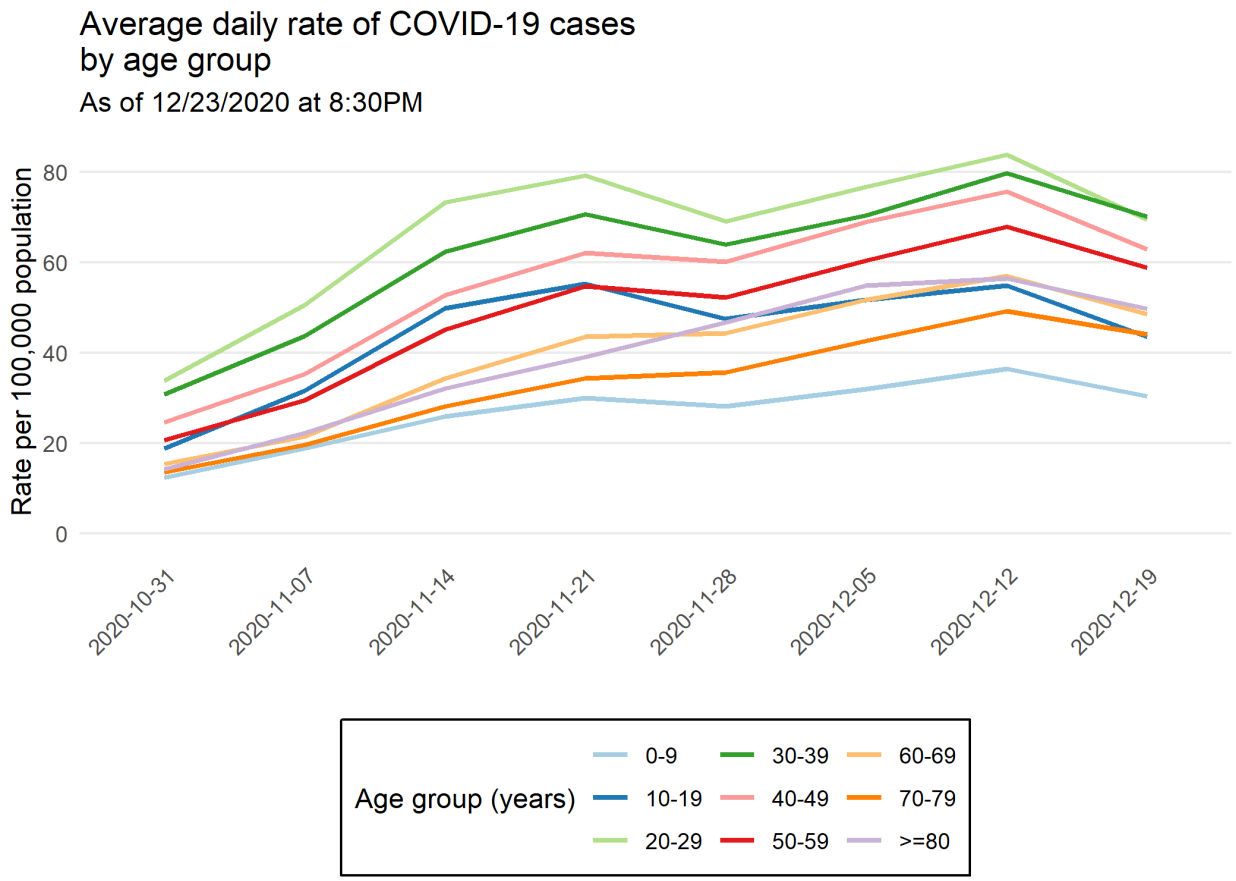
Map does not include tests pending address validation

Age Distribution of COVID-19 Cases with Specimen Collection or Onset During December 06-19, 2020



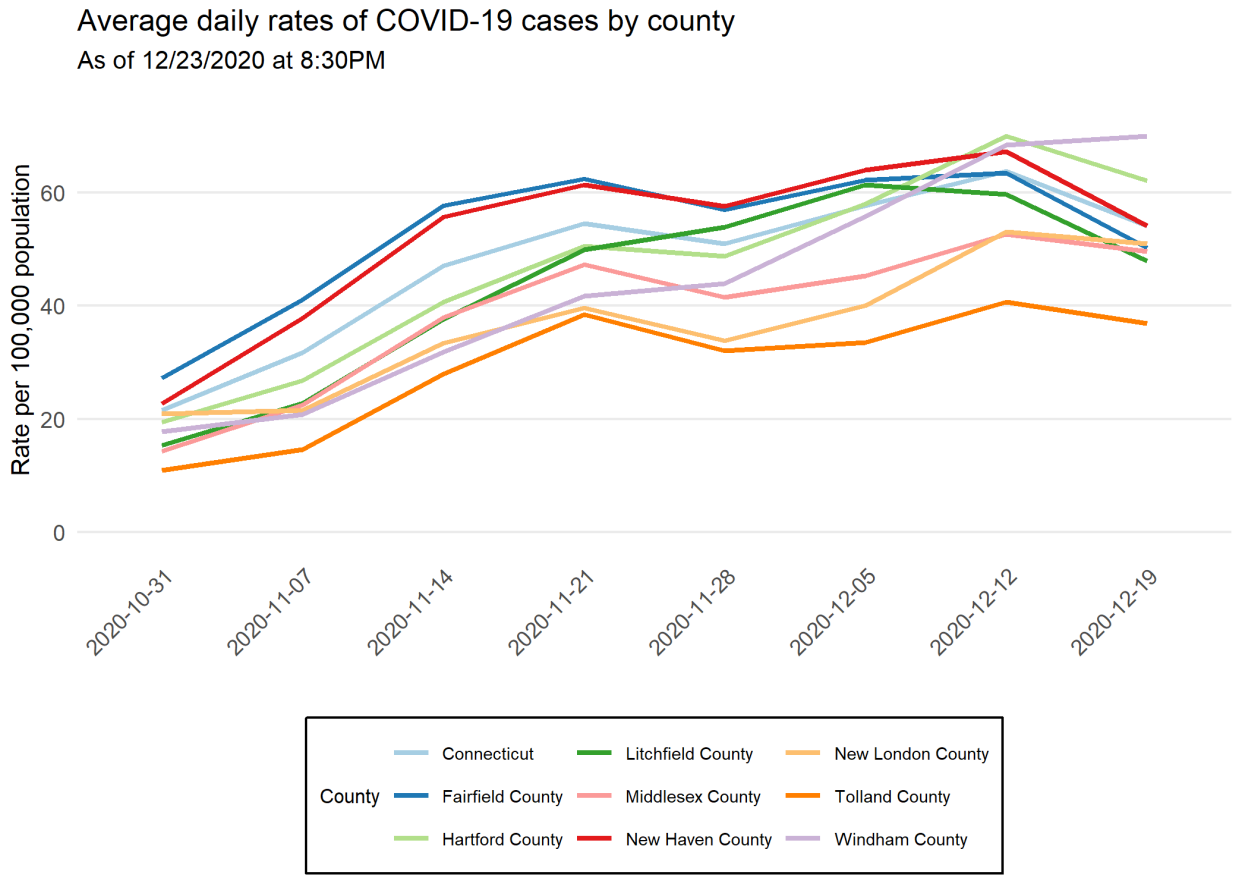
Average Daily Incidence by Age Group

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.



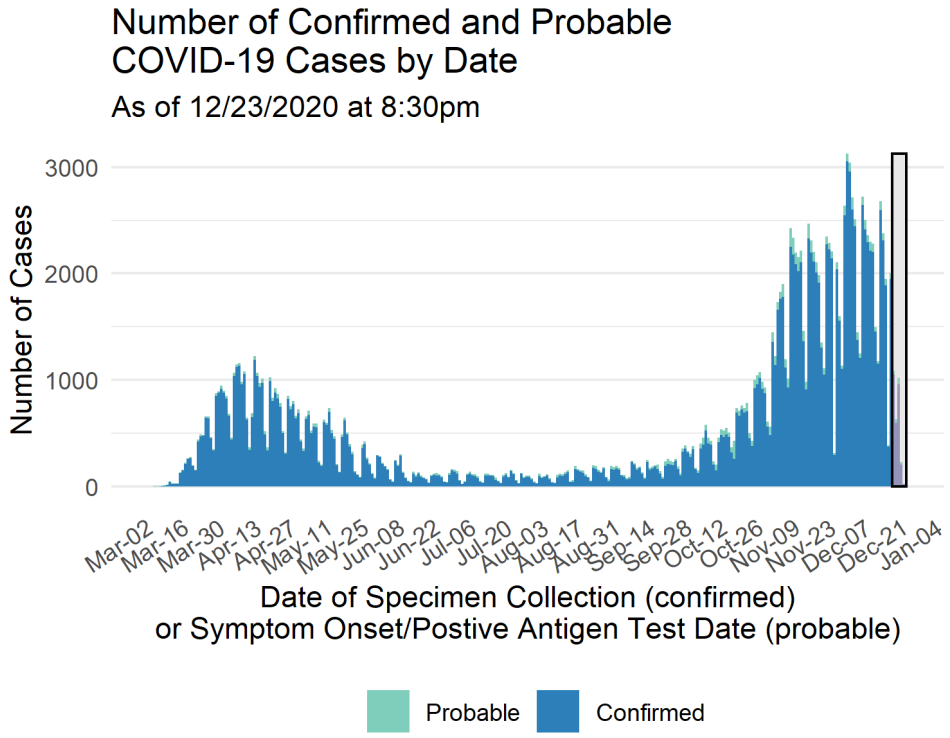
Average Daily Incidence by County

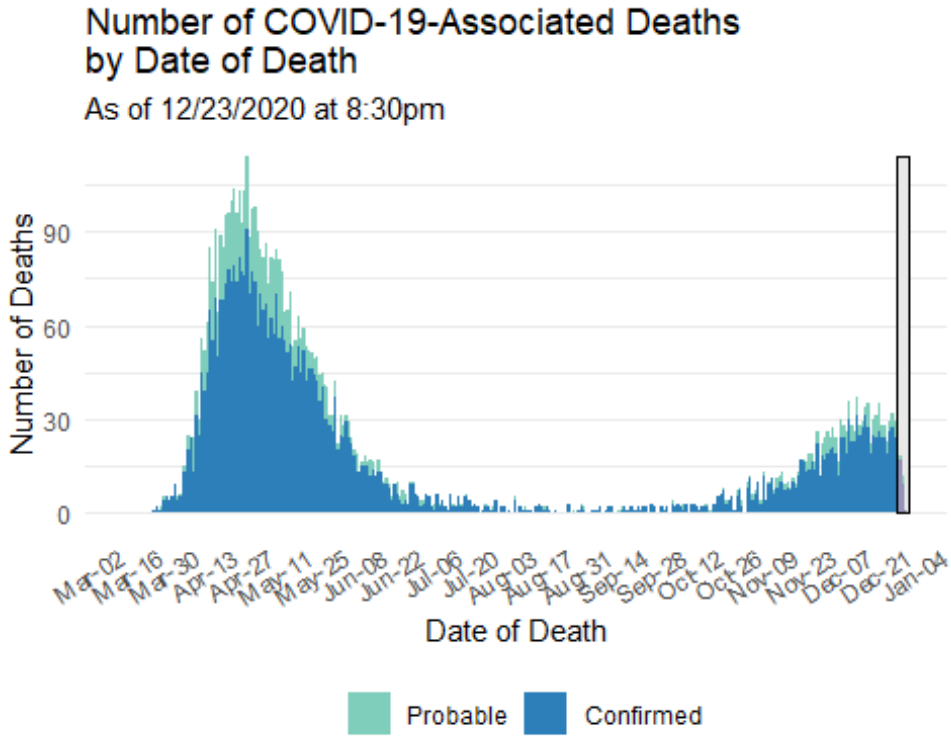
The chart below shows the average number of new COVID-19 cases per day per 100,000 population in the state of Connecticut and for each Connecticut county. The rates in this chart are calculated by averaging the number of new cases diagnosed each day during the previous two weeks, dividing by the annual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



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.



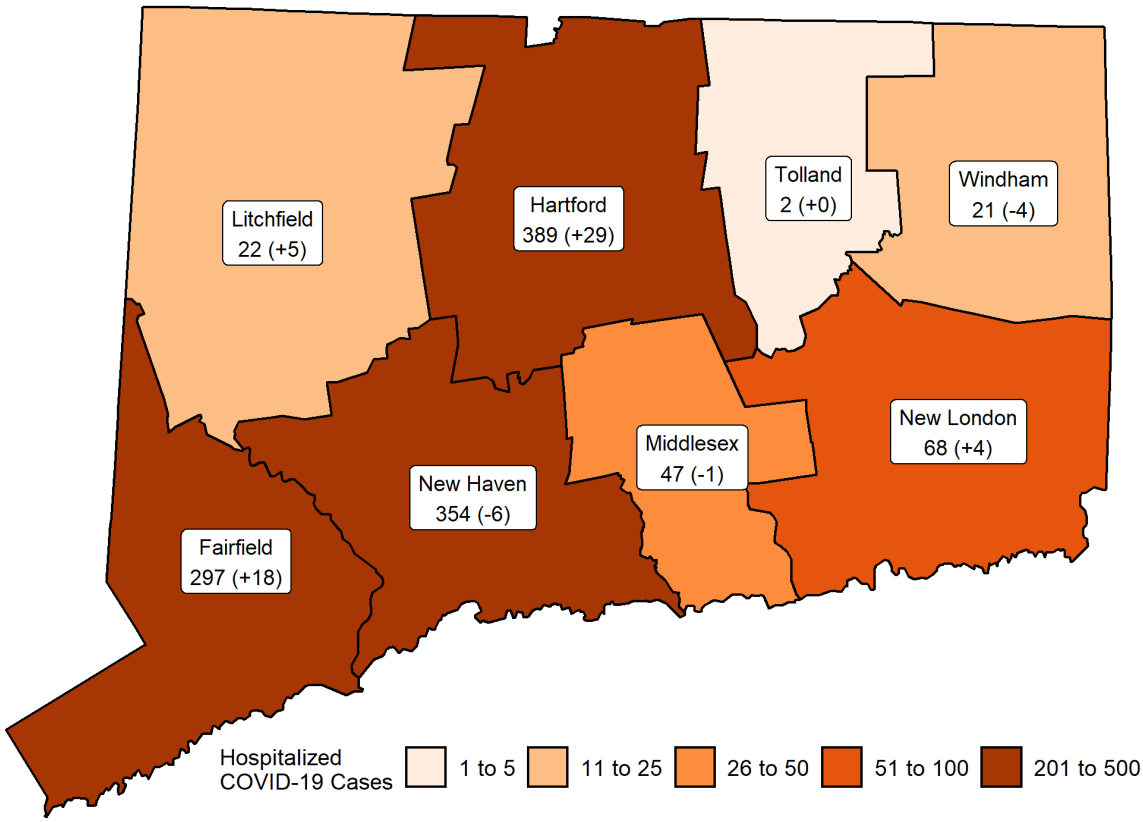


Hospitalization Surveillance

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

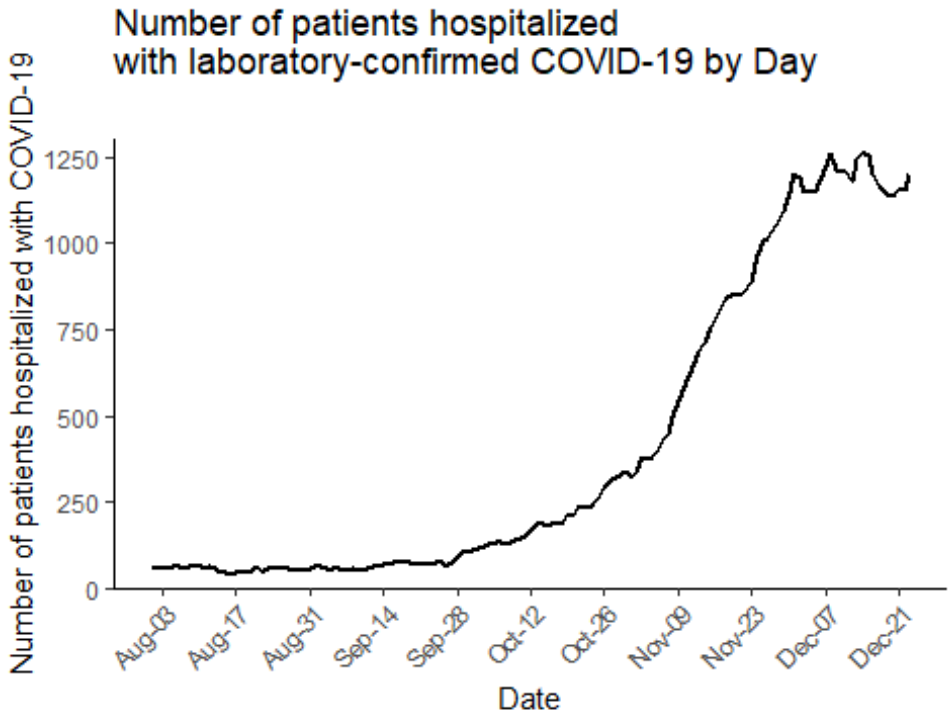
Distribution by location of hospital not patient residence. Data from the Connecticut Hospital Association.



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.

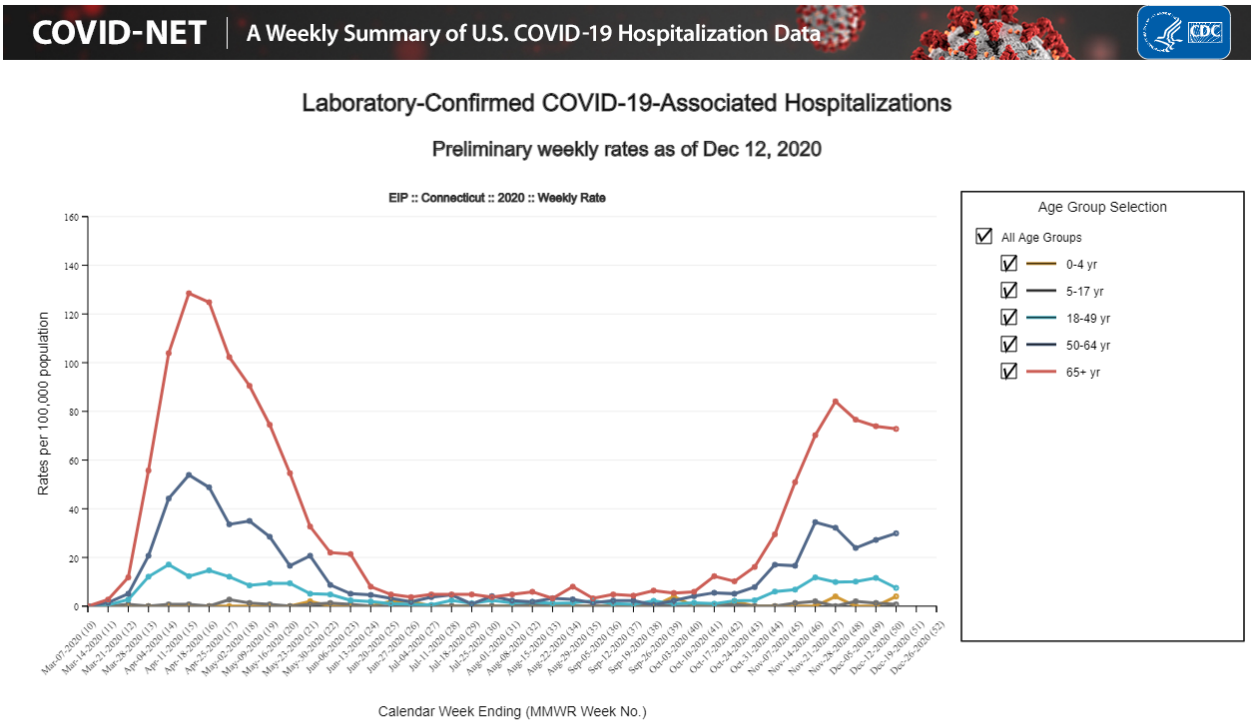


Weekly hospitalizations by age group in New Haven and Middlesex Counties

The chart below shows the weekly rate of laboratory-confirmed COVID-19-associated hospitalizations by age group for residents of New Haven and Middlesex Counties.

These data were collected by COVID-NET, the COVID-19-Associated Hospitalization Surveillance Network. Connecticut is one of 14 states that participate in COVID-NET, which conducts population-based surveillance for laboratory-confirmed COVID-19-associated hospitalizations. In Connecticut, COVID-NET surveillance covers residents of New Haven and Middlesex Counties, a population of approximately 1 million. These data are collected in partnership with CDC and other surveillance sites.

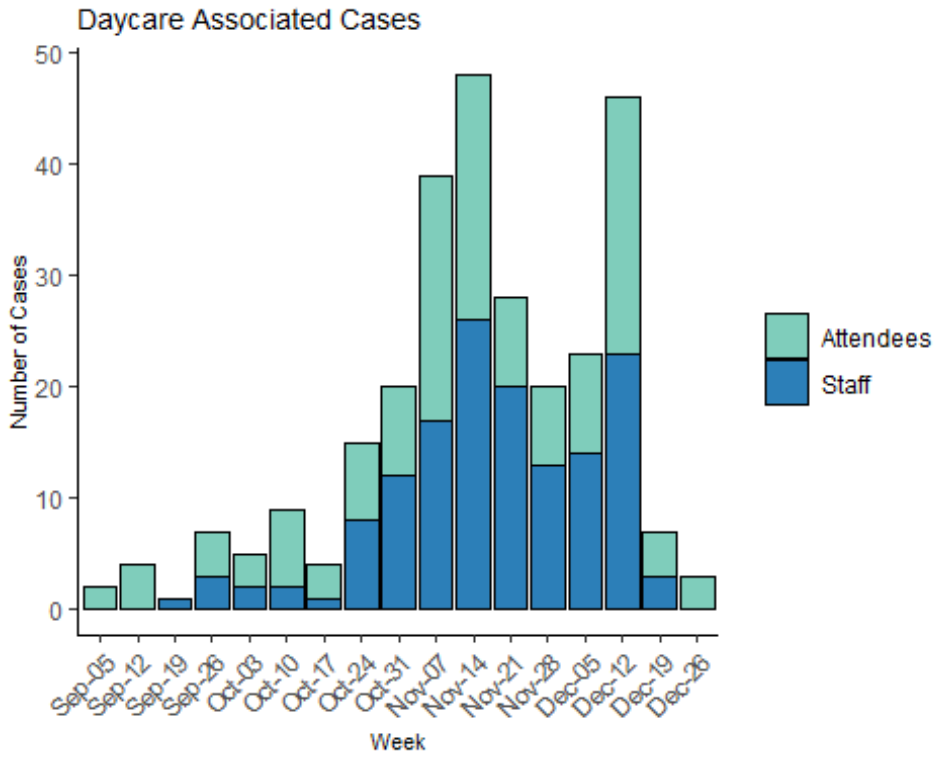
COVID-NET hospitalization data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag. As data are received each week, prior case counts and rates are updated.



The Coronavirus Disease 2019 (COVID-19)-Associated Hospitalization Surveillance Network (COVID-NET) conducts population-based surveillance for laboratory-confirmed COVID-19-associated hospitalizations in children (persons younger than 18 years) and adults. The current network covers nearly 100 counties in the 10 Emerging Infections Program (EIP) states (CA, CO, CT, GA, MD, MN, NM, NY, OR, and TN) and four additional states through the Influenza Hospitalization Surveillance Project (IA, MI, OH, and UT). The network represents approximately 10% of US population (~32 million people). Cases are identified by reviewing hospital, laboratory, and admission databases and infection control logs for patients hospitalized with a documented positive SARS-CoV-2 test. Data gathered are used to estimate age-specific hospitalization rates on a weekly basis and describe characteristics of persons hospitalized with COVID-19. Laboratory confirmation is dependent on clinician-ordered SARS-CoV-2 testing. Therefore, the unadjusted rates provided are likely to be underestimated as COVID-19-associated hospitalizations can be missed due to test availability and provider or facility testing practices. COVID-NET hospitalization data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag. As data are received each week, prior case counts and rates are updated accordingly. All incidence rates are unadjusted. Please use the following citation when referencing these data: "COVID-NET: COVID-19-Associated Hospitalization Surveillance Network, Centers for Disease Control and Prevention. WEBSITE. Accessed on DATE".

Daycare Surveillance

Licensed daycare providers are required to report cases of COVID-19 among attendees and staff to the Department of Public Health (DPH) and the local health department. This figure shows the number of cases among daycare attendees and staff reported to DPH since September 1, 2020. 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.

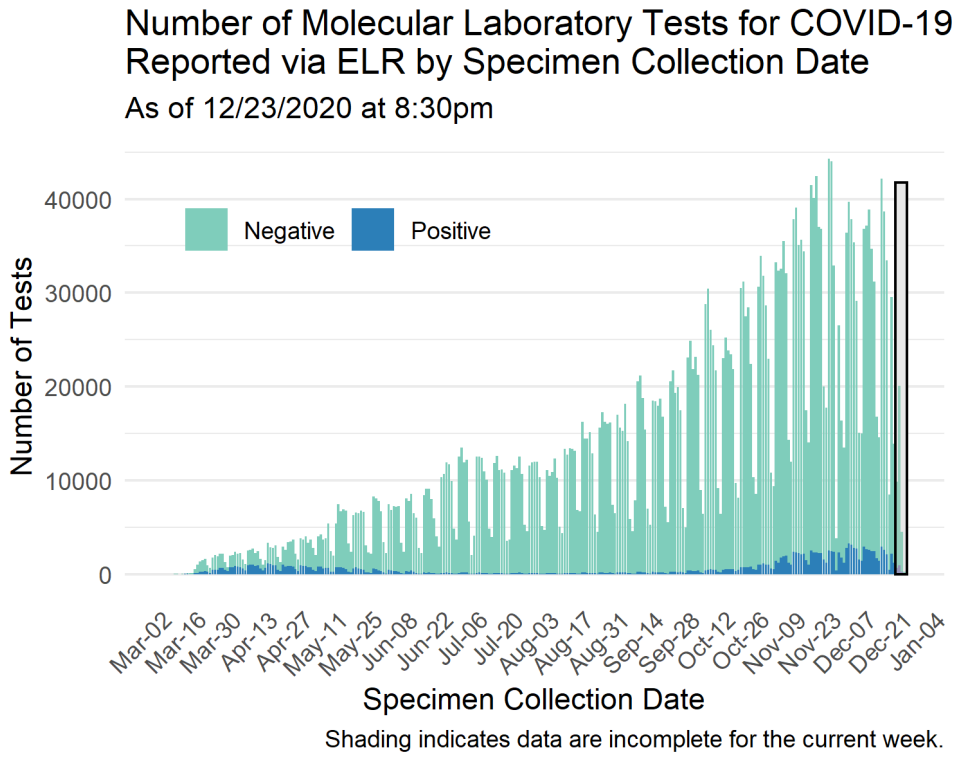


Laboratory Surveillance

Molecular Tests

To date, DPH has received reports on a total of 4,001,009 molecular COVID-19 laboratory tests; of these 3,617,232 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.



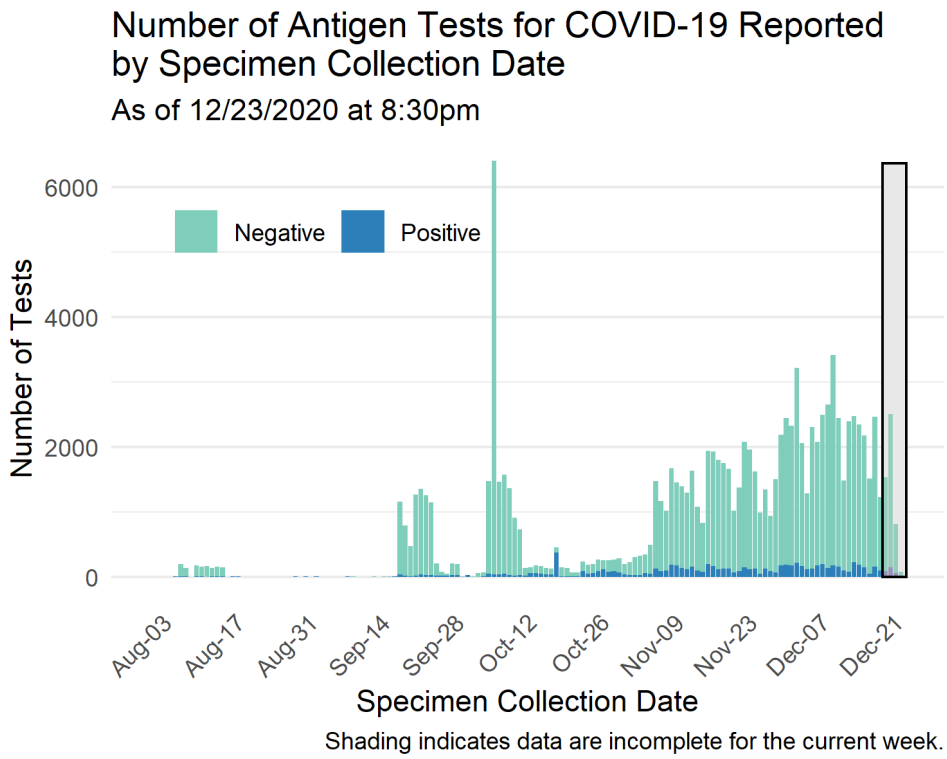
Testing of recently collected specimens is ongoing and does not reflect a decrease in testing. Chart only includes test results received by electronic laboratory reporting.

ELR = Electronic Laboratory Reporting

Antigen Tests

To date, DPH has received reports on a total of 113,776 COVID-19 antigen laboratory tests. The chart below shows the number of antigen tests reported to DPH by specimen collection date and test result.

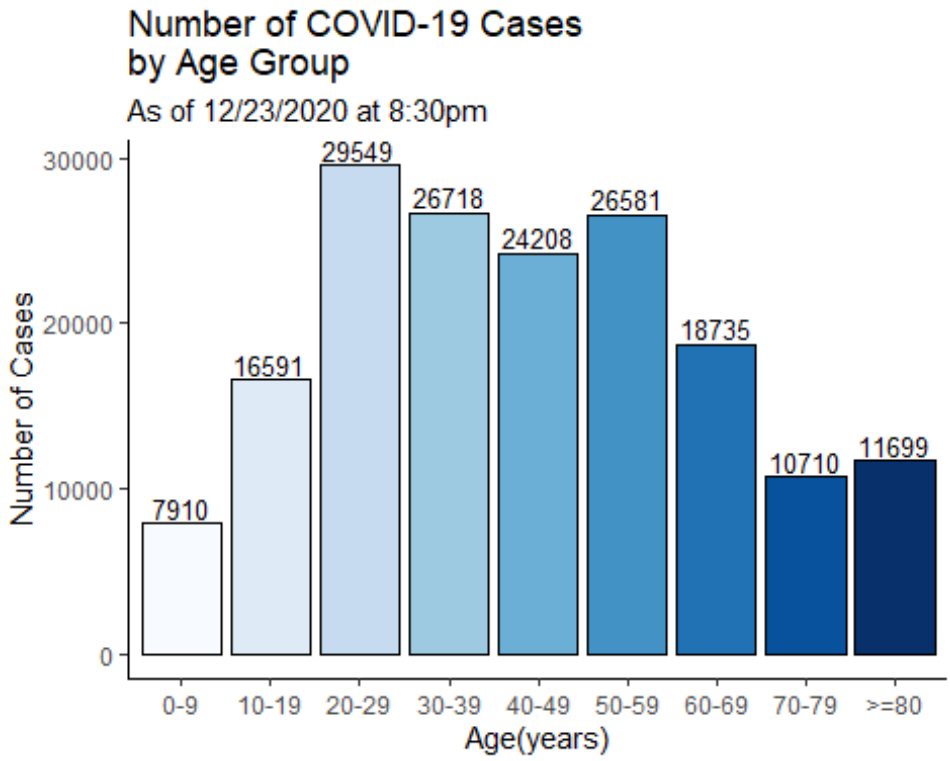
Test results may be reported several days after specimen collection. Data are incomplete for most recent dates shaded in grey. Data for previous dates are routinely updated.

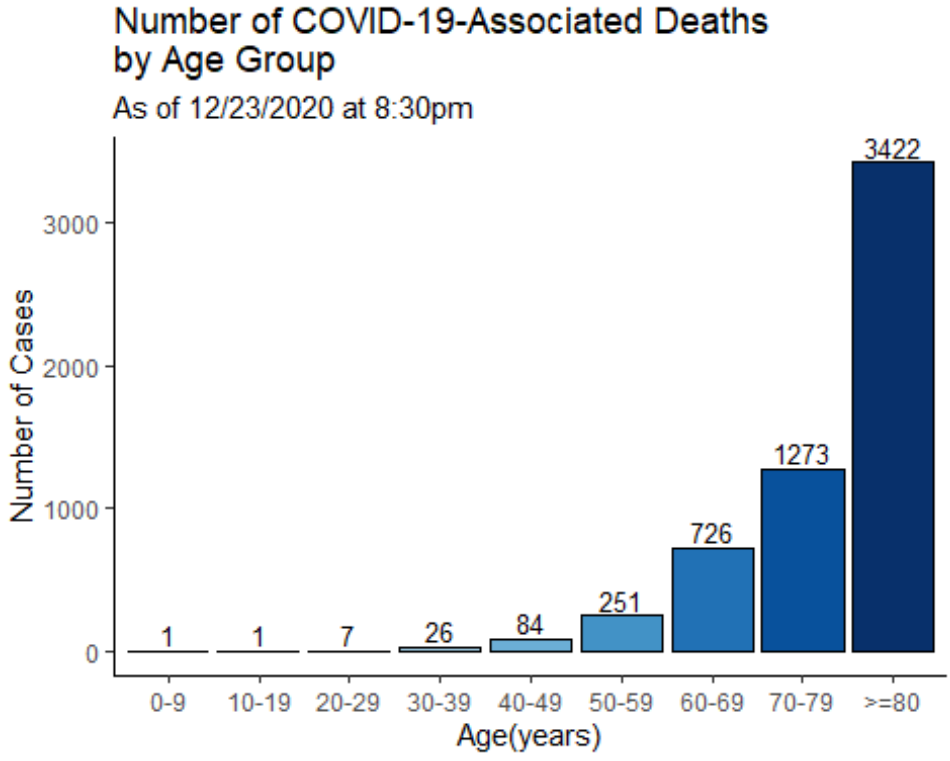


Testing of recently collected specimens is ongoing and does not reflect a decrease in testing.

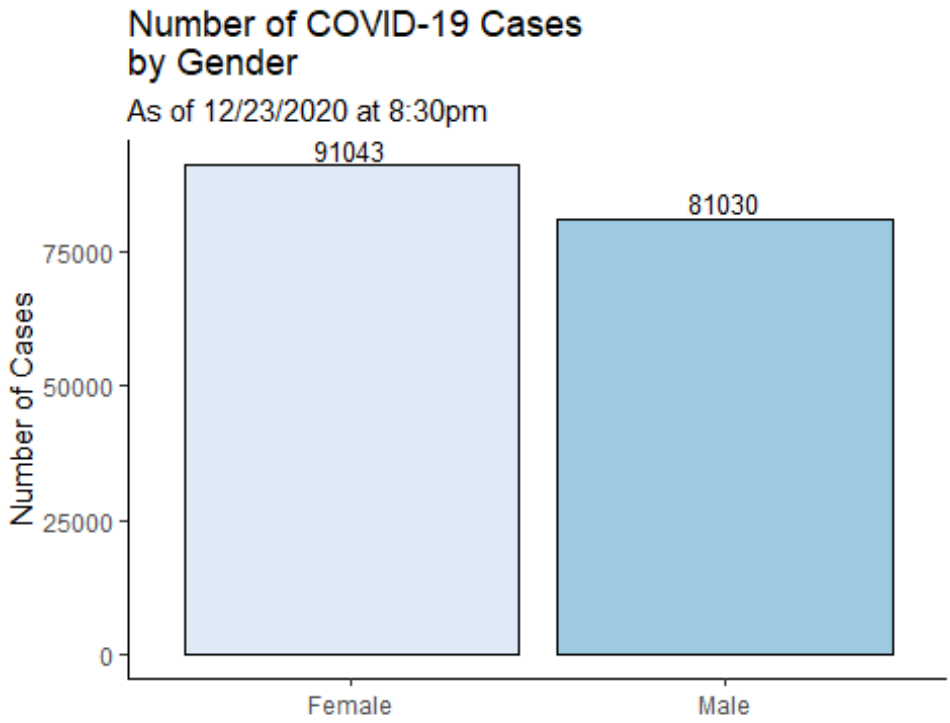
Characteristics of COVID-19 Cases and Associated Deaths

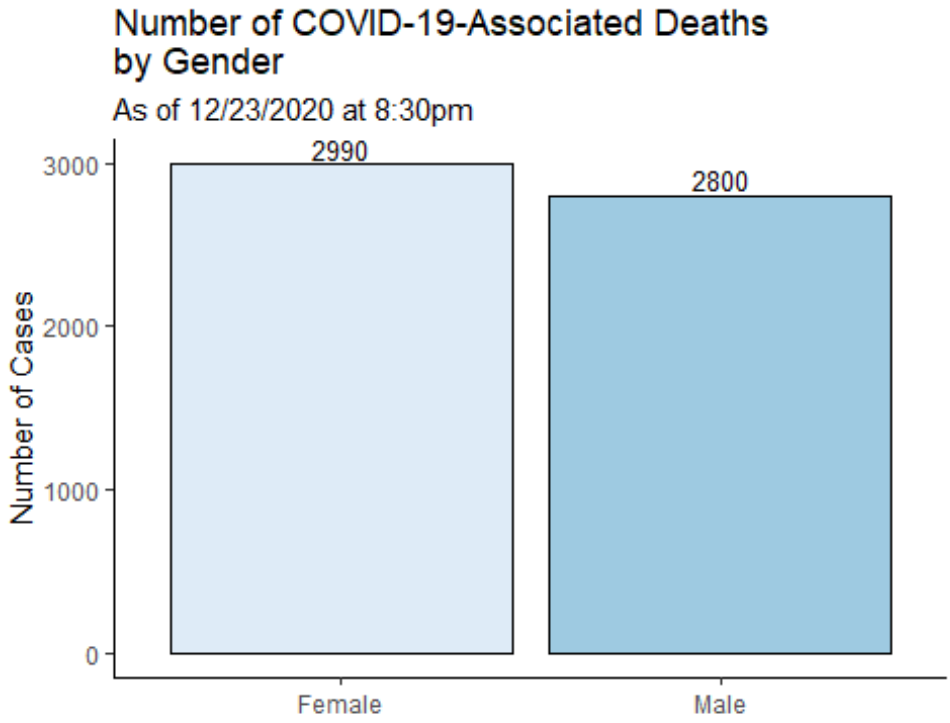
Counts may not add up to total case count because demographic data may be missing.





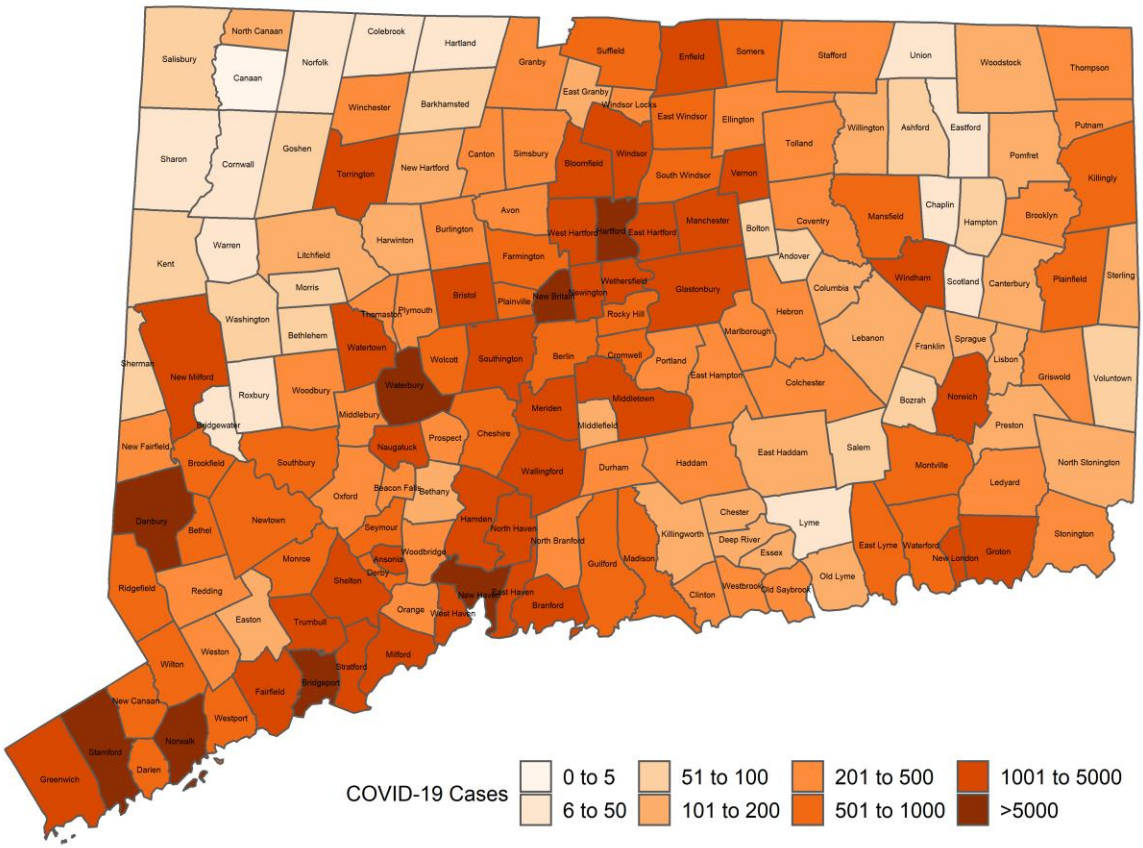
Counts may not add up to total case count because demographic data may be missing.





Cumulative Number of COVID-19 Cases by Town

Map does not include 644 cases pending address validation

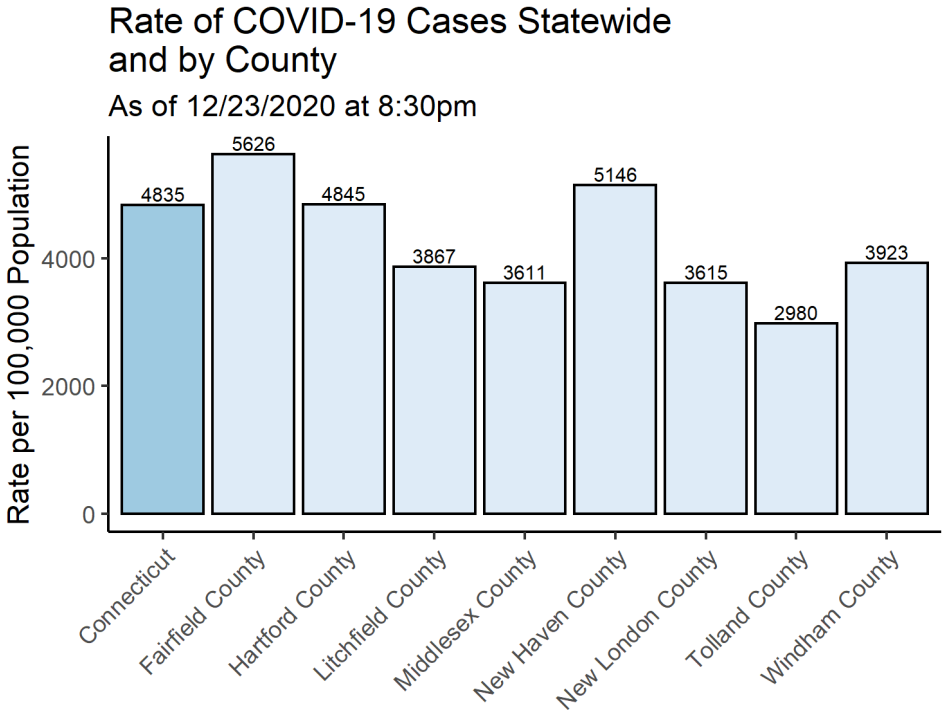


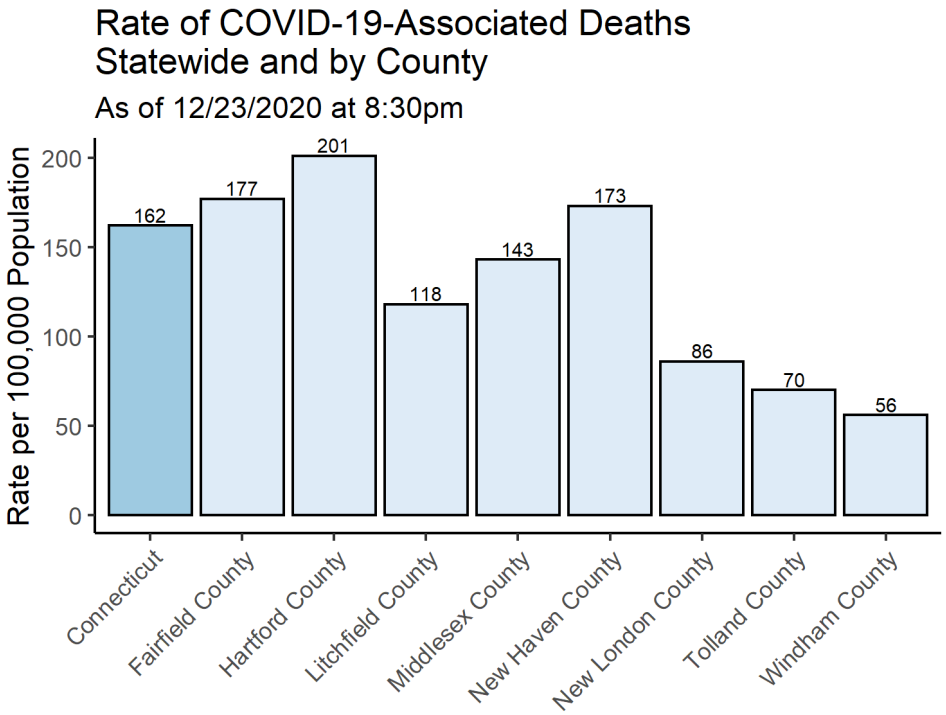
APPENDIX A. Cumulative Number of COVID-19 Cases by Town

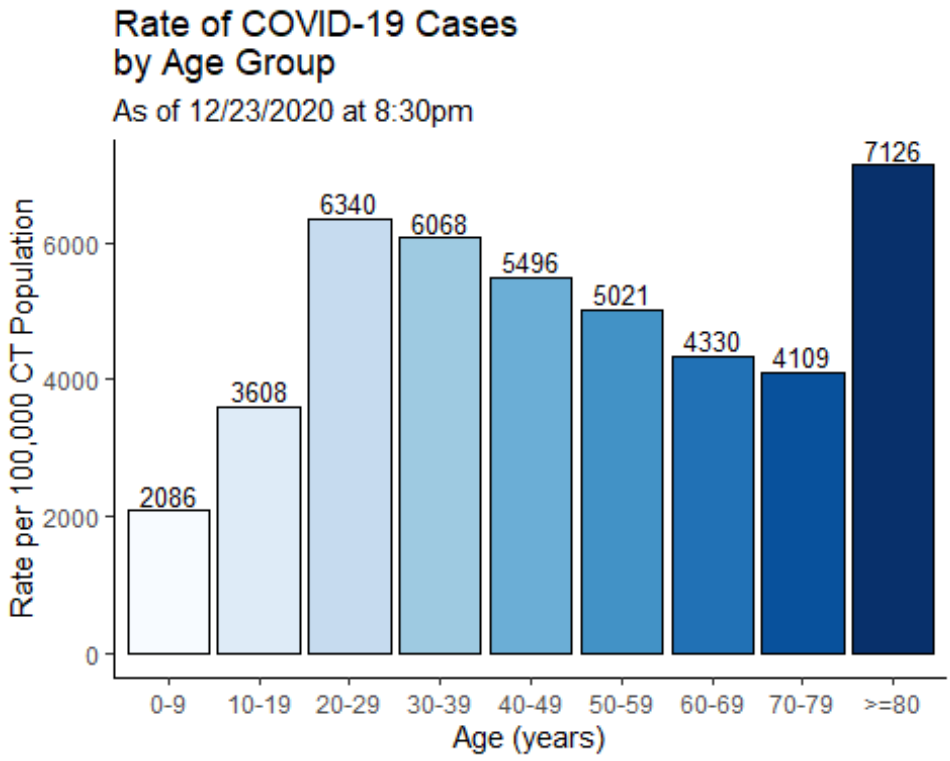
Table does not include 644 cases pending address validation

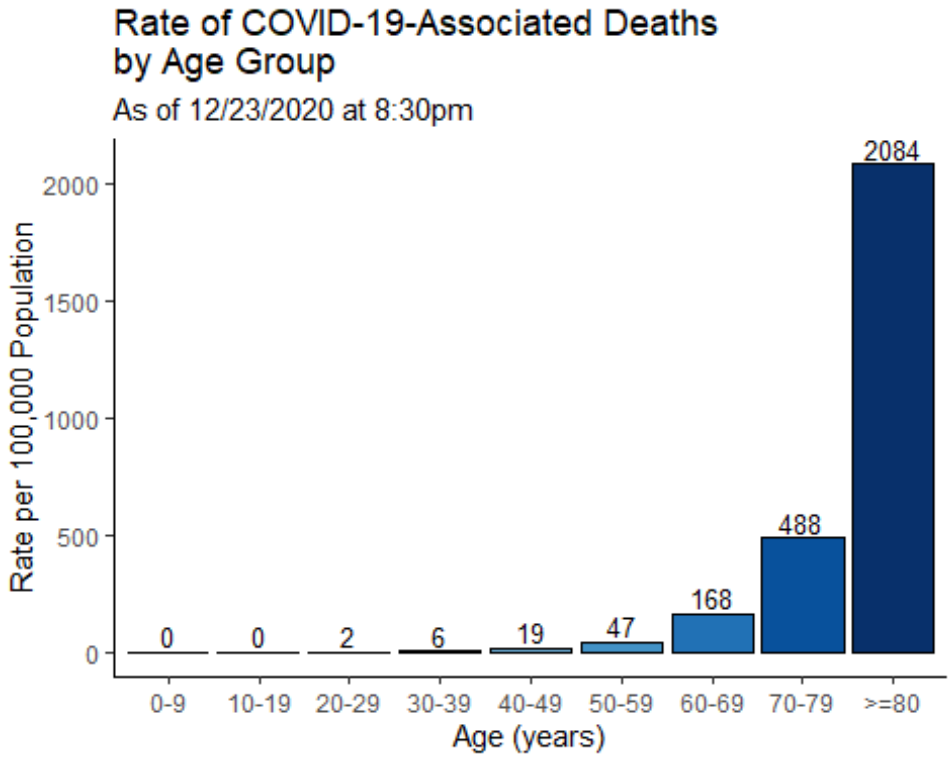
Town	Confirmed Cases	Probable Cases	Town	Confirmed Cases	Probable Cases	Town	Confirmed Cases	Probable Cases
Andover	80	4	Griswold	373	4	Prospect	425	28
Ansonia	928	75	Groton	1144	45	Putnam	262	5
Ashford	77	2	Guilford	504	38	Redding	214	20
Avon	474	22	Haddam	230	7	Ridgefield	609	73
Barkhamsted	78	3	Hamden	2714	221	Rocky Hill	925	44
Beacon Falls	242	14	Hampton	72	0	Roxbury	39	8
Berlin	715	42	Hartford	9136	264	Salem	99	0
Bethany	170	13	Hartland	32	0	Salisbury	68	2
Bethel	868	117	Harwinton	133	8	Scotland	11	0
Bethlehem	92	6	Hebron	230	10	Seymour	746	46
Bloomfield	1144	49	Kent	63	15	Sharon	45	1
Bolton	90	8	Killingly	679	16	Shelton	1805	156
Bozrah	71	0	Killingworth	128	6	Sherman	63	21
Branford	995	110	Lebanon	176	5	Simsbury	464	33
Bridgeport	10462	585	Ledyard	406	3	Somers	484	45
Bridgewater	39	5	Lisbon	118	1	South Windsor	752	33
Bristol	2662	135	Litchfield	184	12	Southbury	649	45
Brookfield	655	110	Lyme	37	3	Southington	1566	142
Brooklyn	372	8	Madison	484	31	Sprague	114	1
Burlington	222	5	Manchester	2332	128	Stafford	276	14
Canaan	5	0	Mansfield	707	86	Stamford	8331	389
Canterbury	153	3	Marlborough	213	14	Sterling	114	2
Canton	225	14	Meriden	3851	187	Stonington	391	15
Chaplin	46	2	Middlebury	343	27	Stratford	2378	203
Cheshire	947	50	Middlefield	131	7	Suffield	600	35
Chester	117	3	Middletown	2066	111	Thomaston	329	29
Clinton	399	17	Milford	1975	209	Thompson	236	6
Colchester	463	26	Monroe	602	45	Tolland	419	32
Colebrook	22	2	Montville	800	17	Torrington	1766	59
Columbia	134	2	Morris	67	3	Trumbull	1477	135
Cornwall	30	0	Naugatuck	1639	98	Union	15	1
Coventry	284	11	New Britain	4944	224	Vernon	949	62
Cromwell	605	39	New Canaan	640	40	Voluntown	61	0
Danbury	7098	778	New Fairfield	430	55	Wallingford	2138	117
Darien	624	56	New Hartford	166	5	Warren	9	2
Deep River	134	12	New Haven	6550	389	Washington	82	8
Derby	599	31	New London	1514	26	Waterbury	8016	542
Durham	251	22	New Milford	876	168	Waterford	753	24
East Granby	108	4	Newington	1343	69	Watertown	1117	95
East Haddam	176	10	Newtown	755	83	West Hartford	2289	174
East Hampton	324	18	Norfolk	44	1	West Haven	2569	232
East Hartford	3311	122	North Branford	435	62	Westbrook	198	13
East Haven	1246	192	North Canaan	113	5	Weston	241	26
East Lyme	555	26	North Haven	962	108	Westport	815	69
East Windsor	499	24	North Stonington	112	4	Wethersfield	1184	54
Eastford	39	2	Norwalk	5801	364	Willington	109	6
Easton	168	11	Norwich	1861	19	Wilton	513	62
Ellington	417	22	Old Lyme	131	2	Winchester	337	5
Enfield	1698	51	Old Saybrook	346	21	Windham	1579	15
Essex	176	11	Orange	435	56	Windsor	1460	64
Fairfield	2520	336	Oxford	380	22	Windsor Locks	460	14
Farmington	685	47	Plainfield	587	10	Wolcott	887	70
Franklin	102	0	Plainville	715	47	Woodbridge	262	30
Glastonbury	948	56	Plymouth	424	29	Woodbury	311	14
Goshen	77	3	Pomfret	104	0	Woodstock	187	2
Granby	225	12	Portland	281	15			
Greenwich	2156	142	Preston	141	2			

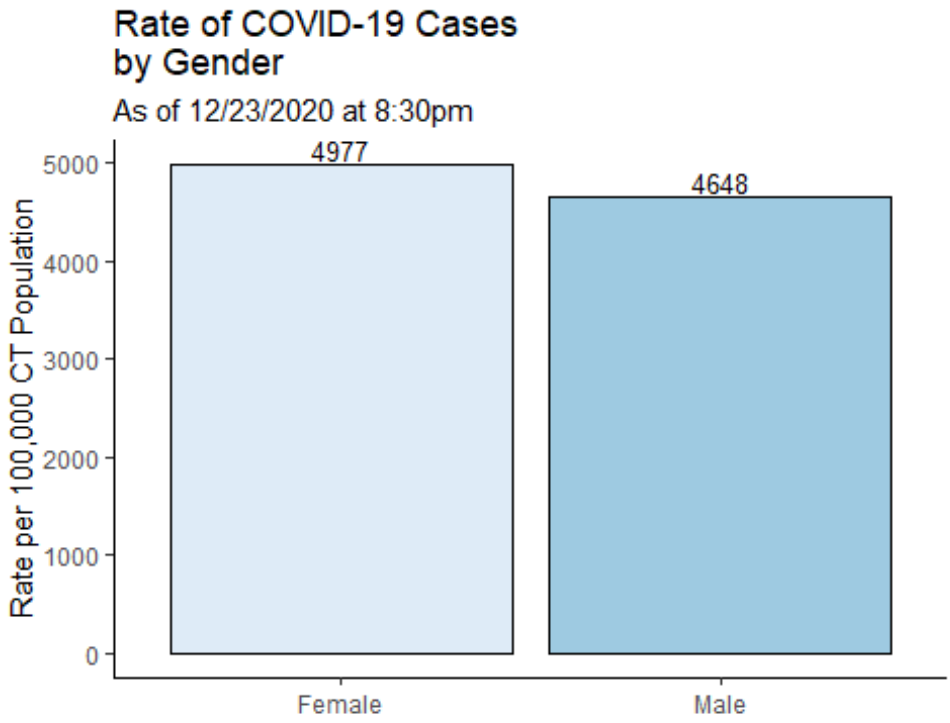
APPENDIX B. The following graphs show the number of cases per 100,000 Connecticut residents statewide and by county, age group, and gender. Population estimate from: [DPH Population Statistics]

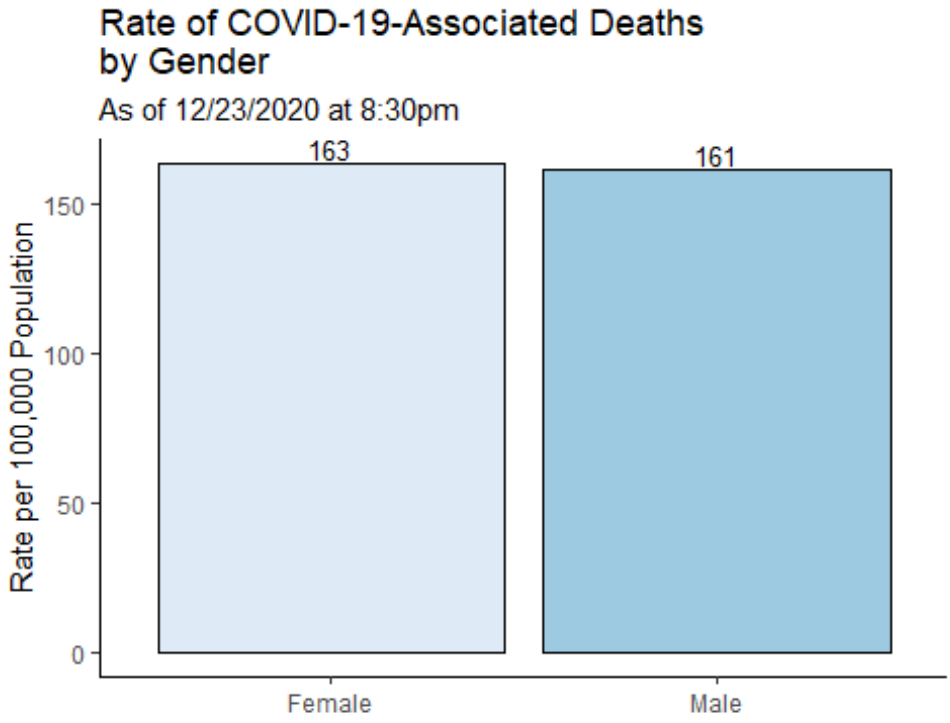




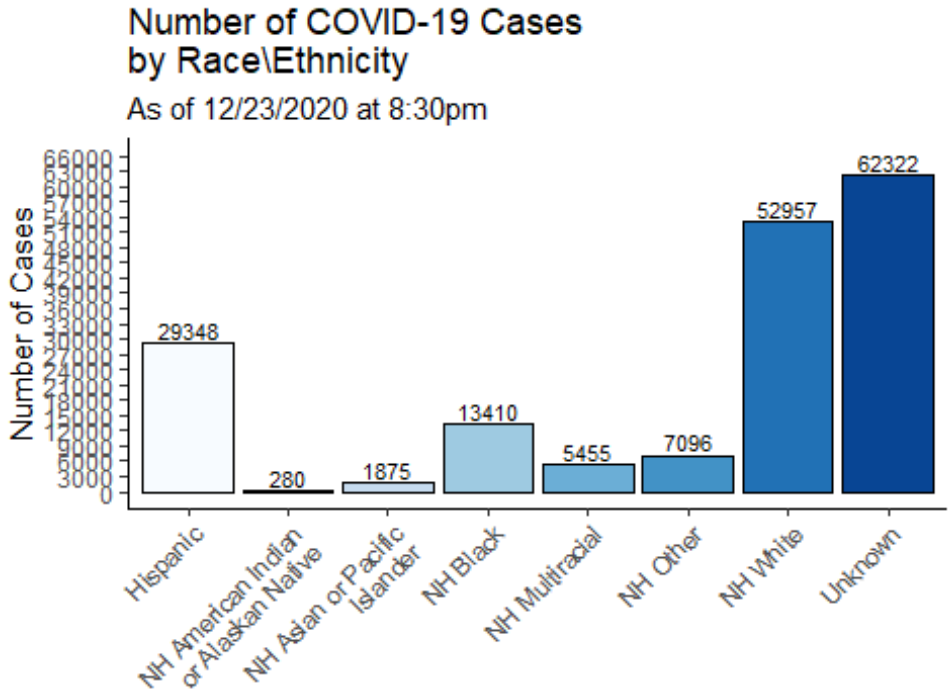

Rate of COVID-19 Cases
by Age Group
As of 12/23/2020 at 8:30pm
Rate per 100,000 CT Population
0
2000
4000
6000
2086
3608
6340
6068
5496
5021
4330
4109
7126
0-9
10-19
20-29
30-39
40-49
50-59
60-69
70-79
>=80
Age (years)

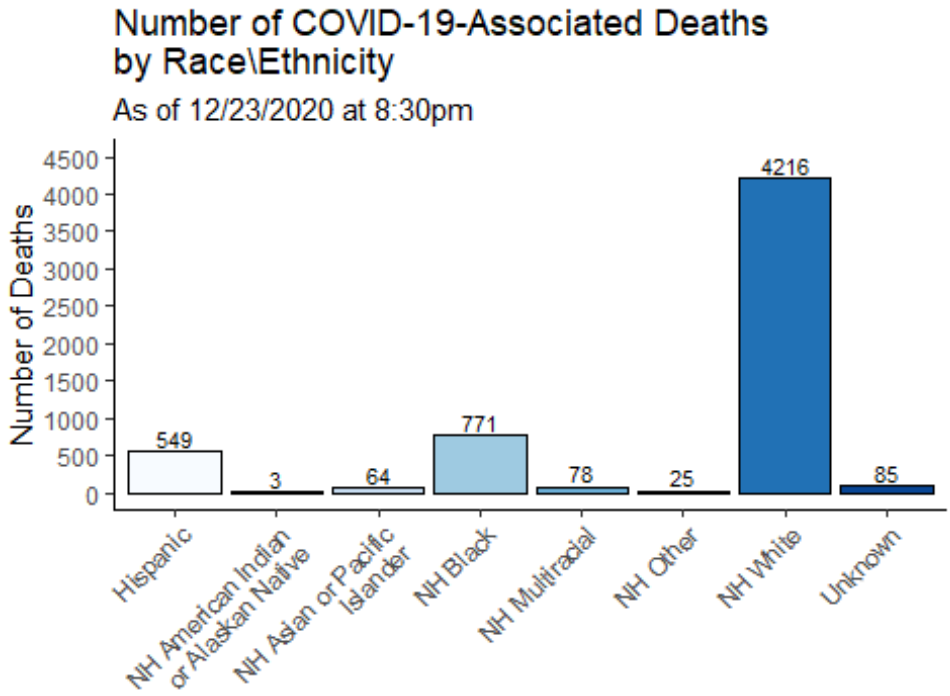

Rate of COVID-19-Associated Deaths
by Age Group
As of 12/23/2020 at 8:30pm
Rate per 100,000 Population
0
500
1000
1500
2000
0
0
2
6
19
47
168
488
2084
0-9
10-19
20-29
30-39
40-49
50-59
60-69
70-79
>=80
Age (years)


Rate of COVID-19 Cases
by Gender
As of 12/23/2020 at 8:30pm
Rate per 100,000 CT Population
5000
4000
3000
2000
1000
0
4977
4648
Female
Male


Rate of COVID-19-Associated Deaths
by Gender
As of 12/23/2020 at 8:30pm
Rate per 100,000 Population
150
100
50
0
163
161
Female
Male

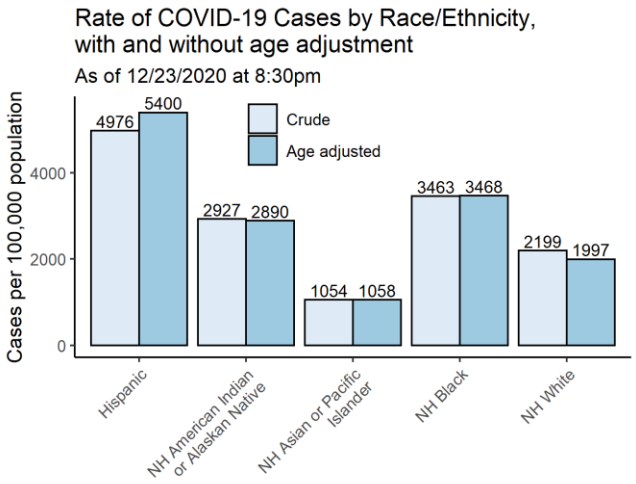
APPENDIX C. The following graphs show the number of cases and deaths by race and ethnicity. *Categories are mutually exclusive. The category "multiracial" includes people who answered 'yes' to more than one race category. NH=Non-Hispanic*

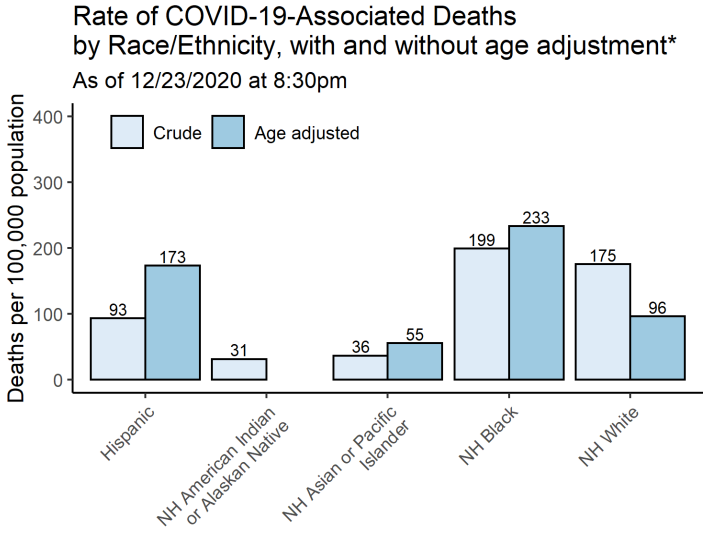




The following graphs show the number of COVID-19 cases and COVID-19-associated deaths per 100,000 population by race and ethnicity. Crude rates represent the total cases or deaths per 100,000 people. Age-adjusted rates consider the age of the person at diagnosis or death when estimating the rate and 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*