COVID-19 Update December 31, 2020

As of **December 30, 2020, at 8:30 PM**, the total of laboratory-confirmed and probable COVID-19 cases reported among Connecticut residents is **185708**, including **174679** laboratory-confirmed and **11029** probable cases. **One thousand one hundred thirty-six** patients are currently hospitalized with laboratory-confirmed COVID-19. There have been **5995** 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)	185708	+2045
COVID-19 Tests Reported (molecular and antigen)	4309664	+22839
Daily Test Positivity		8.95%
Patients Currently Hospitalized with COVID-19	1136	-31
COVID-19-Associated Deaths	5995	+31

*Includes confirmed plus probable cases

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

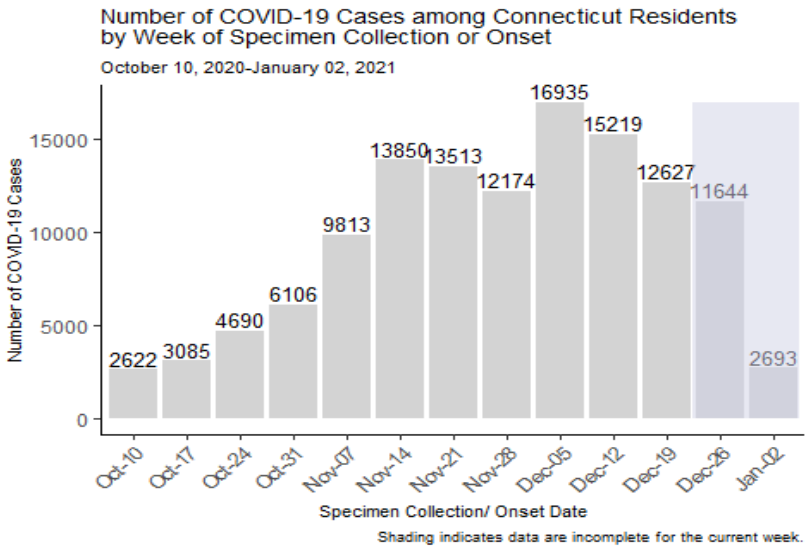
County	COVID-19 Cases		COVID-19-Associated Deaths	
	Confirmed	Probable	Confirmed	Probable
Fairfield County	52166	4122	1354	366
Hartford County	44608	2072	1483	369
Litchfield County	6939	537	196	29
Middlesex County	6208	358	187	50
New Haven County	44153	3222	1298	231
New London County	10364	254	182	63
Tolland County	4580	320	86	23
Windham County	5059	81	68	10
Pending address validation	602	63	0	0
Total	**174679**	**11029**	**4854**	**1141**

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

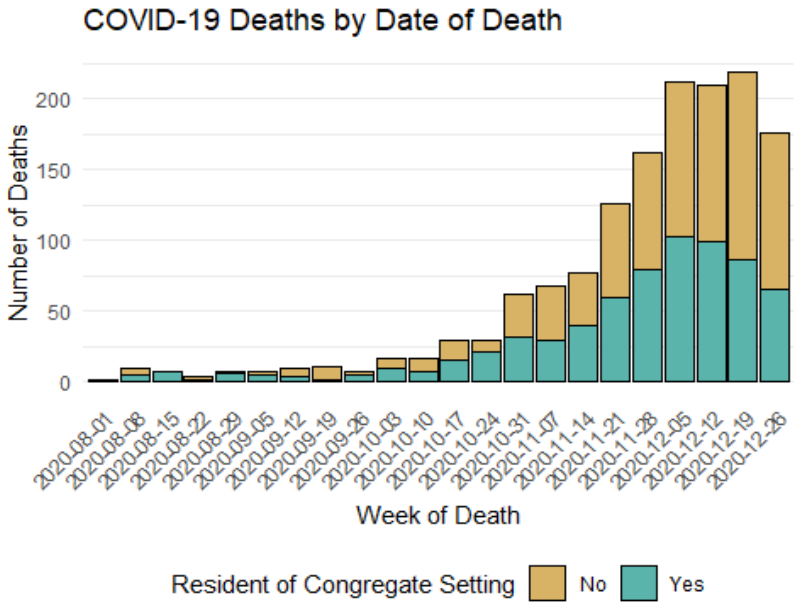
Day-to-day changes reflect newly reported cases, deaths, and tests that occurred over the last several days to week. All data in this report are preliminary; data for previous dates will be updated as new reports are received and data errors are corrected. Hospitalization data were collected by the Connecticut 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 13-26), there were 24,271 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.

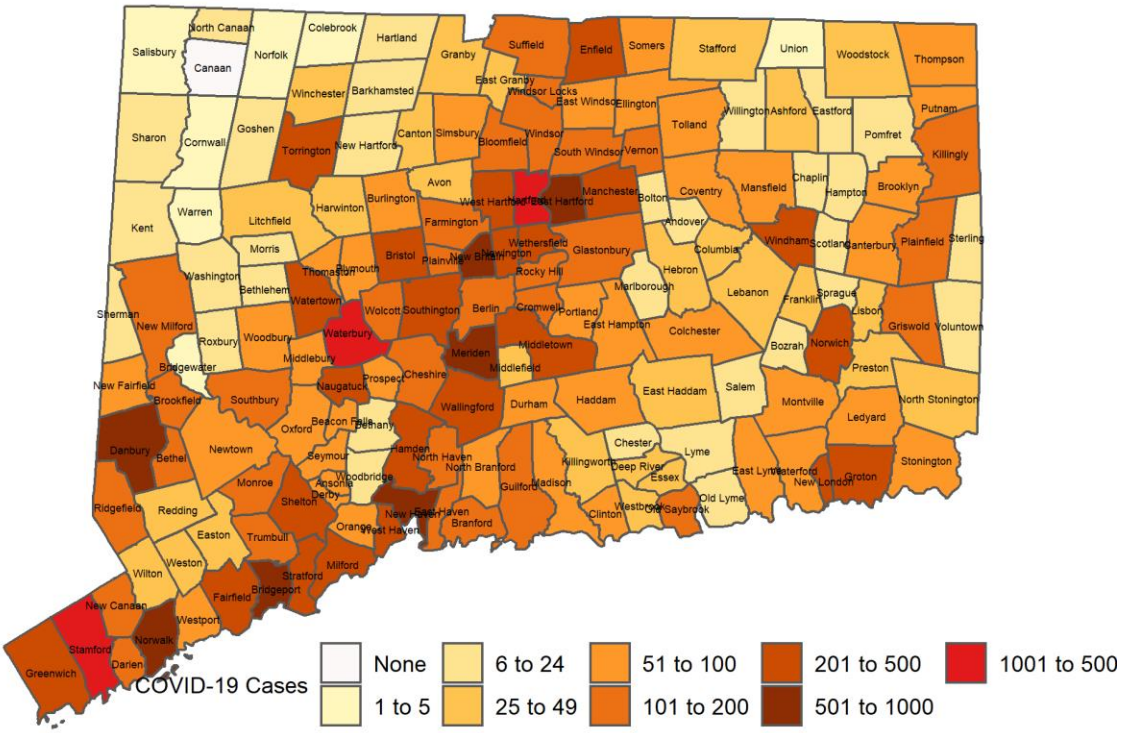


Community Transmission of COVID-19

Among 24,271 new COVID-19 cases with specimen collection or onset date during December 13-26, there were 23,631 cases among people living in community settings, as shown in the map below. This corresponds to an average of 47.25 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 13-26

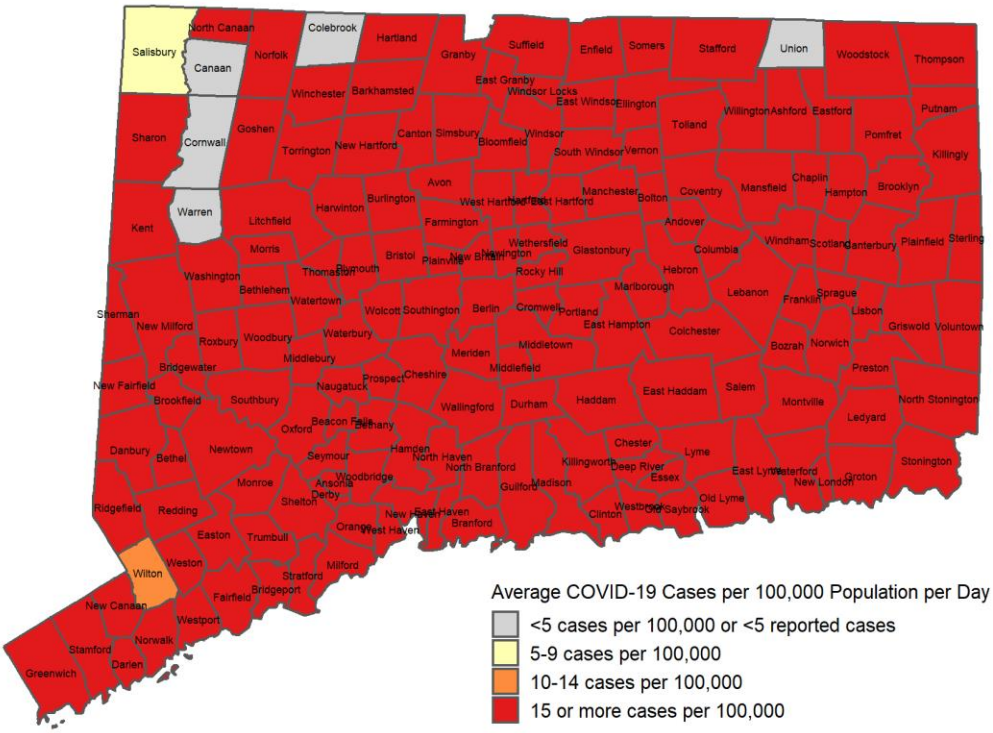


Map does not include 82 *cases pending address validation*

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 13-26, 162 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 13-26



Map does not include 82 *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 13-26, 2020

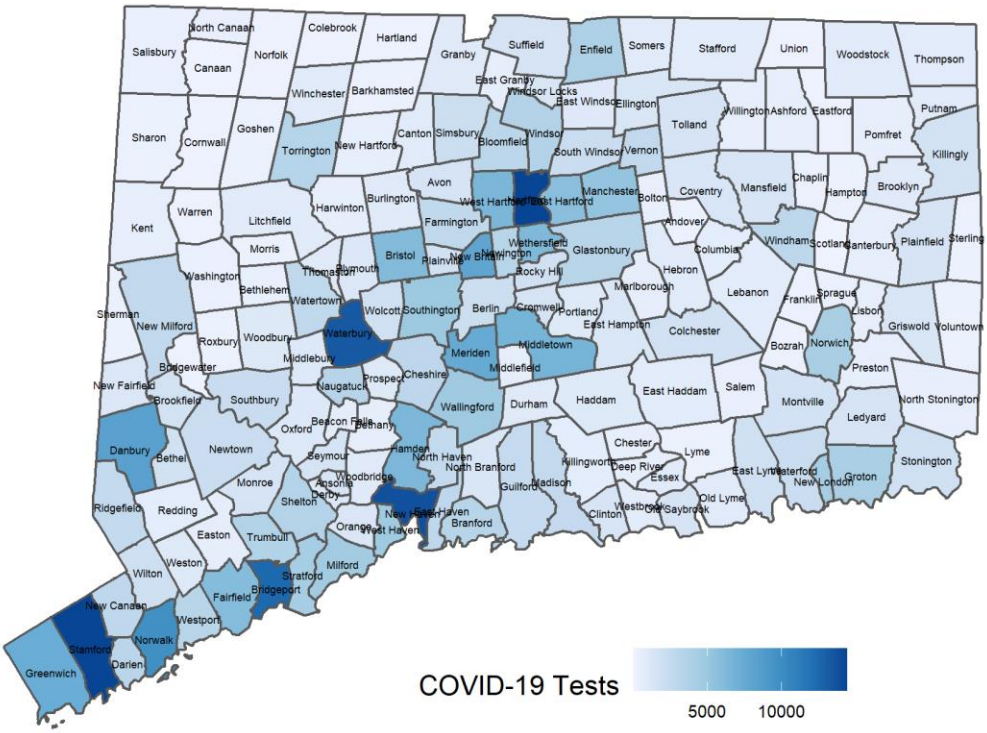
Map does not include 82 *cases pending address validation*

Town	Pop	Cases	Rate	Town	Pop	Cases	Rate	Town	Pop	Cases	Rate
Andover	3231	24	53.1	Griswold	11591	104	64.1	Prospect	9790	61	44.5
Ansonia	18721	75	28.6	Groton	38692	242	44.7	Putnam	9395	70	53.2
Ashford	4261	29	48.6	Guilford	22216	102	32.8	Redding	9125	33	25.8
Avon	18302	44	17.2	Haddam	8222	58	50.4	Ridgefield	25008	103	29.4
Barkhamsted	3624	16	31.5	Hamden	60940	291	34.1	Rocky Hill	20145	114	40.4
Beacon Falls	6182	54	62.4	Hampton	1853	25	96.4	Roxbury	2160	7	23.1
Berlin	20432	123	43.0	Hartford	122587	1301	75.8	Salem	4123	10	17.3
Bethany	5479	23	30.0	Hartland	2120	9	30.3	Salisbury	3598	5	9.9
Bethel	19714	130	47.1	Harwinton	5430	33	43.4	Scotland	1685	9	38.2
Bethlehem	3422	18	37.6	Hebron	9482	42	31.6	Seymour	16509	96	41.5
Bloomfield	21301	128	42.9	Kent	2785	15	38.5	Sharon	2703	8	21.1
Bolton	4890	19	27.8	Killingly	17287	144	59.5	Shelton	41097	209	36.3
Bozrah	2537	14	39.4	Killingworth	6370	36	40.4	Sherman	3614	13	25.7
Branford	28005	167	42.6	Lebanon	7207	39	38.7	Simsbury	24979	85	24.3
Bridgeport	144900	901	44.4	Ledyard	14736	79	38.3	Somers	10834	61	40.2
Bridgewater	1641	5	21.8	Lisbon	4248	28	47.1	South Windsor	26054	135	37
Bristol	60032	468	55.7	Litchfield	8127	32	28.1	Southbury	19656	130	47.2
Brookfield	17002	124	52.1	Lyme	2338	6	18.3	Southington	43807	297	48.4
Brooklyn	8280	78	67.3	Madison	18106	85	33.5	Sprague	2889	22	54.4
Burlington	9665	52	38.4	Manchester	57699	346	42.8	Stafford	11884	50	30.1
Canaan	1055	0	0.0	Mansfield	25817	56	15.5	Stamford	129775	1017	56
Canterbury	5100	55	77.0	Marlborough	6358	25	28.1	Sterling	3780	25	47.2
Canton	10270	45	31.3	Meriden	59540	635	76.2	Stonington	18449	80	31
Chaplin	2256	8	25.3	Middlebury	7731	83	76.7	Stratford	51967	283	38.9
Cheshire	29179	151	37.0	Middlefield	4380	35	57.1	Suffield	15743	109	49.5
Chester	4229	12	20.3	Middletown	46146	367	56.8	Thomaston	7560	61	57.6
Clinton	12950	91	50.2	Milford	54661	270	35.3	Thompson	9395	68	51.7
Colchester	15936	74	33.2	Monroe	19470	105	38.5	Tolland	14655	91	44.4
Colebrook	1405	4	20.3	Montville	18716	91	34.7	Torrington	34228	205	42.8
Columbia	5385	42	55.7	Morris	2262	13	41.1	Trumbull	35802	172	34.3
Cornwall	1368	2	10.4	Naugatuck	31288	255	58.2	Union	840	2	17
Coventry	12414	67	38.6	New Britain	72453	825	81.3	Vernon	29303	180	43.9
Cromwell	13905	118	60.6	New Canaan	20213	114	40.3	Voluntown	2535	12	33.8
Danbury	84730	893	75.3	New Fairfield	13877	70	36.0	Wallingford	44535	280	44.9
Darien	21753	115	37.8	New Hartford	6685	24	25.6	Warren	1399	1	5.1
Deep River	4463	28	44.8	New Haven	130418	660	36.1	Washington	3434	16	33.3
Derby	12515	71	40.5	New London	26939	240	63.6	Waterbury	108093	1154	76.3
Durham	7195	68	67.5	New Milford	26974	170	45.0	Waterford	18887	97	36.7
East Granby	5147	27	37.5	Newington	30112	215	51.0	Watertown	21641	202	66.7
East Haddam	8988	36	28.6	Newtown	27774	84	21.6	West Hartford	62939	245	27.8
East Hampton	12854	70	38.9	Norfolk	1640	5	21.8	West Haven	54879	310	40.3
East Hartford	49998	509	72.7	North Branford	14158	82	41.4	Westbrook	6914	40	41.3
East Haven	28699	200	49.8	North Canaan	3254	13	28.5	Weston	10247	37	25.8
East Lyme	18645	81	31.0	North Haven	23691	138	41.6	Westport	28115	85	21.6
East Windsor	11375	59	37.0	North Stonington	5243	30	40.9	Wethersfield	26082	217	59.4
Eastford	1790	11	43.9	Norwalk	89047	650	52.1	Willington	5887	22	26.7
Easton	7517	29	27.6	Norwich	39136	356	65.0	Wilton	18397	38	14.8
Ellington	16299	84	36.8	Old Lyme	7366	22	21.3	Winchester	10655	34	22.8
Enfield	44466	299	48.0	Old Saybrook	10087	126	89.2	Windham	24706	290	83.8
Essex	6674	31	33.2	Orange	13949	80	41.0	Windsor	28760	199	49.4
Fairfield	61952	274	31.6	Oxford	13226	79	42.7	Windsor Locks	12876	116	64.4
Farmington	25506	106	29.7	Plainfield	15173	171	80.5	Wolcott	16649	131	56.2
Franklin	1933	33	121.9	Plainville	17623	107	43.4	Woodbridge	8805	20	16.2
Glastonbury	34491	162	33.5	Plymouth	11645	66	40.5	Woodbury	9537	51	38.2
Goshen	2879	14	34.7	Pomfret	4204	19	32.3	Woodstock	7862	44	40
Granby	11375	49	30.8	Portland	9305	57	43.8				
Greenwich	62727	303	34.5	Preston	4638	29	44.7				

COVID-19 Molecular and Antigen Tests during December 13-26

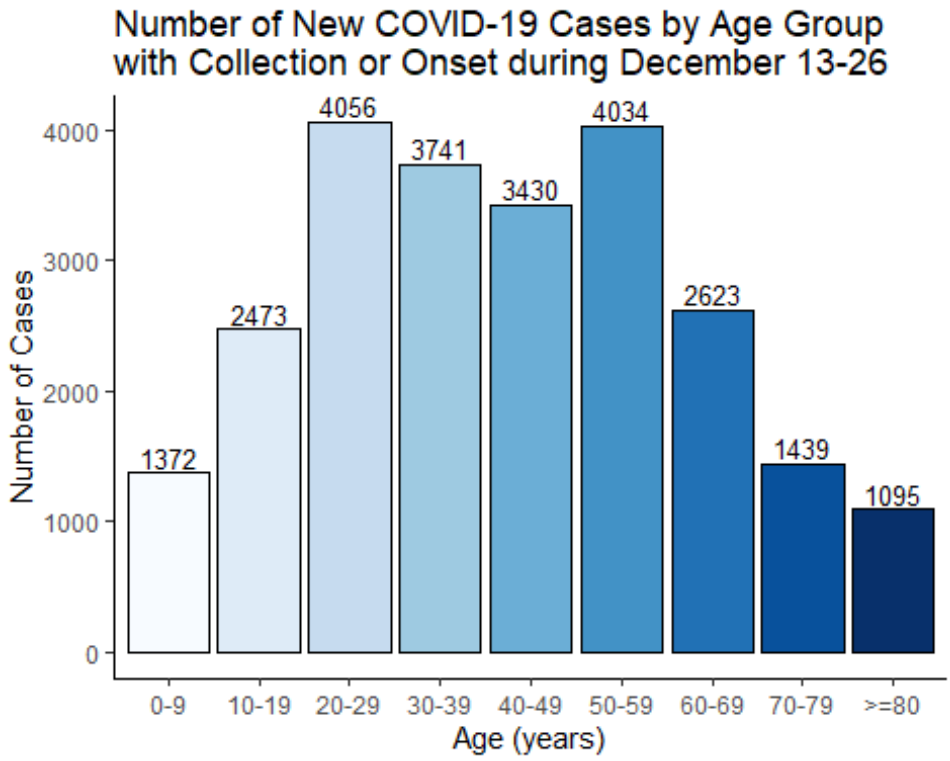
Among 409,136 molecular and antigen tests for COVID-19 with specimen collection date during December 13-26, 374,074 (91%) tests were conducted among people who did not reside in congregate settings (including nursing homes, assisted living, and correctional facilities). Of these 374,074 tests, 28,357 (8%) were positive. The map below shows the number of molecular and antigen COVID-19 tests by town with specimen collection date during December 13-26 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 13-26



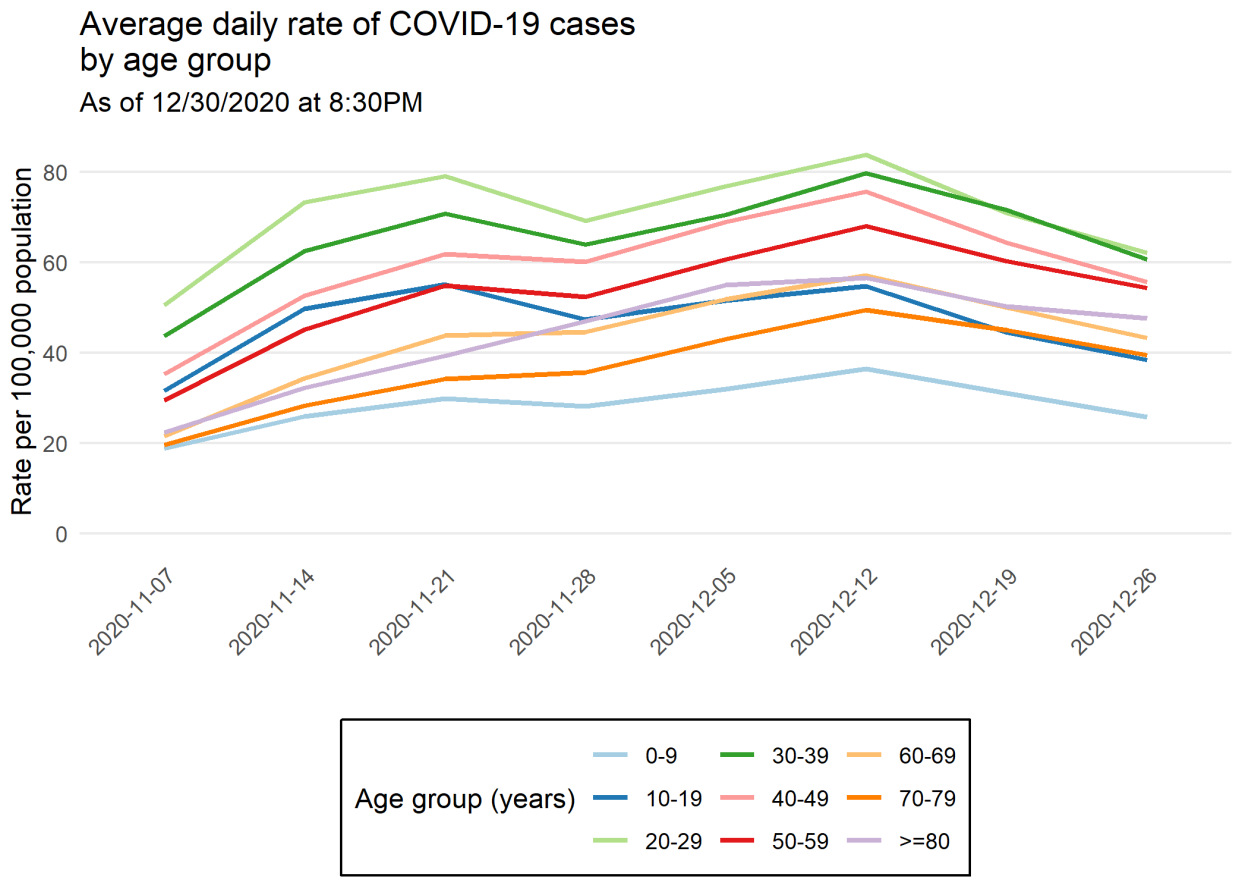
Map does not include tests pending address validation

Age Distribution of COVID-19 Cases with Specimen Collection or Onset During December 13-26, 2020



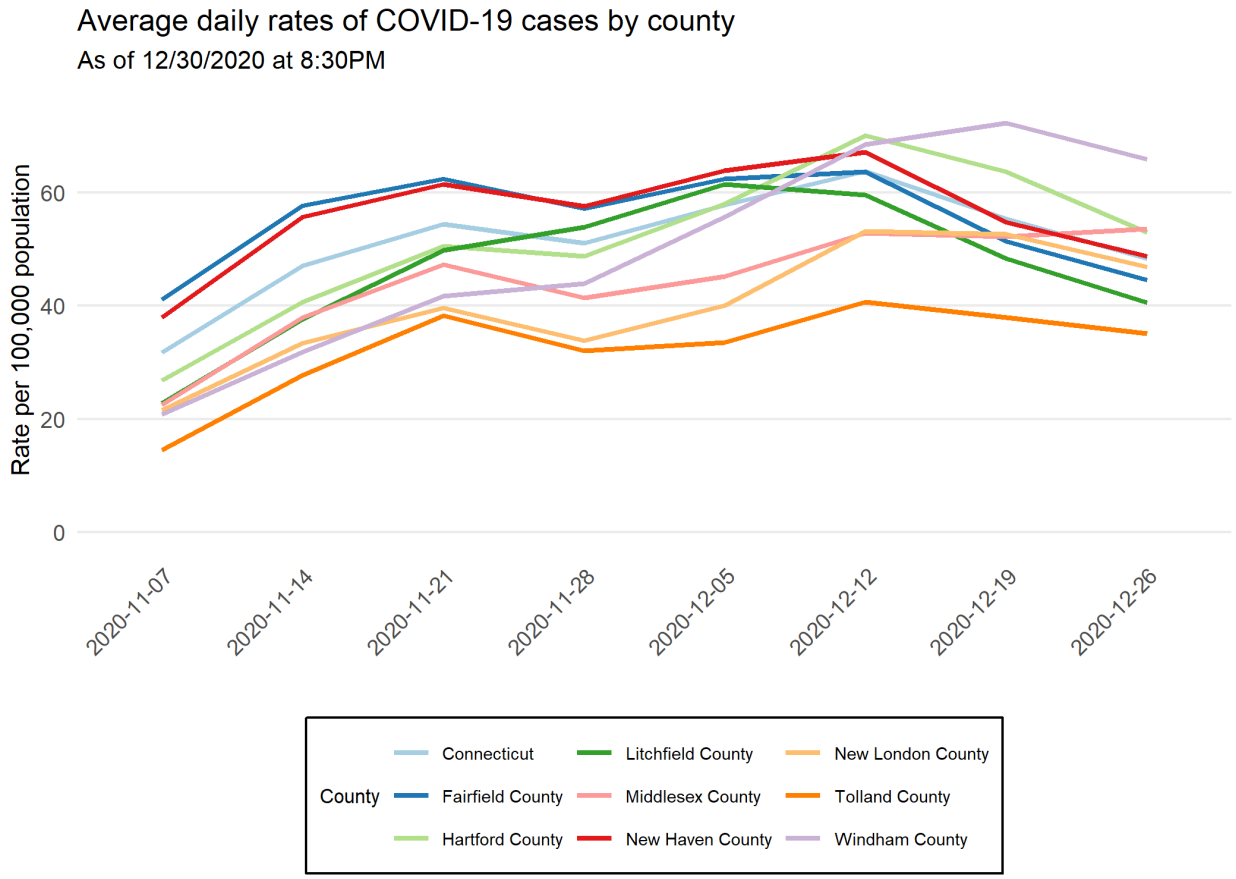
Average Daily Incidence by Age Group

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.



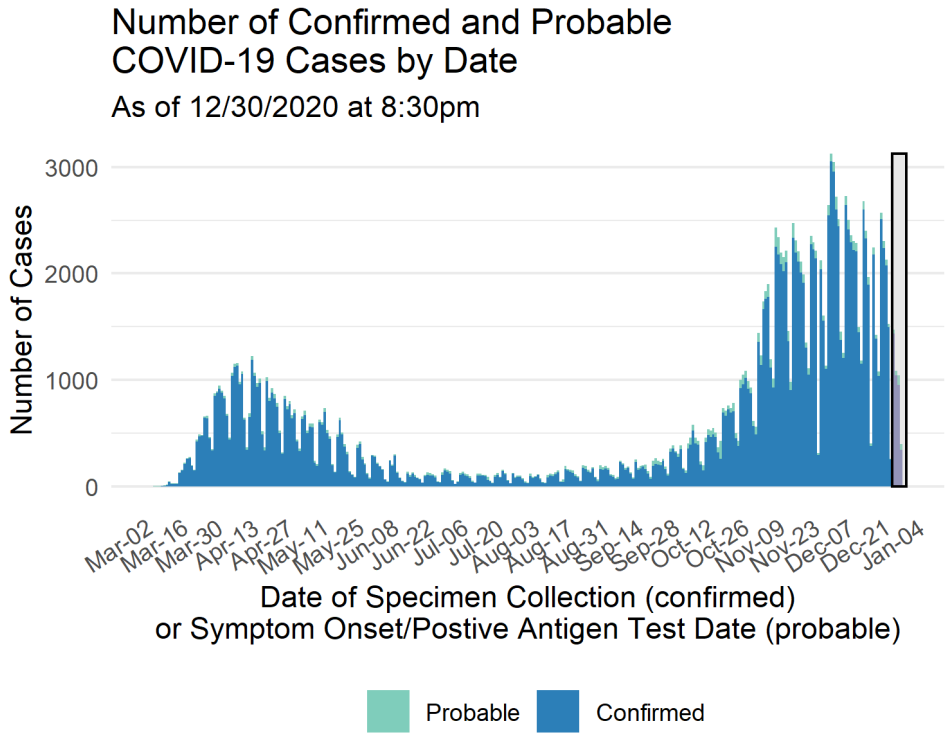
Average Daily Incidence by County

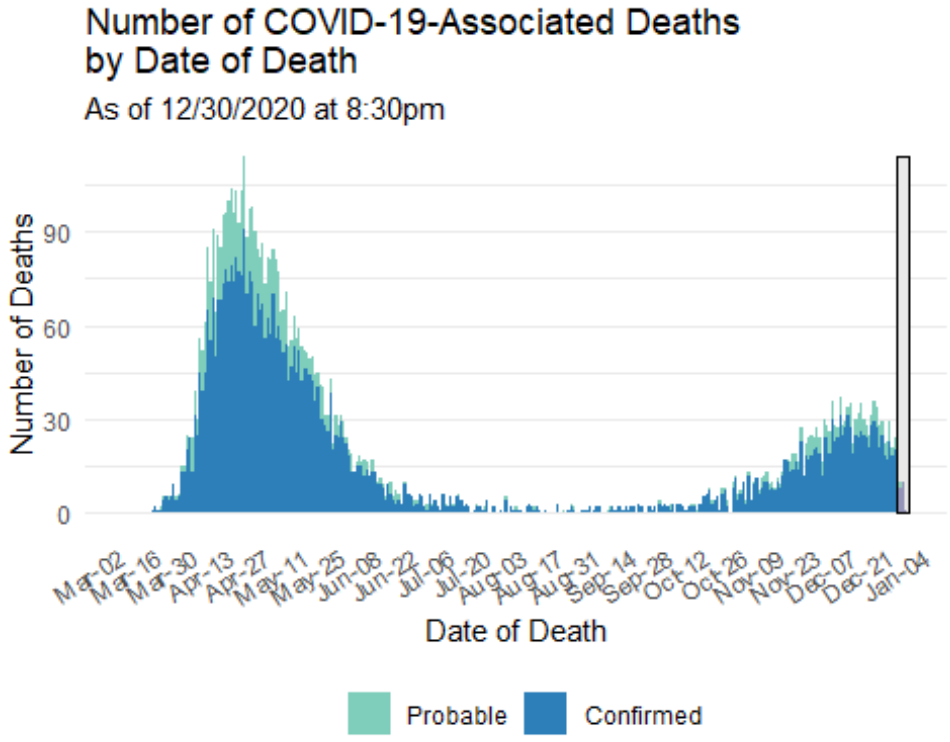
The chart below shows the average number of new COVID-19 cases per day per 100,000 population in the state of Connecticut and for each Connecticut county. The rates in this chart are calculated by averaging the number of new cases diagnosed each day during the previous two weeks, dividing by the annual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



Cumulative Number of COVID-19 Cases and COVID-19-Associated Death 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.



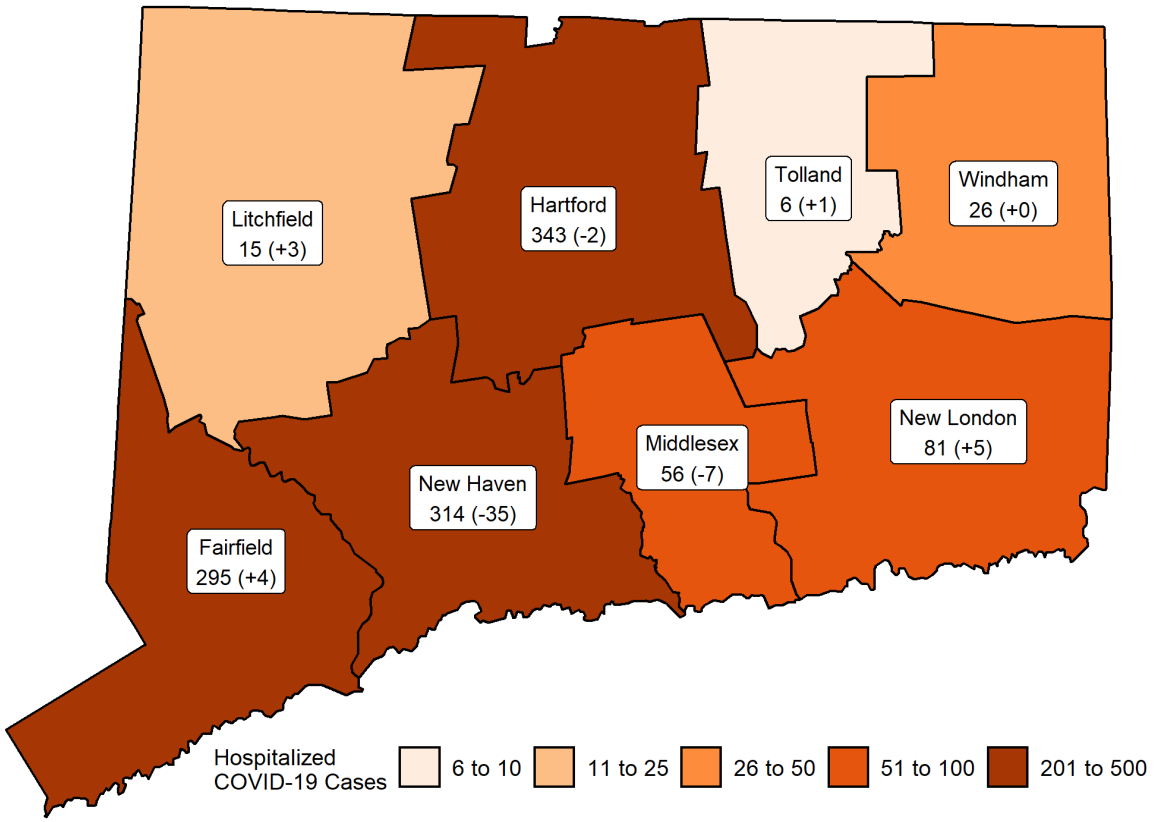


Hospitalization Surveillance

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

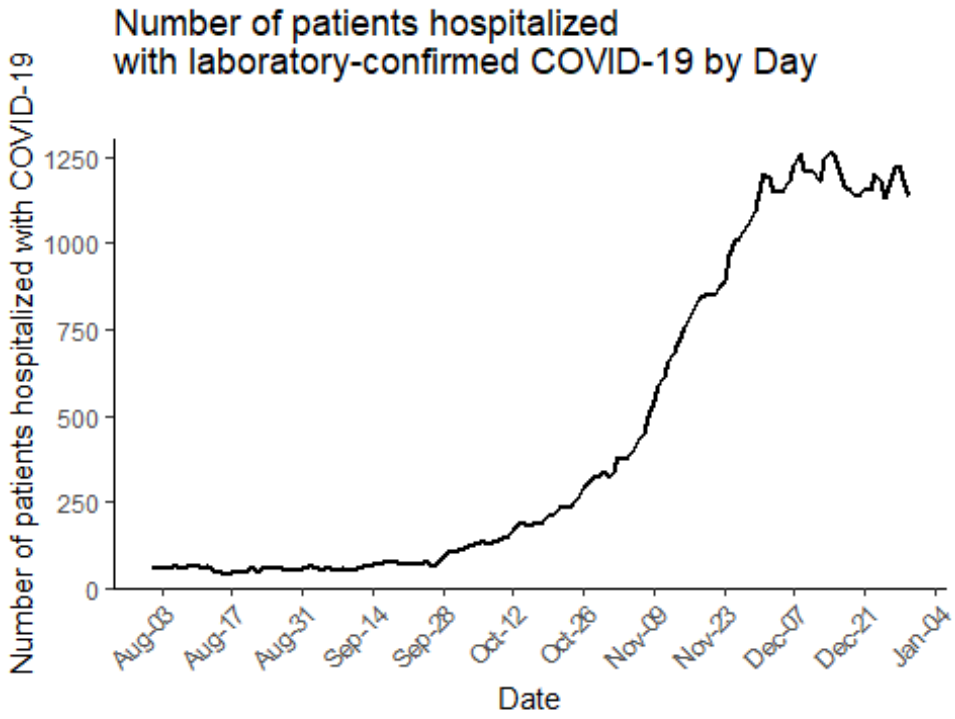
Distribution by location of hospital not patient residence. Data from the Connecticut Hospital Association.



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.

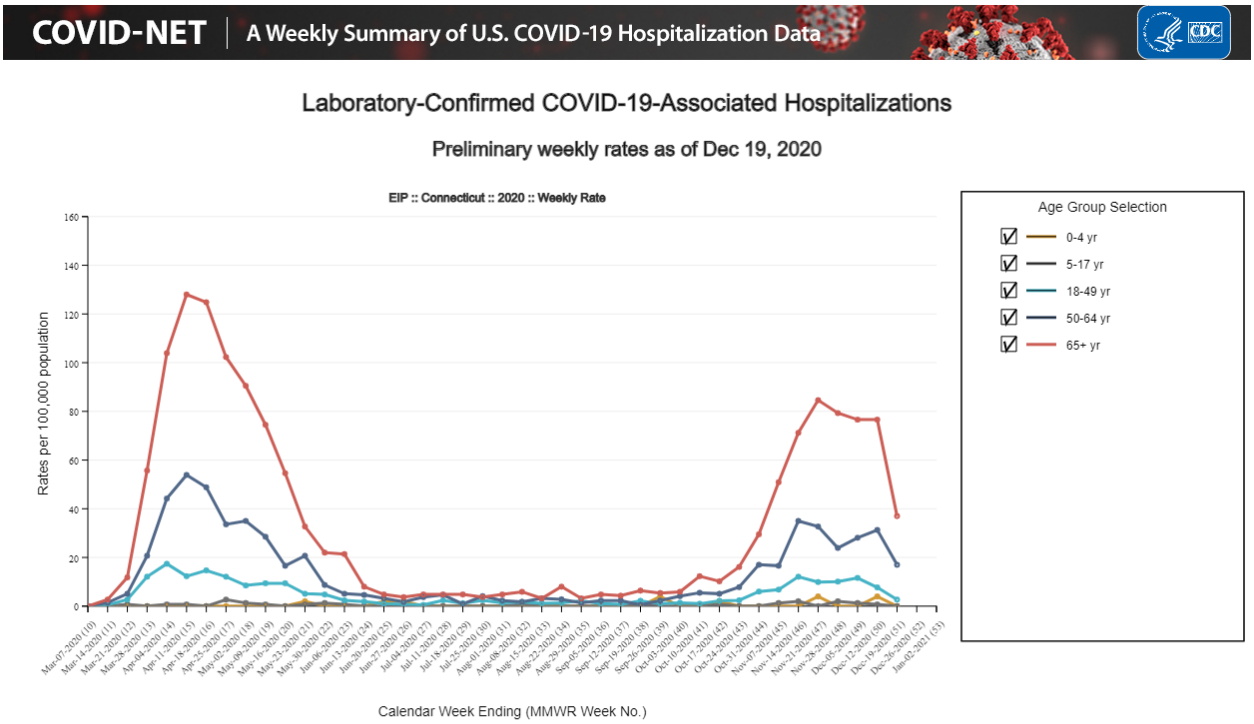


Weekly hospitalizations by age group in New Haven and Middlesex Counties

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.

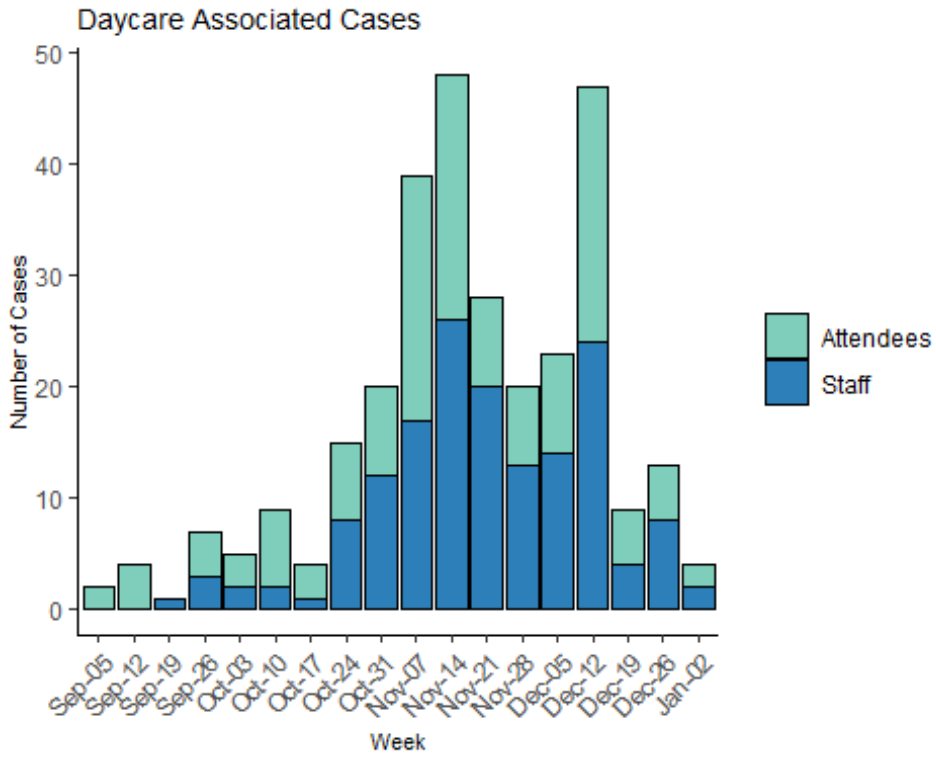
COVID-NET hospitalization data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag. As data are received each week, prior case counts and rates are updated.



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.

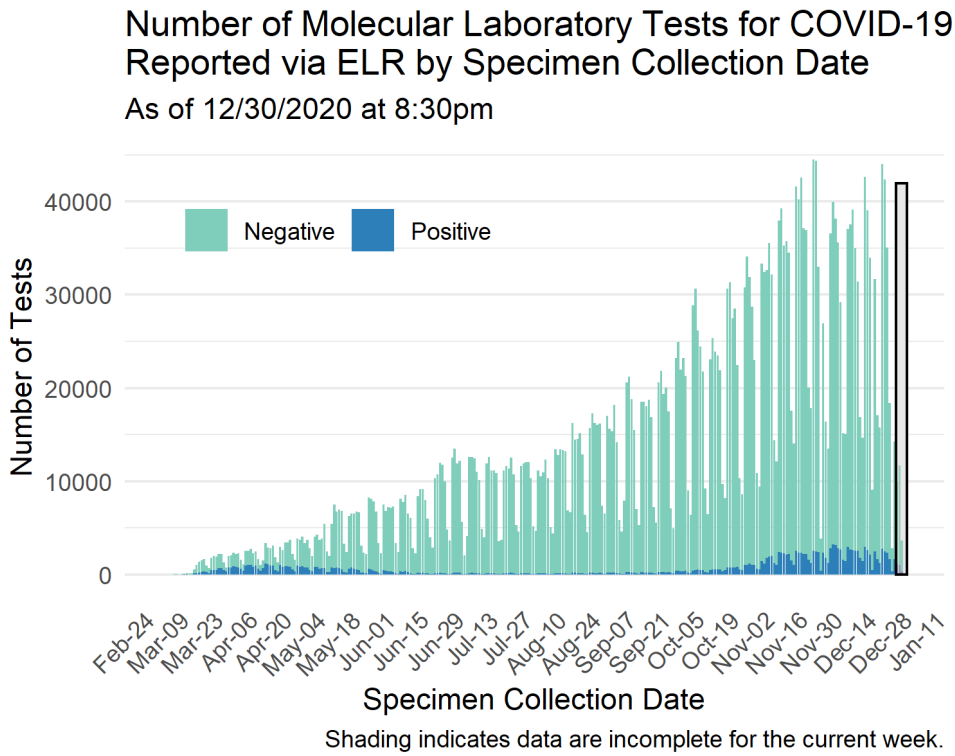


Laboratory Surveillance

Molecular Tests

To date, DPH has received reports on a total of 4,177,373 molecular COVID-19 laboratory tests; of these 3,784,473 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.



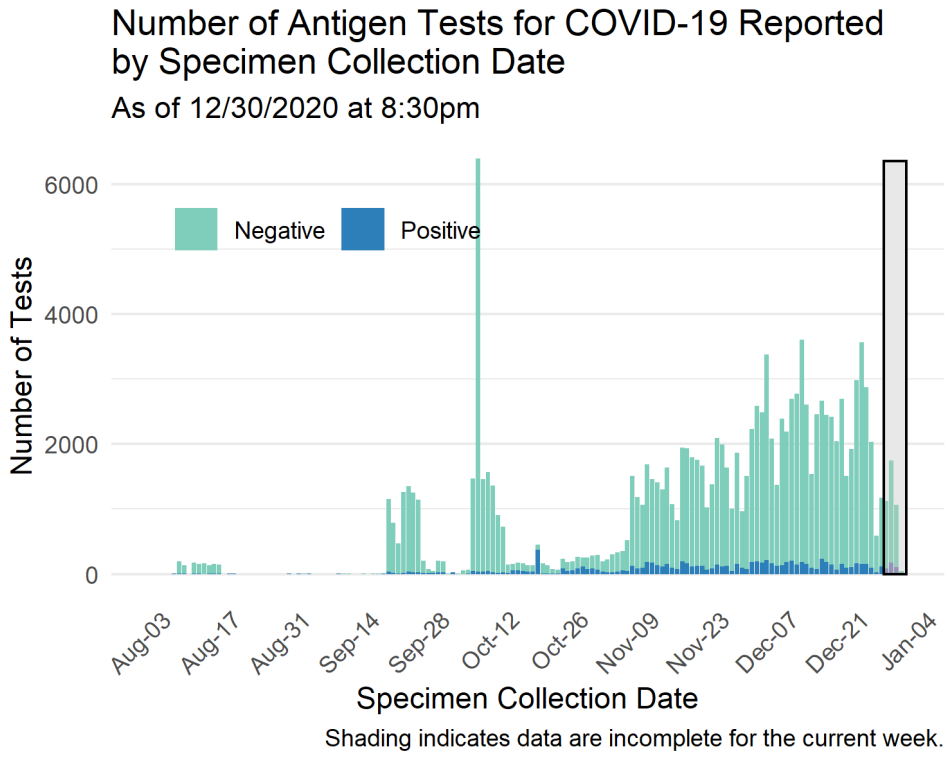
Testing of recently collected specimens is ongoing and does not reflect a decrease in testing. Chart only includes test results received by electronic laboratory reporting.

ELR = Electronic Laboratory Reporting

Antigen Tests

To date, DPH has received reports on a total of 132,291 COVID-19 antigen laboratory tests. The chart below shows the number of antigen tests reported to DPH by specimen collection date and test result.

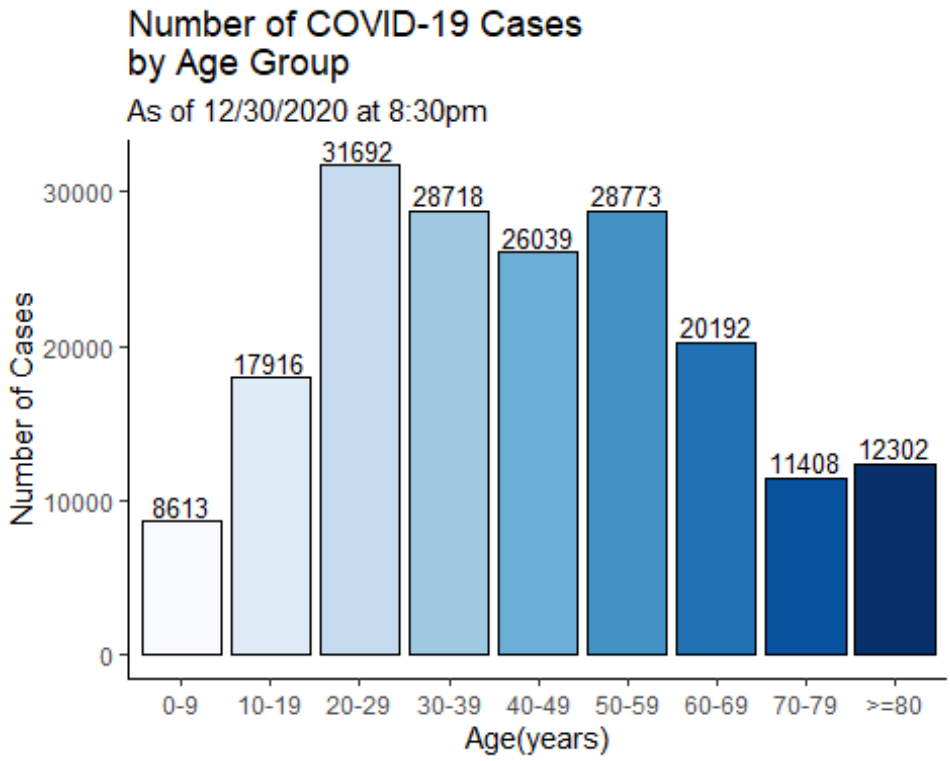
Test results may be reported several days after specimen collection. Data are incomplete for most recent dates shaded in grey. Data for previous dates are routinely updated.

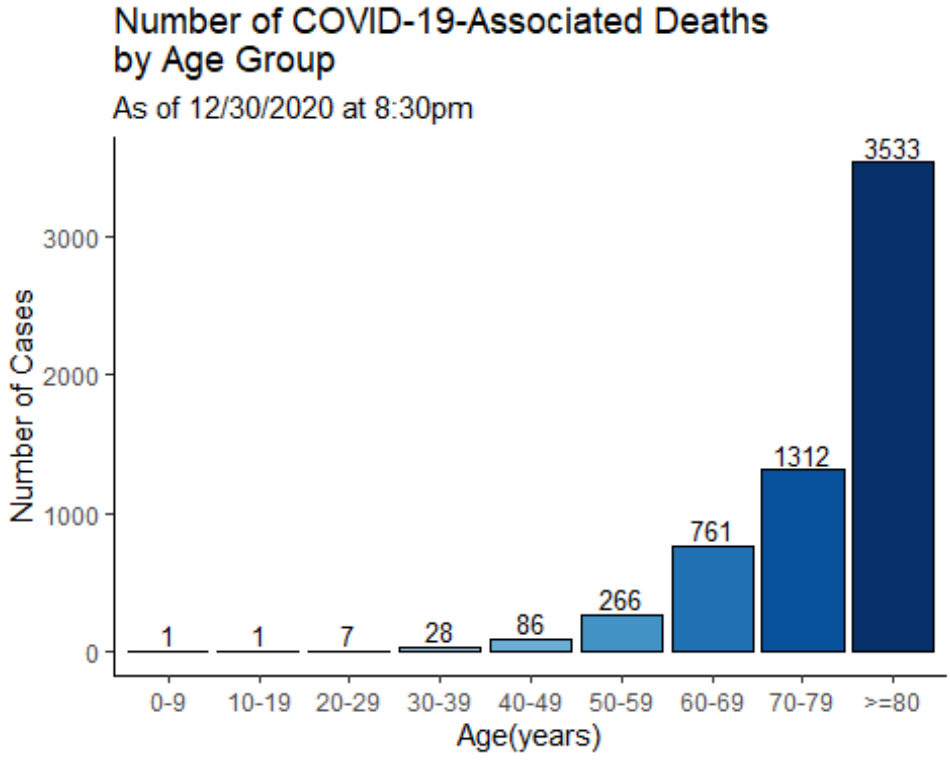


Testing of recently collected specimens is ongoing and does not reflect a decrease in testing.

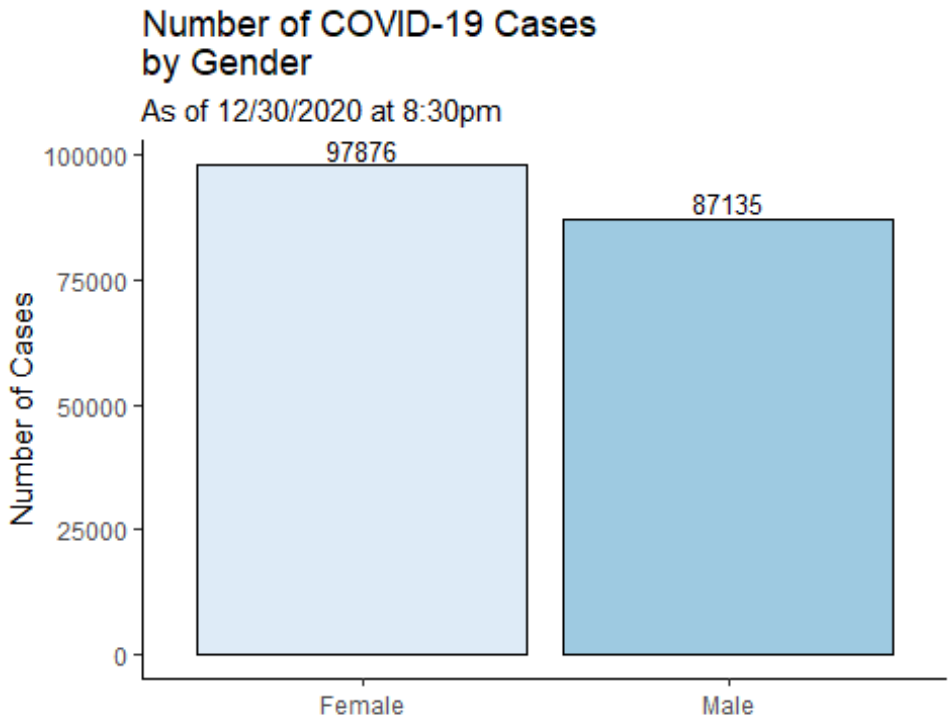
Characteristics of COVID-19 Cases and Associated Deaths

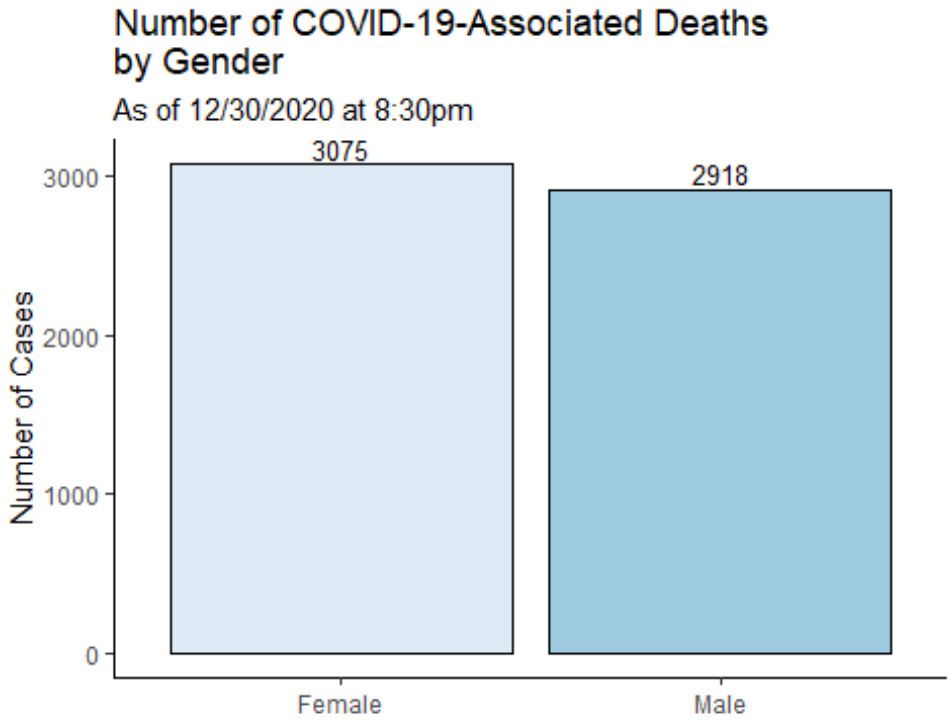
Counts may not add up to total case count because demographic data may be missing.





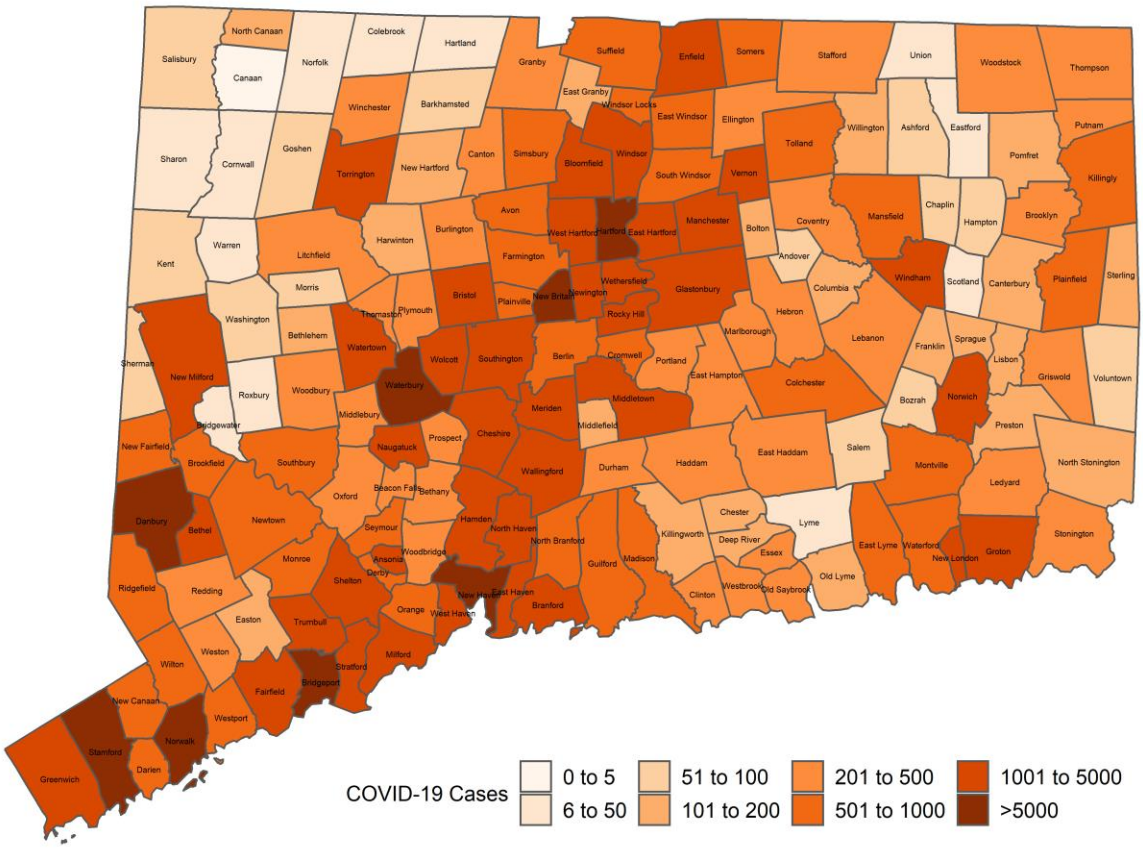
Counts may not add up to total case count because demographic data may be missing.





Cumulative Number of COVID-19 Cases by Town

Map does not include 665 cases pending address validation

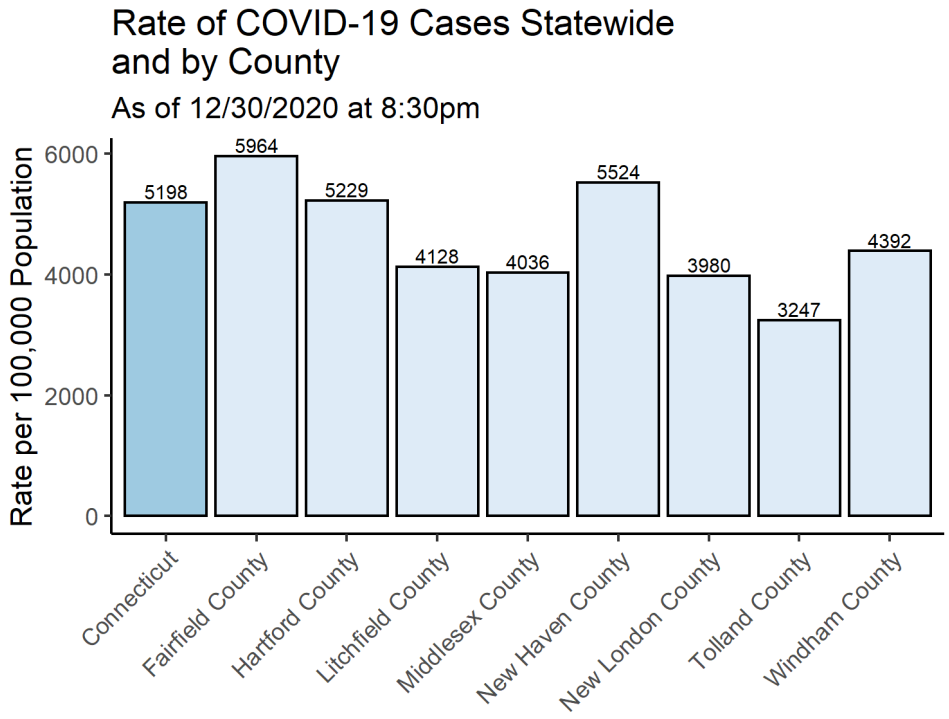


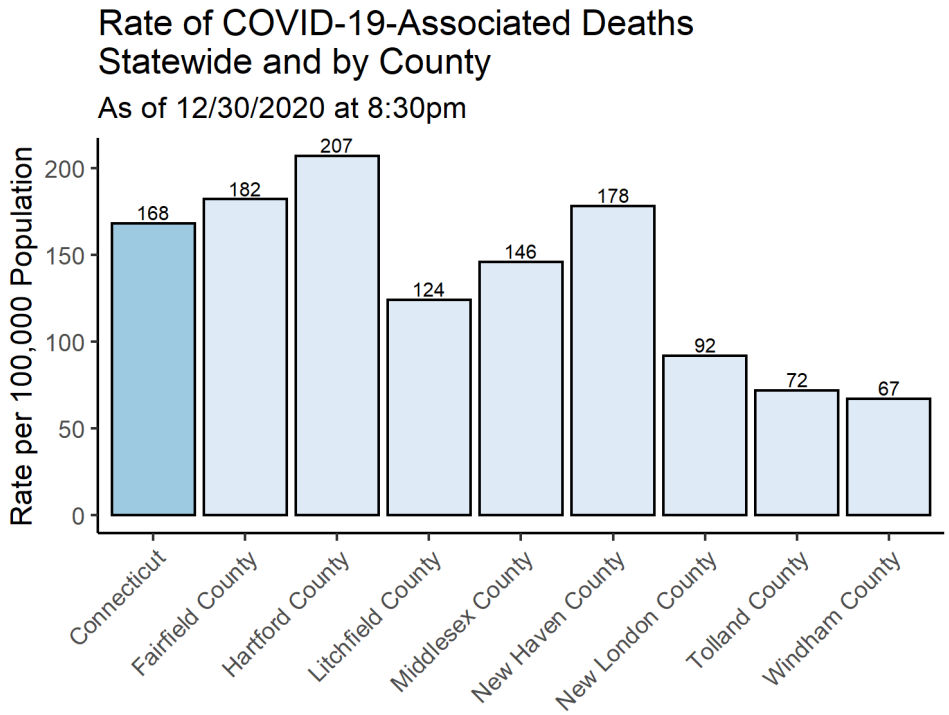
APPENDIX A. Cumulative Number of COVID-19 Cases by Town

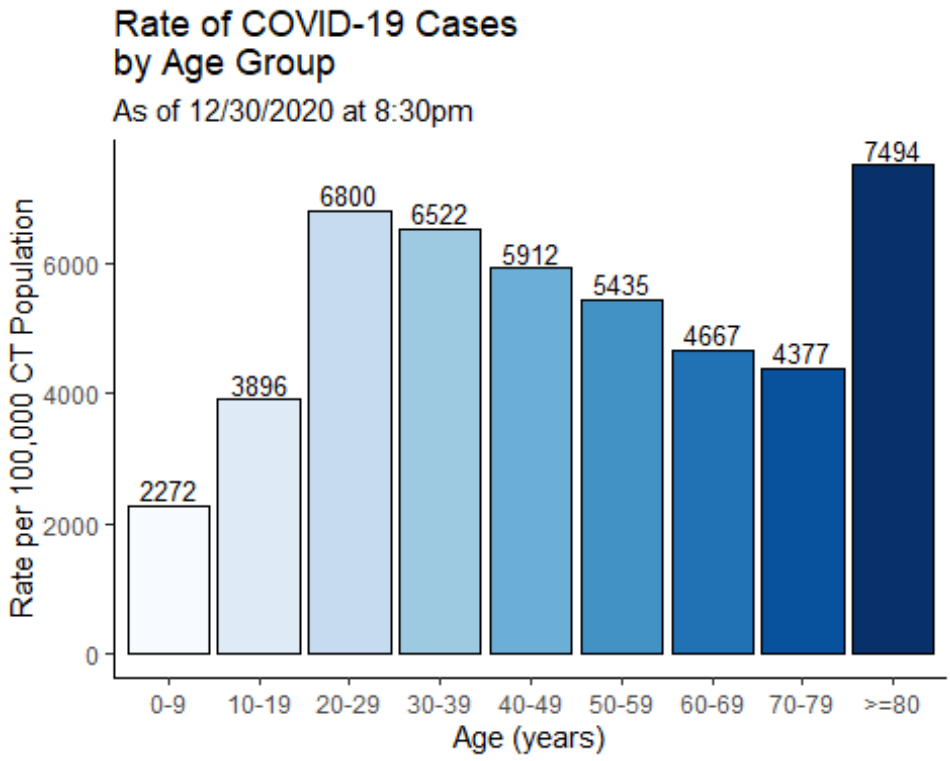
Table does not include 665 cases pending address validation

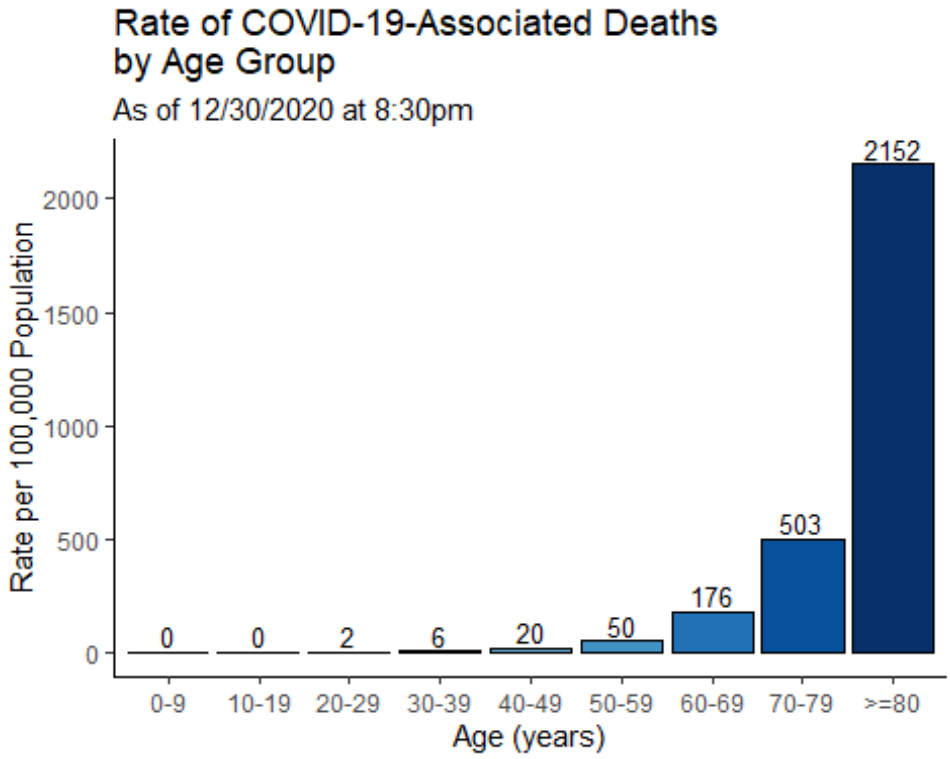
Town	Confirmed Cases	Probable Cases	Town	Confirmed Cases	Probable Cases	Town	Confirmed Cases	Probable Cases
Andover	86	5	Griswold	426	4	Prospect	456	30
Ansonia	966	75	Groton	1274	64	Putnam	307	6
Ashford	91	2	Guilford	570	39	Redding	230	22
Avon	499	23	Haddam	252	10	Ridgefield	661	79
Barkhamsted	82	3	Hamden	2888	234	Rocky Hill	994	46
Beacon Falls	267	14	Hampton	85	0	Roxbury	41	7
Berlin	785	42	Hartford	9813	287	Salem	100	0
Bethany	189	14	Hartland	35	0	Salisbury	70	2
Bethel	930	123	Harwinton	147	10	Scotland	16	0
Bethlehem	104	6	Hebron	248	10	Seymour	804	48
Bloomfield	1200	51	Kent	64	16	Sharon	49	1
Bolton	106	9	Killingly	761	18	Shelton	1919	169
Bozrah	77	0	Killingworth	149	7	Sherman	67	24
Branford	1088	112	Lebanon	200	5	Simsbury	520	33
Bridgeport	10917	598	Ledyard	461	3	Somers	525	48
Bridgewater	41	6	Lisbon	130	1	South Windsor	820	39
Bristol	2887	138	Litchfield	201	14	Southbury	712	48
Brookfield	703	129	Lyme	40	4	Southington	1707	161
Brooklyn	410	9	Madison	529	35	Sprague	119	1
Burlington	248	6	Manchester	2500	146	Stafford	294	14
Canaan	5	0	Mansfield	723	87	Stamford	8861	406
Canterbury	183	3	Marlborough	227	14	Sterling	129	2
Canton	249	18	Meriden	4174	207	Stonington	438	16
Chaplin	53	2	Middlebury	374	31	Stratford	2531	215
Cheshire	1015	55	Middlefield	142	8	Suffield	672	36
Chester	123	5	Middletown	2255	130	Thomaston	352	28
Clinton	447	18	Milford	2160	228	Thompson	255	7
Colchester	504	27	Monroe	667	53	Tolland	477	35
Colebrook	25	2	Montville	867	17	Torrington	1871	60
Columbia	156	2	Morris	73	3	Trumbull	1587	137
Cornwall	31	0	Naugatuck	1754	108	Union	17	1
Coventry	322	13	New Britain	5393	243	Vernon	1044	64
Cromwell	662	44	New Canaan	705	44	Voluntown	67	0
Danbury	7491	814	New Fairfield	458	61	Wallingford	2288	120
Darien	660	75	New Hartford	175	8	Warren	10	2
Deep River	151	12	New Haven	6939	399	Washington	91	6
Derby	634	37	New London	1641	27	Waterbury	8592	565
Durham	290	26	New Milford	920	197	Waterford	820	27
East Granby	120	5	Newington	1450	77	Watertown	1209	102
East Haddam	194	10	Newtown	799	89	West Hartford	2403	181
East Hampton	361	21	Norfolk	47	1	West Haven	2743	245
East Hartford	3567	123	North Branford	490	68	Westbrook	216	15
East Haven	1365	204	North Canaan	120	5	Weston	263	29
East Lyme	594	31	North Haven	1022	122	Westport	852	73
East Windsor	530	24	North Stonington	129	3	Wethersfield	1280	65
Eastford	45	2	Norwalk	6148	381	Willington	119	8
Easton	185	12	Norwich	2067	21	Wilton	534	68
Ellington	463	24	Old Lyme	147	1	Winchester	349	5
Enfield	1847	52	Old Saybrook	448	22	Windham	1726	18
Essex	194	15	Orange	482	56	Windsor	1564	67
Fairfield	2669	343	Oxford	420	24	Windsor Locks	516	14
Farmington	737	53	Plainfield	676	10	Wolcott	950	75
Franklin	111	0	Plainville	764	53	Woodbridge	282	29
Glastonbury	1030	63	Plymouth	454	31	Woodbury	328	19
Goshen	80	3	Pomfret	112	0	Woodstock	210	2
Granby	251	12	Portland	324	15			
Greenwich	2329	178	Preston	152	2			

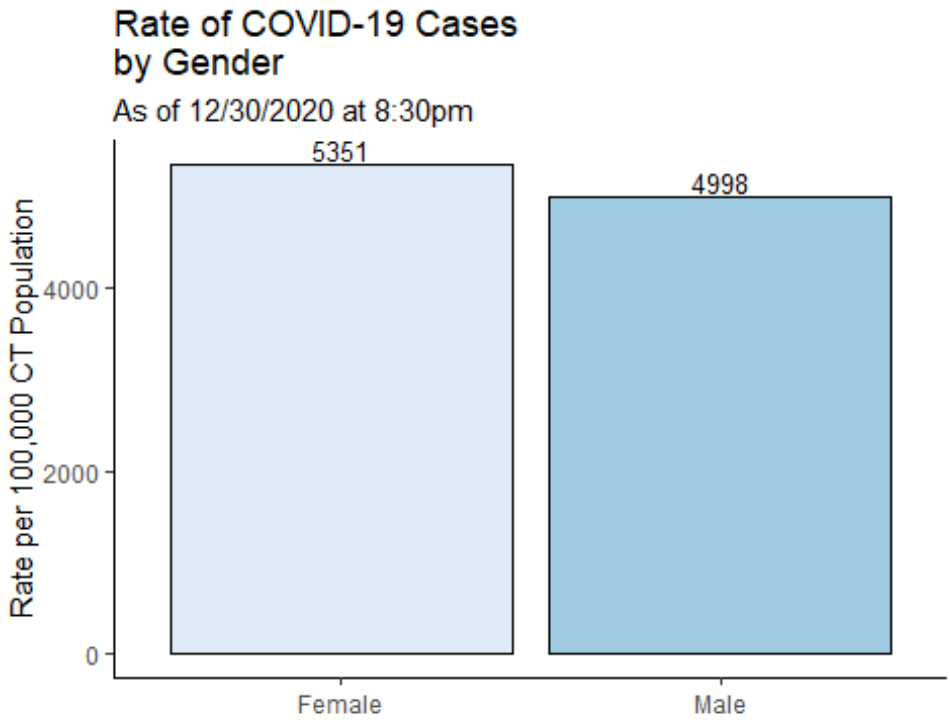
APPENDIX B. The following graphs show the number of cases per 100,000 Connecticut residents statewide and by county, age group, and gender. Population estimate from: [DPH Population Statistics]

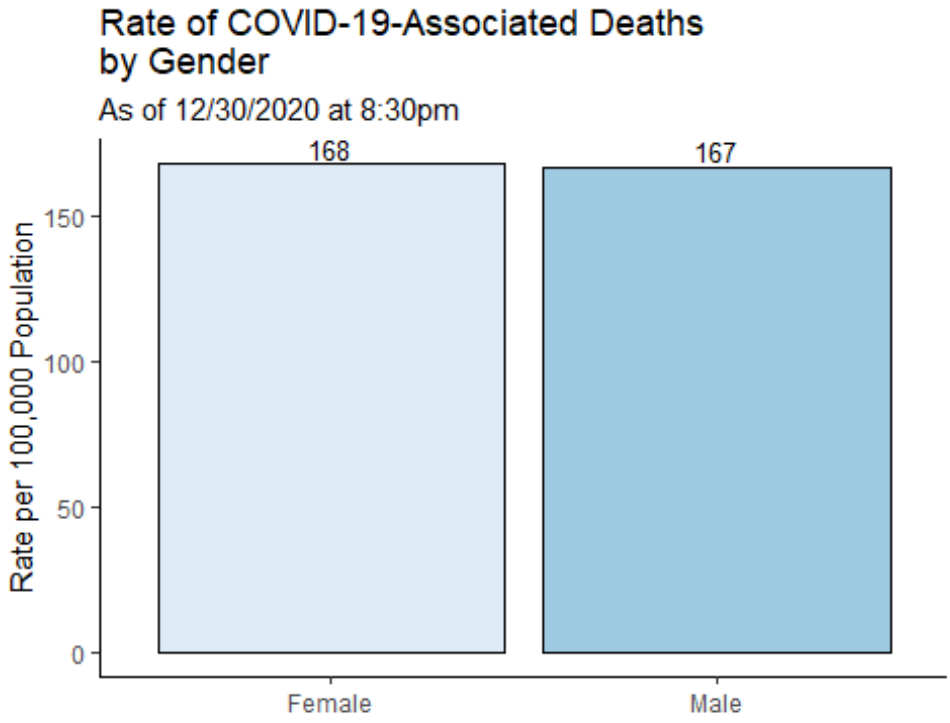




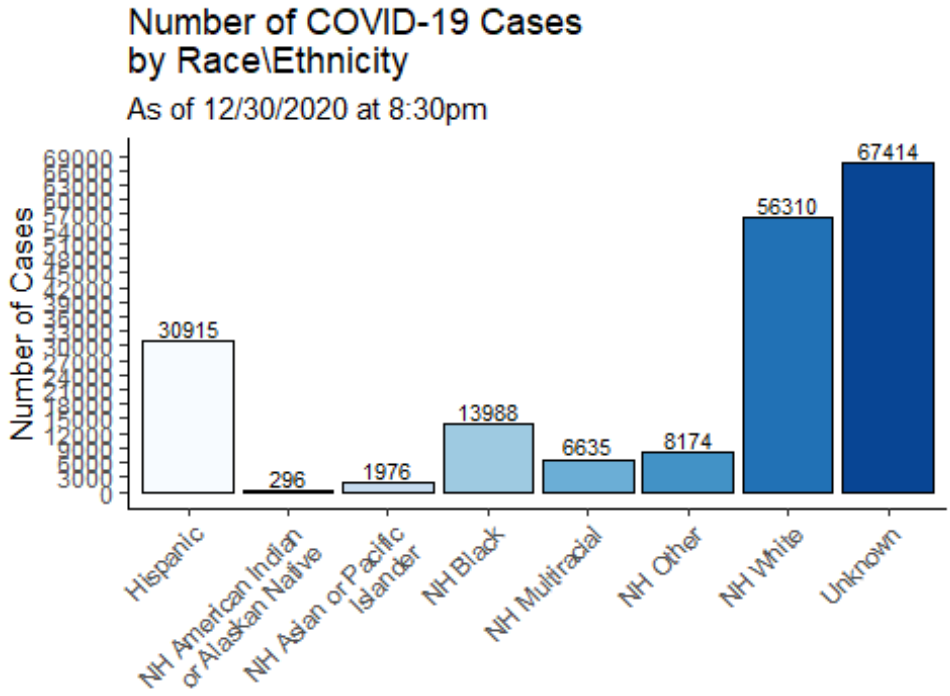

Rate of COVID-19 Cases
by Age Group
As of 12/30/2020 at 8:30pm
Rate per 100,000 CT Population
0
2000
4000
6000
2272
3896
6800
6522
5912
5435
4667
4377
7494
0-9
10-19
20-29
30-39
40-49
50-59
60-69
70-79
>=80
Age (years)

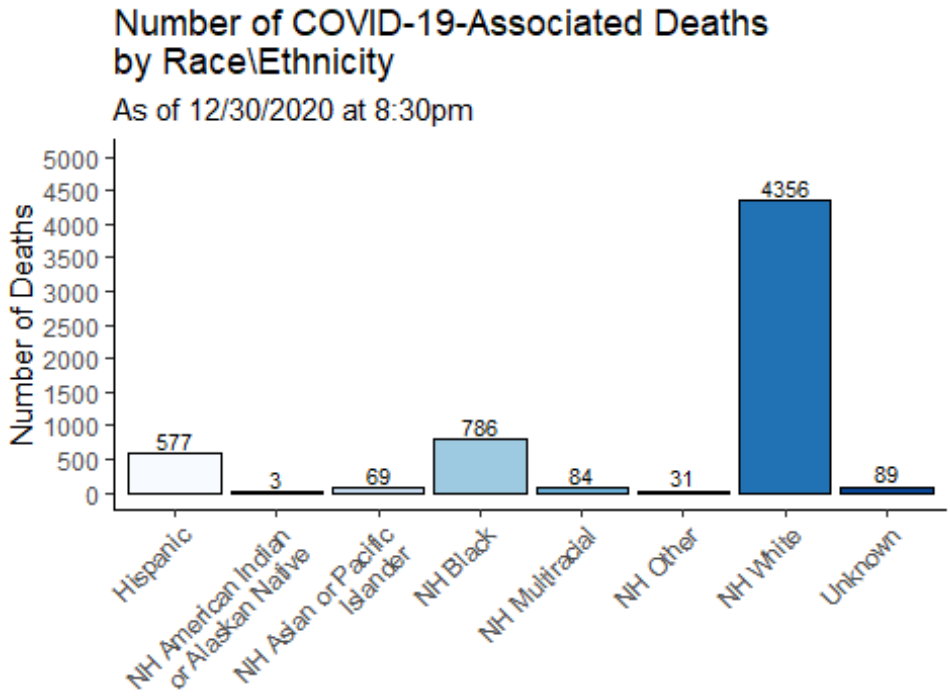

Rate of COVID-19-Associated Deaths
by Age Group
As of 12/30/2020 at 8:30pm
Rate per 100,000 Population
0
500
1000
1500
2000
0
0
2
6
20
50
176
503
2152
0-9
10-19
20-29
30-39
40-49
50-59
60-69
70-79
>=80
Age (years)


Rate of COVID-19 Cases
by Gender
As of 12/30/2020 at 8:30pm
Rate per 100,000 CT Population
0
2000
4000
5351
4998
Female
Male


Rate of COVID-19-Associated Deaths
by Gender
As of 12/30/2020 at 8:30pm
Rate per 100,000 Population
0
50
100
150
168
167
Female
Male

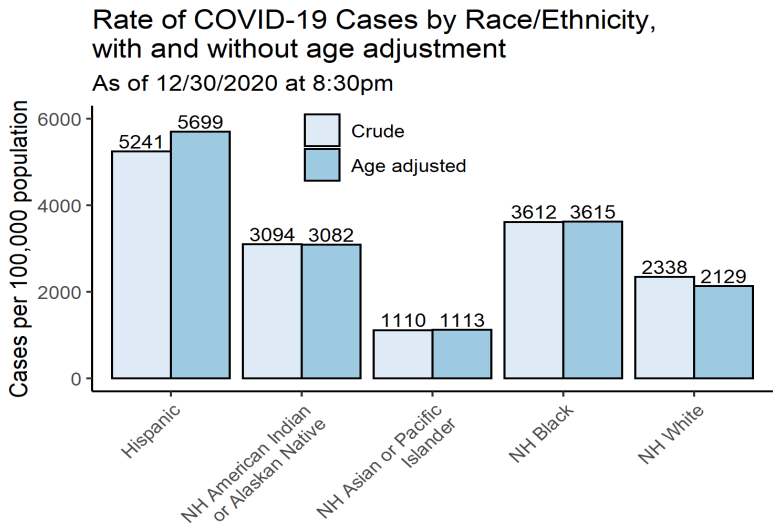
APPENDIX C. The following graphs show the number of cases and deaths by race and ethnicity. *Categories are mutually exclusive. The category "multiracial" includes people who answered 'yes' to more than one race category. NH=Non-Hispanic*

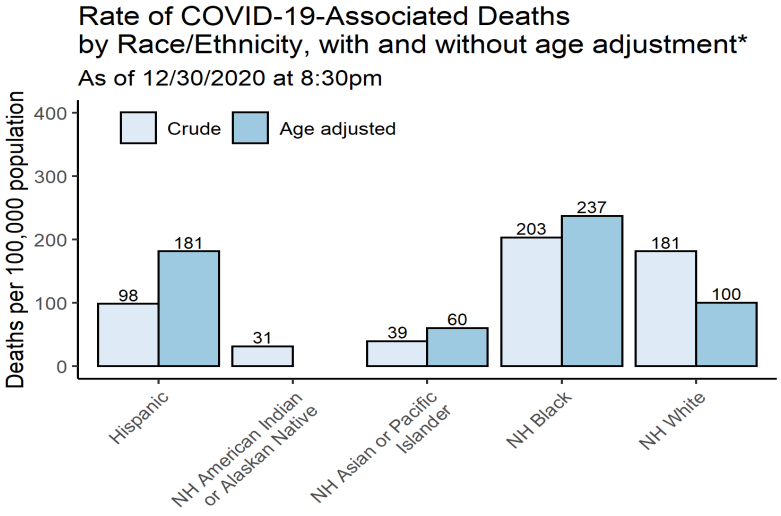




The following graphs show the number of COVID-19 cases and COVID-19-associated deaths per 100,000 population by race and ethnicity. Crude rates represent the total cases or deaths per 100,000 people. Age-adjusted rates consider the age of the person at diagnosis or death when estimating the rate and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