

OKLAHOMA COVID-19 WEEKLY REPORT

Weekly Epidemiology and Surveillance Report
May 22 – May 28, 2020



PURPOSE To provide up-to-date weekly epidemiological data on COVID-19 in Oklahoma.

SNAPSHOT

	May 22 – May 28	Change ¹	Total
Confirmed cases	590	-17.8%	6,270
Recovered cases ²	875	24.8%	5,236
Deaths	22	10.0%	326

1. Change from the week of May 15-May 21, 2020.

2. Currently not hospitalized or deceased and 14 days after onset/report.

The average age of cases was **49** years.

The youngest case was **less than a year old** and the oldest case was **102 years**.

The average age of individuals who died was **75 years**.

The youngest individual to die from COVID-19 was **22 years** and the oldest was **101 years**.

Persons aged
50 and over

47%
of cases

Persons aged
50 and over

97%
of deaths

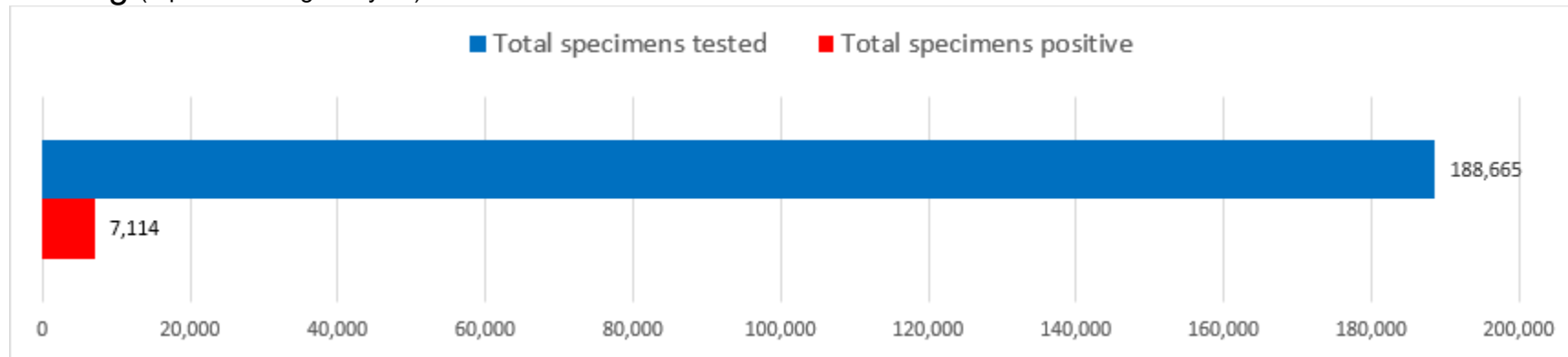
Females

53%
of cases

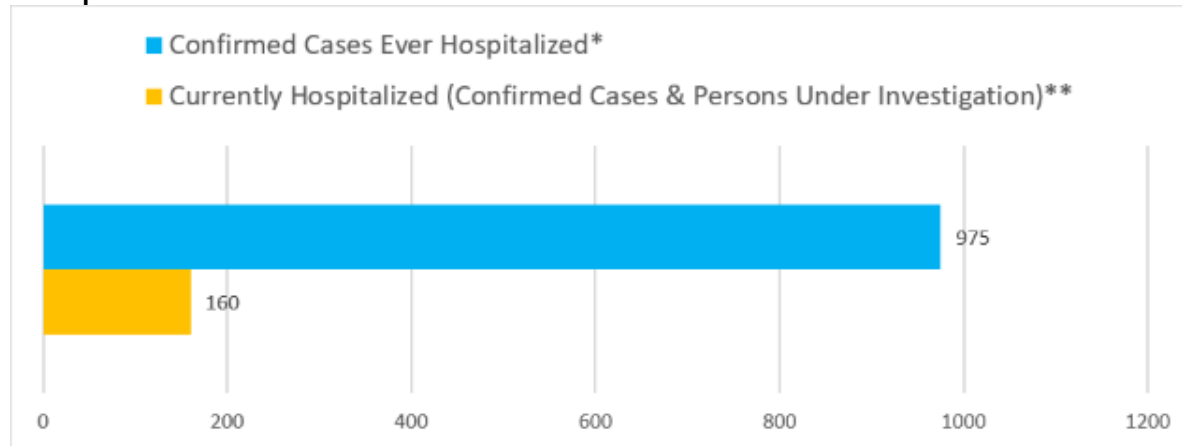
Males

52%
of deaths

Testing (reported through May 28)



Hospitalizations



*Ever hospitalized includes discharged, deceased, currently hospitalized and recovered as of 5/28/2020.

**Source OSDH Beds Survey. Note, facility response rate of 88% on 5/28/2020.

KEY POINTS

- **590** confirmed cases in the past week
17.8% decrease from the week before (May 15-21).
 - **22** deaths occurred in the past week
10.0% increase from the week before (May 15-21).
 - **975 (15.6%)** of confirmed cases have been hospitalized
 - **188,665** specimens have been tested in total.
 - **73** counties (out of 77) have had at least a confirmed case of COVID-19
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WHAT'S NEW

Multisystem Inflammatory Syndrome in Children (MIS-C) is a rare condition where different body parts can become inflamed, including the heart, lungs, kidneys, brain, skin, eyes, or gastrointestinal organs. We do not yet know what causes MIS-C, however, we know that many children with MIS-C had the virus that causes COVID-19, or had been around someone with COVID-19. MIS-C can be serious, even deadly, but most children who were diagnosed with this condition have gotten better with medical care. The Oklahoma State Department of Health has asked healthcare providers to report any suspected cases of the MIS-C associated with COVID-19 to epidemiologists at the Acute Disease Service for further investigation.

GATING CRITERIA

- Progress on meeting the components of the reopening guidelines proposed by the White House, called the “gating criteria”. More information available at <https://www.whitehouse.gov/openingamerica/>

Proposed State or Regional Gating Criteria to Satisfy Before Proceeding to Phased Comeback

SYMPTOMS	CASES	HOSPITALS
Downward trajectory of influenza-like illnesses (ILI) reported within a 14-day period	Downward trajectory of documented cases within a 14-day period	Treat all patients without crisis care
AND	OR	AND
Downward trajectory of covid-like syndromic cases reported within a 14-day period	Downward trajectory of positive tests as a percent of total tests within a 14-day period (flat or increasing volume of tests)	Robust testing program in place for at-risk healthcare workers, including emerging antibody testing

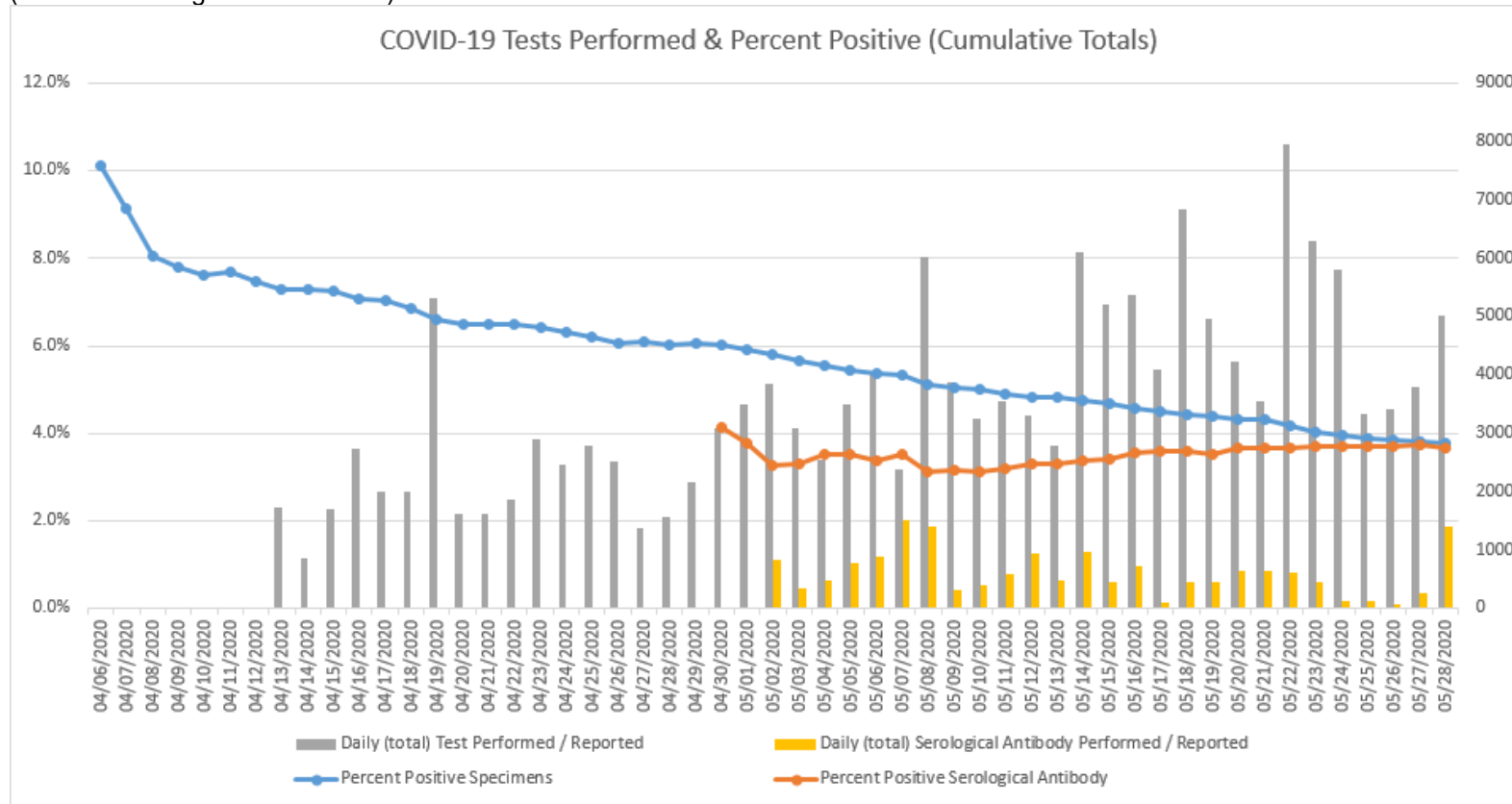
DISEASE TESTING

	May 22 - May 28	Total Number
Specimens tested ¹ , count	35,667	188,665
Specimens positive, count (%)	525 (1.5%)	7,114 (3.8%)
Antibody tested, count	3,118	20,278
Antibody positive, count (%)	118 (3.8%)	746 (3.7%)

1. Includes state and private laboratories.

Note: Specimen counts may not reflect unique individuals.

Downward trajectory of positive tests as a percent of total tests within a 14-day period (flat or increasing volume of tests)



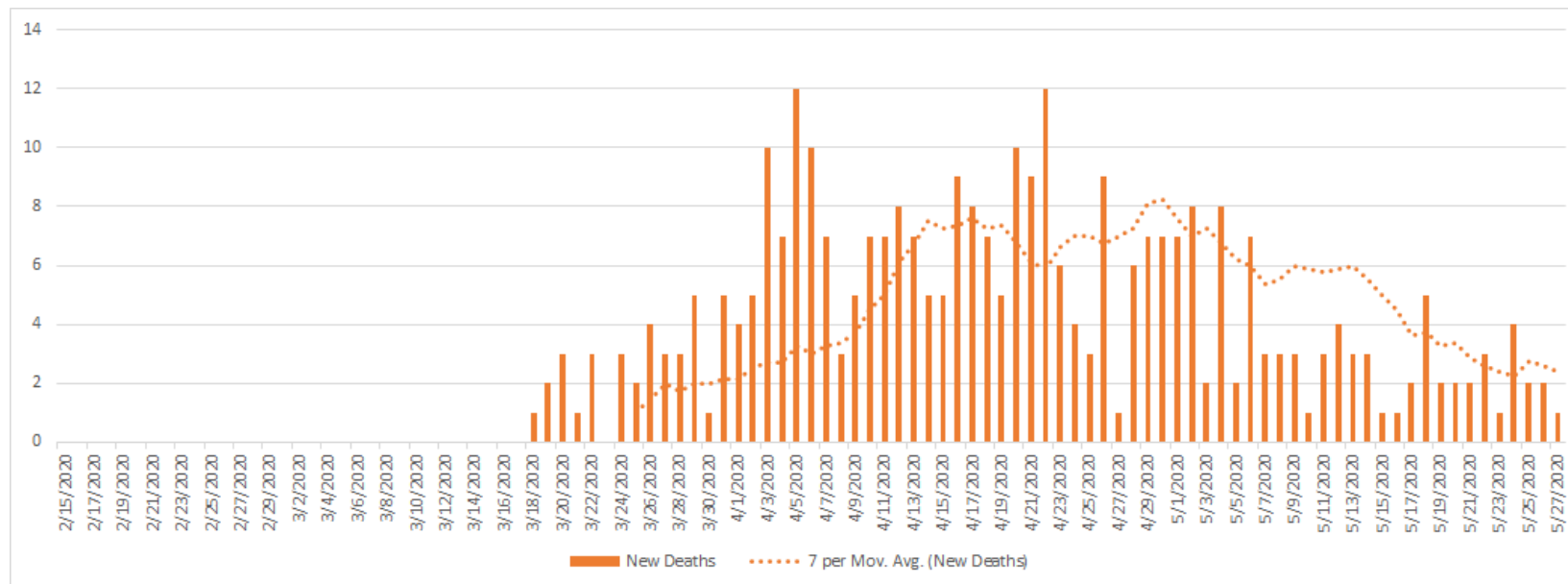
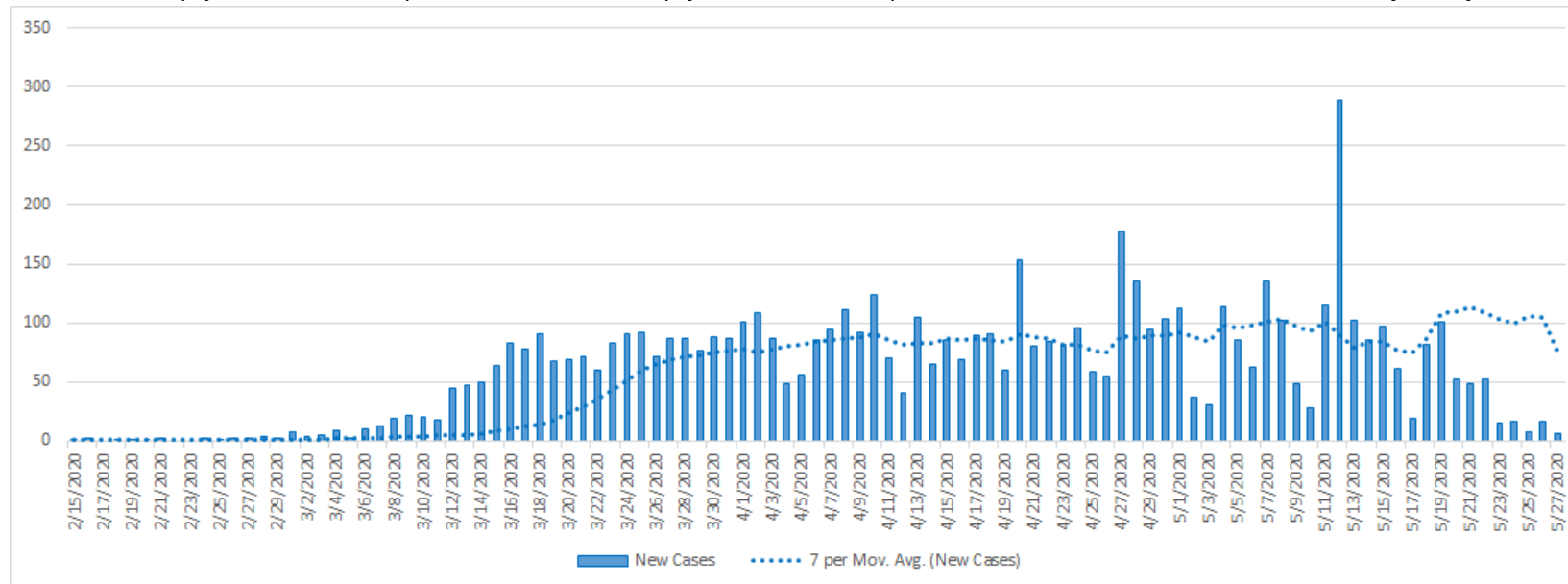
Oklahoma, May 22 – May 28, 2020

EPIDEMIOLOGICAL ESTIMATES

	Estimate	Notes / Interpretation
Cases		
Cumulative incidence	159.0 (per 100,000 persons)	From March 7 to May 28, there were about 159 (per 100,000) new cases of COVID-19 in Oklahoma.
Absolute change in cumulative incidence from previous week	-3.2 (per 100,000 persons)	Compared to May 15- May 21, there were 3.0 (per 100,000) fewer cases of COVID-19 reported in Oklahoma during the past week (May 22 –May 28).
Disease Severity		
Case-fatality risk (crude)	5.2%	The estimate is not adjusted for the lag time from reporting to death (i.e., delay between the time someone dies and the time their death is reported). The fatality estimate could be lower due to cases that were undiagnosed or had milder symptoms.
Cumulative Hospitalization rate (overall)	24.7 (per 100,000 persons)	About 25 people per 100,000 have ever been hospitalized for COVID-19 during this outbreak.

CASES AND DEATHS

New cases (by date of onset) and new deaths (by date of death) of COVID-19 in Oklahoma, February–May 2020



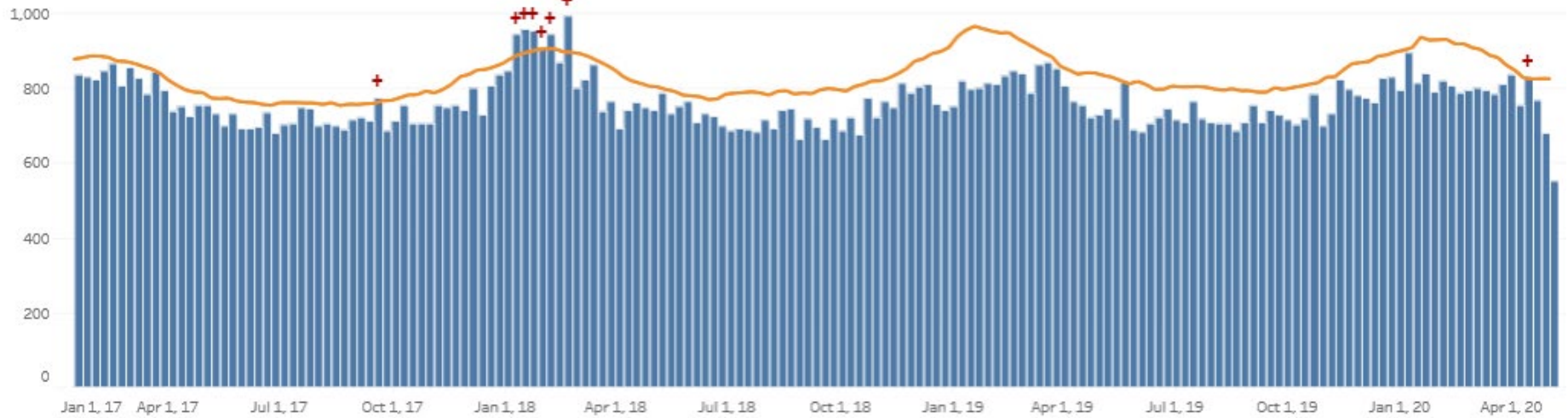
Data as of May 28, 2020.

Please note the different axes for new cases (top—from 0 to 350 for new cases) and new deaths (bottom—from 0 to 14 for new deaths). Additionally a 7 day lag has been applied to the trend line based on information collected to-date for the week of 5/10 and 5/16 where within 7 days of onset date nearly 90% of the cases had been reported.

Oklahoma Excess Death Analysis

- + indicates observed count above threshold
- Predicted number of deaths from all causes
- threshold for excess deaths

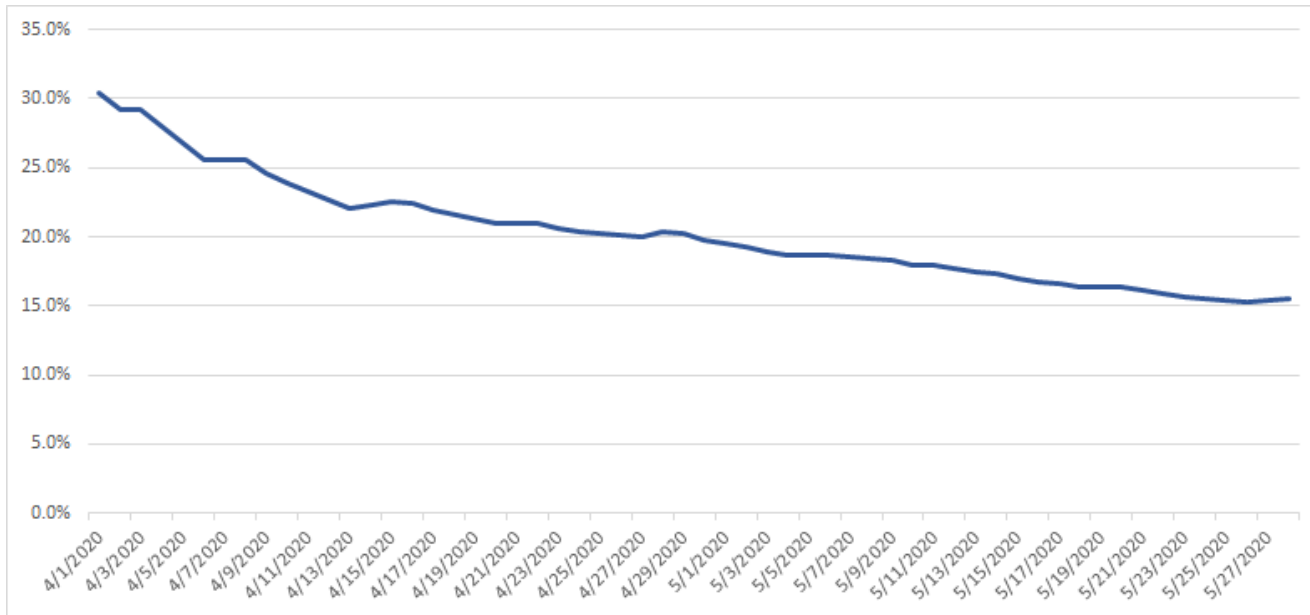
Weekly number of deaths (from all causes)



Source: CDC, National Center for Health Statistics, https://www.cdc.gov/nchs/nvss/vsrr/covid19/excess_deaths.htm#dashboard, May 28, 2020 10am.

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Cumulative Percent of Cases Ever Hospitalized (by date of report)



Source: OSDH Acute Disease Registry

TIME TO EVENT*

	N	Median	10 th to 90 th Percentile
Time from Symptom Onset to Test (Specimen Collection) ^{1,2}	3,576	4 days	0-14 days
Time from Symptom Onset to Hospitalization ^{1,3}	694	6 days	0-15 days
Length of Hospitalization Discharged Alive ⁴	619	8 days	2-22 days
Length of Hospitalization Deceased ⁴	212	6 days	2-22 days
Time from Symptom Onset to Death ^{1,5}	211	13 days	4-30 days

*Data as of March 28, 2020.

1. Limited to cases with a known date of symptom onset.
2. Limited to cases with a known date of a test (specimen collection) on or after the date of symptom onset.
3. Limited to cases with a known hospital admission date on or after the date of symptom onset.
4. Limited to cases with a known admission and discharge date from the hospital.
5. Limited to cases who are deceased.

DEMOGRAPHIC INFORMATION as of May 28, 2020

	Cases count (%) ¹	Death count (%) ¹	Cumulative Incidence Rate ²	Cumulative Mortality Rate ²
Oklahoma	6,270	326	159.0	8.3
Gender				
Male	2,968 (47.3)	169 (51.8)	152.0	8.7
Female	3,302 (52.7)	157 (48.2)	165.9	7.9
Age group				
Under 1- 4	86 (1.4)	0 (0.0)	33.0	
5-14	115 (1.8)	0 (0.0)	21.4	
15-24	667 (10.6)	1 (0.3)	124.0	0.2
25-34	992 (15.8)	2 (0.6)	182.6	0.4
35-44	999 (15.9)	4 (1.2)	203.7	0.8
45-54	881 (14.1)	12 (3.7)	191.4	2.6
55-64	976 (15.6)	46 (14.1)	197.8	9.3
65-74	701 (11.2)	88 (27.0)	195.5	24.5
75-84	480 (7.7)	80 (24.5)	255.7	42.6
85+	373 (5.9)	93 (28.5)	509.6	127.1
Race				
American Indian or Alaska Native	386 (6.2)	21 (6.4)	125.7	6.8
Asian or Pacific Islander	167 (2.7)	2 (0.6)	188.6	2.3
Black or African American	589 (9.4)	27 (8.3)	204.7	9.4
Multiracial/Other	253 (4.0)	7 (2.1)	61.1	1.7
White	4,076 (65.0)	252 (77.3)	143.2	8.9
Unknown	799 (12.7)	17 (5.2)		
Ethnicity				
Hispanic or Latino	1,230 (19.6)	11 (3.4)	286.7	2.6
Not Hispanic or Latino	4,151 (66.2)	284 (87.1)	118.1	8.1
Unknown	889 (14.2)	31 (9.5)		

1. Percentages may not add up to 100 due to rounding.
2. Rate per 100,000 population

HEALTHCARE & NON-HEALTHCARE

Status ¹	Non-Healthcare Worker count (%)*	Healthcare Worker count (%)*
Active	654 (12.3)	54 (5.7)
Deceased	322 (6.0)	4 (0.4)
Recovered	4,354 (81.7)	882 (93.8)
Total	5,330	940

* Percentages may not add up to 100 due to rounding.

1. Data as of May 28, 2020

CASES & DEATHS BY LONG-TERM CARE AND CORRECTIONAL FACILITIES

	Cases	Deaths
LTCF^{1,2}		
Residents	861	167
Staff	493	2
Total	1354	169
Correctional Facilities^{2,3}		
Inmates	307	2
Staff	50	0
Total	357	2

1. Long term care facility or nursing home

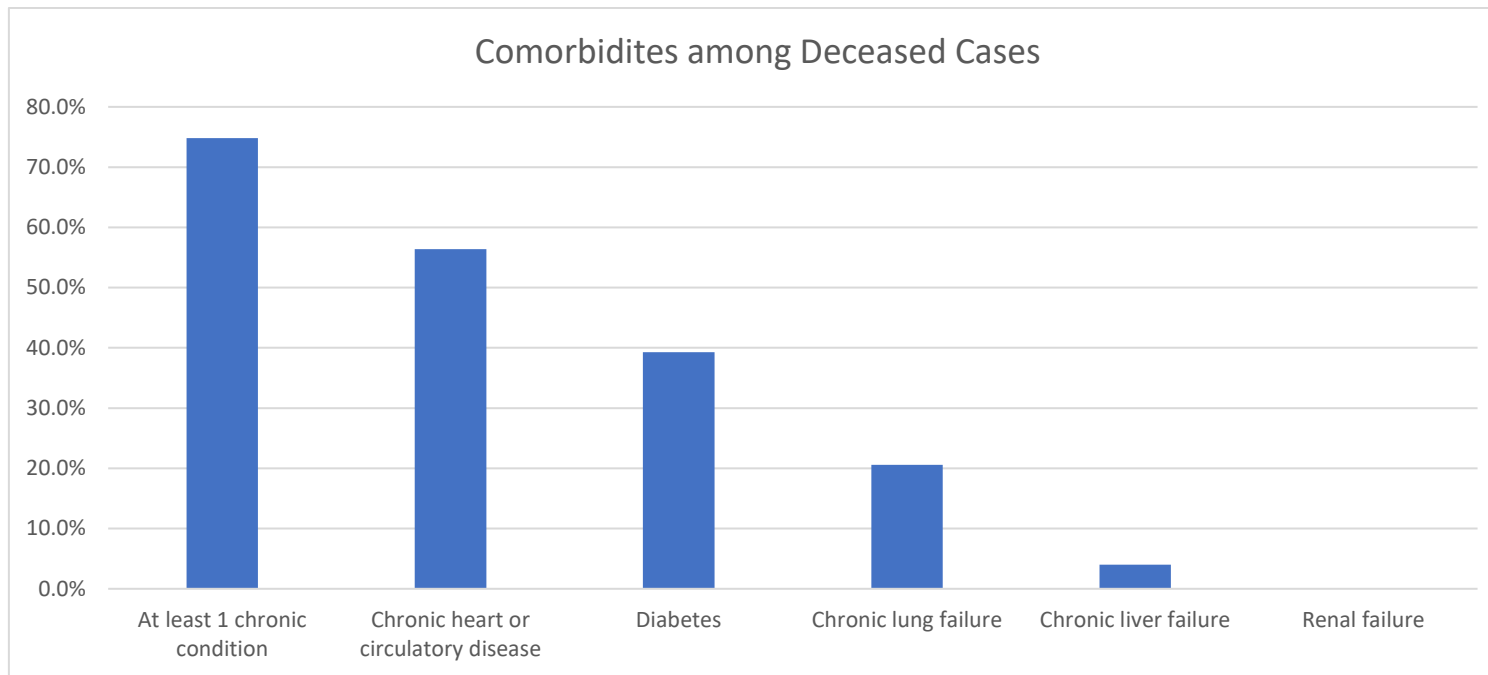
2. Data as of May 28, 2020.

3. Correctional facilities include prisons, jails, and juvenile detention centers.

COMORBIDITIES AMONG DECEASED CASES

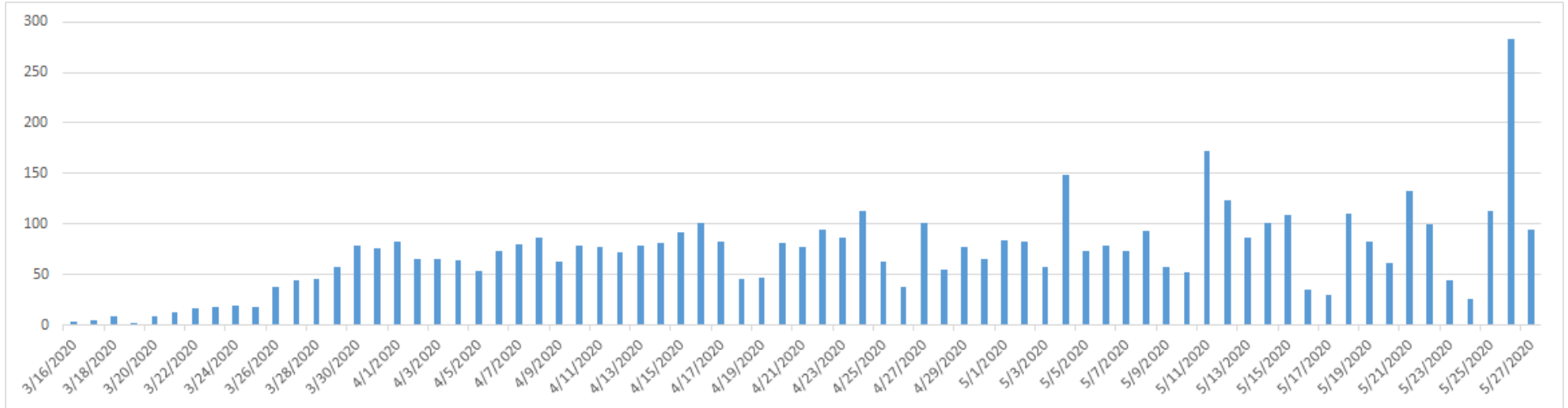
Comorbidities	Number (%)
At least 1 chronic condition*	244 (74.8)
Chronic heart or circulatory disease	184 (56.4)
Diabetes	128 (39.3)
Chronic lung failure	67 (20.6)
Chronic liver failure	13 (4.0)
Renal failure	0 (0)

*Chronic conditions include; chronic heart or circulatory disease, diabetes, chronic lung failure, chronic liver failure and renal failure



RECOVERED CASES

Distribution of **recovered cases of COVID-19**, March–May 2020, Oklahoma

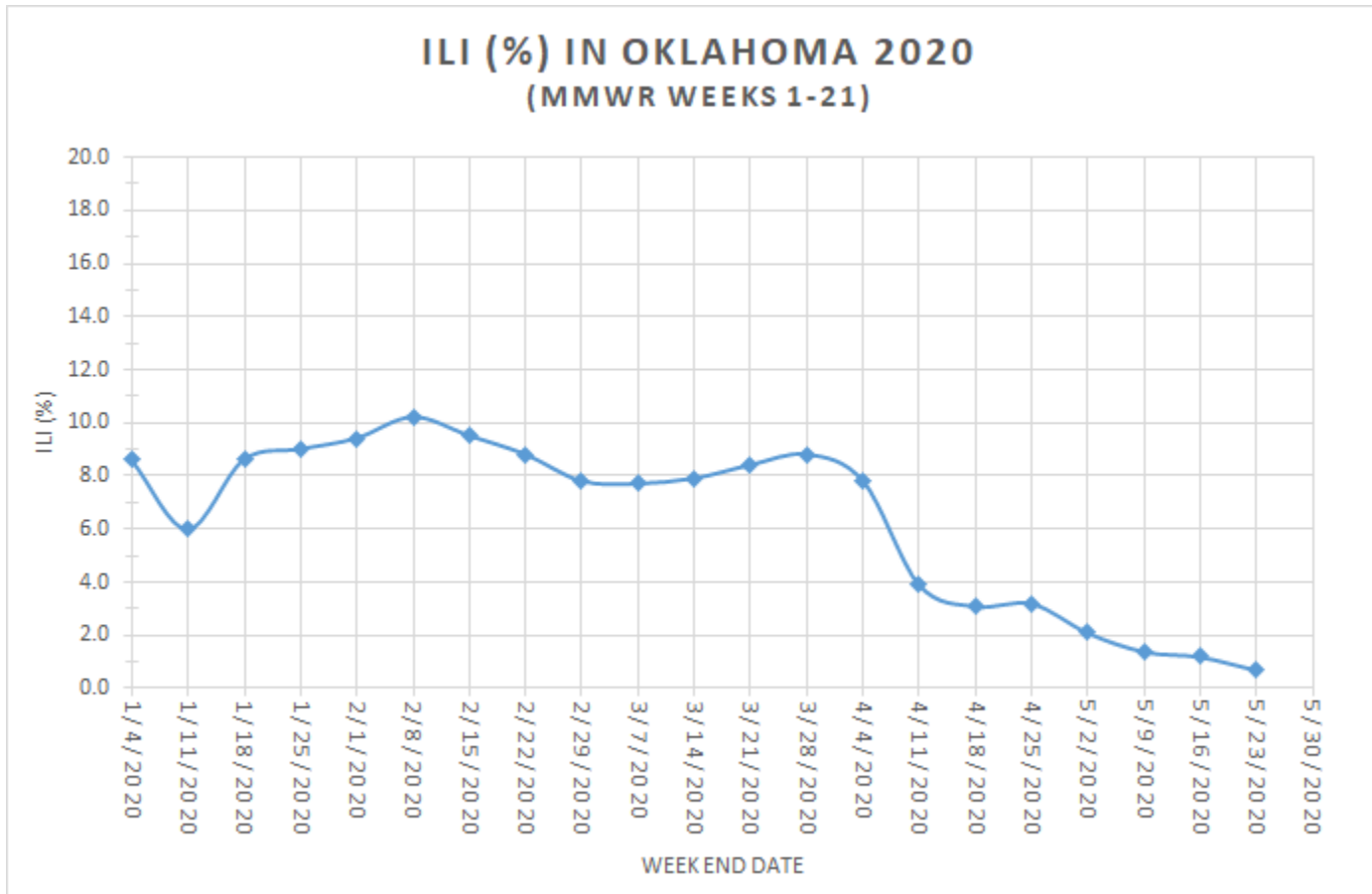


Note: A recovered case is an individual currently not hospitalized or deceased AND 14 days after the onset of symptoms

Symptoms Criteria

Downward trajectory of influenza-like illnesses (ILI) reported within a 14-day period

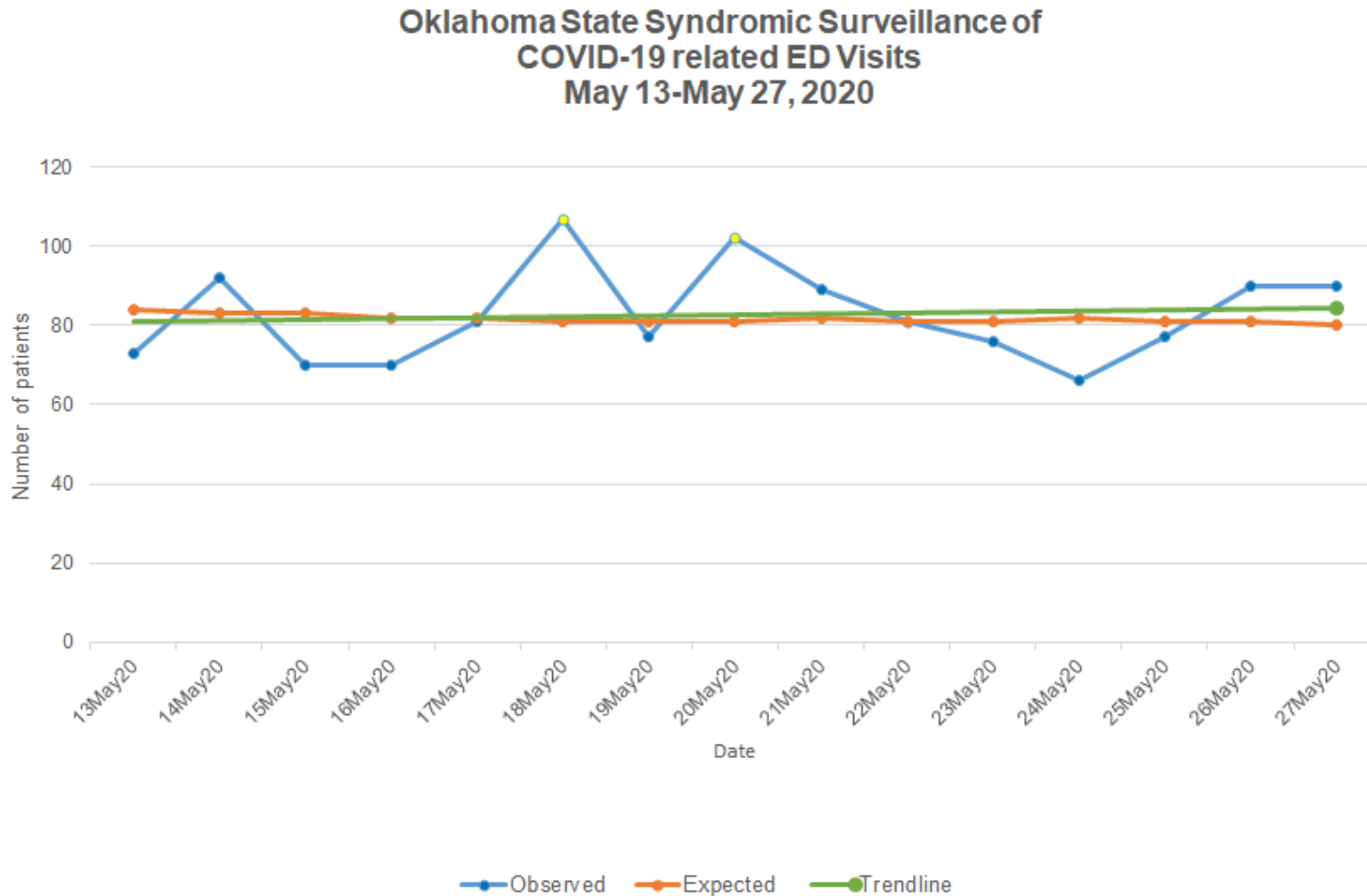
Weekly percentage of **Influenza-Like Illness (ILI)** (%), Morbidity and Mortality Weekly Report, Oklahoma, Jan–May 2020



Interpretation: Data on Influenza-Like Illness shows a decline in the daily number and weekly percentage of influenza-like illness cases in the past 5 weeks.

Slight upward trajectory of covid-like syndromic cases reported within a 14-day period

COVID-19 Related Emergency Department Visits, Oklahoma State Syndromic Surveillance, May 13-May 27, 2020

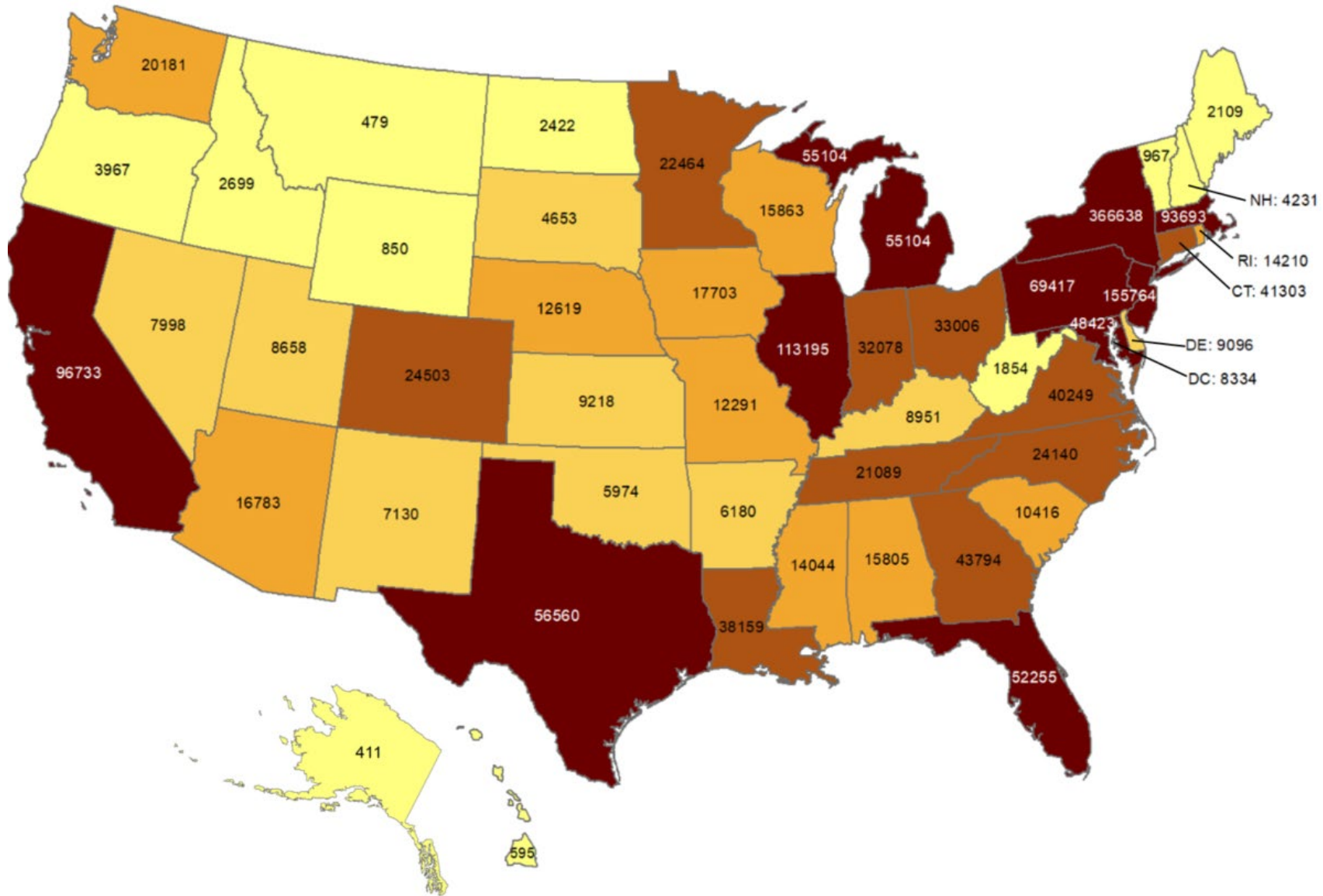


Interpretation: Data from syndromic surveillance shows a slight increase in the number of COVID-19 related emergency department visits in the past 2 weeks. This increase was expected as three additional Oklahoma County hospitals are now participating in this syndromic surveillance program. This change will temporarily impact syndromic trends as the system processes retrospective data from the new facilities.

OKLAHOMA IN COMPARISON

Total number of reported COVID-19 cases

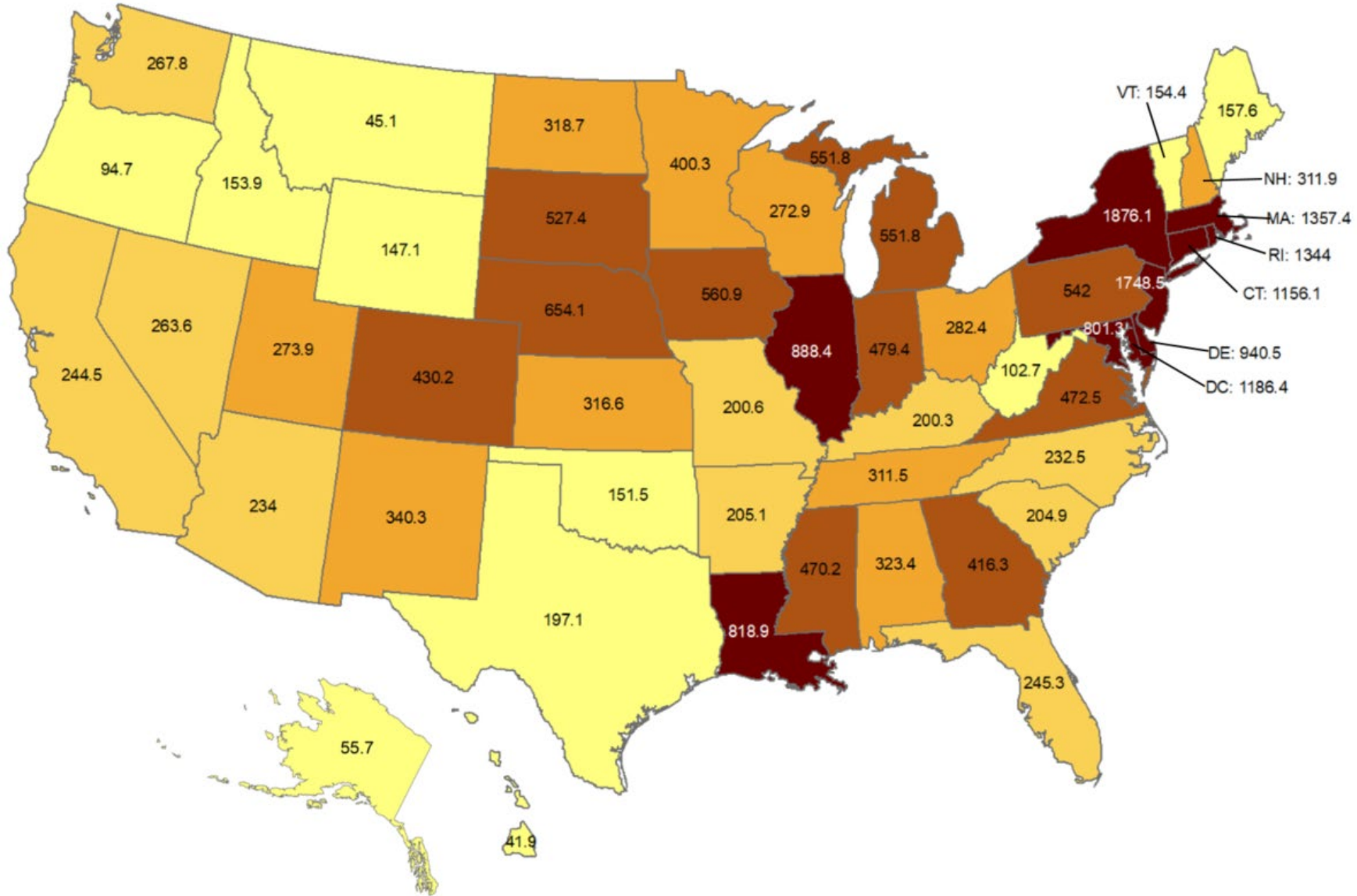
Oklahoma ranks **39** (out of all States and DC) in the total number of reported COVID-19 cases in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of May 27, 2020

Cumulative incidence of reported COVID-19 cases

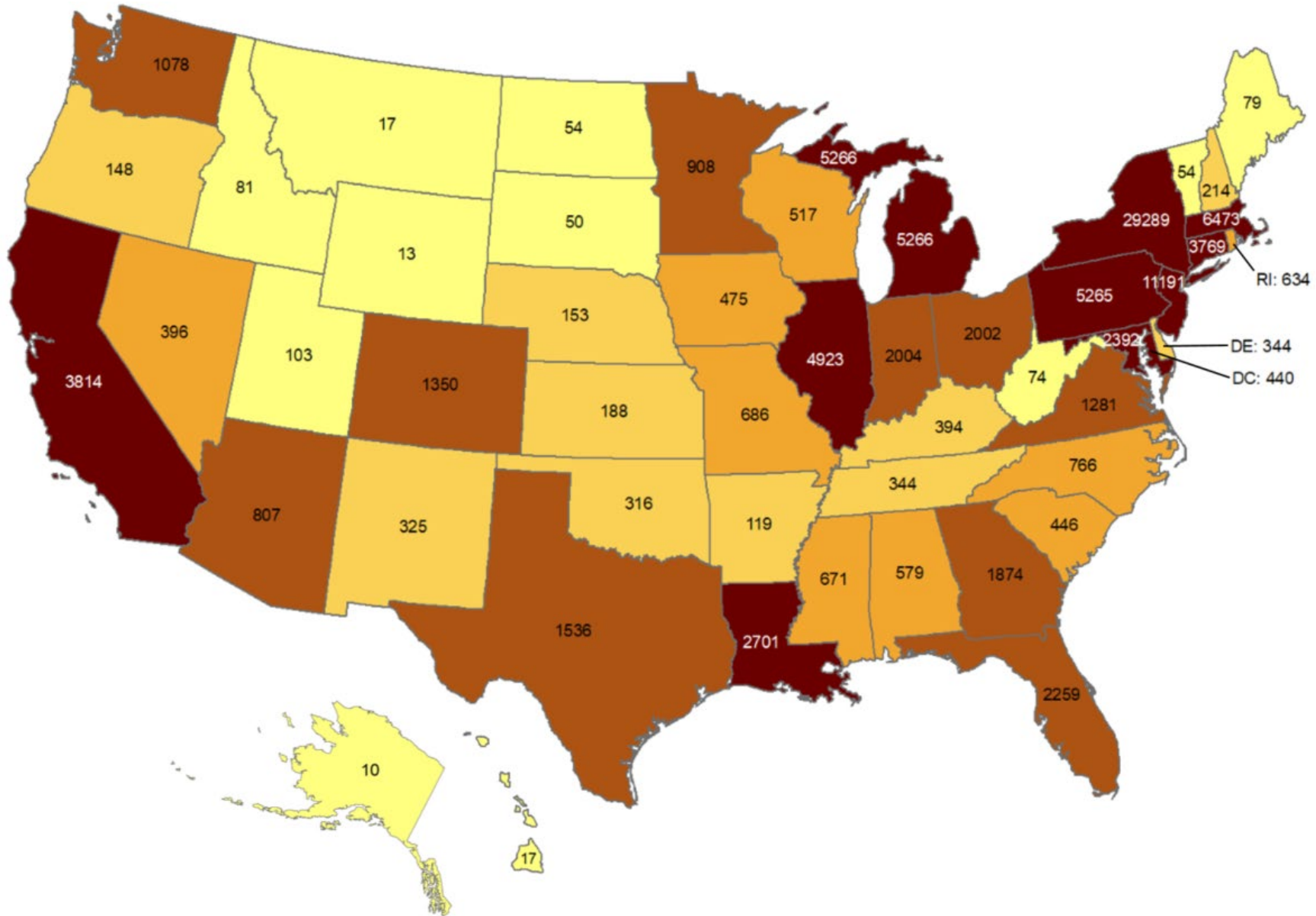
Oklahoma ranks **45** (out of all States and DC) in the cumulative incidence (per 100,000 persons) of reported COVID-19 cases in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of May 27, 2020

Total number of reported COVID-19 deaths

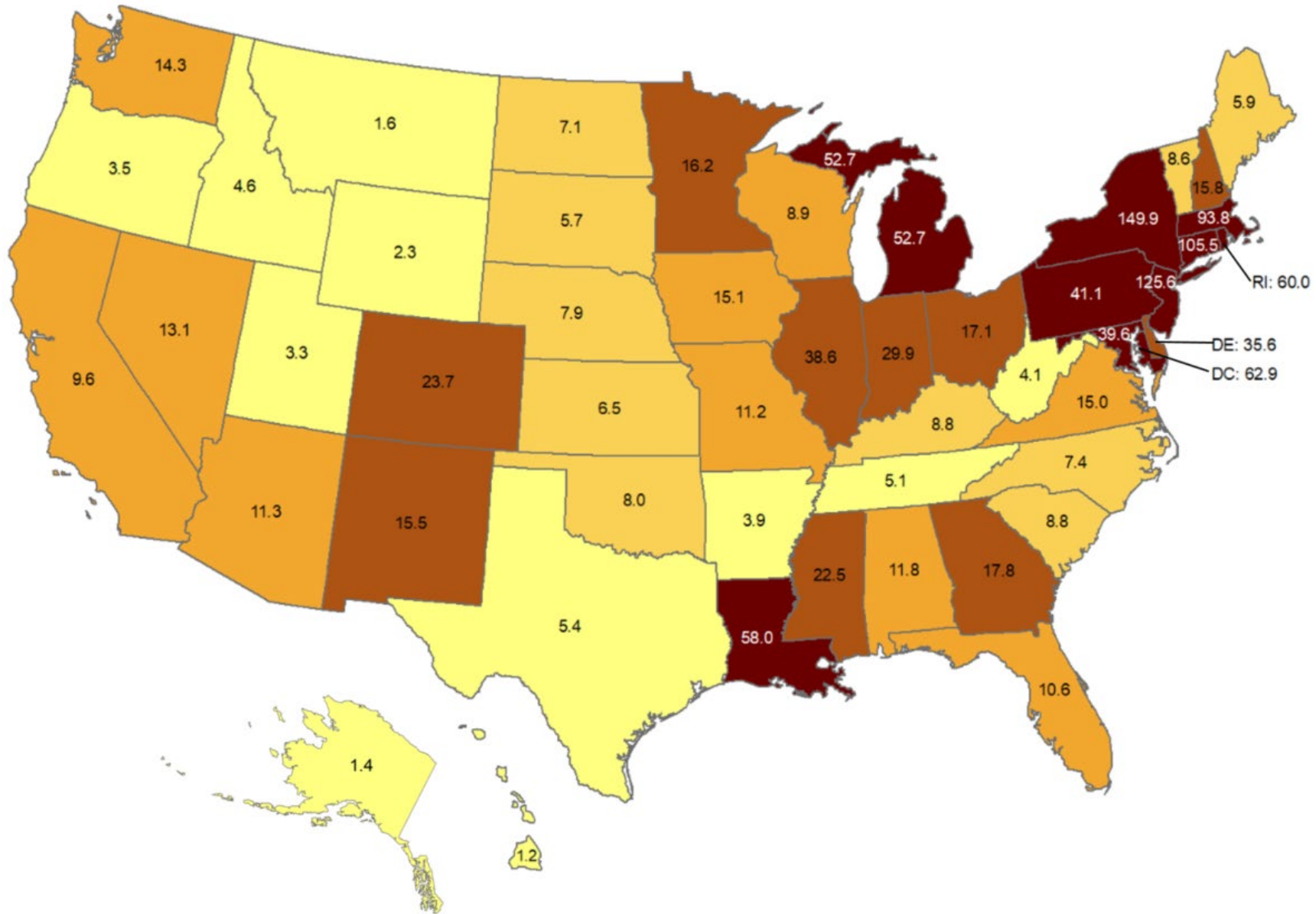
Oklahoma ranks **35** (out of all States and DC) in the total number of reported COVID-19 deaths in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of May 27, 2020

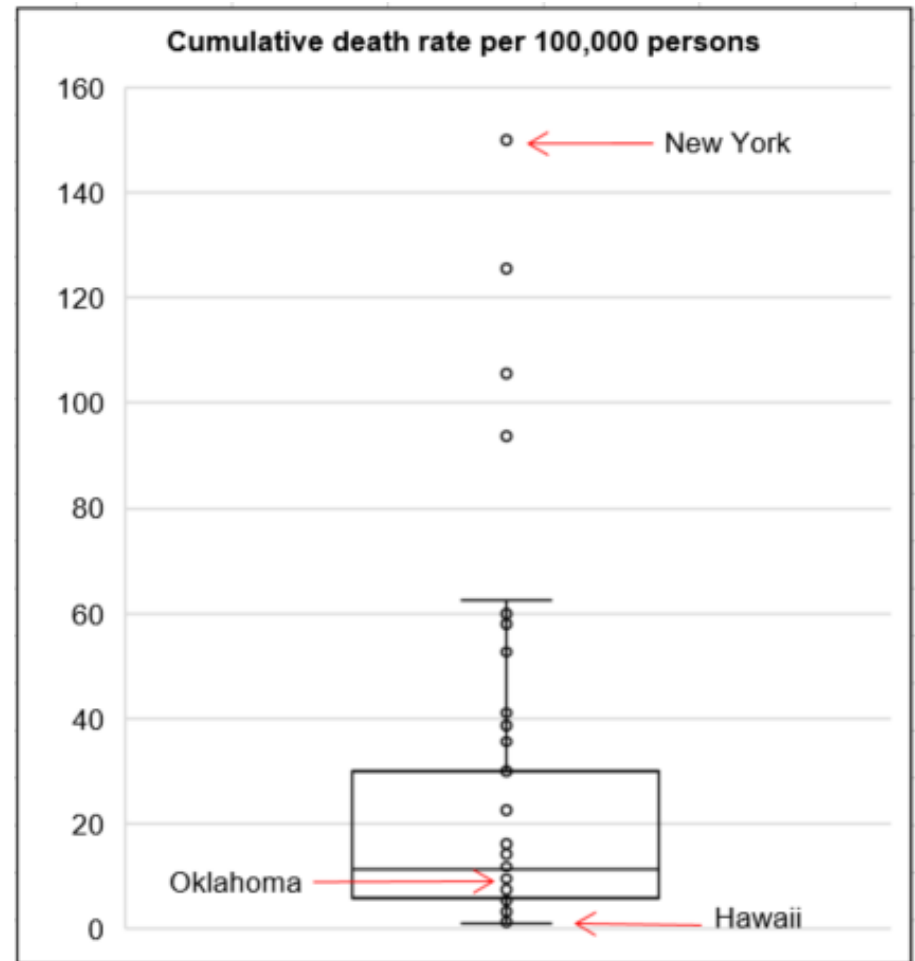
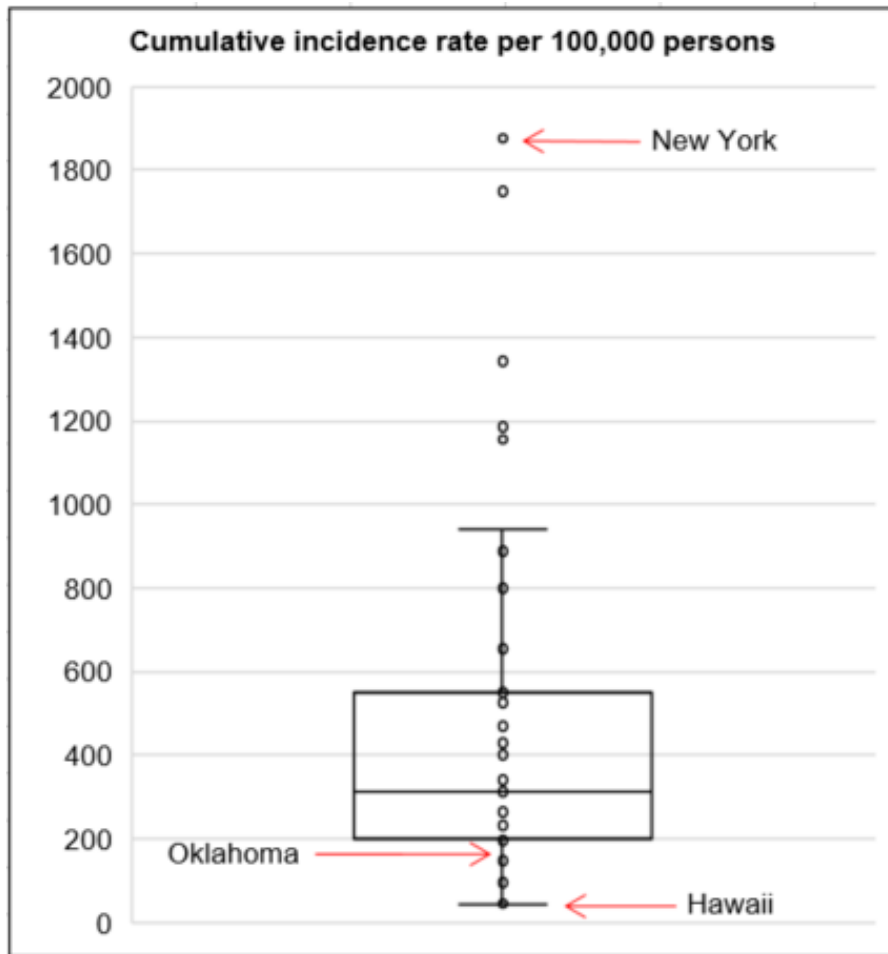
Cumulative death rate of reported COVID-19 cases

Oklahoma ranks **34** (out of all States and DC) in the cumulative death percent of reported COVID-19 cases in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of May 27, 2020

Cumulative incidence and cumulative death rate of reported COVID-19 cases



Interpretation: Oklahoma has cumulative incidence and cumulative death rate below the median of the US.

ACKNOWLEDGEMENT

The weekly report is made by possible through the efforts of county and city public health and healthcare professionals.

NOTES

Every effort is made to ensure accuracy and the data is up-to-date for the time period reported.
For daily updates on COVID-19, please visit <https://coronavirus.health.ok.gov/>