

# OKLAHOMA COVID-19 WEEKLY REPORT

Weekly Epidemiology and Surveillance Report  
May 15 – May 21, 2020



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

## SNAPSHOT

	May 15 – May 21	Change <sup>1</sup>	Total
Confirmed cases	718	13.61%	5,680
Recovered cases <sup>2</sup>	701	3.85%	4,361
Deaths	20	-16.7%	304

1. Change from the week of May 8-May 14, 2020.

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

The average age of cases was **50** 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 **100 years**.

Persons aged  
50 and over

**48%**

of cases

Persons aged  
50 and over

**97%**

of deaths

Females

**54%**

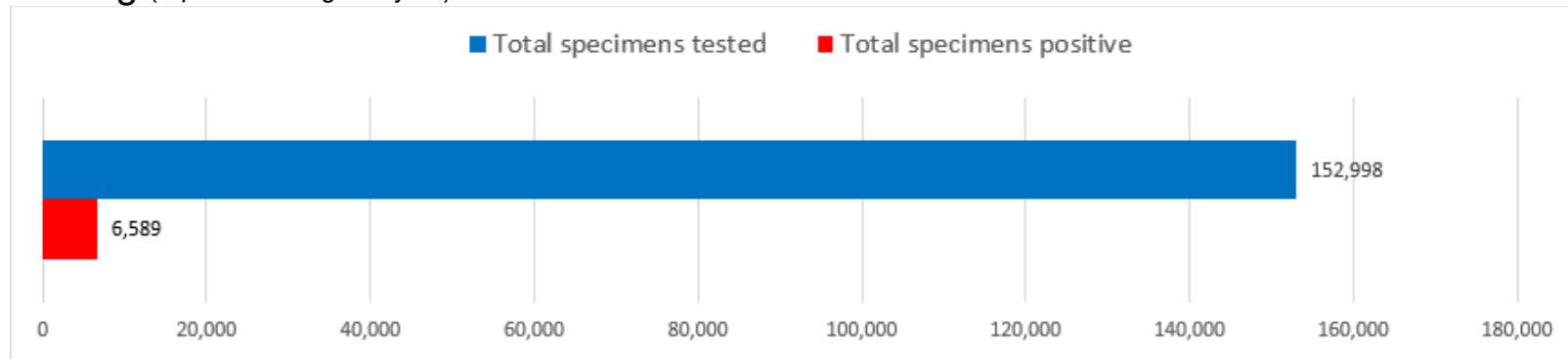
of cases

Males

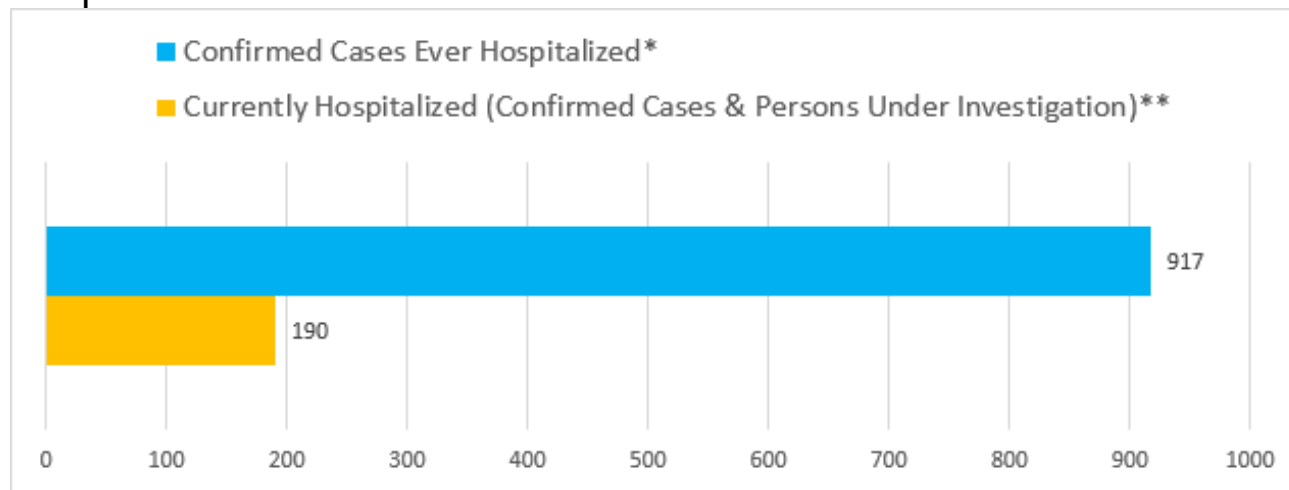
**52%**

of deaths

## Testing (reported through May 21)



## Hospitalizations



\*Ever hospitalized includes discharged, deceased, currently hospitalized and recovered.

\*\*Source OSDH Beds Survey. Note, facility response rate of 93% on 5/21/2020.

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## KEY POINTS

- **718** confirmed cases in the past week  
13.6% increase from the week before (May 8-14).
  - **20** deaths occurred in the past week  
16.6% decrease from the week before (May 8-14).
  - **152,998** 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

The Texas County Health Department (CHD) has worked aggressively over the last weeks to increase epidemiology, containment and communication efforts to reduce the impact of COVID-19 in Guymon, Oklahoma and surrounding communities. The Texas CHD's response includes a surge in testing, with over 2,100 people tested, and contact tracing in the community as well as at Seaboard Foods. In addition, steps have been taken to strengthen COVID-19 community messaging across wide cultural diversities and language barriers by building a communication web through community and religious leaders. Last but not least, the Texas CHD has also utilized the efforts of a CDC Community Outbreak Support Team that provided additional manpower and expertise towards minimizing COVID-19 transmission within the Guymon community.

There have been a large number of COVID-19 cases identified in the Comanche County Detention Center. Officials from Comanche County, the City of Lawton, the Comanche County Health Department, the Oklahoma State Department of Health, and the Oklahoma Department of Corrections have worked together to prevent transmission in that facility. Overcrowding is a risk factor common to many jails and increases the chance of having more outbreaks in the future.

Additional data added to the report include: daily counts of lab tests and antibody testing reported (pg. 4) and cumulative percent of cases ever hospitalized by report date (pg. 7).

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## 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

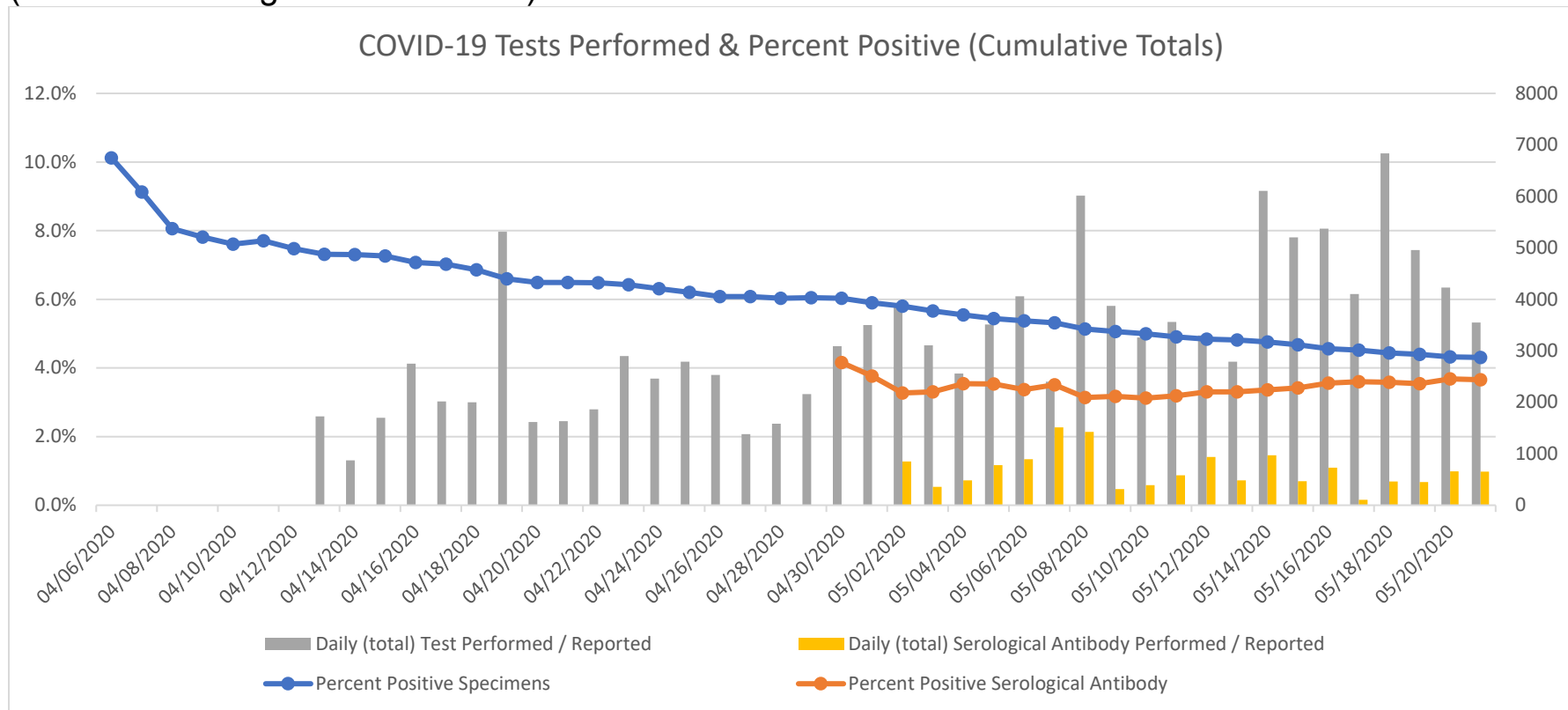
# DISEASE TESTING

	May 15 - May 21	Total Number
Specimens tested <sup>1</sup> , count	34,247	152,998
Specimens positive, count (%)	944 (2.8%)	6,589 (4.3%)
Antibody tested, count	3518	17,160
Antibody positive, count (%)	169 (4.8%)	628 (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)



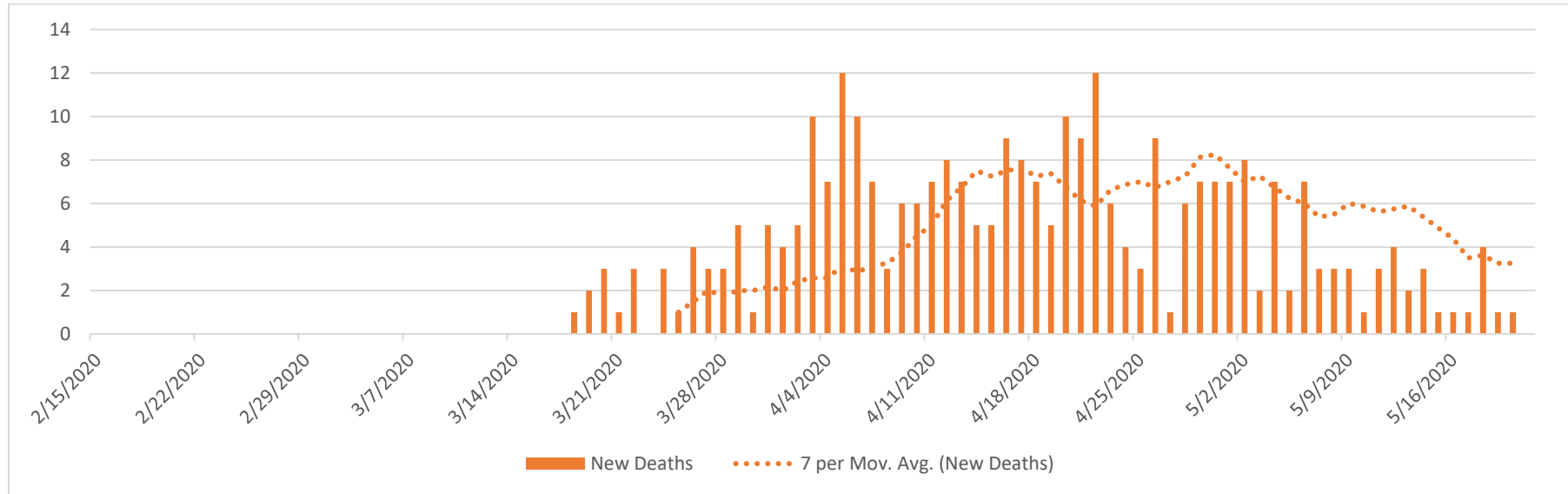
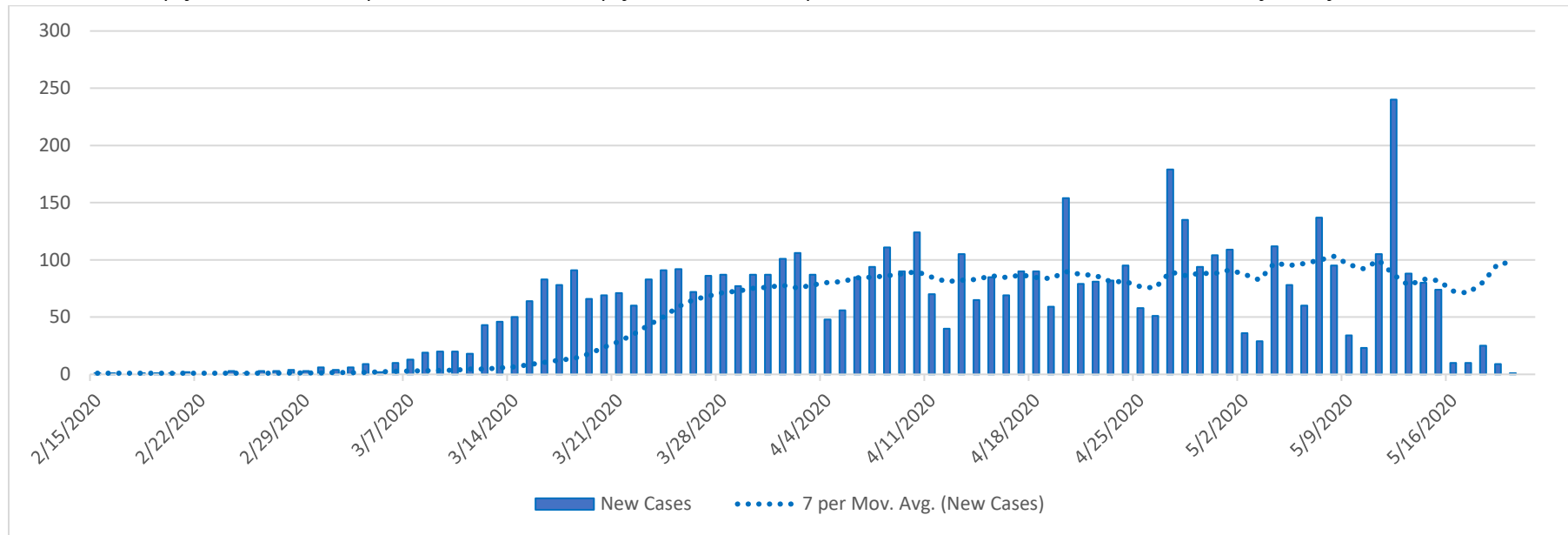
Oklahoma, May 15 – May 21, 2020

## EPIDEMIOLOGICAL ESTIMATES

	Estimate	Notes / Interpretation
<b>Cases</b>		
Cumulative incidence	144.0 (per 100,000 persons)	From March 7 to May 21, there were about 144 (per 100,000) new cases of COVID-19 in Oklahoma.
Absolute change in cumulative incidence from previous week	2.2 (per 100,000 persons)	Compared to May 8- May 14, there were 2.0 (per 100,000) more cases of COVID-19 in Oklahoma during the past week (May 15 – May 21).
<b>Disease Severity</b>		
Case-fatality risk (crude)	5.4%	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)	23.3 (per 100,000 persons)	About 23 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



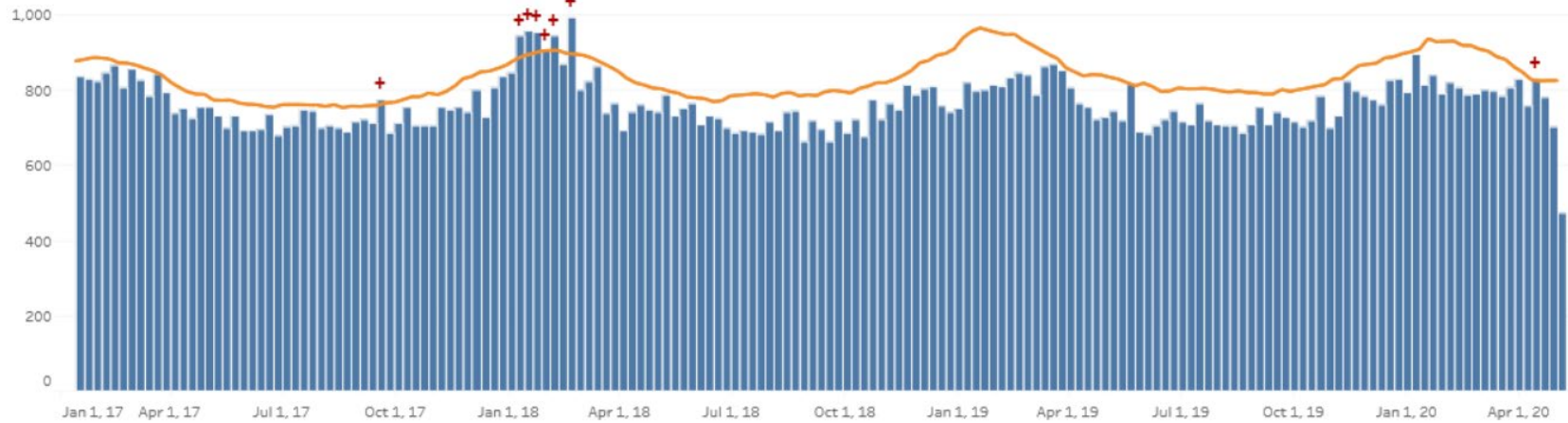
Data as of May 21, 2020.

Please note the different axes for new cases (left—from 0 to 300 for new cases) and new deaths (right—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 5/3 and 5/9 where within 7 days of onset date 90% of the cases had been reported.

# Oklahoma Excess Death Analysis

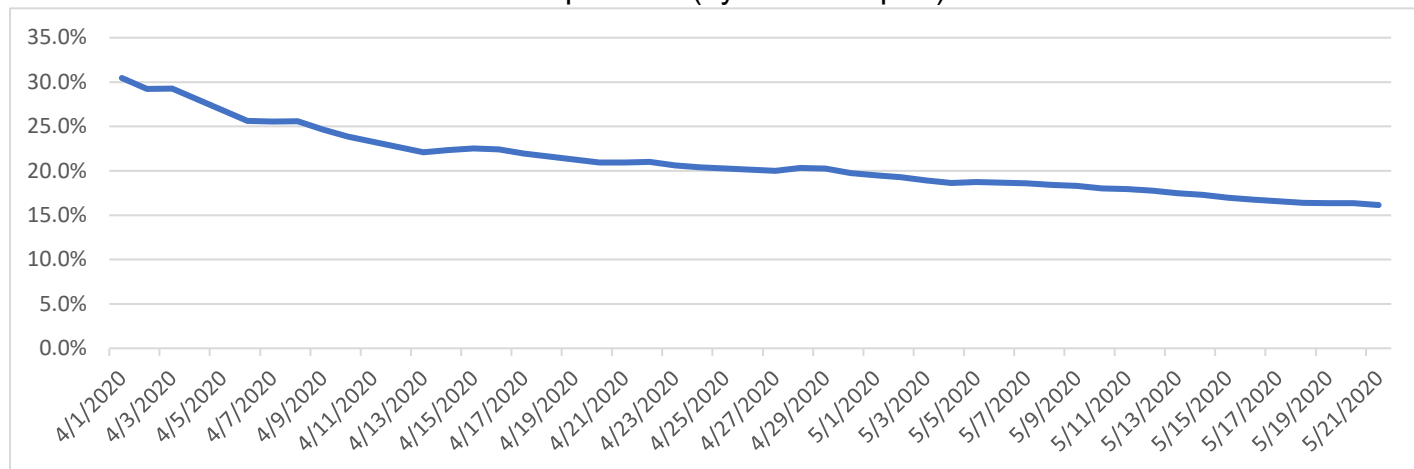
- + indicates observed count above threshold
- Predicted number of deaths from all causes
- threshold for excess deaths

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](https://www.cdc.gov/nchs/nvss/vsrr/covid19/excess_deaths.htm#dashboard), May 21, 2020 11am.

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



Source: OSDH Acute Disease Registry

## DEMOGRAPHIC INFORMATION

	Cases count (%) <sup>1</sup>	Death count (%) <sup>1</sup>	Cumulative Incidence Rate <sup>2</sup>	Cumulative Mortality Rate <sup>2</sup>
<b>Oklahoma</b>	5680	304	144.0	7.7
<b>Gender</b>				
Male	2,638 (46.4)	157 (51.6)	135.1	8.0
Female	3,042 (53.6)	147 (48.4)	152.9	7.4
<b>Age group</b>				
Under 1- 4	68 (1.2)	0 (0.0)	26.1	
5-14	88 (1.5)	0 (0.0)	16.4	
15-24	574 (10.1)	1 (0.3)	106.7	0.2
25-34	869 (15.3)	2 (0.7)	160.0	0.4
35-44	900 (15.8)	3 (1.0)	183.5	0.6
45-54	806 (14.2)	12 (3.9)	175.1	2.6
55-64	908 (16.0)	43 (14.1)	184.0	8.7
65-74	666 (11.7)	84 (27.6)	185.7	23.4
75-84	455 (8.0)	75 (24.7)	242.4	40.0
85+	342 (6.0)	84 (27.6)	467.2	114.8
Unknown	4 (0.1)			
<b>Race</b>				
American Indian or Alaska Native	351 (6.2)	21 (6.9)	114.3	6.8
Asian or Pacific Islander	148 (2.6)	2 (0.7)	167.1	2.3
Black or African American	496 (8.7)	25 (8.2)	172.4	8.7
Multiracial/Other	221 (3.9)	7 (2.3)	53.4	1.7
White	3,736 (65.8)	235 (77.3)	131.1	8.3
Unknown	728 (12.8)	14 (4.6)		
<b>Ethnicity</b>				
Hispanic or Latino	1,053 (18.5)	7 (2.3)	245.4	1.6
Not Hispanic or Latino	3,817 (67.2)	269 (88.5)	108.6	7.7
Unknown	810 (14.3)	28 (9.2)		

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

2. Rate per 100,000 population



## HEALTHCARE & NON-HEALTHCARE

Status <sup>1</sup>	Non-Healthcare Worker count (%) <sup>*</sup>	Healthcare Worker count (%) <sup>*</sup>
Active	948 (19.8)	67 (7.5)
Deceased	300 (6.8)	4 (0.5)
Recovered	3,534 (73.9)	827 (92.1)
<b>Total</b>	<b>4,782</b>	<b>898</b>

\* percentages may not add up to 100 due to rounding.

1. Data as of May 21, 2020.

## CASES & DEATHS BY LONG-TERM CARE AND CORRECTIONAL FACILITIES

	Cases	Deaths
<b>LTCF<sup>1,2</sup></b>		
Residents	779	151
Staff	466	2
<b>Total</b>	<b>1245</b>	<b>153</b>
<b>Correctional Facilities<sup>2,3</sup></b>		
Inmates	202	2
Staff	49	0
<b>Total</b>	<b>251</b>	<b>2</b>

1. Long term care facility or nursing home

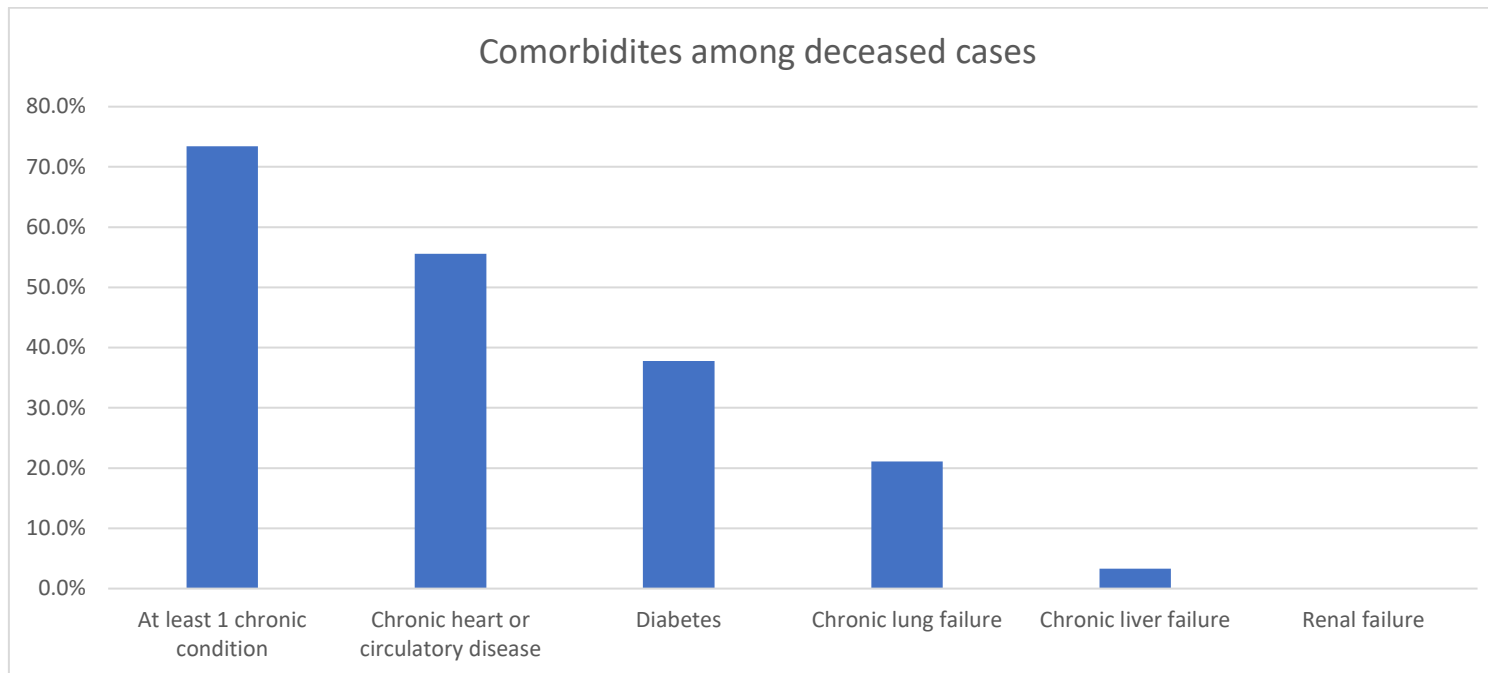
2. Data as of May 21, 2020.

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

## Comorbidities among deceased cases

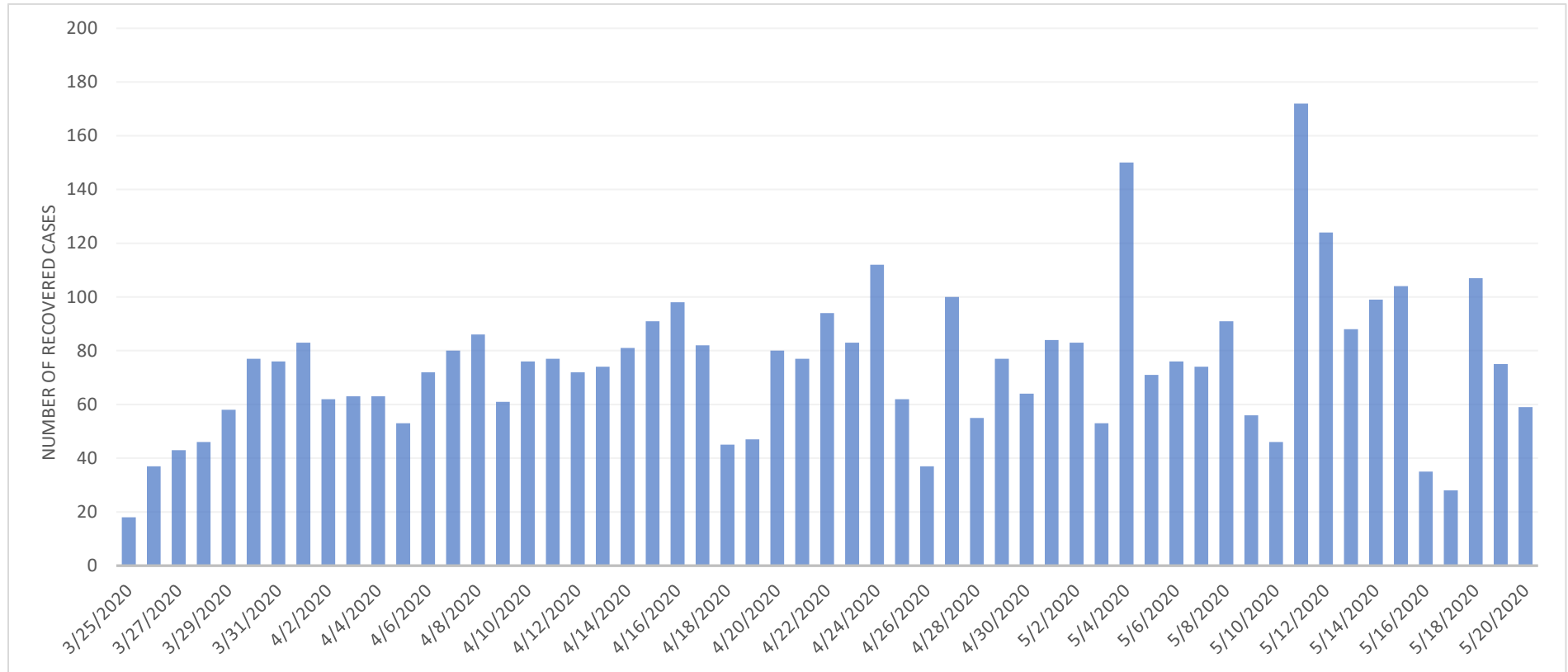
Comorbidities	Number (%)
At least 1 chronic condition*	223 (73.4)
Chronic heart or circulatory disease	169 (55.6)
Diabetes	115 (37.8)
Chronic lung failure	64 (21.1)
Chronic liver failure	10 (3.3)
Renal failure	0 (0)

\*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

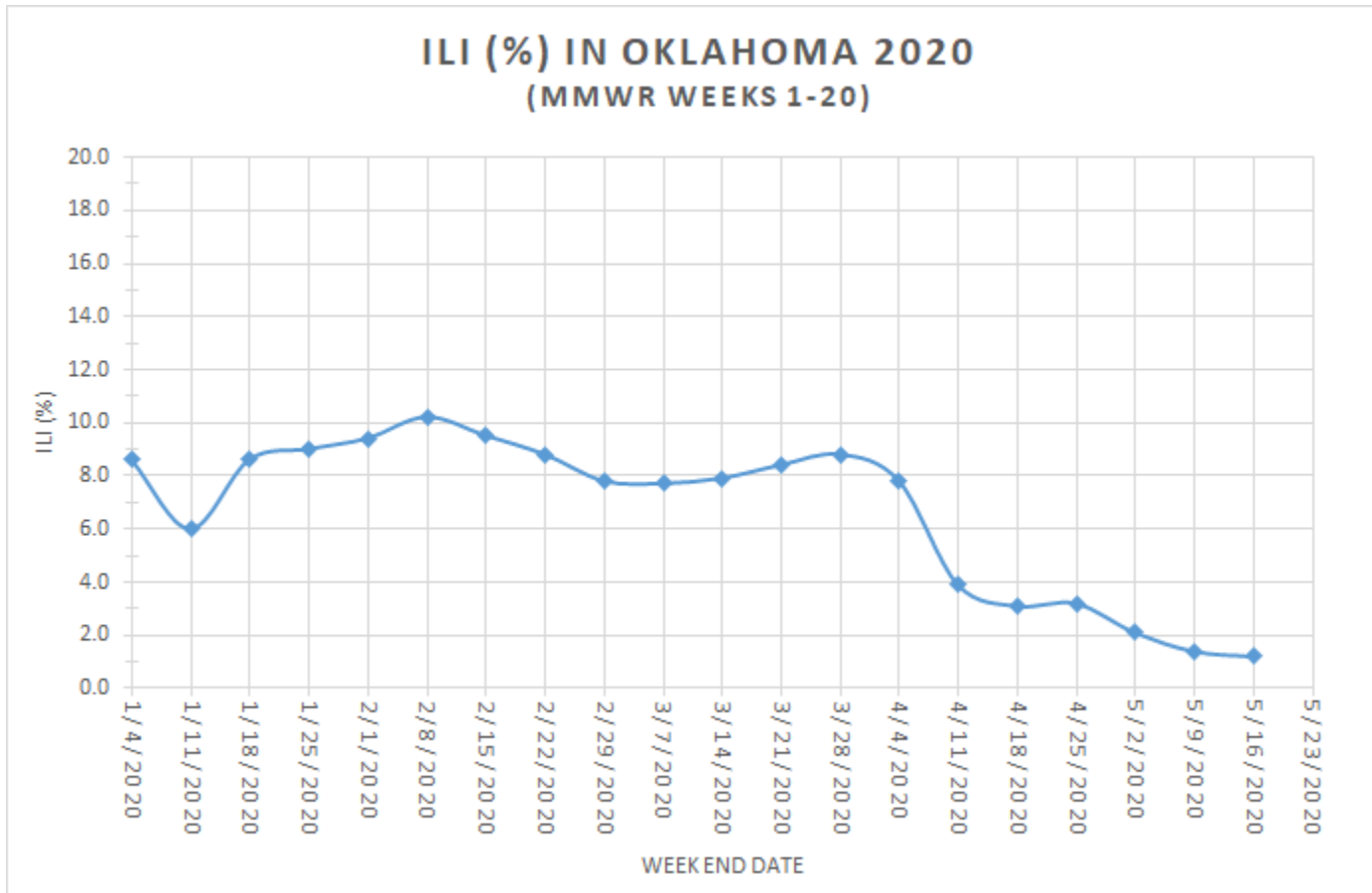


Note: A recovered case is an individual currently not hospitalized or deceased AND 14 days after the onset of symptoms

## 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

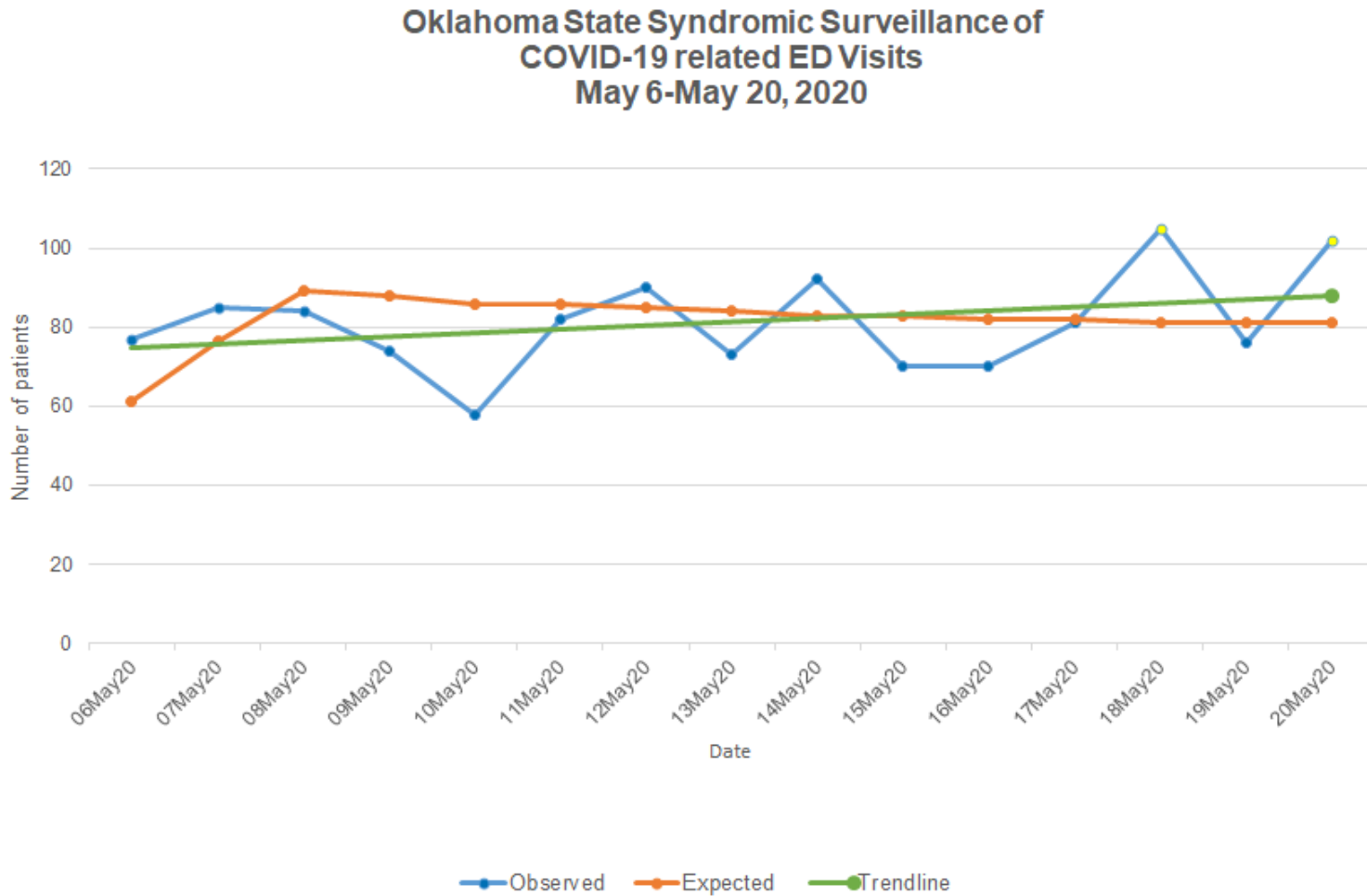


**Interpretation:** Data on Influenza-Like Illness shows a slight decline in the daily number and weekly percentage of influenza-like illness cases in the past 2 weeks.

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# 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 6-May 20, 2020



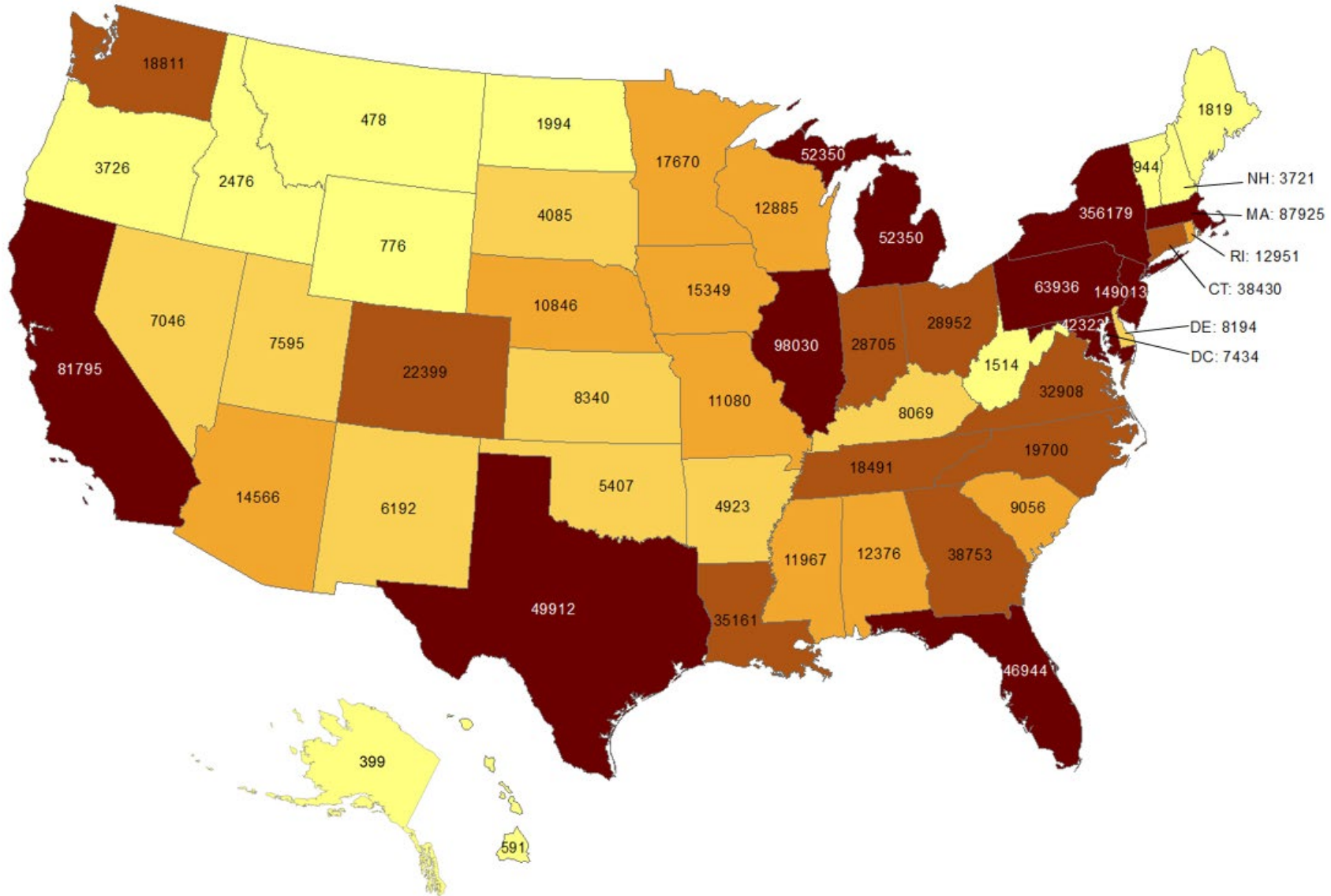
**Interpretation:** Data from syndromic surveillance shows a slight increase in the number of COVID-19 related emergency department visits in the past 2 weeks. This increase was expected as three additional Oklahoma County hospitals are now participating in this syndromic surveillance program. This change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

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# OKLAHOMA IN COMPARISON

## Total number of reported COVID-19 cases

Oklahoma ranks **38** (out of all States and DC) in the total number of reported COVID-19 cases in the US.

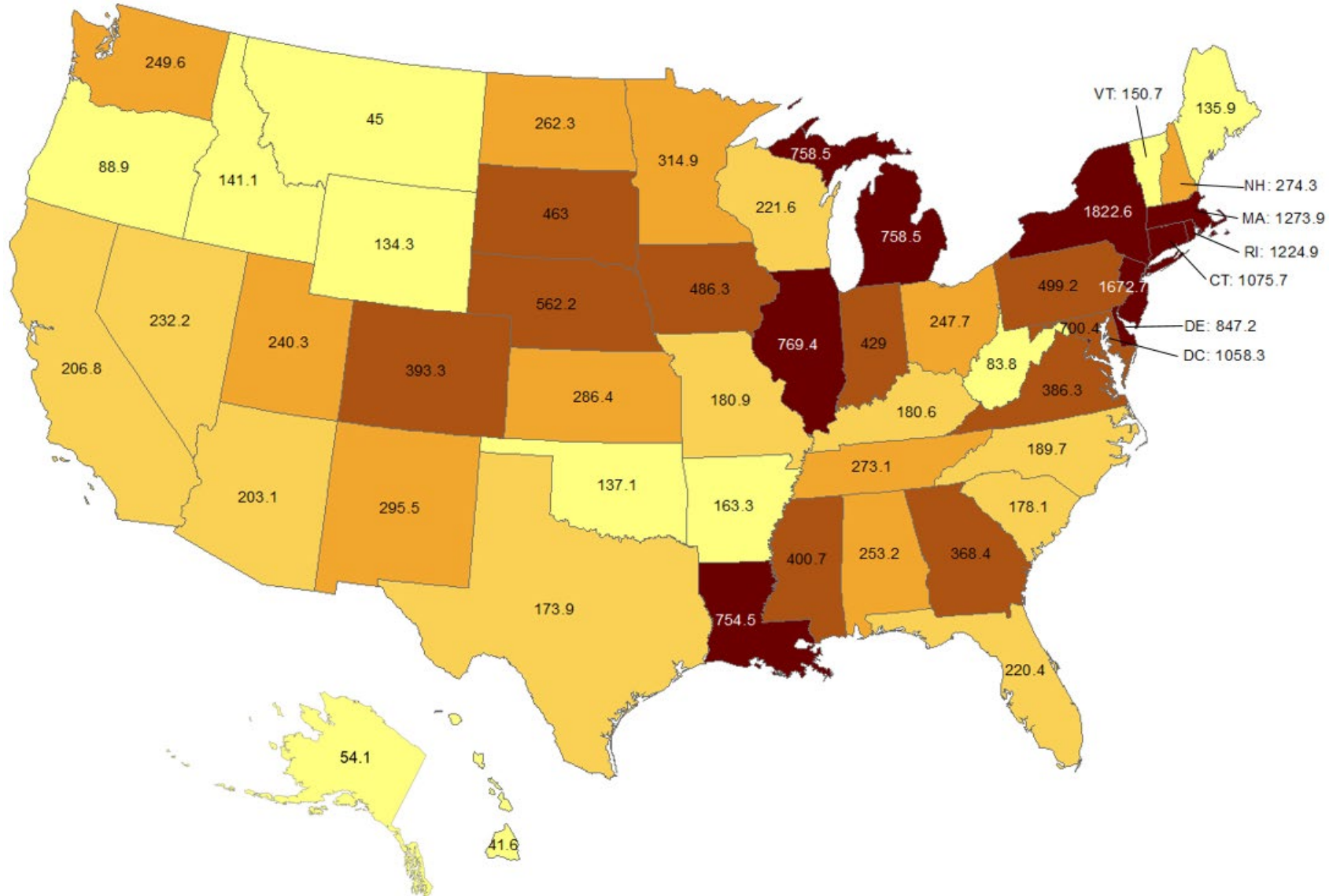


Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>

Data as of May 20, 2020

## Cumulative incidence of reported COVID-19 cases

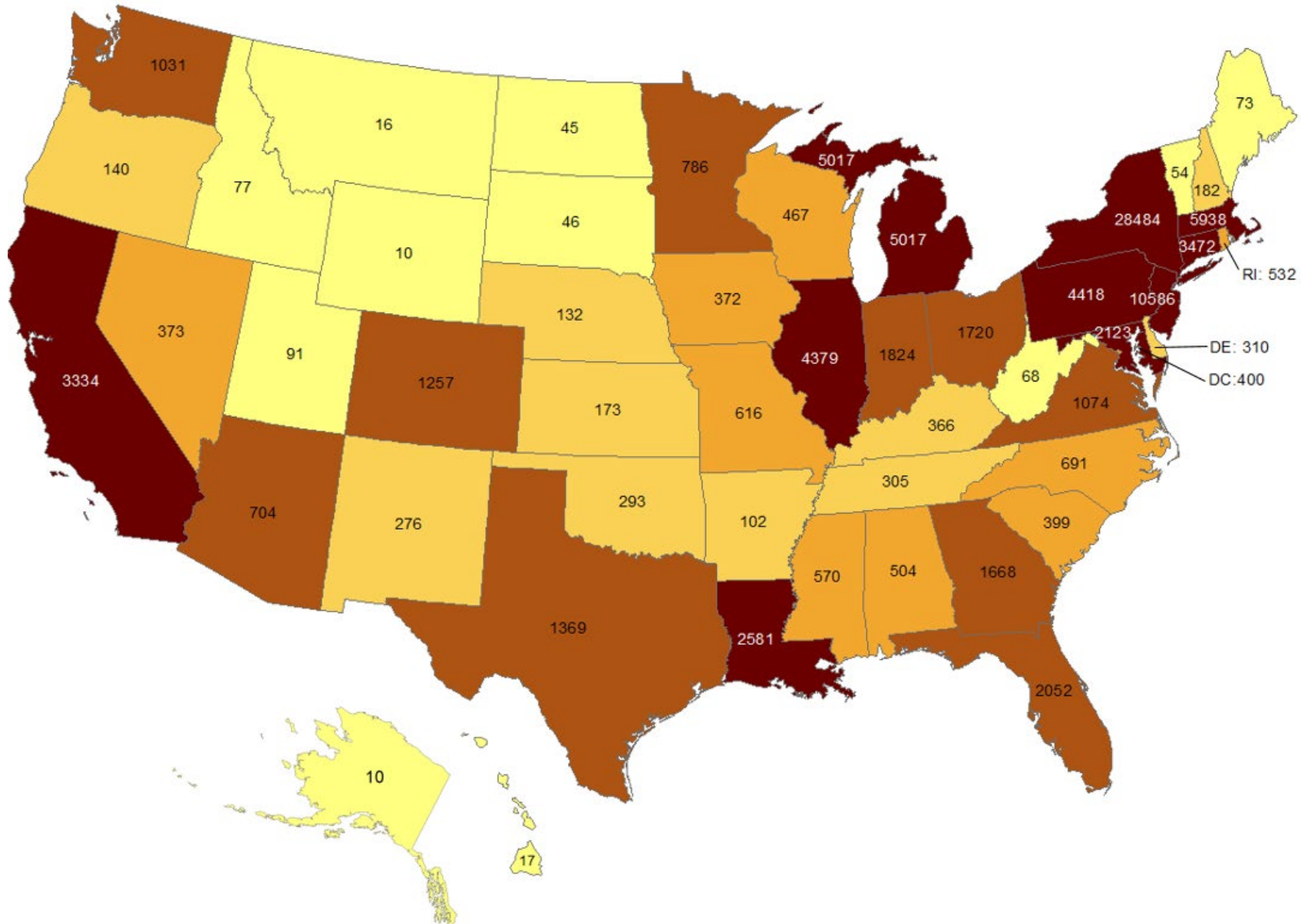
Oklahoma ranks **44** (out of all States and DC) in the cumulative incidence (per 100,000 persons) of reported COVID-19 cases in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>  
Data as of May 20, 2020

## Total number of reported COVID-19 deaths

Oklahoma ranks **34** (out of all States and DC) in the total number of reported COVID-19 deaths in the US.

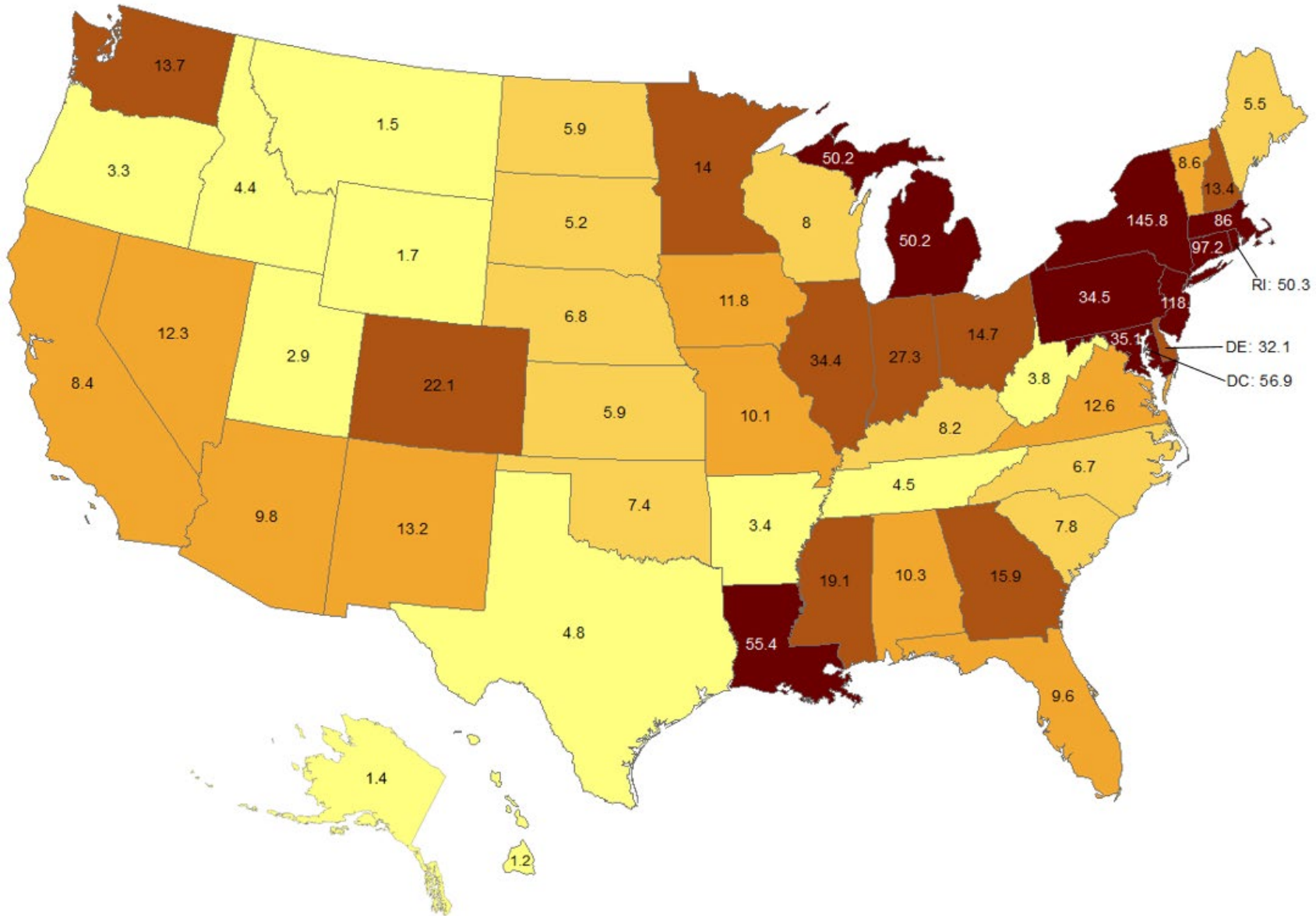


Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>  
Data as of May 20, 2020



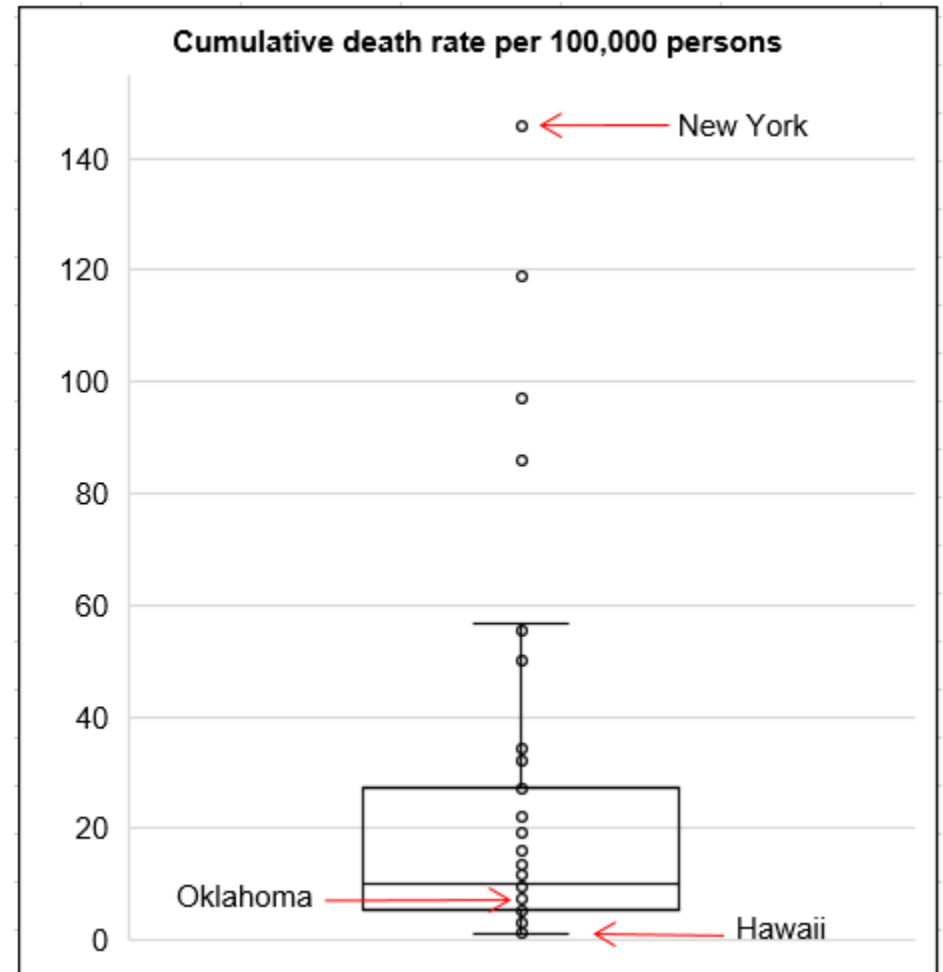
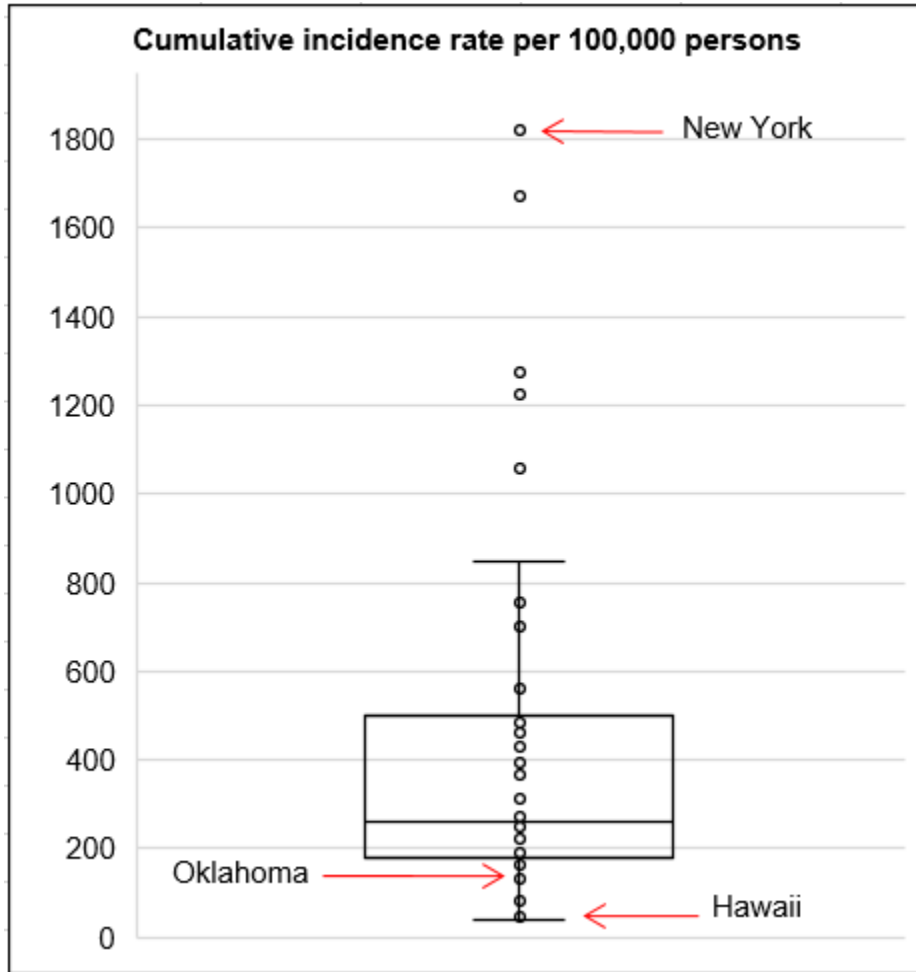
## Cumulative death rate of reported COVID-19 cases

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 13, 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.

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## **ACKNOWLEDGEMENT**

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

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## **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/>