

OKLAHOMA COVID-19 WEEKLY REPORT

Weekly Epidemiology and Surveillance Report
September 11 – September 17, 2020



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

SNAPSHOT

| | Sept 11–Sept 17 | Change ¹ | Total |
|------------------------------|-----------------|---------------------|--------|
| Cases | 6,618 | 16.7% | 73,318 |
| Recovered cases ² | 5,583 | 9.8% | 62,114 |
| Deaths | 54 | 31.7% | 930 |

1. Change from the week of Sept 4-10, 2020.

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

| Cases | | Deaths | |
|--------------------------|-----------------|--------------------------|------------------|
| Persons aged 50 and over | Females | Persons aged 50 and over | Males |
| 31% | 53% | 96% | 54% |
| of <u>cases</u> | of <u>cases</u> | of <u>deaths</u> | of <u>deaths</u> |

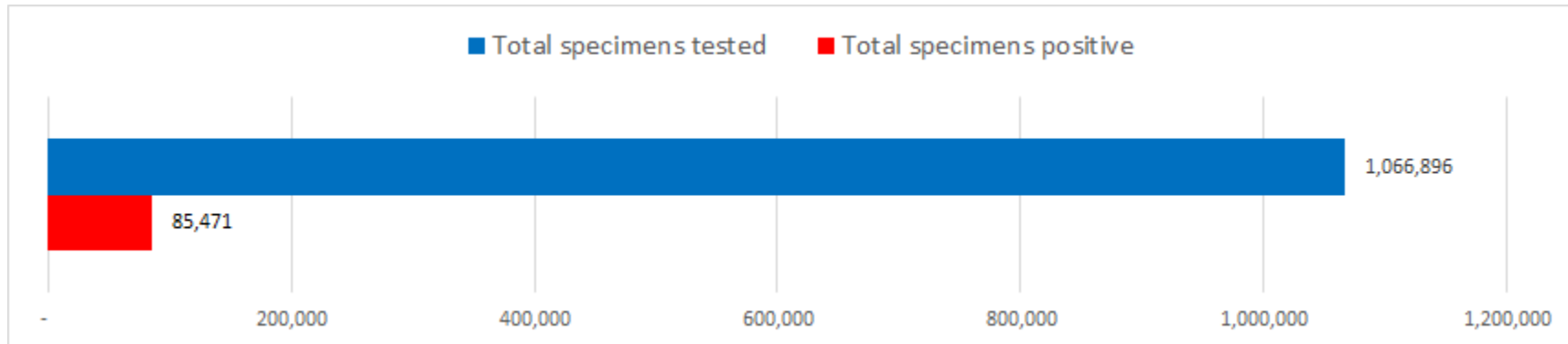
The average age of cases was **40** years.

The youngest case was **less than a year old** and the oldest case was **100+ years**.

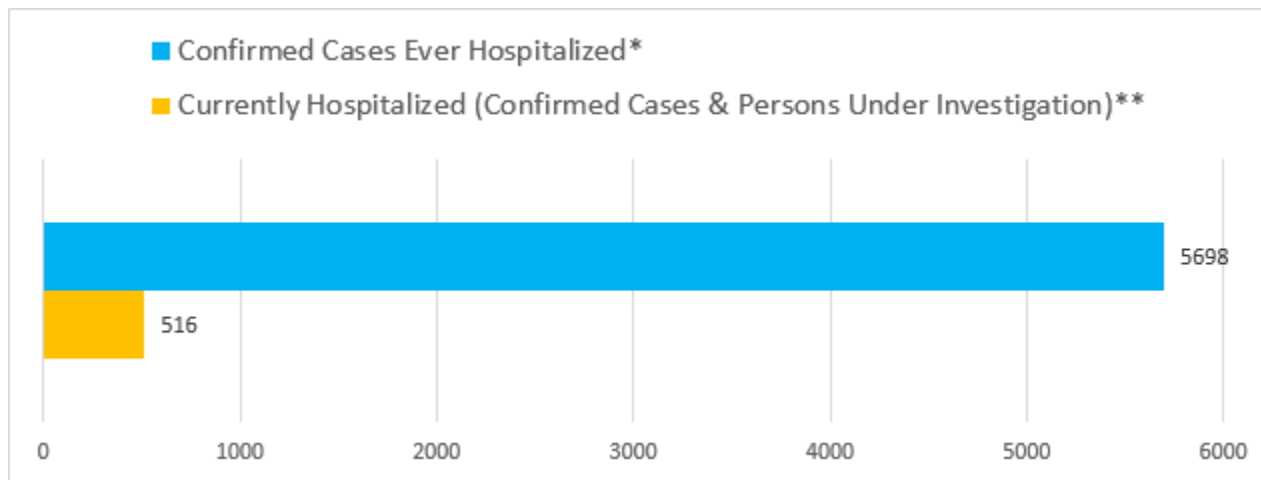
The average age of individuals who died was **75** years.

The youngest individual to die from COVID-19 was **less than 15 years** and the oldest was **100+ years**.

Testing (reported through September 17)



Hospitalizations



*Ever hospitalized includes discharged, deceased, currently hospitalized and recovered as of 9/17/2020.

**Source OSDH Beds Survey. Note, facility response rate of 95% on 9/17/2020.

KEY POINTS

- **6,618** confirmed cases were reported in the past week
16.7% increase from the week before (Sept 4-10).
 - **54** deaths were reported in the past week
31.7% increase from the week before (Sept 4-10).
 - **5,698 (7.8%)** confirmed cases have been hospitalized
 - **380** confirmed cases were reported to OSDH as hospitalized in the past week
24.6% increase from the week before (Sept 4-10)
 - **1,066,896** specimens have been tested in total
 - **77** counties (out of 77) have had at least one confirmed case of COVID-19
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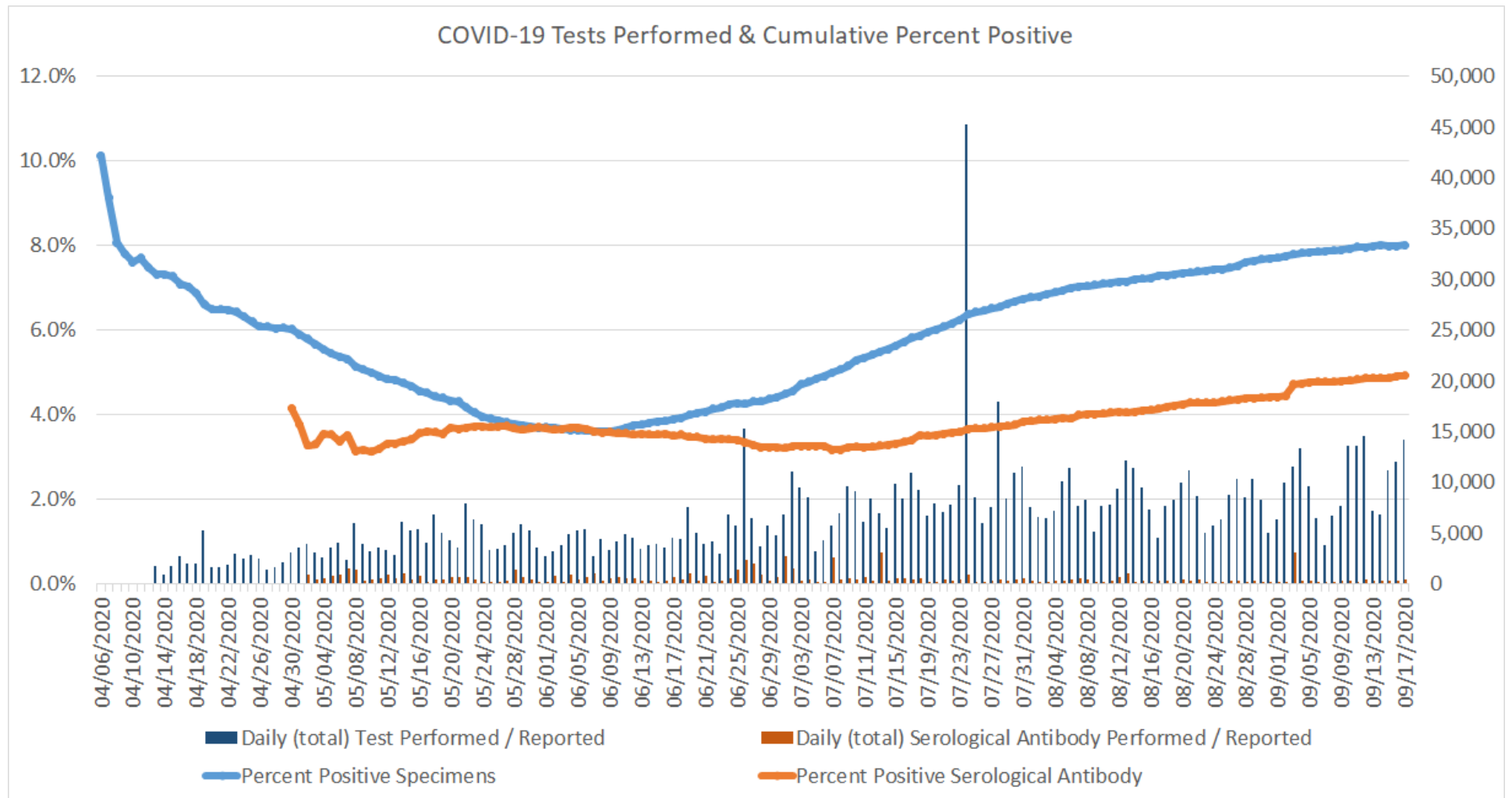
DISEASE TESTING

| | Sept 11 – Sept 17 | Total Number |
|---------------------------------------|-------------------|---------------|
| Specimens tested ¹ , count | 79,574 | 1,066,896 |
| Specimens positive, count (%) | 7,216 (9.1%) | 85,471 (8.0%) |
| Johns Hopkins positivity % | 8.4% | 7.0% |
| Antibody tested, count | 2,014 | 76,497 |
| Antibody positive, count (%) | 183 (9.1%) | 3,764 (4.9%) |

1. Includes state and private laboratories.

Note: Specimen counts may not reflect unique individuals.

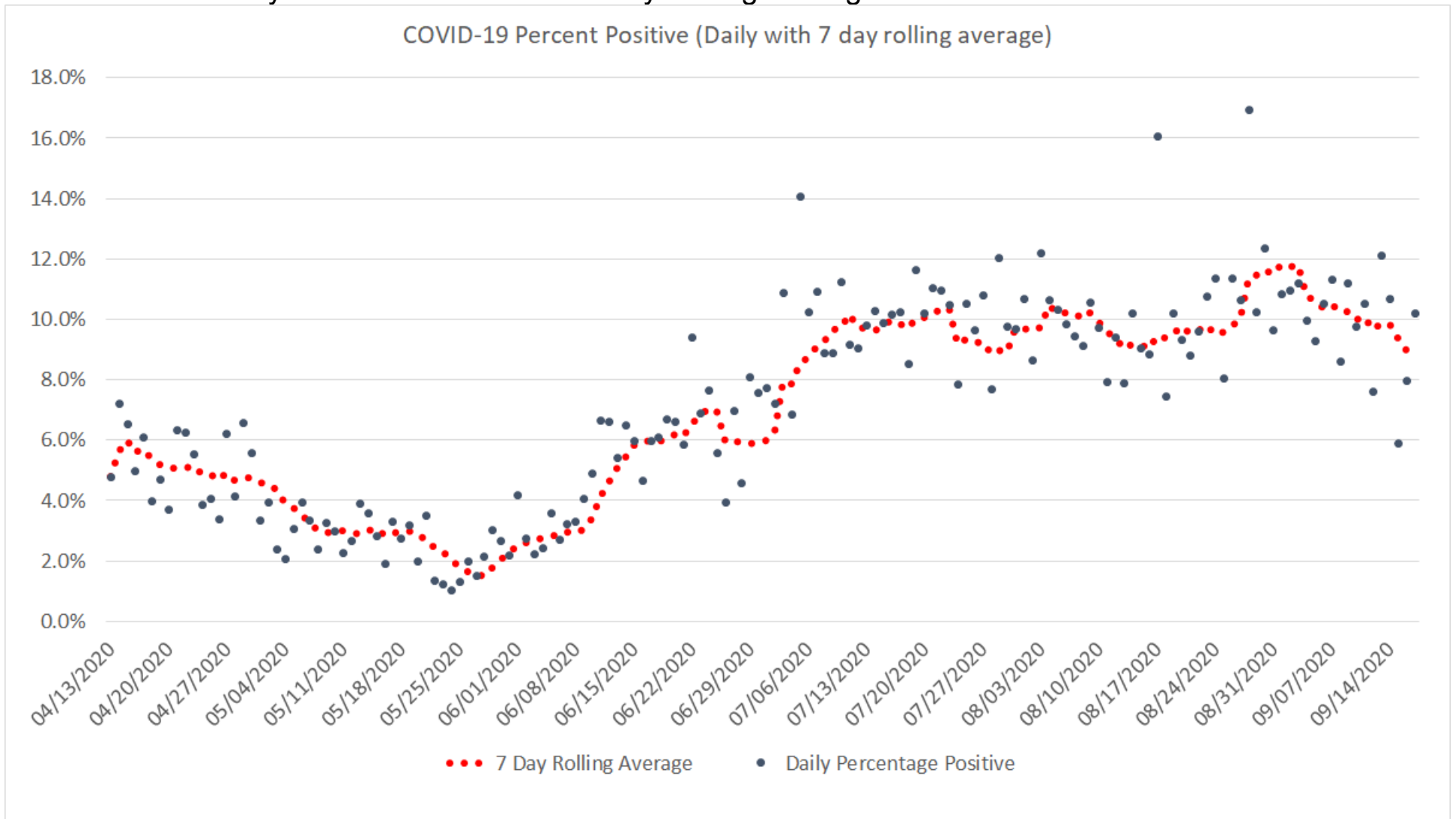
Positive tests as a percent of total tests



Oklahoma, September 17, 2020

Note: On July 24, 2020 fourteen labs began reporting to OSDH that had been testing since May 18, 2020.

Covid-19 Tests Daily Percent Positive with 7 Day Rolling Average



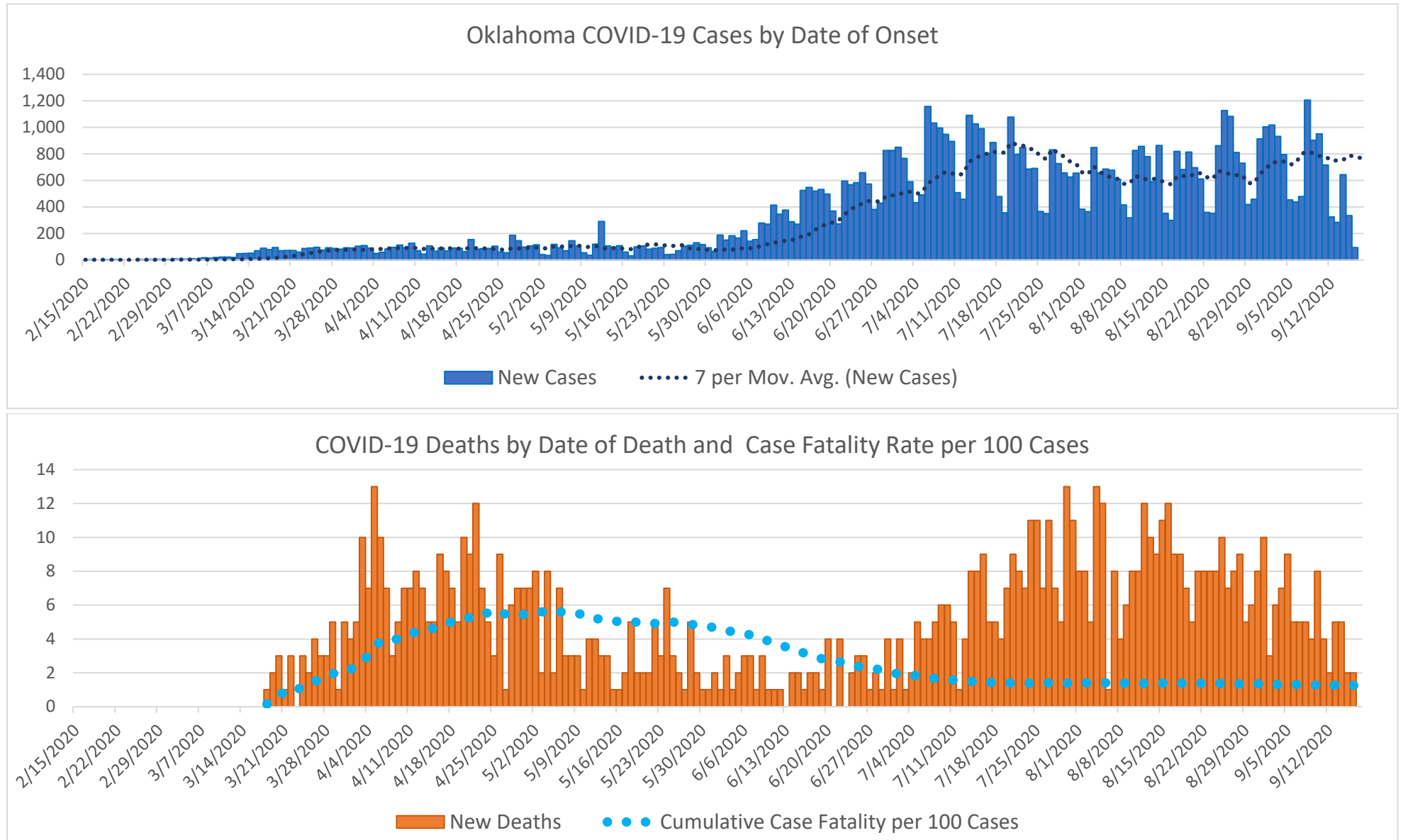
Oklahoma, September 17, 2020

EPIDEMIOLOGICAL ESTIMATES

| | Estimate | Notes / Interpretation |
|--|-----------------------------------|---|
| Cases | | |
| Cumulative incidence* | 1,859.41 (per 100,000 persons) | From March 7 to September 17, there were about 1,859 (per 100,000) new cases of COVID-19 in Oklahoma. |
| Absolute change in cumulative incidence from previous week | 24.0 (per 100,000 persons) | Compared to September 04 – September 10 there were 24 (per 100,000) more cases of COVID-19 reported in Oklahoma during the past week (Sep 11– Sep 17). |
| Disease Severity | | |
| Case-fatality risk (crude) | 1.3% | 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) | 144.5 (per 100,000 persons) | About 144 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–September 2020



Please note the different axes for new cases (top—from 0 to 1,400 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 7/19 and 7/25 where within 7 days of onset date approximately 80% 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)

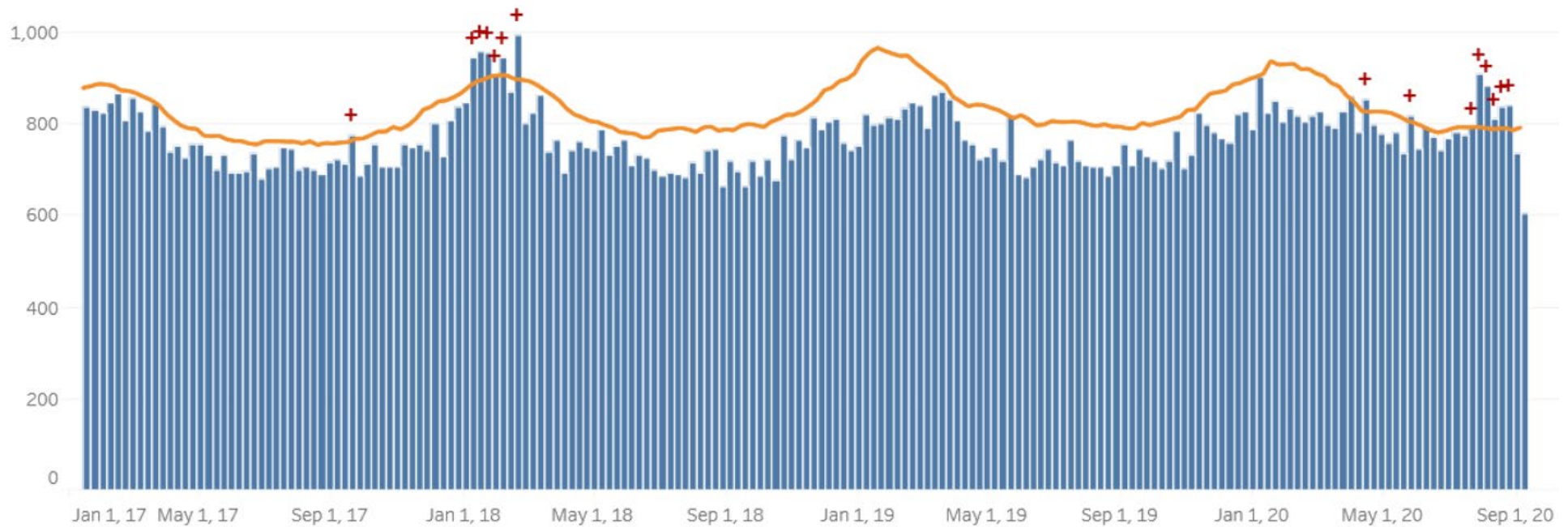
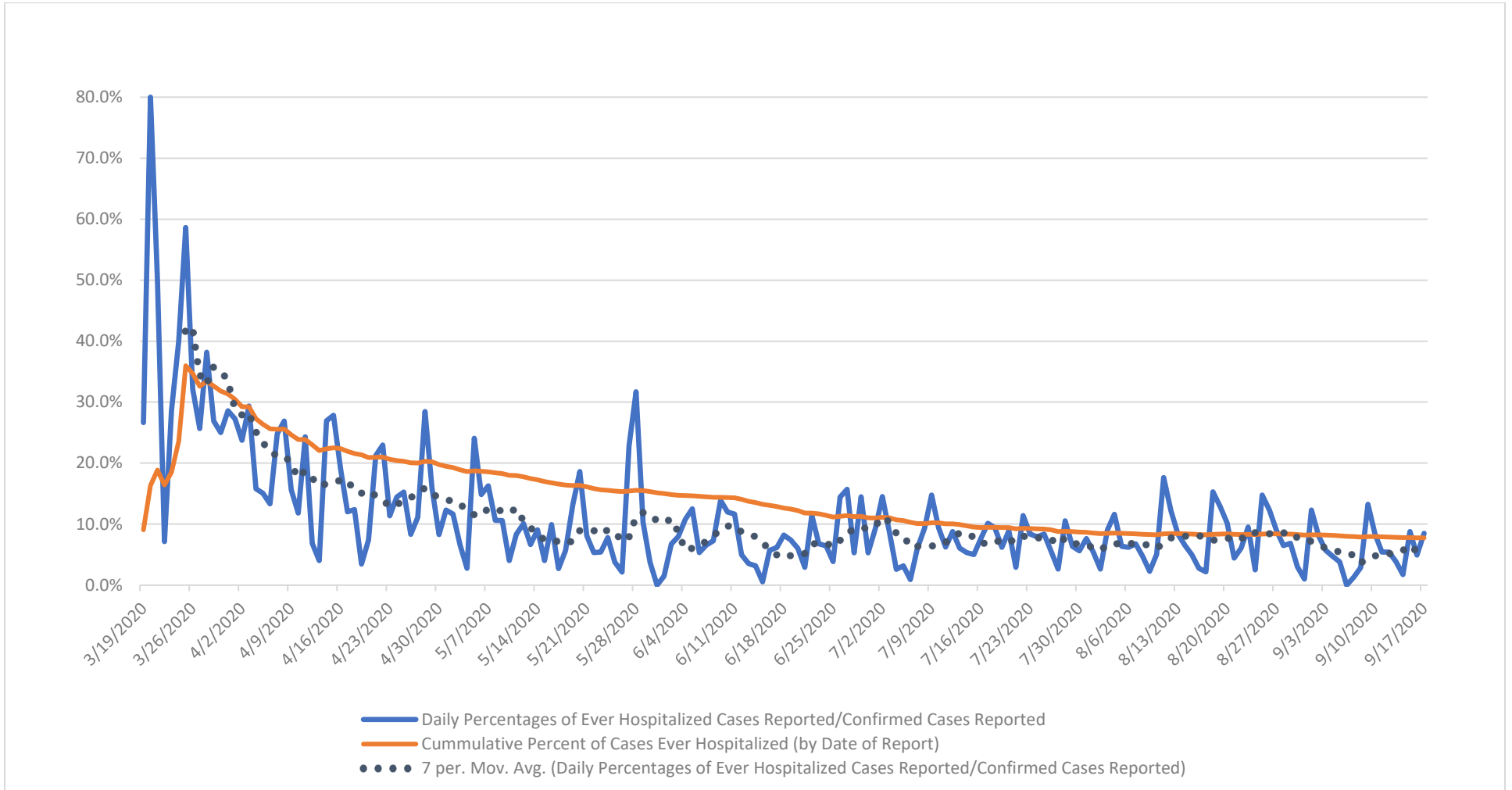


Figure notes: Contains data up to the week-ending date of September 5, 2020. Data in recent weeks are incomplete. Only 60% of the death records are submitted to NCHS within 1-days of the date of death, and completeness varies by jurisdiction.

Source: CDC, National Center for Health Statistics, https://www.cdc.gov/nchs/nvss/vsrr/covid19/excess_deaths.htm#dashboard, Sep 17, 2020 12:30pm

PERCENT OF CASES EVER HOSPITALIZED (by date of report)



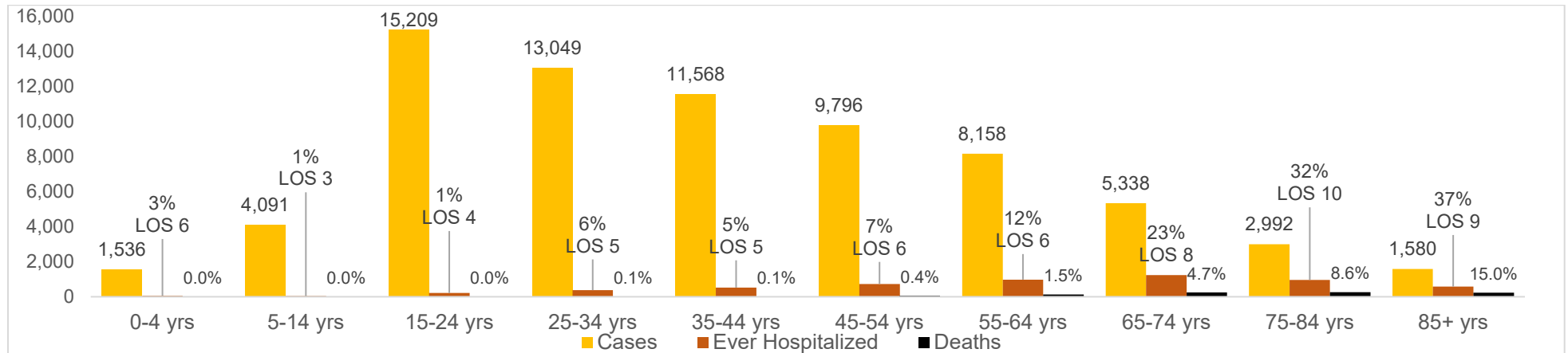
Source: OSDH Acute Disease Registry

TIME TO EVENT*

| | N | Median | 10 th to 90 th Percentile |
|--|--------|---------|---|
| Time from Symptom Onset to Test (Specimen Collection) ^{1,2} | 33,478 | 3 days | 0-10 days |
| Time from Symptom Onset to Hospitalization ^{1,3} | 3,421 | 6 days | 0-14 days |
| Length of Hospitalization Discharged Alive ⁴ | 2,647 | 5 days | 1-15 days |
| Length of Hospitalization Deceased ⁴ | 702 | 10 days | 2-25 days |
| Time from Symptom Onset to Death ^{1,5} | 579 | 15 days | 5-34 days |

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.

CUMULATIVE CASES, PERCENT HOSPITALIZED, AVERAGE LENGTH OF STAY (LOS) FOR JULY CASES AND DEATHS BY AGE GROUP



DEMOGRAPHIC INFORMATION as of September 17, 2020

| | | Cases count (%) ¹ | | Deaths count (%) ¹ | | Cumulative Incidence Rate ² | Cumulative Mortality Rate ² |
|------------------|----------------------------------|---------------------------------|---------------|----------------------------------|---------------|---|---|
| Oklahoma | | 73,318 | | 930 | | 1,859.4 | 23.6 |
| Gender | | | | | | | |
| | Male | 34,657 | (47.3) | 506 | (54.4) | 1,774.5 | 25.9 |
| | Female | 38,661 | (52.7) | 424 | (45.6) | 1,942.7 | 21.3 |
| Age group | | | | | | | |
| | Under 1- 4 | 1,536 | (2.1) | 0 | (0.0) | 589.8 | 0.0 |
| | 5-14 | 4,091 | (5.6) | 1 | (0.1) | 760.5 | 0.2 |
| | 15-24 | 15,209 | (20.7) | 1 | (0.1) | 2,827.8 | 0.2 |
| | 25-34 | 13,049 | (17.8) | 8 | (0.9) | 2,402.2 | 1.5 |
| | 35-44 | 11,568 | (15.8) | 13 | (1.4) | 2,358.9 | 2.7 |
| | 45-54 | 9,796 | (13.4) | 38 | (4.1) | 2,128.1 | 8.3 |
| | 55-64 | 8,158 | (11.1) | 124 | (13.3) | 1,653.3 | 25.1 |
| | 65-74 | 5,338 | (7.3) | 252 | (27.1) | 1,488.4 | 70.3 |
| | 75-84 | 2,992 | (4.1) | 256 | (27.5) | 1,593.9 | 136.4 |
| | 85+ | 1,580 | (2.2) | 237 | (25.5) | 2,158.6 | 323.8 |
| | Unknown | 1 | (0.0) | | | | |
| Race | | | | | | | |
| | American Indian or Alaska Native | 7,157 | (9.8) | 91 | (9.8) | 2,329.9 | 29.6 |
| | Asian or Pacific Islander | 2,575 | (3.5) | 21 | (2.3) | 2,907.9 | 23.7 |
| | Black or African American | 5,124 | (7.0) | 57 | (6.1) | 1,781.1 | 19.8 |
| | Multiracial/Other | 2,882 | (3.9) | 29 | (3.1) | 696.5 | 7.0 |
| | White | 41,230 | (56.2) | 674 | (72.5) | 1,448.7 | 23.7 |
| | Unknown | 14,350 | (19.6) | 58 | (6.2) | | |
| Ethnicity | | | | | | | |
| | Hispanic or Latino | 13,232 | (18.0) | 63 | (6.8) | 3,083.8 | 14.7 |
| | Not Hispanic or Latino | 44,327 | (60.5) | 758 | (81.5) | 1,261.4 | 21.6 |
| | Unknown | 15,759 | (21.5) | 109 | (11.7) | | |

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

2. Rate per 100,000 population

HEALTHCARE & NON-HEALTHCARE

| Status | Non-Healthcare Worker count (%)* | Healthcare Worker count (%)* |
|--------------|----------------------------------|------------------------------|
| Active | 9,935 (14.3) | 339 (8.9) |
| Deceased | 920 (1.3) | 10 (0.3) |
| Recovered | 58,640 (84.4) | 3,474 (90.9) |
| Total | 64,495 | 3,823 |

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

CASES & DEATHS BY LONG-TERM CARE AND CORRECTIONAL FACILITIES

| | Cases | Deaths |
|--|--------------|------------|
| LTCF¹ | | |
| Residents | 2,441 | 378 |
| Staff | 1,431 | 3 |
| Total | 3,872 | 381 |
| Correctional Facilities² | | |
| Inmates | 1,634 | 7 |
| Staff | 344 | 2 |
| Total | 1,978 | 9 |

1. Long term care facility or nursing home

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

AGE DISTRIBUTION OF NEW CASES/DEATHS CONFIRMED FROM SEPTEMBER 11 – 17

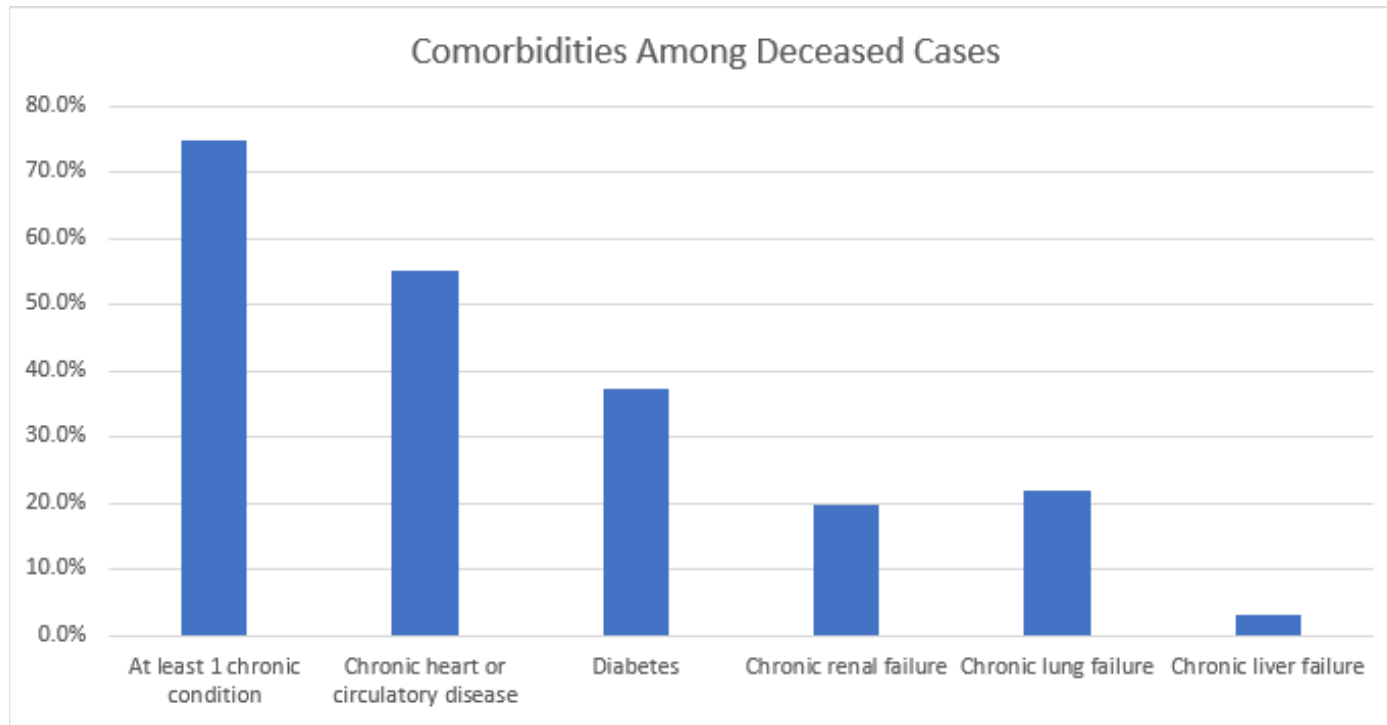
| Age group | New Cases* | Percentage | New Deaths | Percentage |
|------------|-------------|--------------|------------|--------------|
| Under 1- 4 | 93 | 1.4% | 0 | 0.0% |
| 5-14 | 393 | 5.9% | 0 | 0.0% |
| 15-24 | 1681 | 25.4% | 0 | 0.0% |
| 25-34 | 1080 | 16.3% | 0 | 0.0% |
| 35-44 | 999 | 15.1% | 0 | 0.0% |
| 45-54 | 833 | 12.6% | 0 | 0.0% |
| 55-64 | 718 | 10.8% | 9 | 16.7% |
| 65-74 | 456 | 6.9% | 17 | 31.5% |
| 75-84 | 231 | 3.5% | 13 | 24.1% |
| 85+ | 134 | 2.0% | 15 | 27.8% |

*One case this week has an unknown age.

COMORBIDITIES AMONG DECEASED CASES

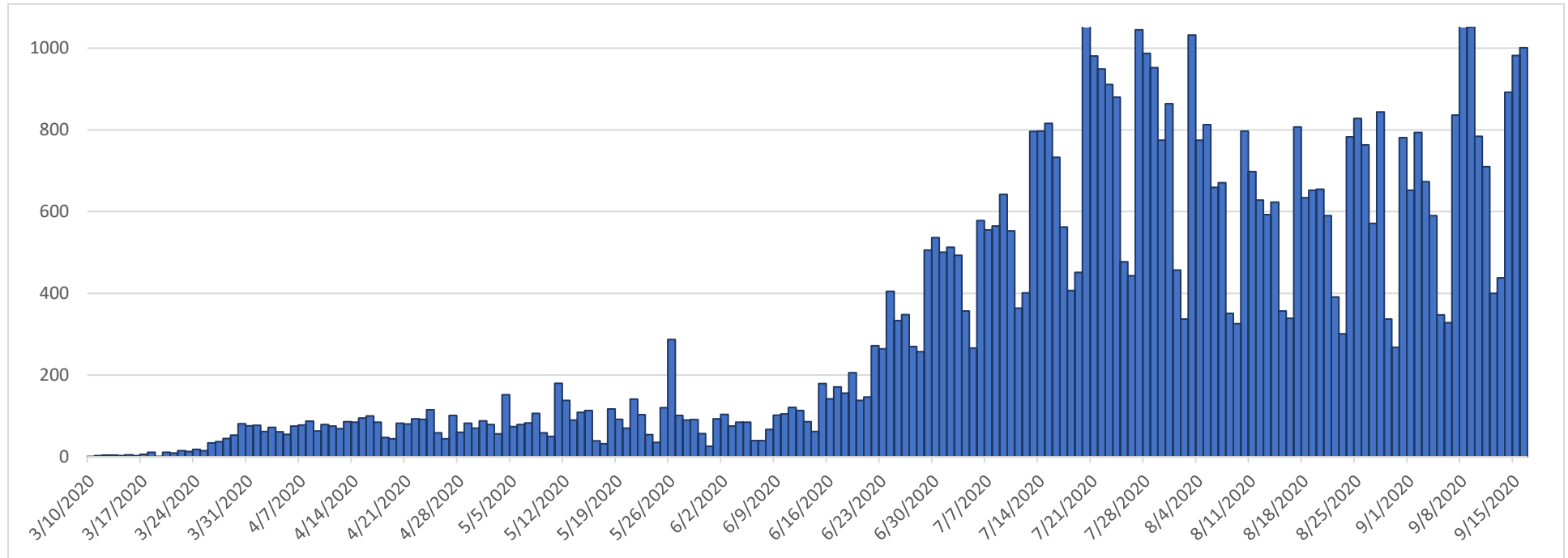
| Comorbidities | Number (%) |
|--------------------------------------|------------|
| At least 1 chronic condition* | 697 (74.9) |
| Chronic heart or circulatory disease | 512 (55.1) |
| Diabetes | 346 (37.2) |
| Chronic renal failure | 184 (19.8) |
| Chronic lung failure | 205 (22.0) |
| Chronic liver failure | 29 (3.1) |

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



RECOVERED CASES

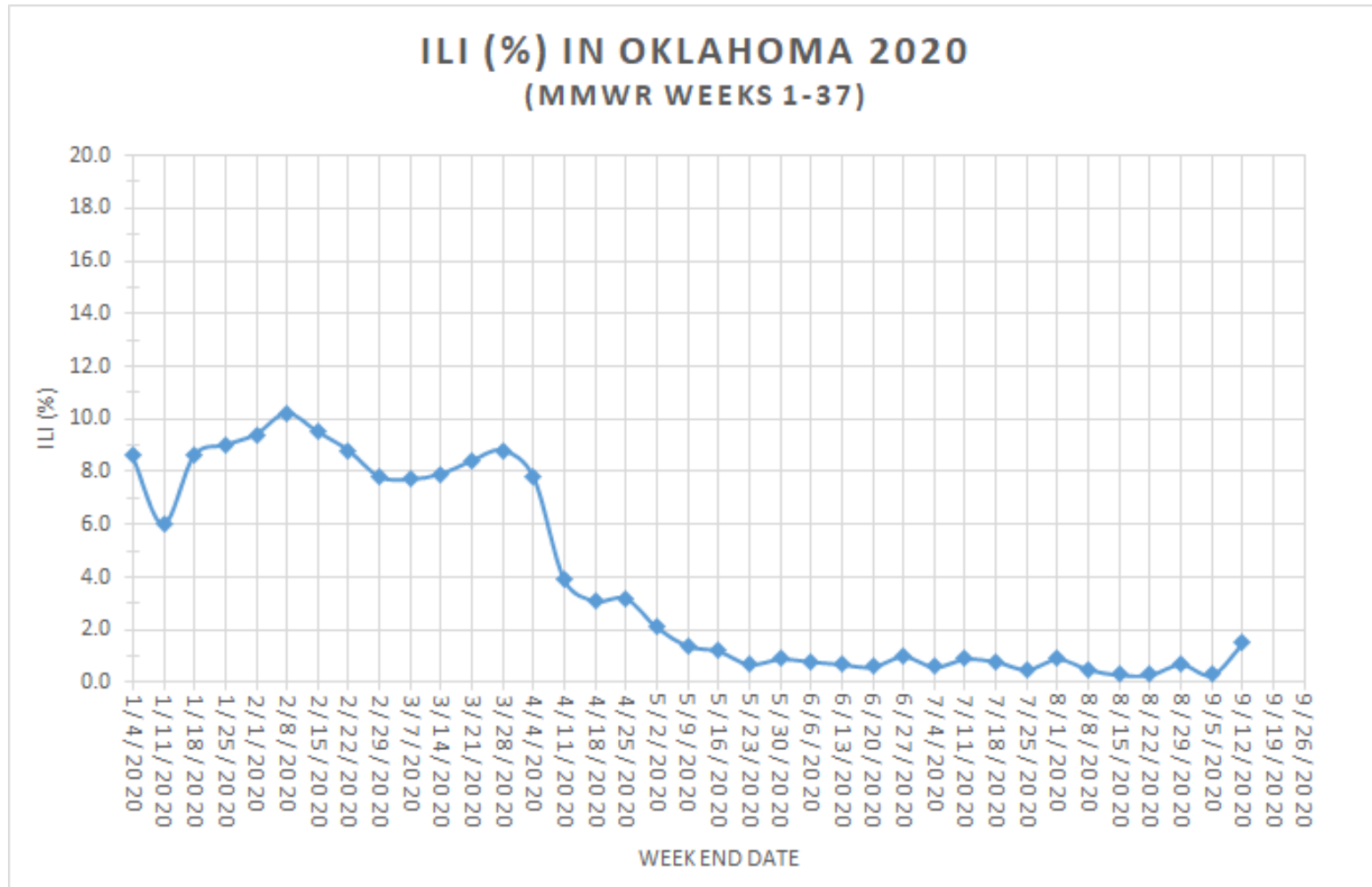
Distribution of recovered cases of COVID-19, March-September 2020, Oklahoma



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

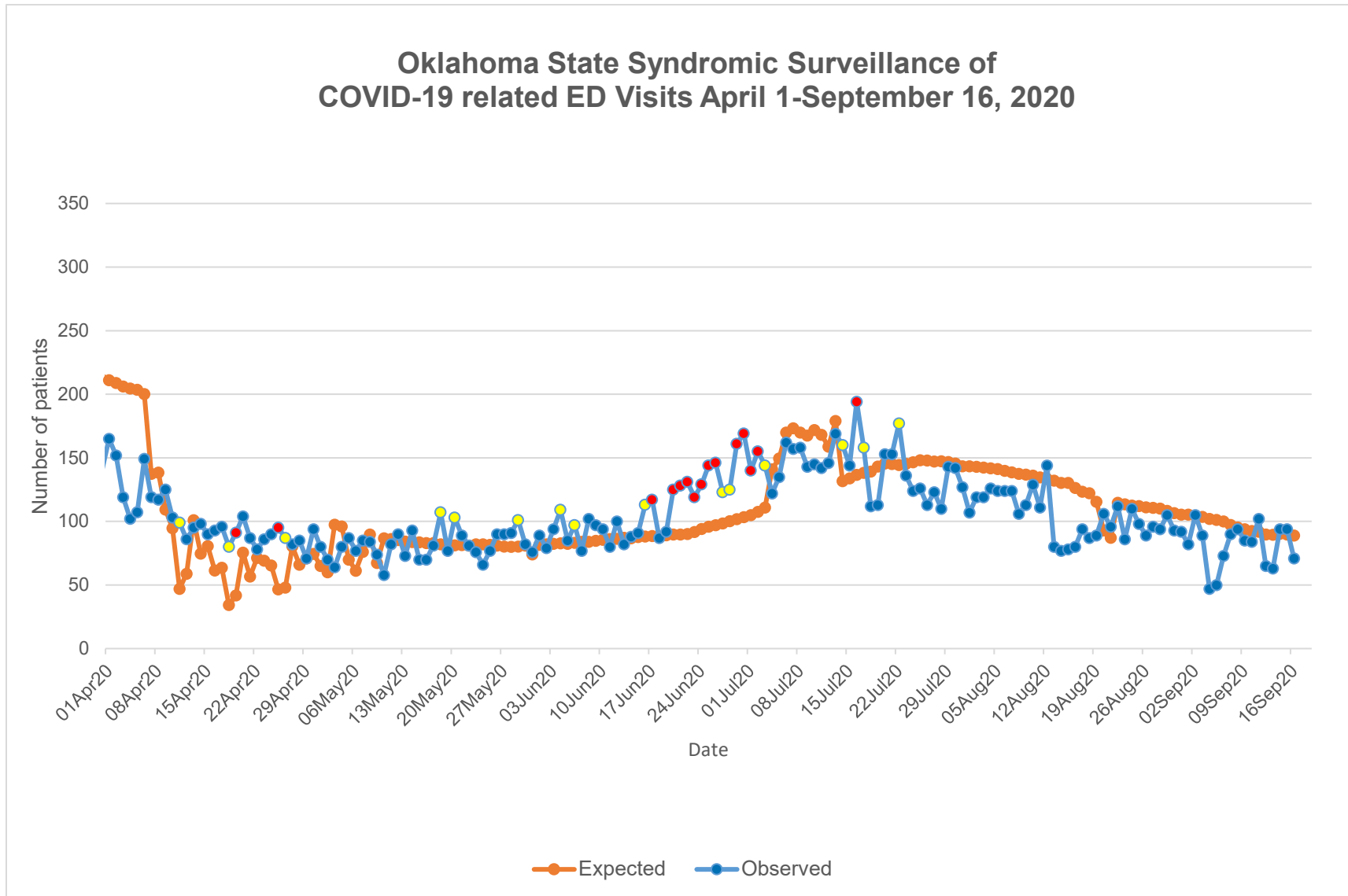
Symptoms Criteria

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



Interpretation: Data on Influenza-Like Illness has increased slightly indicating elevated incidence of outpatient visits exhibiting fever and cough or sore throat. This week's value of 1.5% is below Oklahoma's baseline ILI of 3.8%.

COVID-19 Related Emergency Department Visits

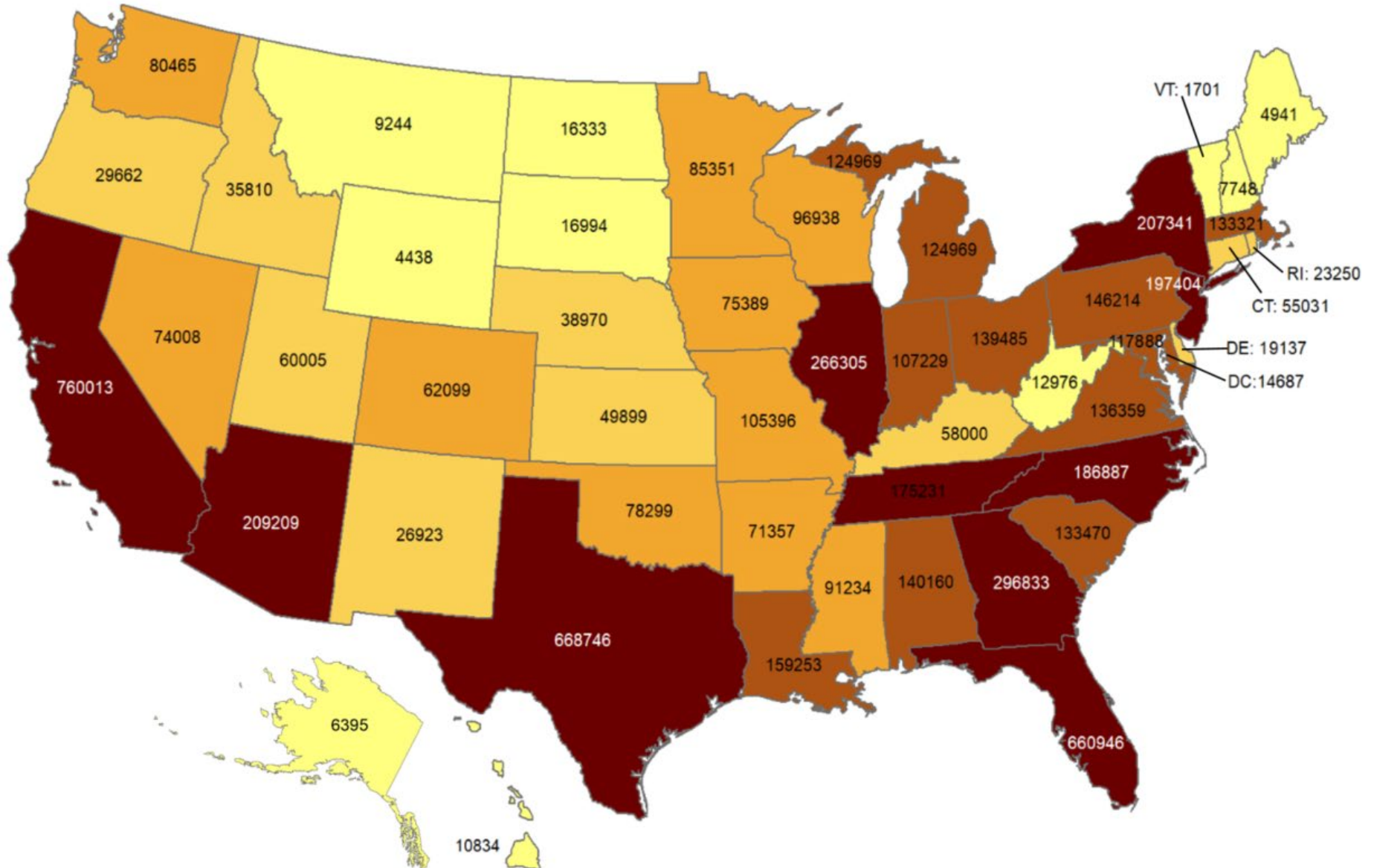


Interpretation: Data from syndromic surveillance shows that the number of COVID-19 related emergency department visits has been in the expected range for in the past 2 weeks as indicated by the blue dots on the observed line.

OKLAHOMA IN COMPARISON

Total number of reported COVID-19 cases

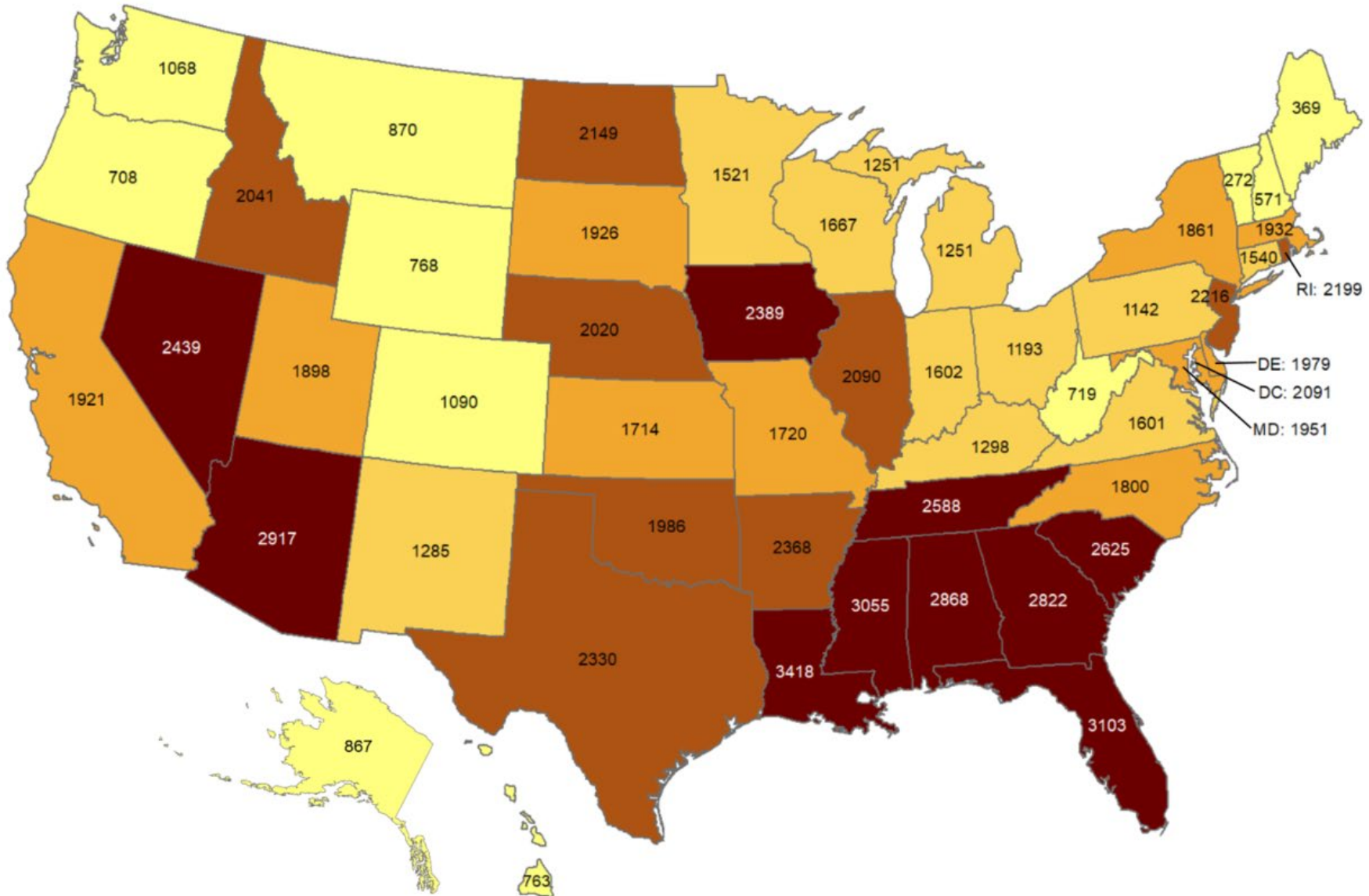
Oklahoma ranks **26** (out of all States and DC) in the total number of reported COVID-19 cases in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of September 16, 2020

Cumulative incidence of reported COVID-19 cases

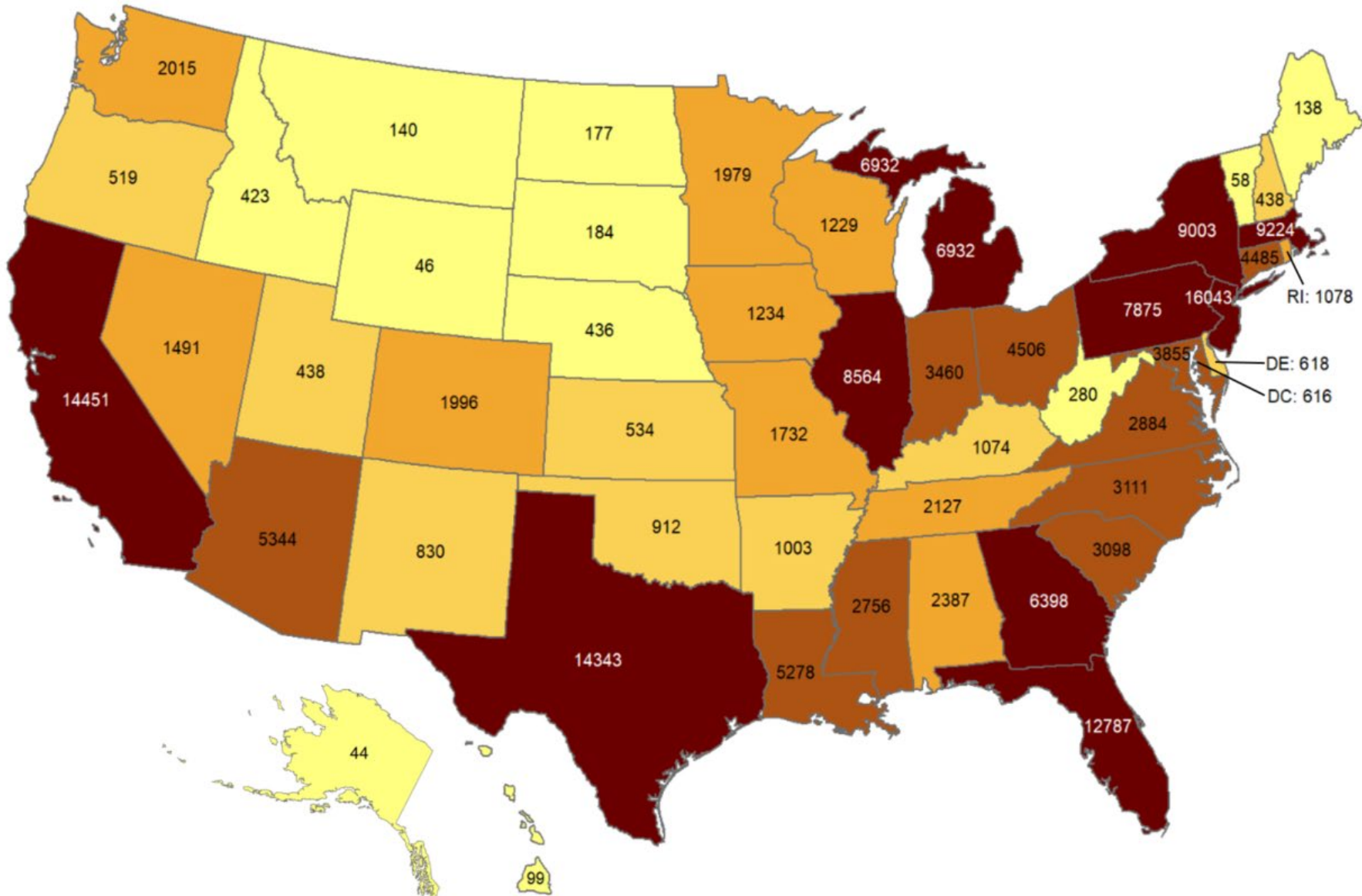
Oklahoma ranks **20** (out of all States and DC) in the cumulative incidence (per 100,000 persons) of reported COVID-19 cases in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of September 16, 2020

Total number of reported COVID-19 deaths

Oklahoma ranks **33** (out of all States and DC) in the total number of reported COVID-19 deaths in the US.



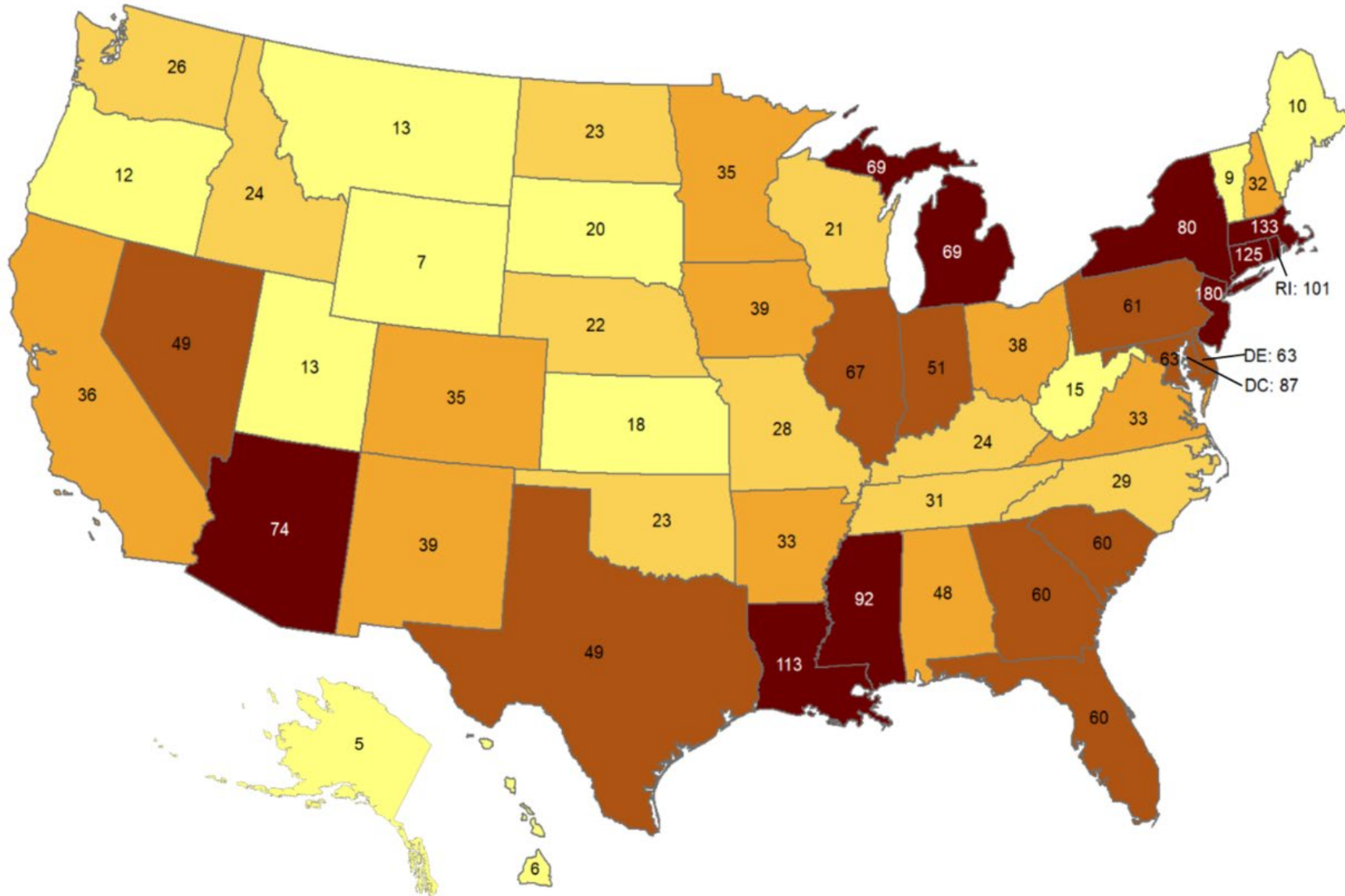
Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>

Data as of September 16, 2020

NOTE: CDC numbers include both Confirmed and Probable cases whereas the OSDH counts are limited to Confirmed cases.

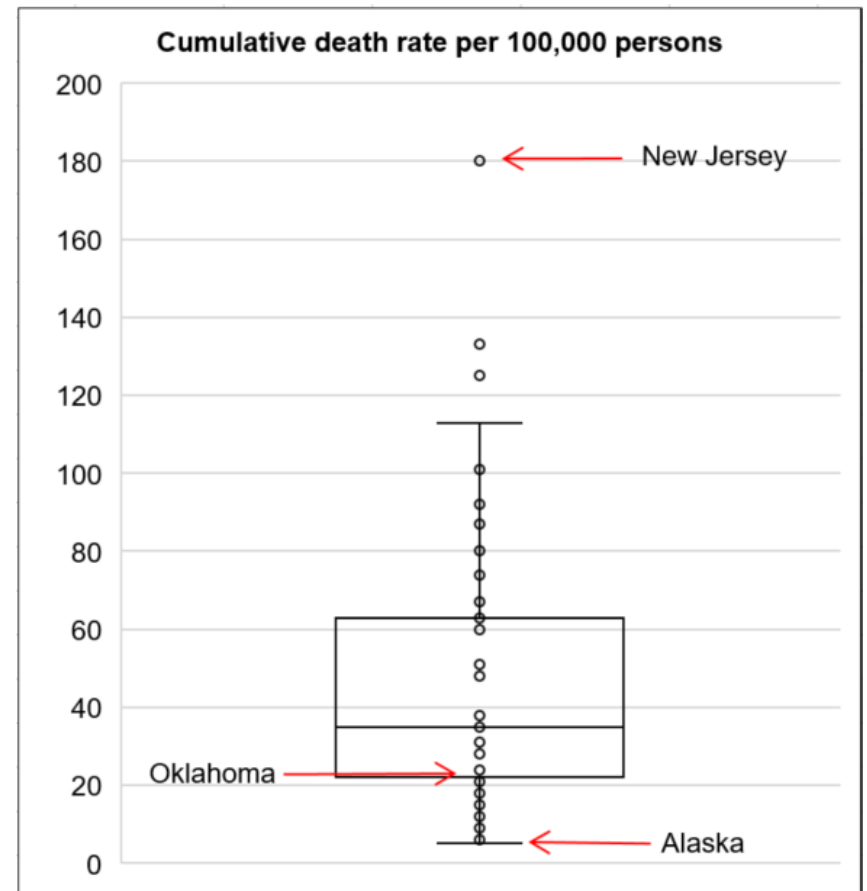
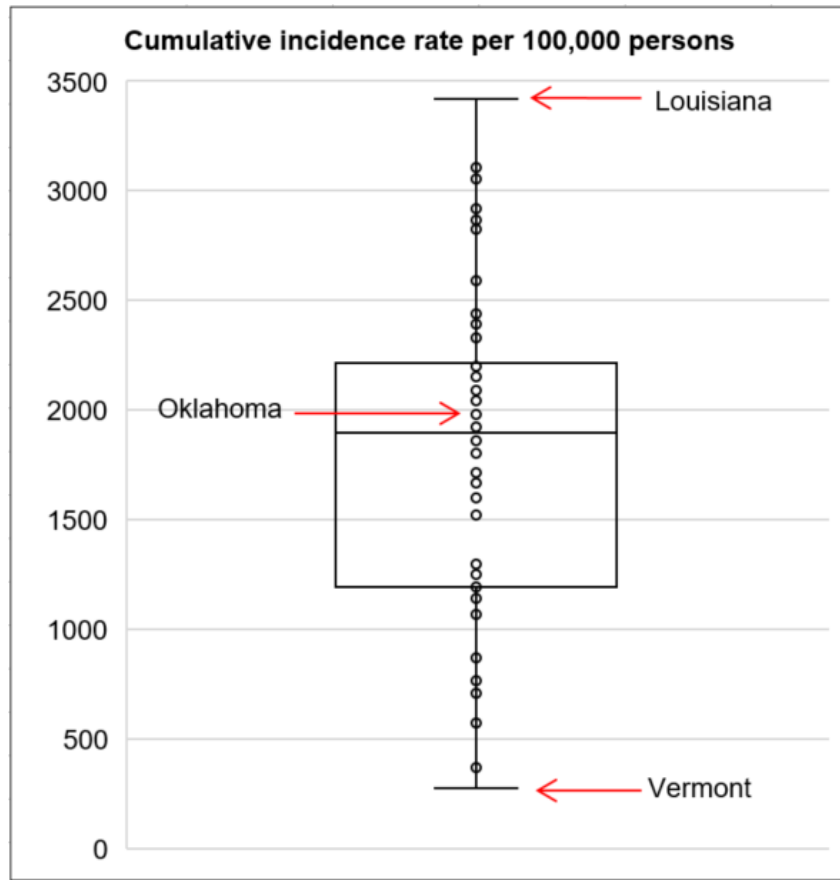
Cumulative death rate of reported COVID-19 cases

Oklahoma ranks **37** (out of all States and DC) in the cumulative death rate (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 September 16, 2020

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



Interpretation: Oklahoma has cumulative incidence that is **above the median** of the US 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/>

DISCLAIMER

The purpose of publishing aggregated statistical COVID-19 data through the OSDH Dashboard, the Executive Order Report, and the Weekly Epidemiology and Surveillance Report is to support the needs of the general public in receiving important and necessary information regarding the state of the health and safety of the citizens of Oklahoma. These resources may be used only for statistical purposes and may not be used in any way that would determine the identity of any reported cases.