

OKLAHOMA COVID-19 WEEKLY REPORT

Weekly Epidemiology and Surveillance Report
October 30 – November 6, 2021



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

SNAPSHOT

	Oct 30 – Nov 6	Change ¹	Total
Cases	4,652	n/a	650,004
Recovered cases ²	4,867	n/a	632,942
Deaths	132	n/a	11,011

1. Due to a change in data processing which occurred, last week's report only included 6 days worth of data and this week's report includes 8 days worth of data. As such, the percent change was not calculated for this week.

2. Not deceased and 14 days after symptom onset/specimen collection. Please note that the definition for recovered was changed starting May 4, 2021 due to incomplete data on hospitalization which may result in an inaccurate estimation of the active cases.

Author's Note:
In order to provide the most relevant data regarding COVID-19, some components of this report have been removed. Most of these components presented data that were stable and did not change significantly week to week. OSDH will continue to monitor these data and will resume reporting them if warranted.

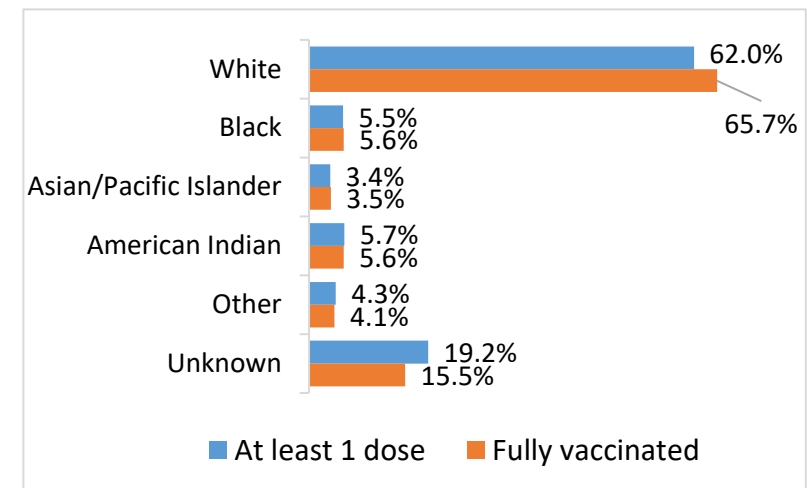
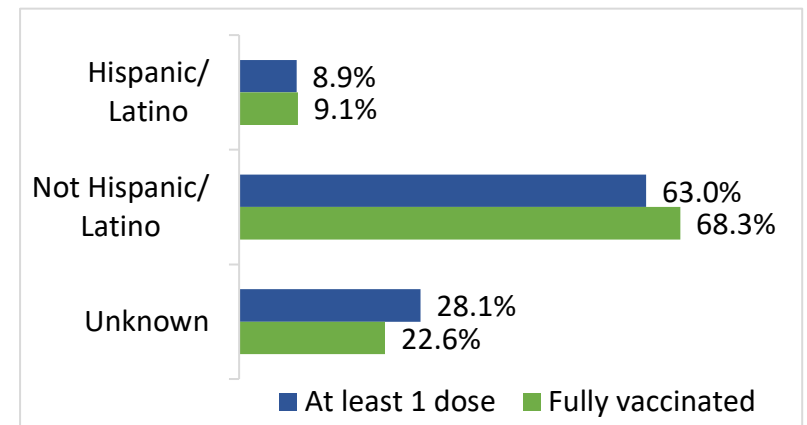
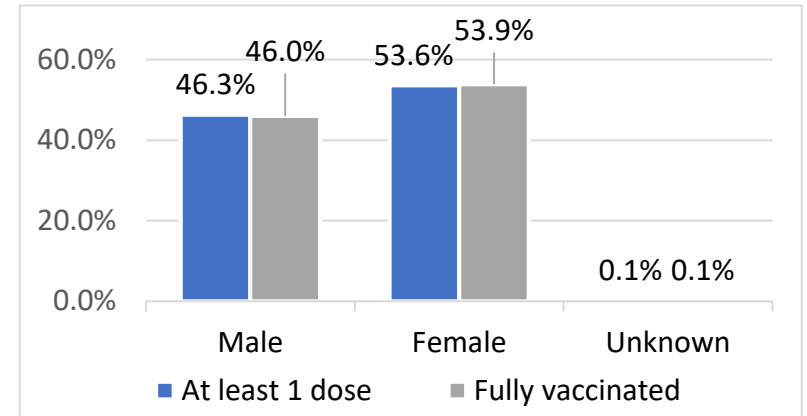
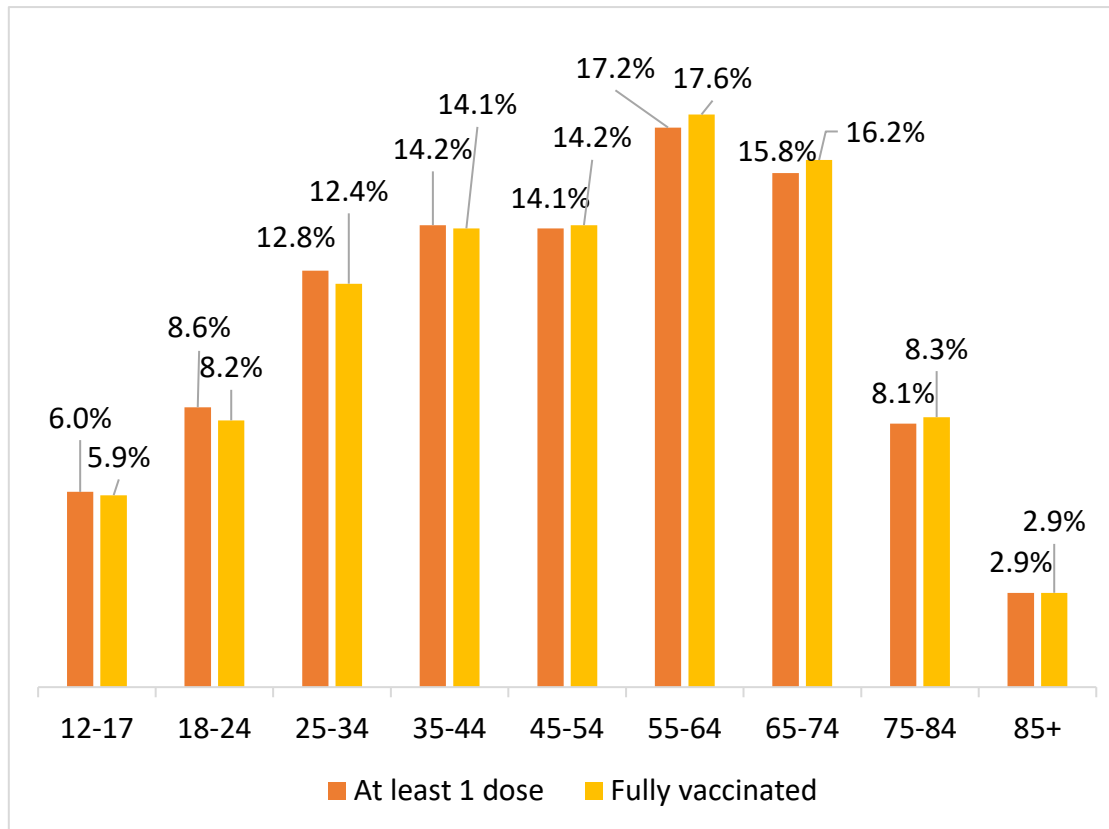
KEY POINTS

- **4,652** cases were reported in the last week
- **132** deaths were reported in the past week.
- The cumulative crude case-fatality risk is **1.7%**
- **36,749 (5.7%)** cases have been hospitalized. The cumulative hospitalization rate is **928.7 per 100,000 persons**.
- ***10,708** specimens have been tested over the last 7 days according to the CDC COVID data tracker. *Recent testing data was not available within the most current CDC data.
- **3,777,502** vaccine doses have been administered in total

COVID-19 VACCINE DATA BY TOTAL AND KEY METRICS

	Nov 2 – Nov 8	Total Number
Doses Administered ¹	72,238	3,777,502
At least 1 dose ²	17,526	1,953,777
Fully vaccinated ³	12,518	1,683,842

1. Doses administered amount does not include doses administered by federal entities in Oklahoma.
2. At least one does refers to individuals receiving Pfizer and Moderna COVID-19 vaccines and/or receiving single shot of J&J/Janssen Vaccine.
3. Fully vaccinated refers to individuals fully vaccinated after receiving either Pfizer and/or Moderna COVID-19 vaccines (both doses) and/or receiving single shot of J&J/Janssen Vaccine.

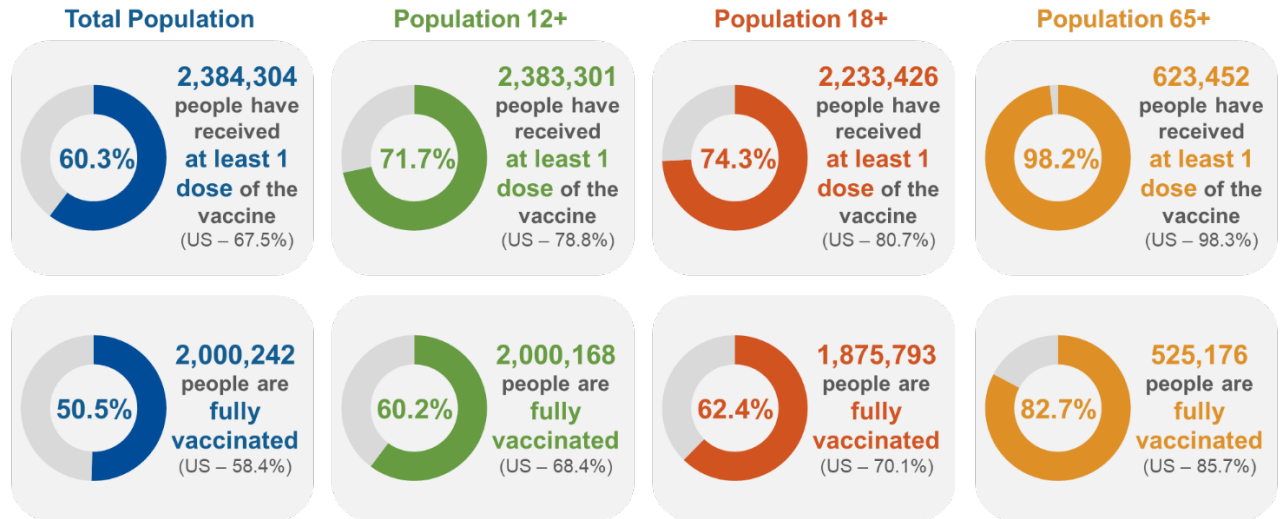


Source: COVID-19 Vaccination Reporting Specification Dataset Oklahoma State Immunization Information System (OSIIS). Data reflect information entered as of 11:59PM 11/8/2021. Data does not include doses administered by federal entities in Oklahoma

COVID-19 VACCINATIONS IN OKLAHOMA - FEDERAL AND STATE, AS OF NOVEMBER 8, 2021

	Count*	Adult Rate per 100K
Total Doses Administered	4,602,420	143,949
Additional doses (booster/3rd) Administered	254,980	na

*Includes state and federal administered doses.



Percent of 12+ Population with At Least 1 Dose- Oklahoma Counties

County	At Least 1 Dose (%)	County	At Least 1 Dose (%)	County	At Least 1 Dose (%)	County	At Least 1 Dose (%)	County	At Least 1 Dose (%)
Adair	51.5%	Cotton	61.6%	Jackson	68.2%	McIntosh	65.3%	Roger Mills	42.9%
Alfalfa	53.0%	Craig	67.1%	Jefferson	52.5%	Murray	54.7%	Rogers	56.8%
Atoka	42.5%	Creek	53.4%	Johnston	52.6%	Muskogee	67.7%	Seminole	65.7%
Beaver	39.2%	Custer	61.2%	Kay	53.5%	Noble	76.7%	Sequoyah	51.1%
Beckham	51.5%	Delaware	50.5%	Kingfisher	60.2%	Nowata	57.0%	Stephens	59.4%
Blaine	58.8%	Dewey	32.0%	Kiowa	64.8%	Okfuskee	56.0%	Texas	57.2%
Bryan	53.1%	Ellis	43.3%	Latimer	40.2%	Oklahoma	83.5%	Tillman	61.4%
Caddo	77.8%	Garfield	63.6%	LeFlore	47.5%	Okmulgee	52.5%	Tulsa	77.7%
Canadian	73.5%	Garvin	58.5%	Lincoln	49.8%	Osage	43.5%	Wagoner	58.5%
Carter	56.8%	Grady	46.9%	Logan	41.7%	Ottawa	49.5%	Washington	56.5%
Cherokee	61.7%	Grant	54.1%	Love	54.8%	Pawnee	61.5%	Washita	50.0%
Choctaw	44.3%	Greer	43.7%	Major	60.7%	Payne	58.9%	Woods	49.7%
Cimarron	41.0%	Harmon	61.1%	Marshall	58.2%	Pittsburg	56.5%	Woodward	47.1%
Cleveland	66.0%	Harper	54.7%	Mayes	56.0%	Pontotoc	65.6%		
Coal	48.1%	Haskell	50.0%	McClain	60.8%	Pottawatomie	60.3%		
Comanche	77.7%	Hughes	56.0%	McCurtain	46.4%	Pushmataha	42.3%		

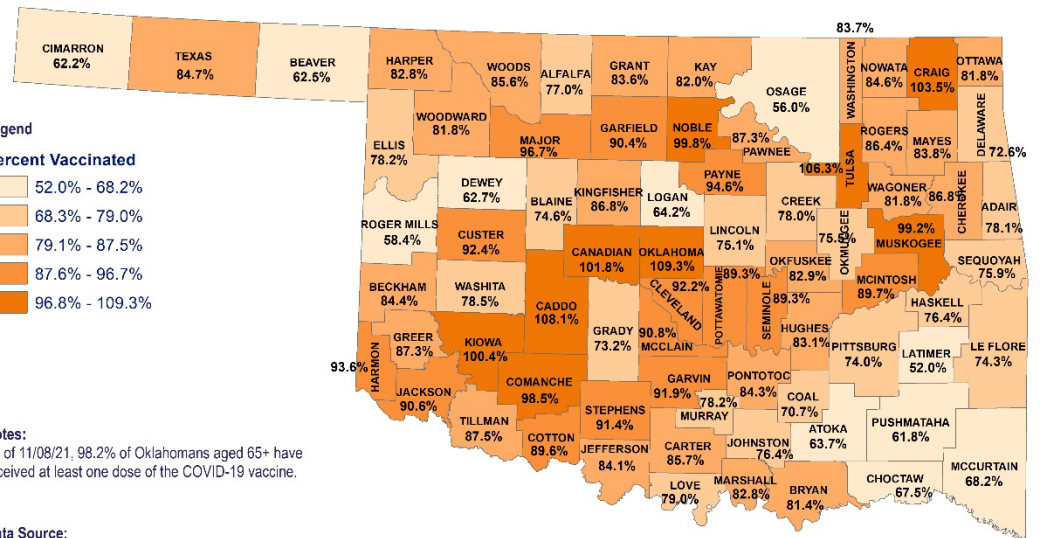
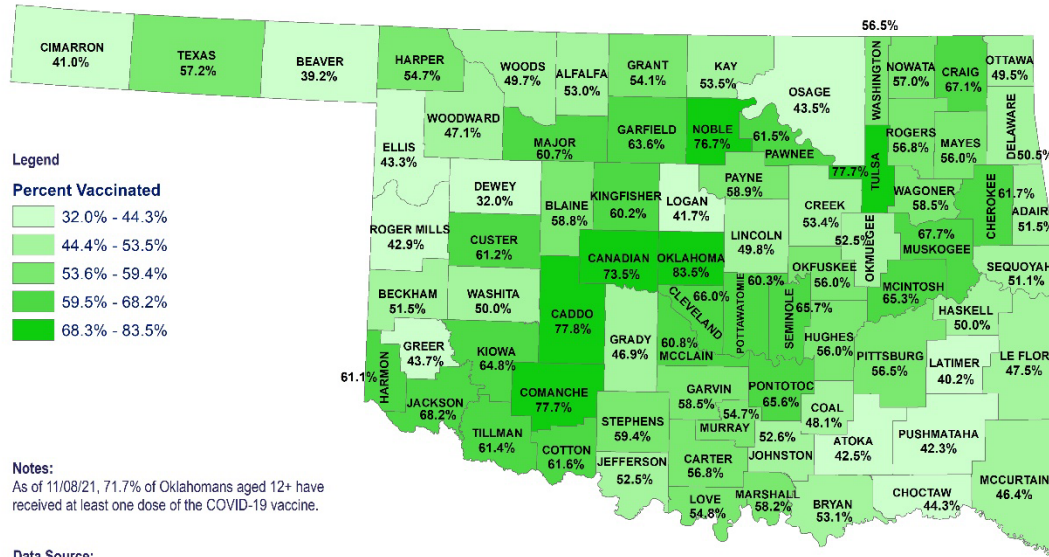
Source: CDC COVID Data Tracker – COVID-19 Vaccinations in the United States and COVID-19 Integrated County View. Posted: 11/8/2021

COVID- 19 VACCINE DATA

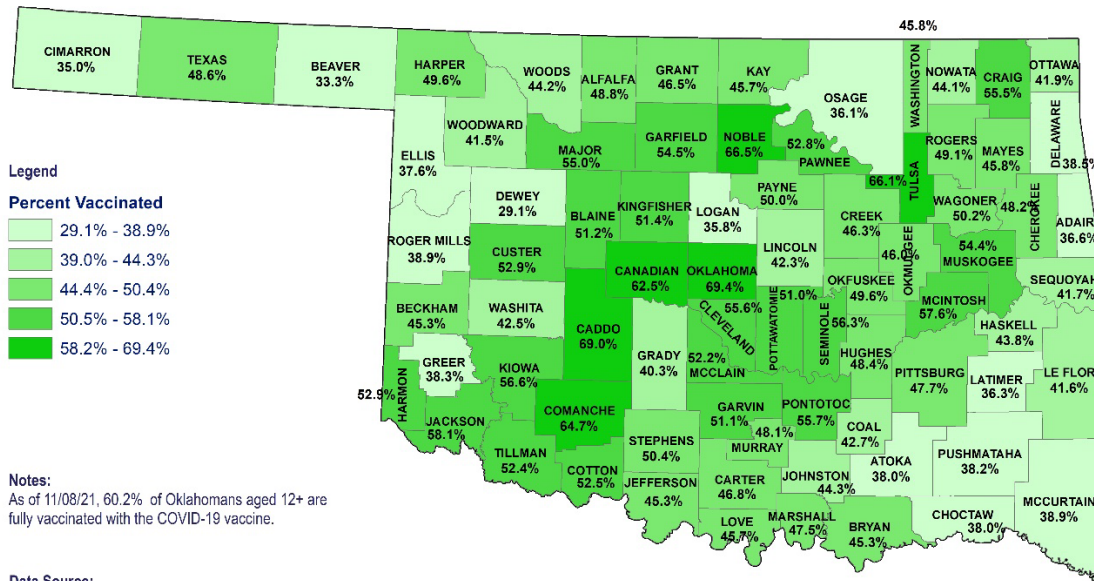
		Total Population >12 years of age	People who received at least 1 dose	People who are fully vaccinated
Oklahoma		3,325,223	1,953,777 (58.8%)	1,683,842 (50.6%)
Gender				
	Male	1,637,286 (49.2%)	904,987 (55.3%)	773,818 (47.3%)
	Female	1,687,937 (50.8%)	1,045,951 (62.0%)	908,197 (53.8%)
	Unknown		2,839	1,827
Age group				
	12-17	320,490 (9.6%)	117,974 (36.8%)	99,547 (31.1%)
	18-24	380,905 (11.5%)	167,927 (44.1%)	138,761 (36.4%)
	25-34	543,593 (16.3%)	250,152 (46.0%)	209,510 (38.5%)
	35-44	497,873 (15.0%)	277,085 (55.7%)	238,036 (47.8%)
	45-54	453,536 (13.6%)	275,898 (60.8%)	239,745 (52.9%)
	55-64	493,694 (14.8%)	336,598 (68.2%)	296,338 (60.0%)
	65-74	368,050 (11.1%)	309,415 (84.1%)	272,523 (74.0%)
	75-84	192,919 (5.8%)	158,864 (82.3%)	139,878 (72.5%)
	85+	74,163 (2.2%)	57,037 (76.9%)	49,476 (66.7%)
Race				
	White	2,610,851 (78.5%)	1,210,613 (46.4%)	1,105,214 (42.3%)
	Black	282,592 (8.5%)	106,982 (37.9%)	94,284 (33.4%)
	Asian/PI	94,874 (2.9%)	65,720 (69.3%)	59,072 (62.3%)
	American Indian	336,906 (10.1%)	111,472 (33.1%)	94,099 (27.9%)
	Other	-	83,678	69,725
	Unknown	-	375,312	261,448
Ethnicity				
	Hispanic or Latino	323,153 (9.7%)	173,575 (53.7%)	152,398 (47.2%)
	Not Hispanic or Latino	3,002,070 (90.3%)	1,231,547 (41.0%)	1,150,304 (38.3%)
	Unknown	-	548,655	381,140

Note: Fully vaccinated refers to individuals completing series after receiving either Pfizer and/or Moderna COVID-19 vaccines (both doses) and/or receiving single shot of J&J/Janssen Vaccine
 Data Source: 1. Single-race Population Estimates, United States, 2010-2019. July 1st resident population by state, age, sex, single-race, and Hispanic origin, on CDC WONDER Online Database. Vintage 2019 estimates released by U.S. Census Bureau on June 25, 2020 COVID-19. 2. Vaccination Reporting Specification (CVRS) Dataset - Oklahoma State Immunization Information System (OSIIS); Data reflect information entered as of 11:59PM 11/8/2021. Data does not include doses administered by federal entities in Oklahoma

OKLAHOMA COVID-19 AT LEAST 1 DOSE COUNTY LEVEL VACCINE ADMINISTRATION FOR AGES 12+ AND 65+



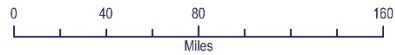
OKLAHOMA COVID-19 FULLY VACCINATED COUNTY LEVEL VACCINE ADMINISTRATION FOR AGES 12+ AND 65+



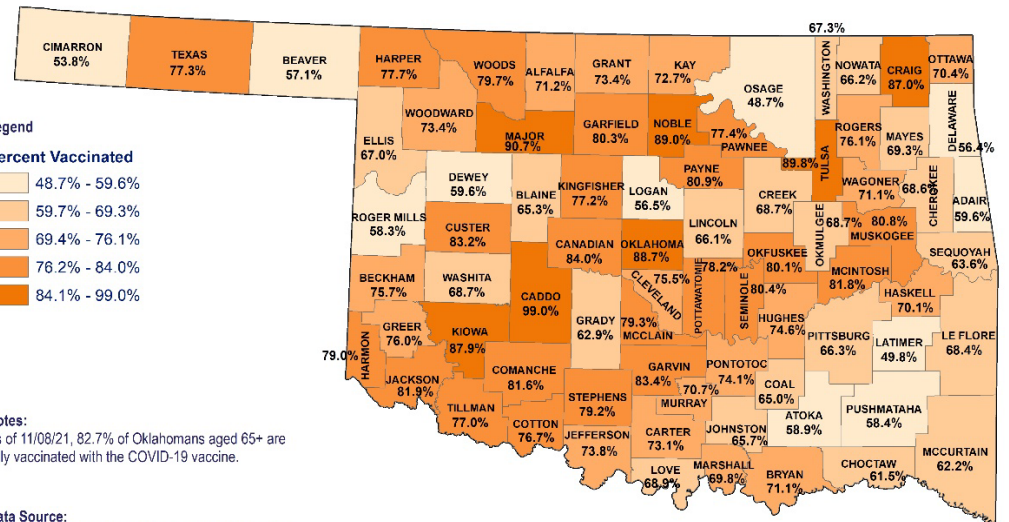
Notes:
As of 11/08/21, 60.2% of Oklahomans aged 12+ are fully vaccinated with the COVID-19 vaccine.

Data Source:
CDC COVID Data Tracker, County Level Vaccination Data for Oklahoma. Posted 11/08/21.

Projection/Coordinate System: USGS Albers Equal Area Conic



Disclaimer:This map is a compilation of records, information and data from various city, county and state offices and other sources, affecting the area shown, and is the best representation of the data available at the time. The map and data are to be used for reference purposes only. The user acknowledges and accepts all inherent limitations of the map, including the fact that the data are dynamic and in a constant state of maintenance.

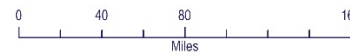


Notes:
As of 11/08/21, 82.7% of Oklahomans aged 65+ are fully vaccinated with the COVID-19 vaccine.

Data Source:
CDC COVID Data Tracker, County Level Vaccination Data for Oklahoma. Posted 11/08/21.

Projection/Coordinate System: USGS Albers Equal Area Conic

Created: 11.09.2021



Disclaimer:This map is a compilation of records, information and data from various city, county and state offices and other sources, affecting the area shown, and is the best representation of the data available at the time. The map and data are to be used for reference purposes only. The user acknowledges and accepts all inherent limitations of the map, including the fact that the data are dynamic and in a constant state of maintenance.

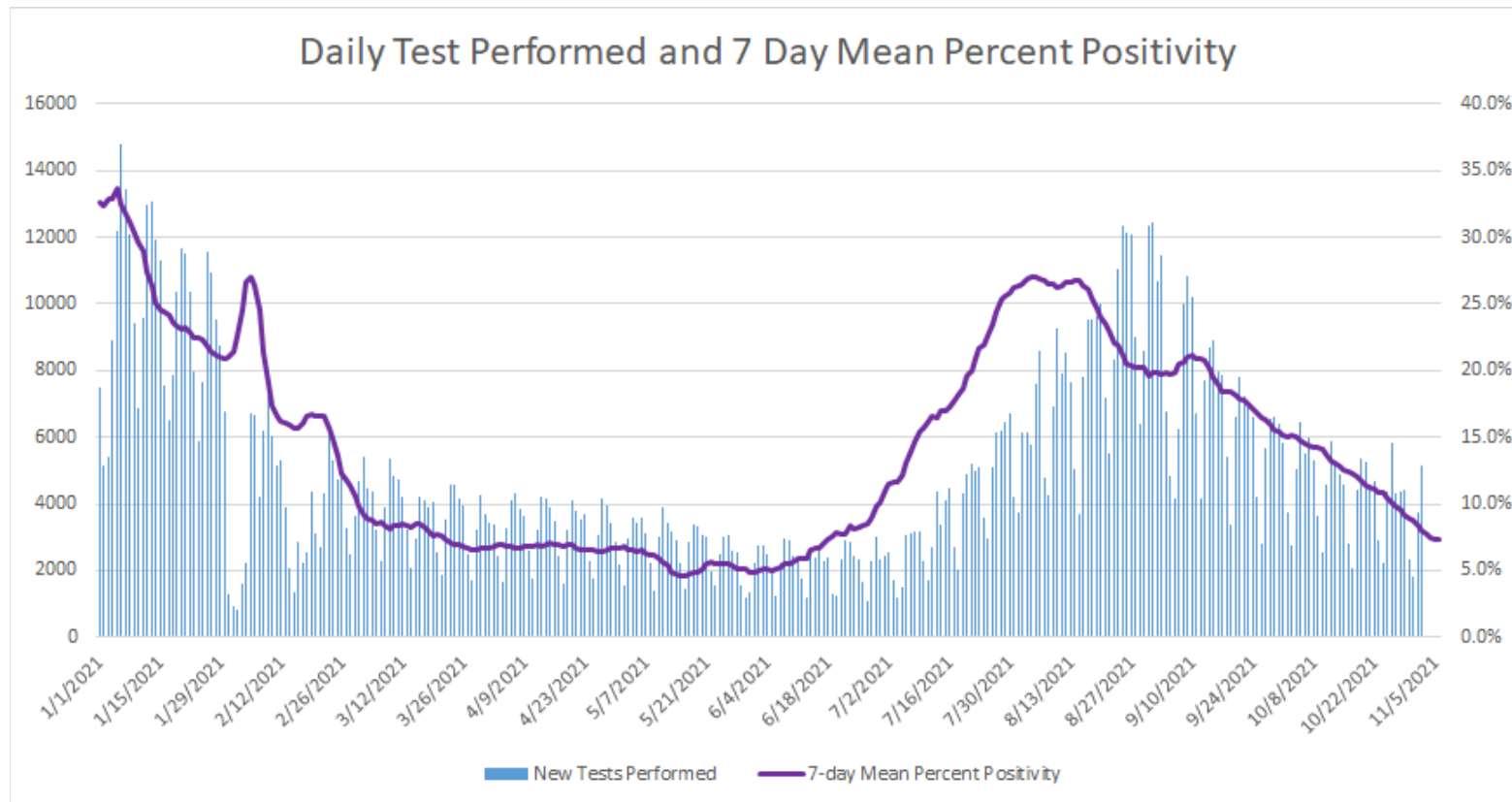


DISEASE TESTING

Oct 31 – Nov 6	
Specimens tested, count	10,708*
Specimens positive, count	4,107
Percent positive	7.3%

Source: CDC COVID Data Tracker CDC | Data as of: Tuesday, November 9, 2021 1:19 PM ET. Posted: Tuesday, November 9, 2021 2:33 PM ET
 *(Recent testing data was not available within the most current CDC data.)

COVID-19 DAILY TESTS PERFORMED AND 7 DAY MEAN PERCENT POSITIVITY



Oklahoma, November 9, 2021

Source: CDC COVID Data Tracker CDC | Data as of: Tuesday, November 9, 2021 1:19 PM ET. Posted: Tuesday, November 9, 2021 2:33 PM ET
 (Recent testing data was not available within the most current CDC data.)

COVID-19 VARIANT STRAINS

Genetic variants of SARS-CoV-2 have been emerging and circulating around the world throughout the COVID-19 pandemic.

- A variant has one or more mutations that differentiate it from other variants in circulation. As expected, multiple variants of SARS-CoV-2 have been documented in the United States and globally throughout this pandemic.

SARS-CoV-2 Sequencing Data, Oklahoma, January 1, 2021-October 30, 2021		
Variant Designation and Strain Name	SARS-CoV-2 Strain Count	SARS-CoV-2 Strain Percentage
No Concern	386	5.0%
Variants of Concern	6,685	87.0%
B.1.617.2 (Delta)	6,685	100.0%
Variants to Watch	47	0.6%
C.37 (Lambda)	47	100.0%
Variants Being Monitored	570	7.4%
B.1.1.7 (Alpha)	471	82.6%
B.1.351 (Beta)	7	1.2%
B.1.427/429 (Epsilon)	24	4.2%
B.1.525 (Eta)	2	0.4%
P.1 (Gamma)	35	6.1%
B.1.526/526.1 (Iota)	15	2.6%
B.1.617.1 (Kappa)	1	0.2%
B.1.621 (Mu)	15	2.6%
Grand Total	7,688	100.0%

Additional information on variant classifications and definitions can be found [here](#).

DISTRIBUTION OF RECENT COVID-19 HOSPITAL ADMISSIONS BY VACCINATION STATUS AND AGE GROUP AS OF OCTOBER 30, 2021⁺

Vaccination Status	Age Group	Hospital Admissions in the last 30 days ^{***}	Percentage within Vaccination Status Category	Percentage of Total Hospitalizations
Non-Vaccinated	Under 1- 4	28	2.9%	2.2%
	5-17	33	3.4%	2.6%
	18-35	141	14.5%	11.3%
	36-49	155	16.0%	12.4%
	50-64	259	26.7%	20.7%
	65+	355	36.6%	28.4%
	Unknown	0	0.0%	0.0%
	Total	971	100.0%	77.6%
Fully Vaccinated*	5-17	1	0.4%	0.1%
	18-35	15	6.7%	1.2%
	36-49	27	12.0%	2.2%
	50-64	53	23.6%	4.2%
	65+	129	57.3%	10.3%
	Total	225	100.0%	18.0%
Partially Vaccinated**	5-17	0	0.0%	0.0%
	18-35	3	5.3%	0.2%
	36-49	9	15.8%	0.7%
	50-64	22	38.6%	1.8%
	65+	22	38.6%	1.8%
	Total	57	98.2%	4.6%
Total Hospitalizations	1,252			

⁺ Data are preliminary and subject to change as more information is gathered, reviewed and quality assurance procedures are applied. The information presented in the table above (hospital admissions by vaccination status) will be limited to cases reported two (2) weeks prior allowing for additional review and quality assurance checks to be applied.

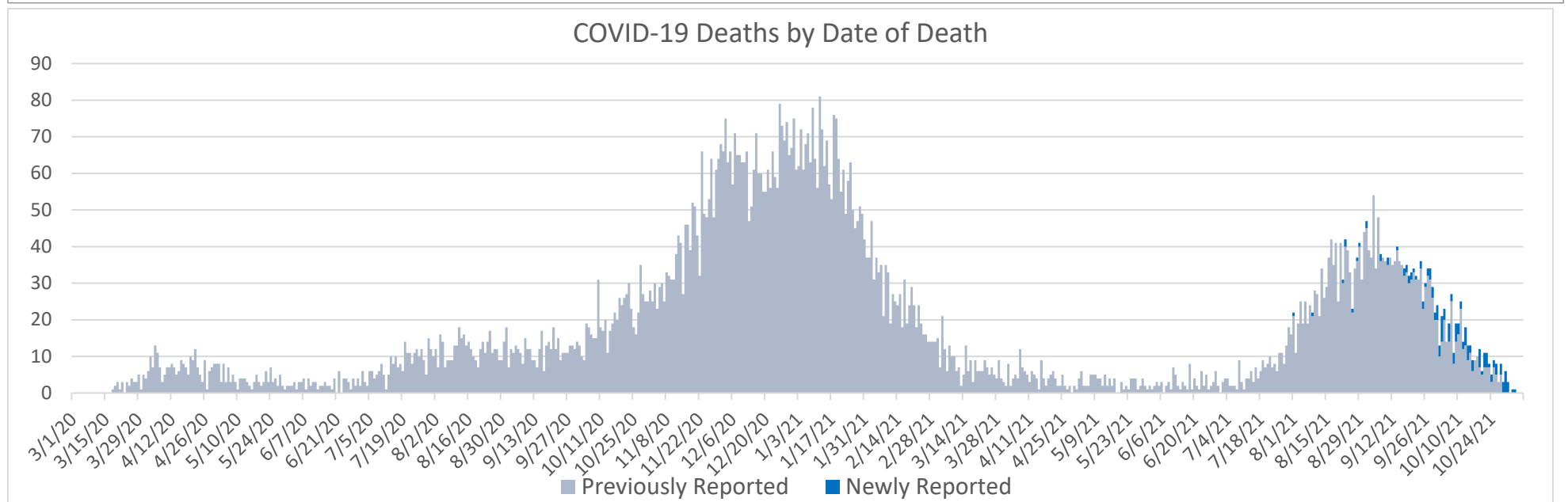
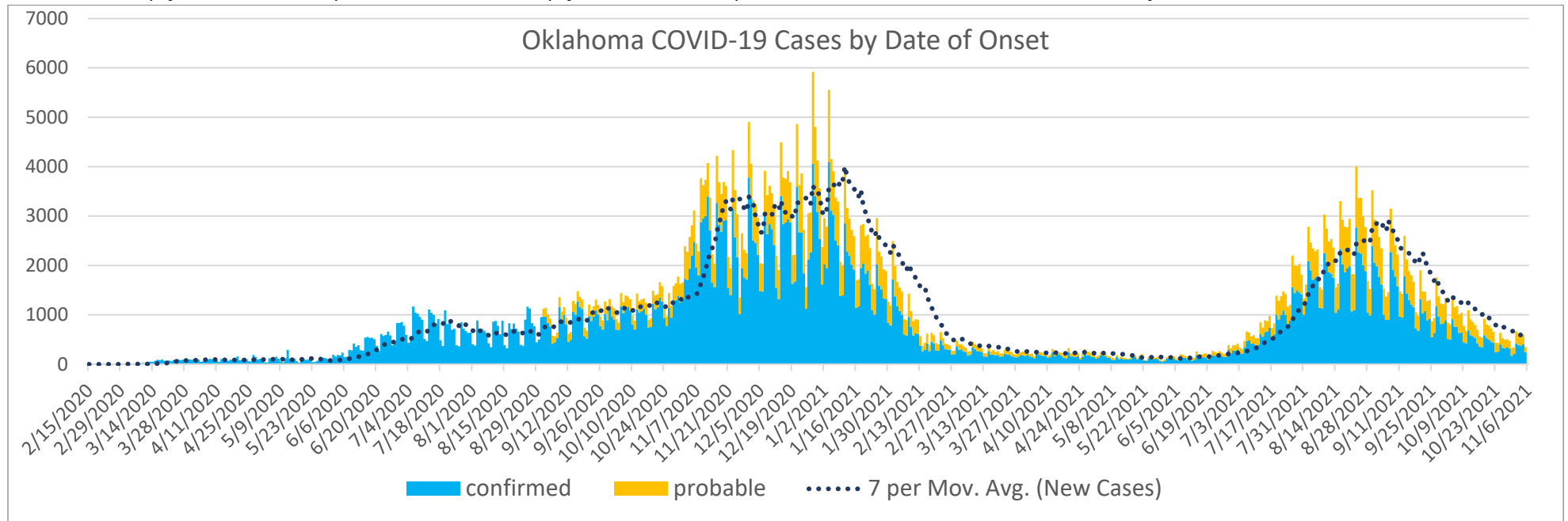
*Fully Vaccinated Vaccine breakthrough cases are defined as an individual with a COVID-19 positive laboratory results (PCR/Antigen) and documentation of COVID-19 vaccination that meets the definition of fully vaccinated. (Individuals are considered fully vaccinated ≥ 2 weeks after receiving the last dose in the COVID-19 vaccine series.)

**Partially Vaccinated Vaccine breakthrough cases is defined as an individual with a COVID-19 positive laboratory result (PCR/Antigen) and documentation of one COVID-19 vaccination. (Individuals are considered partially vaccinated ≥ 2 weeks after receiving the first dose in a 2-dose COVID-19 vaccine series.)

***Numbers based on hospital admission date within the past 30 days as reported in the OSDH PHIDDO system.

CASES AND DEATHS

New cases (by date of onset) and new deaths (by date of death) of COVID-19 in Oklahoma, February 2020–November 2021



Please note the different axes for new cases (top—from 0 to 7,000 for new cases) and new deaths (bottom—from 0 to 90 for new deaths). Additionally, a 7-day lag has been applied to the COVID-19 case trend line based on information.

DEMOGRAPHIC INFORMATION AS OF NOVEMBER 9, 2021

		Cases count (%) ¹		Deaths count (%) ¹		Cumulative Incidence Rate ²	Cumulative Mortality Rate ²
Oklahoma		650,004		11,011		16,426.8	278.3
Gender							
	Male	305,808	(47.0)	6,089	(55.3)	15,658.0	311.8
	Female	344,196	(53.0)	4,922	(44.7)	17,296.0	247.3
	Unknown	0	(0.0)	0	(0.0)		
Age group							
	Under 1- 4	16,600	(2.6)	1	(0.0)	6,496.2	0.4
	5-11	35,593	(5.5)	0	(0.0)	9,460.8	0.0
	12-17	52,651	(8.1)	5	(0.0)	16,428.3	1.6
	18-24	84,514	(13.0)	21	(0.2)	22,187.7	5.5
	25-34	108,063	(16.6)	103	(0.9)	19,879.4	18.9
	35-44	102,477	(15.8)	300	(2.7)	20,583.0	60.3
	45-54	86,995	(13.4)	751	(6.8)	19,181.5	165.6
	55-64	77,000	(11.8)	1,671	(15.2)	15,596.7	338.5
	65-74	49,414	(7.6)	2,670	(24.2)	13,425.9	725.4
	75-84	25,589	(3.9)	2,880	(26.2)	13,264.1	1,492.9
	85+	11,079	(1.7)	2,609	(23.7)	14,938.7	3,517.9
	Unknown	29	(0.0)				
Race							
	American Indian or Alaska Native	65,884	(10.1)	953	(8.7)	21,447.8	310.2
	Asian or Pacific Islander	10,815	(1.7)	109	(1.0)	12,213.0	123.1
	Black or African American	38,246	(5.9)	709	(6.4)	13,294.6	246.5
	Multiracial/Other	22,772	(3.5)	284	(2.6)	5,503.7	68.6
	White	368,182	(56.6)	7,960	(72.3)	12,937.3	279.7
	Unknown	144,105	(22.2)	996	(9.0)		
Ethnicity							
	Hispanic or Latino	61,582	(9.5)	606	(5.5)	14,352.2	141.2
	Not Hispanic or Latino	414,857	(63.8)	9,254	(84.0)	11,805.8	263.3
	Unknown/Other	173,565	(26.7)	1,151	(10.5)		

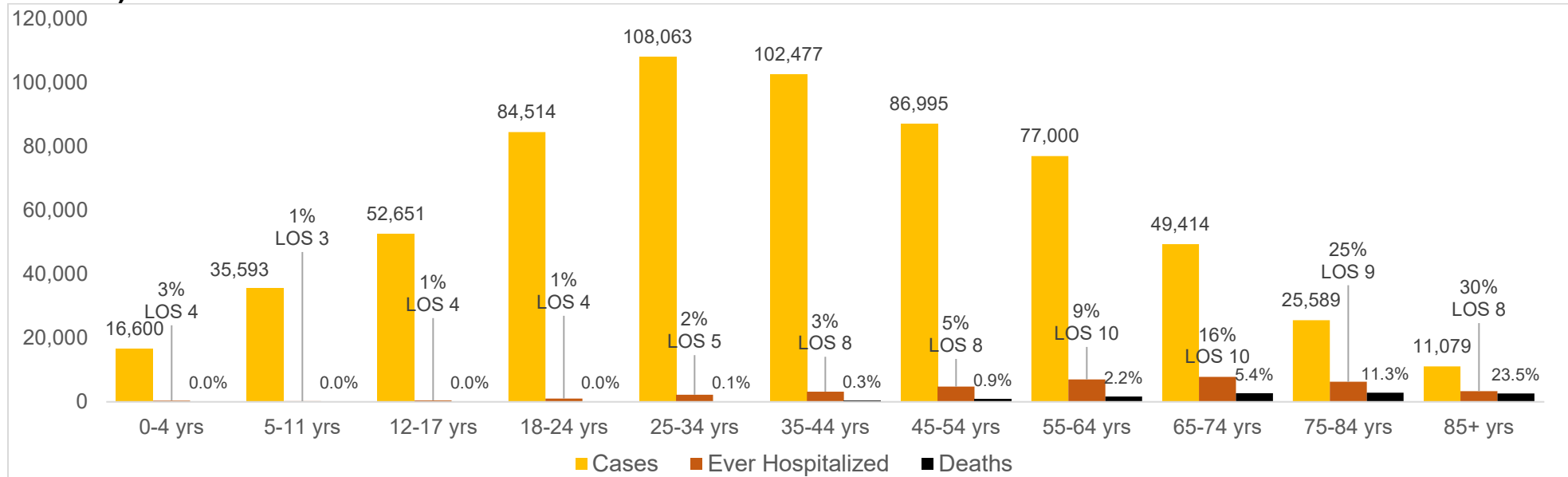
1. Percentages may not add up to 100 due to rounding. 2. Rate per 100,000 population based on 2019 Census Population data.

NEW CASES, HOSPITALIZATIONS, AND DEATHS BY AGE GROUP FOR WEEK OF OCT 30-NOV 6

Age group	Percentage of Population Fully Vaccinated	New Cases (%)	New Hospitalizations (%)	New Deaths (%)
Under 1- 4	-	179 (3.8%)	0 (0.0%)*	0 (0.0%)
5-11	-	465 (10.0%)	1 (1.1%)	0 (0.0%)
12-17	31.1%	356 (7.7%)	0 (0.0%)	0 (0.0%)
18-24	36.4%	486 (10.4%)	0 (0.0%)	0 (0.0%)
25-34	38.5%	721 (15.5%)	3 (3.2%)	1 (0.8%)
35-44	47.8%	701 (15.1%)	10 (10.5%)	6 (4.5%)
45-54	52.9%	620 (13.3%)	21 (22.1%)	18 (13.6%)
55-64	60.0%	549 (11.8%)	25 (26.3%)	26 (19.7%)
65-74	74.0%	330 (7.1%)	15 (15.8%)	33 (25.0%)
75-84	72.5%	179 (3.8%)	14 (14.7%)	30 (22.7%)
85+	66.7%	66 (1.4%)	7 (7.4%)	18 (13.6%)
Unknown	-	0 (0.0%)	0 (0.0%)	0 (0.0%)

*Please note that the total number of hospitalizations among children less than 5 decreased by 1 this week.

CUMULATIVE CASES, PERCENT HOSPITALIZED, AVERAGE LENGTH OF STAY (AUGUST 2021 CASES) AND DEATHS BY AGE GROUP



AT-RISK SETTINGS

HEALTHCARE & NON-HEALTHCARE

Status	Non-Healthcare Worker count (%)	Healthcare Worker count (%)
Active	6,015 (1.0)	36 (0.2)
Deceased	10,923 (1.7)	88 (0.5)
Recovered	613,447 (97.3)	19,619 (99.4)
Total	630,385	19,619

LONG TERM CARE (LTC) FACILITIES²

	Cases (%)	Deaths (%)
Residents	9,208 (61.8)	1,793 (98.8)
Staff	5,694 (38.2)	22 (1.2)
Total	14,902	1,815

²Long term care facility or nursing home.

CORRECTIONAL FACILITIES¹

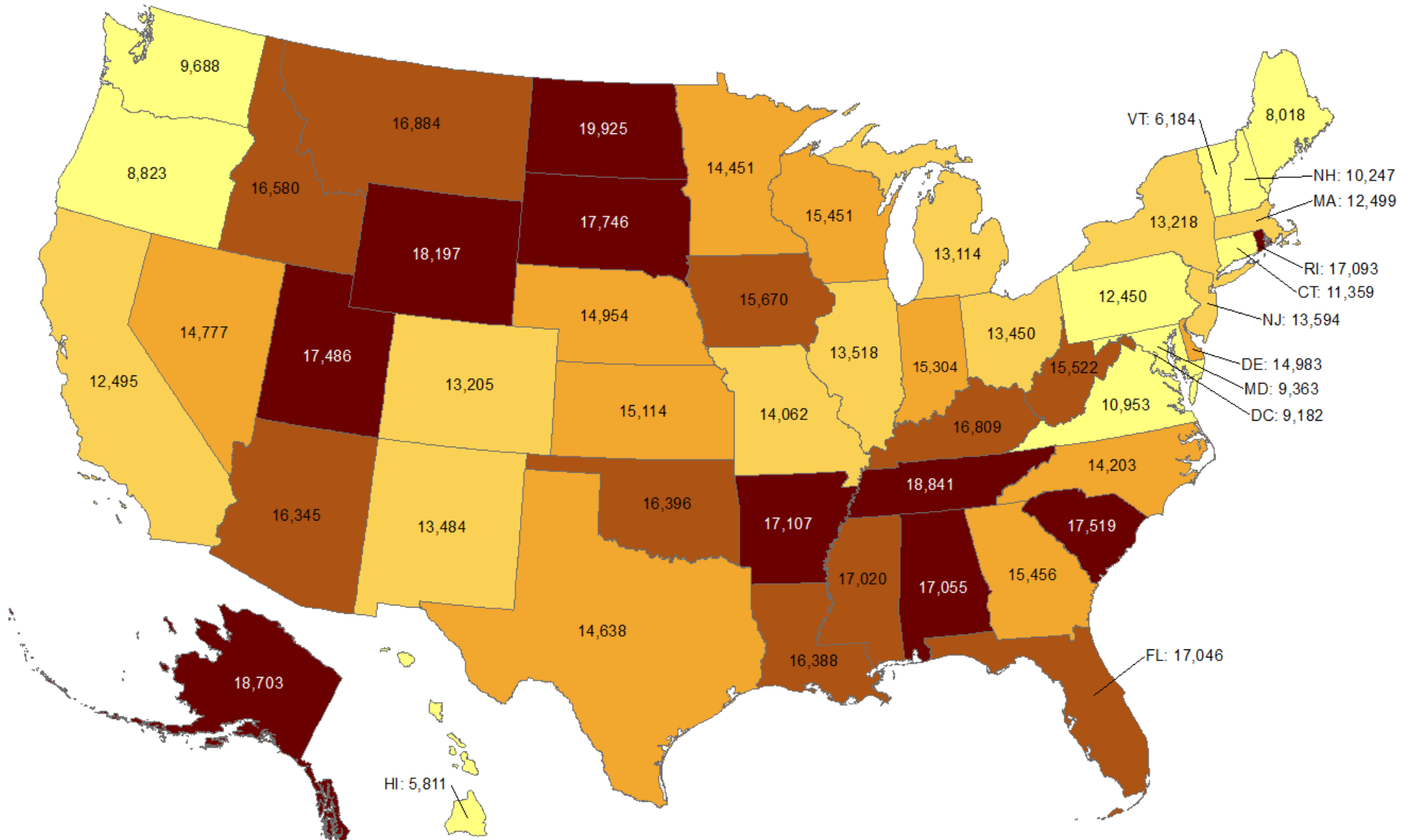
	Cases (%)	Deaths (%)
Inmates	5,423 (75.1%)	58 (92.1%)
Staff	1,795 (24.9%)	5 (7.9%)
Total	7,218	63

¹Correctional facilities include prisons, jails, and juvenile detention center

OKLAHOMA IN COMPARISON

Cumulative incidence of reported COVID-19 cases

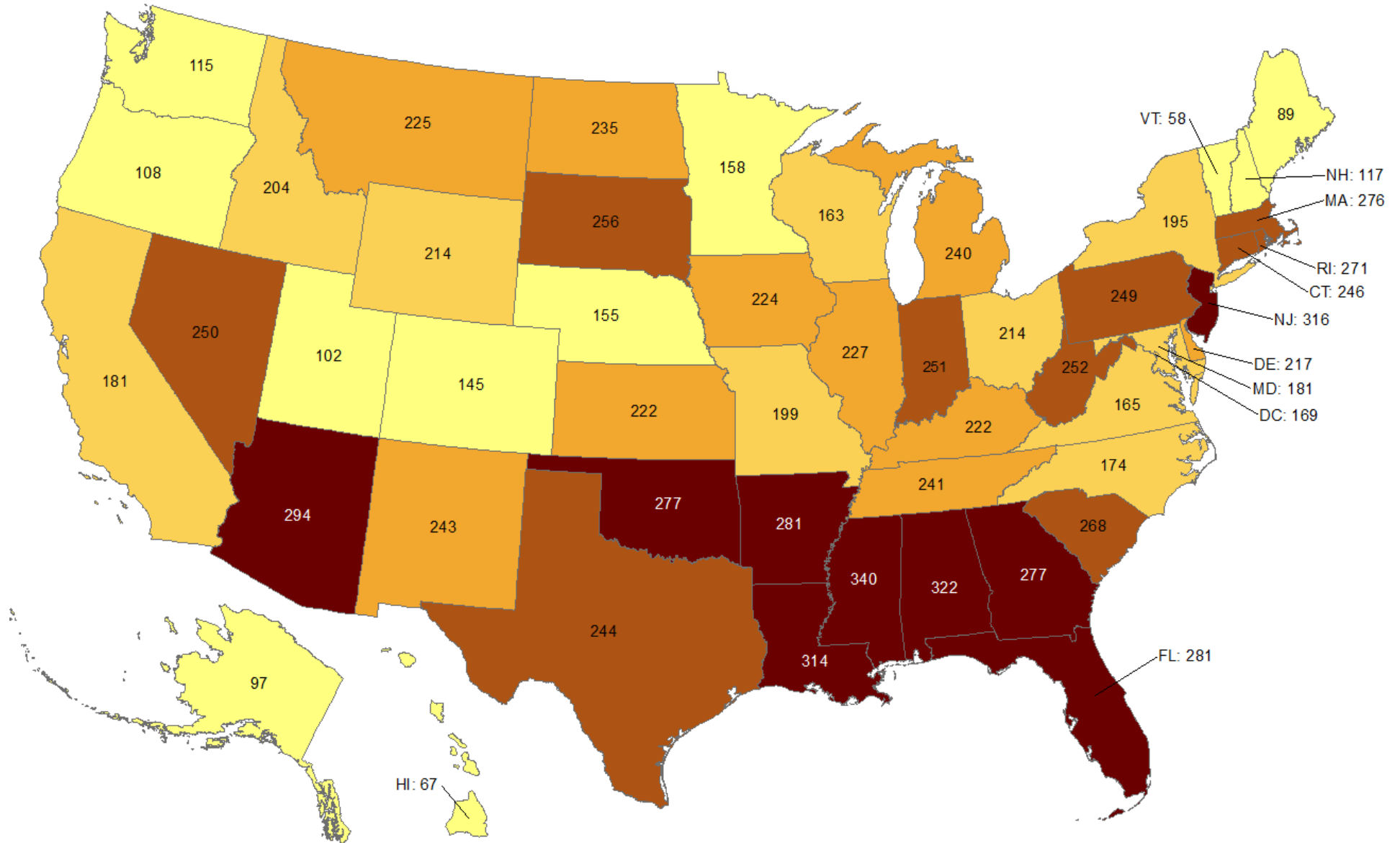
Oklahoma ranks **16** (out of all States and DC) in the cumulative incidence (per 100,000 persons) of reported COVID-19 cases in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of November 8, 2021

Cumulative death rate of reported COVID-19 cases

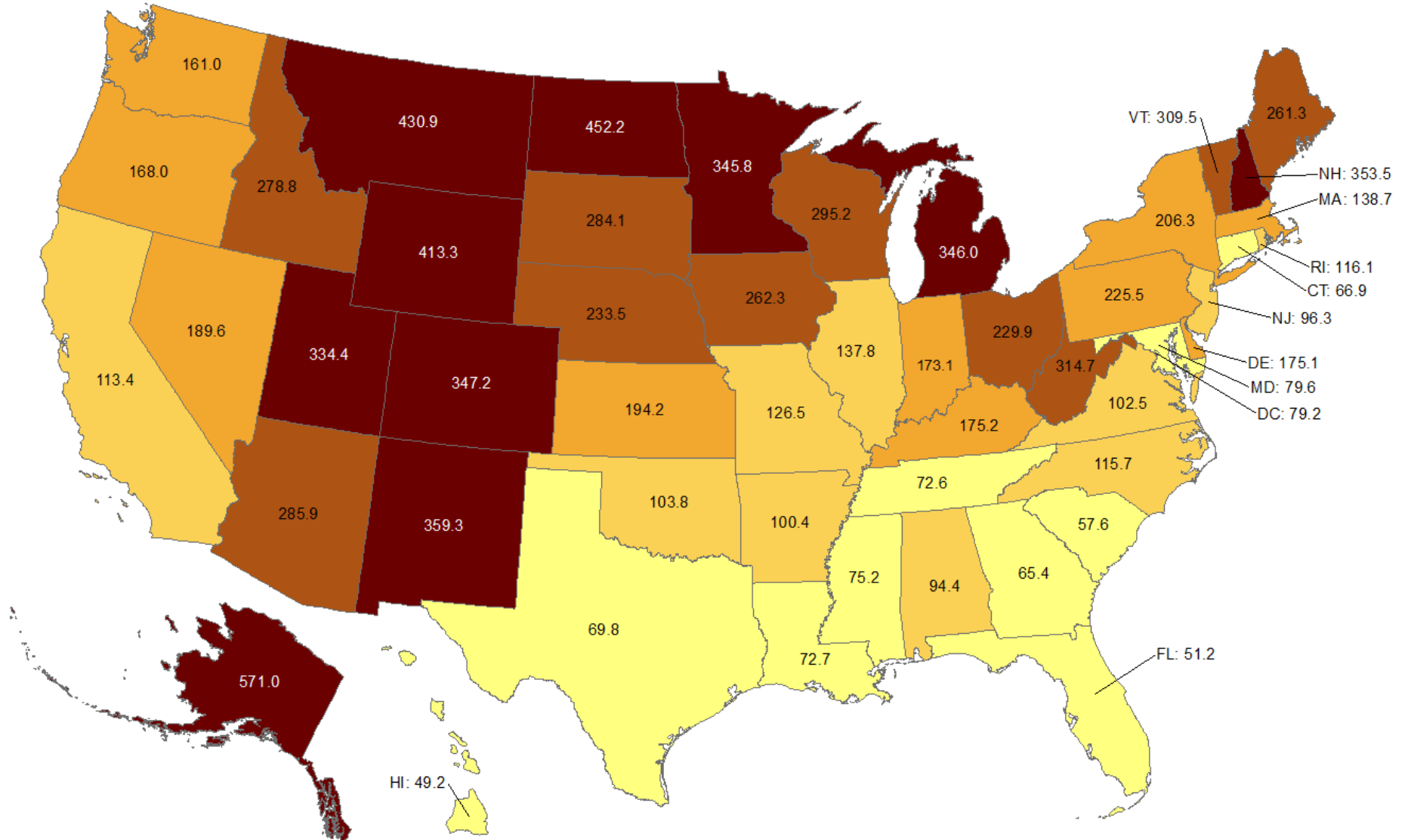
Oklahoma ranks **8** (out of all States and DC) in the cumulative death rate (per 100,000 persons) of reported COVID-19 cases in the US.



Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of November 8, 2021

Cumulative incidence of reported COVID-19 cases in last 7 days

Oklahoma ranks **36** (out of all States and DC) in the cumulative incidence (per 100,000 persons) of reported COVID-19 cases in the last 7 days.



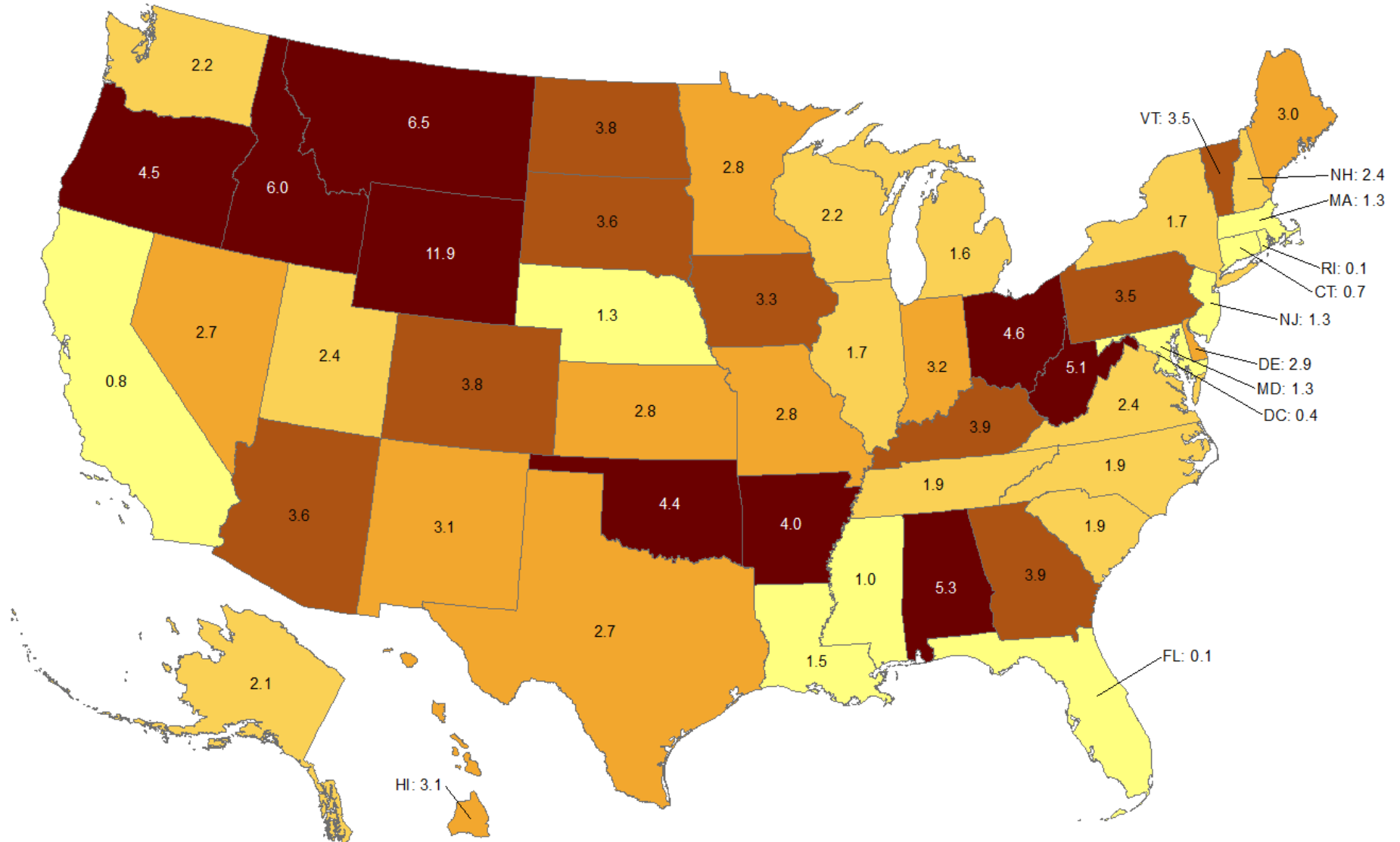
Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>

Data as of November 8, 2021

NOTE: Totals per 100,000 people in the last 7 days are calculated as the 7-day moving average of new cases or deaths (November 8, 2021 + 6 preceding days divided by 7) per 100,000 people using the U.S. Census Bureau, 2019.

Cumulative death rate of reported COVID-19 cases in last 7 days

Oklahoma ranks **8** (out of all States and DC) in the cumulative death rate (per 100,000 persons) of reported COVID-19 cases in the last 7 days.

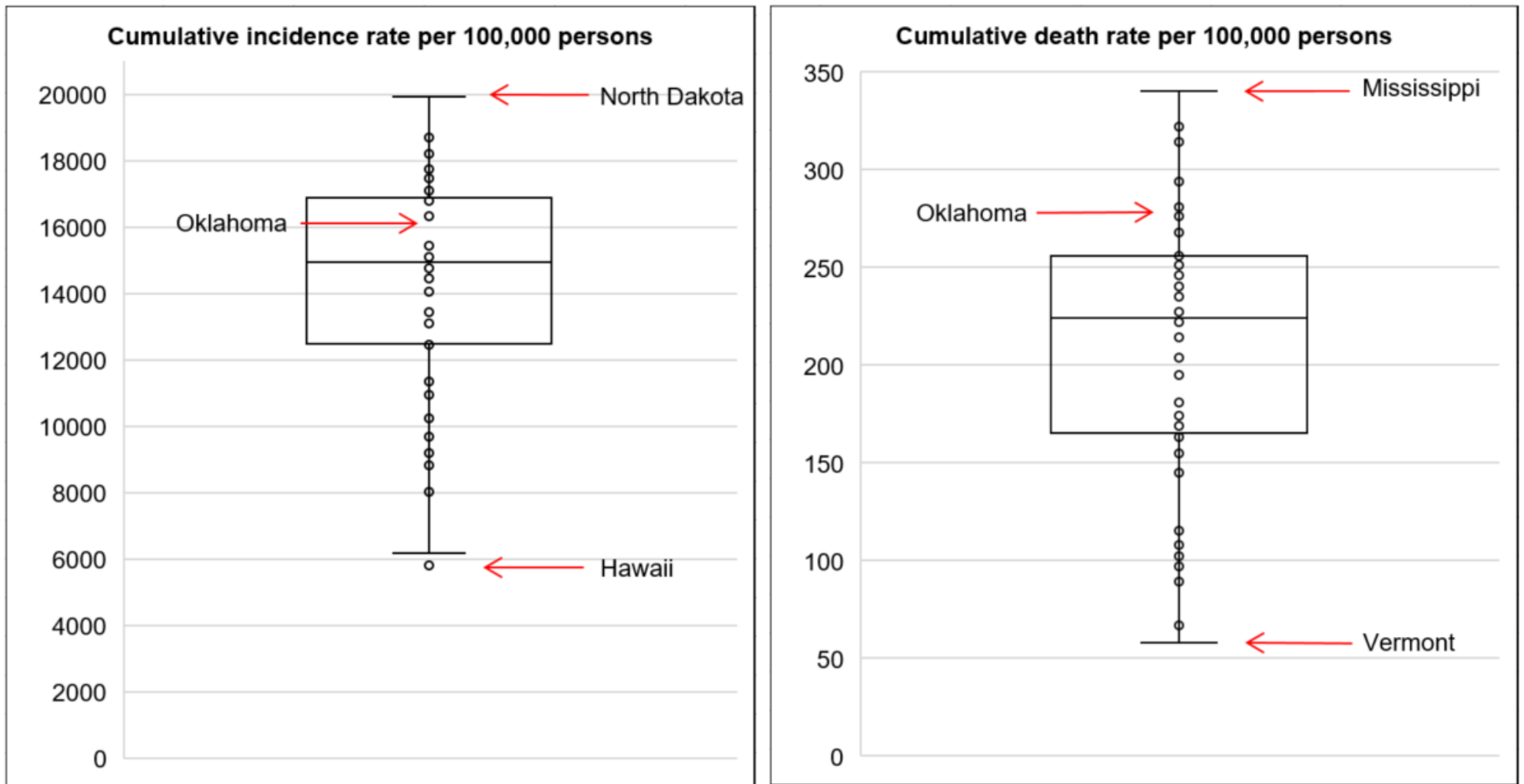


Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>

Data as of November 8, 2021

NOTE: Totals per 100,000 people in the last 7 days are calculated as the 7-day moving average of new cases or deaths (November 8, 2021 + 6 preceding days divided by 7) per 100,000 people using the U.S. Census Bureau, 2019.

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



Interpretation: Oklahoma has cumulative incidence rate that is **below the 75th percentile** of the US and cumulative death rate that is **above the 75th percentile** of the US.

Data from CDC. Available at <https://www.cdc.gov/covid-data-tracker/index.html>
Data as of November 8, 2021

OKLAHOMA EXCESS DEATH ANALYSIS

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

Weekly number of deaths (from all causes)

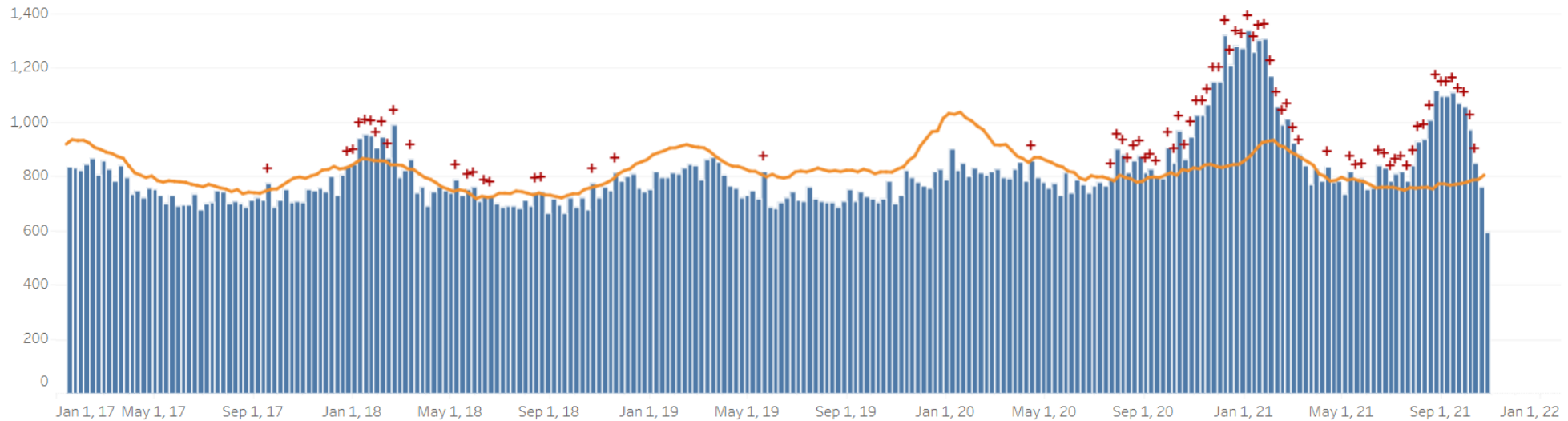


Figure notes: Contains data up to the week-ending date of October 23, 2021. Data in recent weeks are incomplete. Only 60% of the death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction.

Source: CDC, National Center for Health Statistics, https://www.cdc.gov/nchs/nvss/vsrr/covid19/excess_deaths.htm#dashboard, November 2, 2021 9:30AM

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.

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.