Oklahoma Pandemic Response

Lance Frye, M.D. Interim Commissioner of Health



OKLAHOMA State Department of Health

Oklahoma Then, Now and Beyond

Where we started...

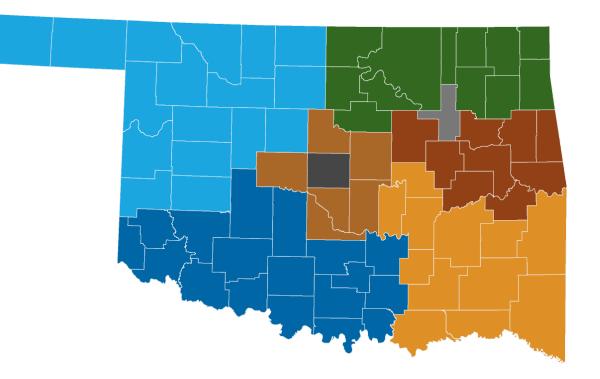


Where we are now...



Where we are heading...

Innovative Preparedness and Planning





Crisis Mode

- Inaccurate early modeling
- Insufficient supplies for PPE and testing
- Antiquated technology
- Lack of proper training
- Inadequate preparation
- Ineffective dissemination of information
- Silo department divisions







A	B C	D	E	F	G	н	1
Oklahoma Dept of H	lealth						
PPE Inventory Track	ing	Statew	ide				
		All quantit	ias in thous	ands except	Ventilator		
		All quantit	Face/Eye	unus except		3	
	Glove	Gowns		N95 Resp	Masks	Vents*	Swabs
Inventory							
On hand - SNS	3,908	146	19.	199	<i>J</i> 04	132	2
On hand - hospitals	6,147	420	55	110	589	948	
Total On Hand	10,055	566	248	342	1,493	1,080	2
				A	nesthesia	517	



State Epidemiologist Model as of March 24, 2020

	No Intervention			Current	Social Dis	stancing	More Aggressive			
							Intervention			
	High	Med	Low	High	Med	Low	High	Med	Low	
Infected, cumulative	2,854,356	2,731,519	2,555,196	2,059,858	1,868,070	1,638,999	1,001,888	794,202	560,992	
Infected, peak	622,317	506,503	394,666	192,763	148,987	98,399	31,592	19,033	9,086	
Severely Infected, cumulative	428,153	409,728	383,279	308,979	280,211	245,850	150,283	119,130	84,149	
Severely Infected, peak	93,348	75,975	59,200	28,914	22,348	14,760	4,739	2,855	1,363	
Died	45,670	43,704	40,883	32,958	29,889	26,224	16,030	12,707	8,976	
Hospitalized, cum	285,436	273,152	255,520	205,986	186,807	163,900	100,189	79,420	56,099	
Hospitalized, peak	62,232	50,650	39,467	19,276	14,899	9,840	3,159	1,903	909	
ICU stay, cum	14,272	13,658	12,776	10,299	9,340	8,195	5,009	3,971	2,805	
ICU stay, peak	3,112	2,533	1,973	964	745	492	158	95	45	
Ventilator, cum	17,126	16,389	15,331	12,359	11,208	9,834	6,011	4,765	3,366	
Ventilator, peak	3,734	3,039	2,368	1,157	894	590	190	114	55	
Date of peak	27-Jun- 20	2-Jul-20	27-Jun-20	21-Jul-20	<u>12-Aug-20</u>	10-Aug-20	14-Dec-20	1-Feb-21	22-Jul-21	

Governor's Solution Task Force Plans to Guide Oklahoma's Protection and Recovery



- Health Care Provider Readiness
- National Guard Preparation
- Human Services / Be a Neighbor
- Education: April 6th and Thereafter
 - **Business and Economic Safety**
 - **Economic Recovery**

Our State's Morale and Long Term Care Plan



- Hospital Surge Plan
- State-wide Testing



- PPE Tracking, Purchasing and Distribution
- **Mortuary Affairs**



Oklahoma State Department of Health Response Where We Are Now

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HOSPITAL

SURGE PLAN

 Cklahomans are provided the most upto-date data on the OSDH

dedicated

COVID-19

website which

includes city,

zip code and

data.

county specific

Tiered hospital surge plan includes regional capacity approach with approximately 335 COVID beds on hold & telemedicine capabilities.

STRIKE TEAMS

OSDH moved from an Incident Command System to focused Strike Teams to lead a more effective response with more flexibility and immediate actions.

Transferring of data collection and reporting from PHIDDO to MTX, OSDH provides more robust information and better coordinated response.



A four-tiered risk measurement tool with corresponding color categories that identify the current COVID-19 risk level for each of Oklahoma's 77 counties.



Current Situation

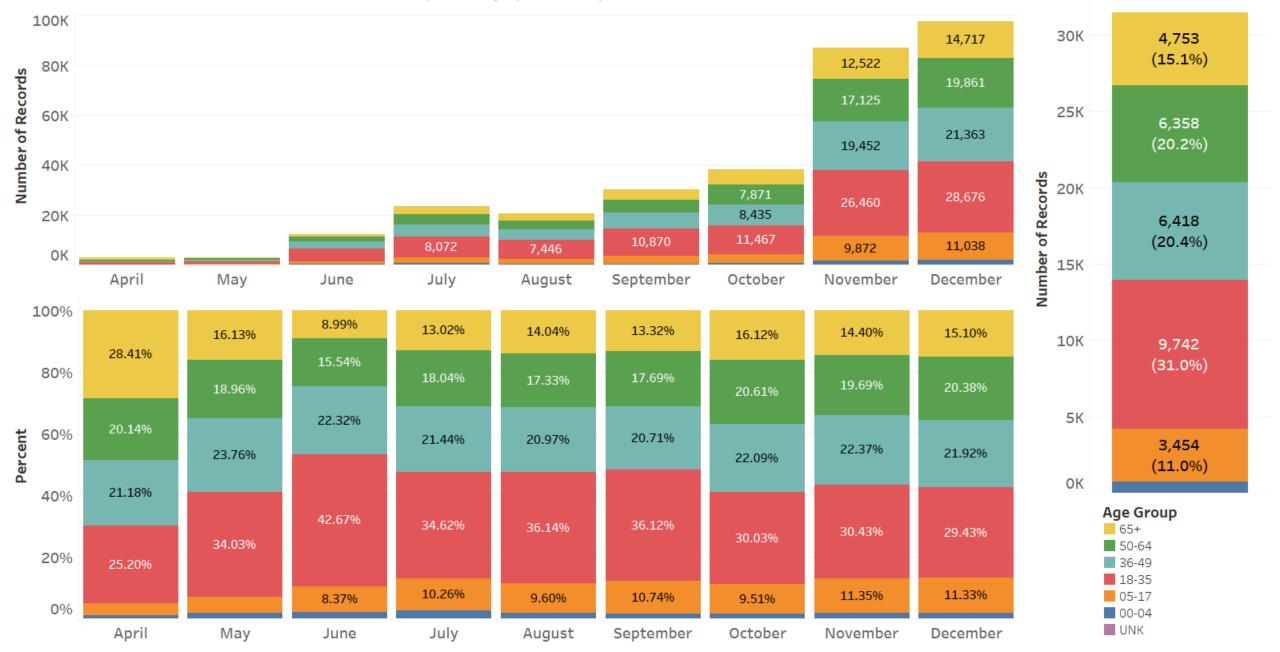


CASELOAD								
	Total			New Cases	Total Deat	hs/% Mortality	New Deaths	Cases Reported (last 14 days)
OKLAHOMA	+0.	5%	356,816	1,837	+0.2%	2,994/0.8%	7	50,045
US	+0.	+0.7% 23,936,7		177,918	+0.4%	397,600/1.7%	1,749	NA
HOSPITALIZATIONS		SURGE		CAPACITY		PPE	SNS	· · · · · · · · · · · · · · · · · · ·
Accumulative	+0.1%	20,063		Total	Available			41.5 days
			ICU	958	4.6%	Face & Eye	2,333	к 650к
Change Acute COVID+	+95	(+6.2%)	Vents	1,910	51%	Coveralls & Gov	wns 4,026	K 1,376K
Current	All	Acute Care	Med/Srg	5,660	13%	Gloves	23,368	3K 34,862K
Hospitalizations	(Acute Care, Tribal, Specialty & Rehab)	State Licensed		Executive Order Reports		Masks: N-95 + KN95	4,199	K 2,973K
COVID Hospitalized	1,742	1,635		ata as of 1/18 7% reporting	•	Masks:		
COVID ICU (subset)	448	429		% reporting PPE/vent		Surgical & proc	ed. 13,178	3K 5,252K

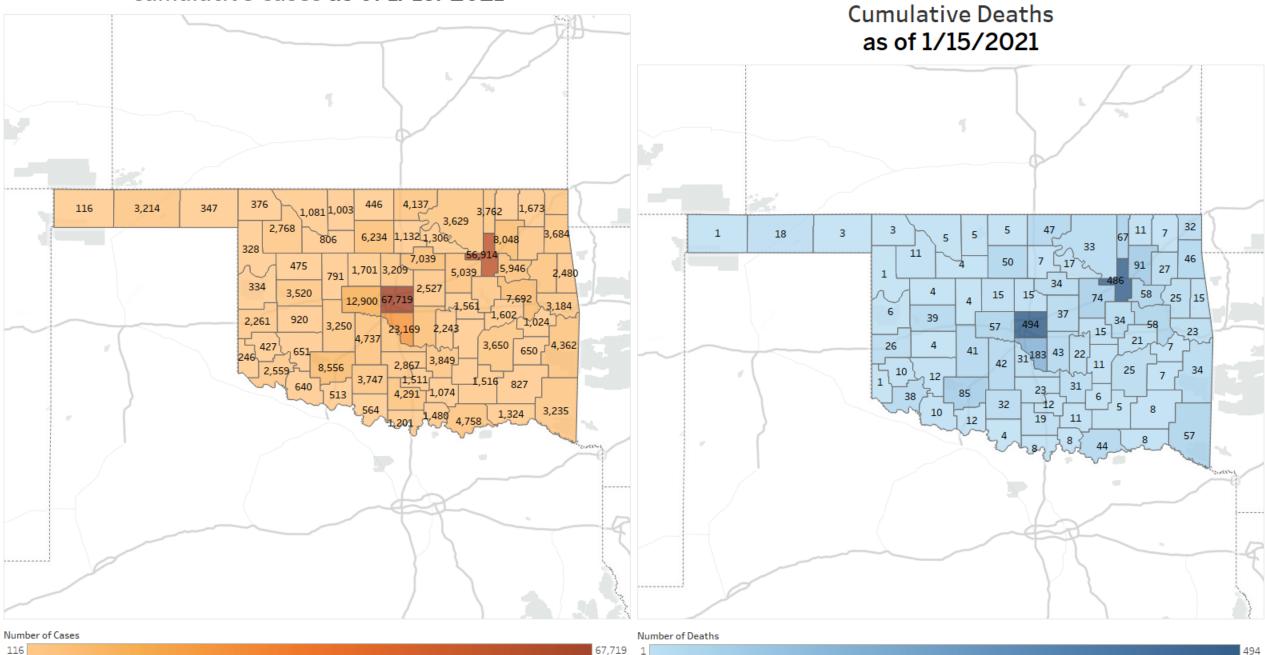
Monthly Oklahoma Cases by Age Groups as of 1/15/2021

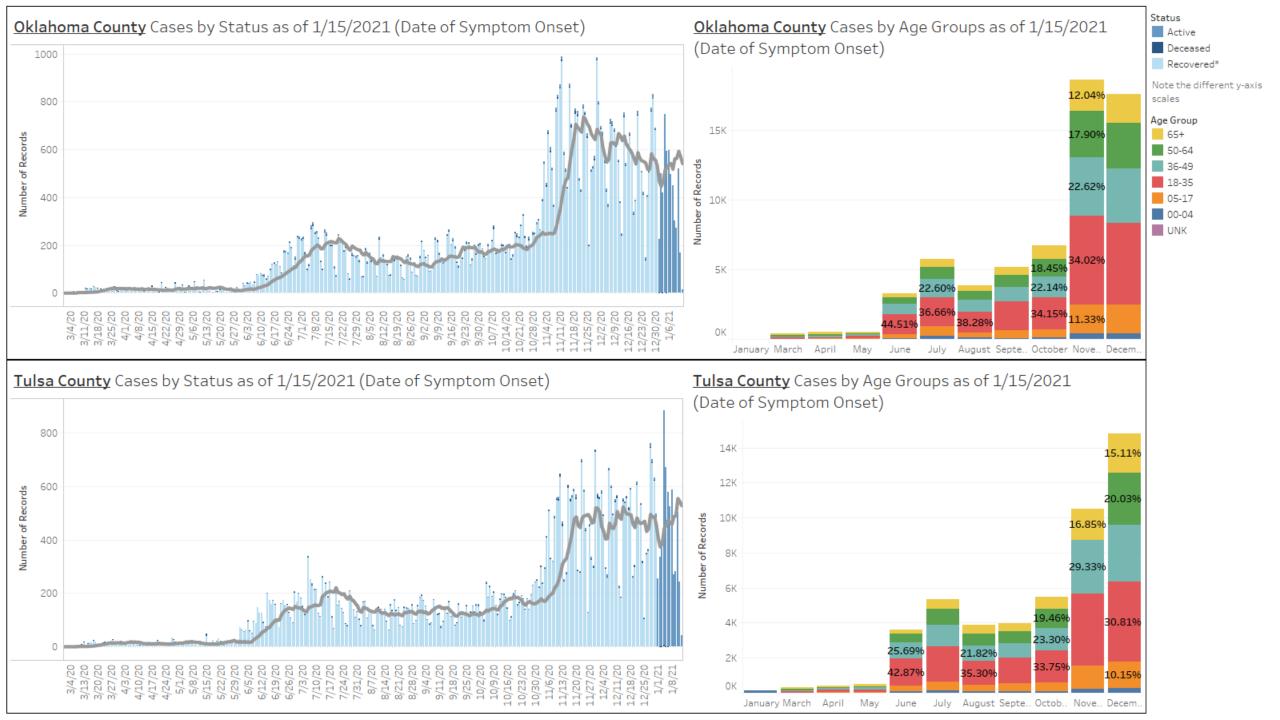
Past 14 Days

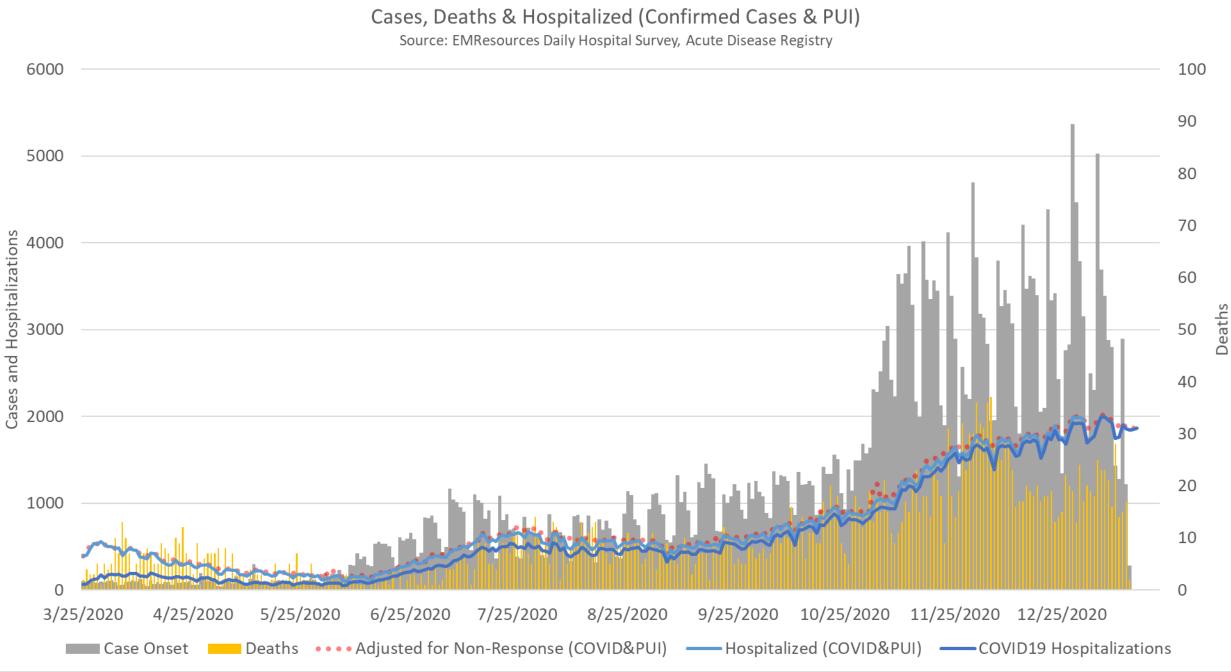
(Date of Symptom Onset)



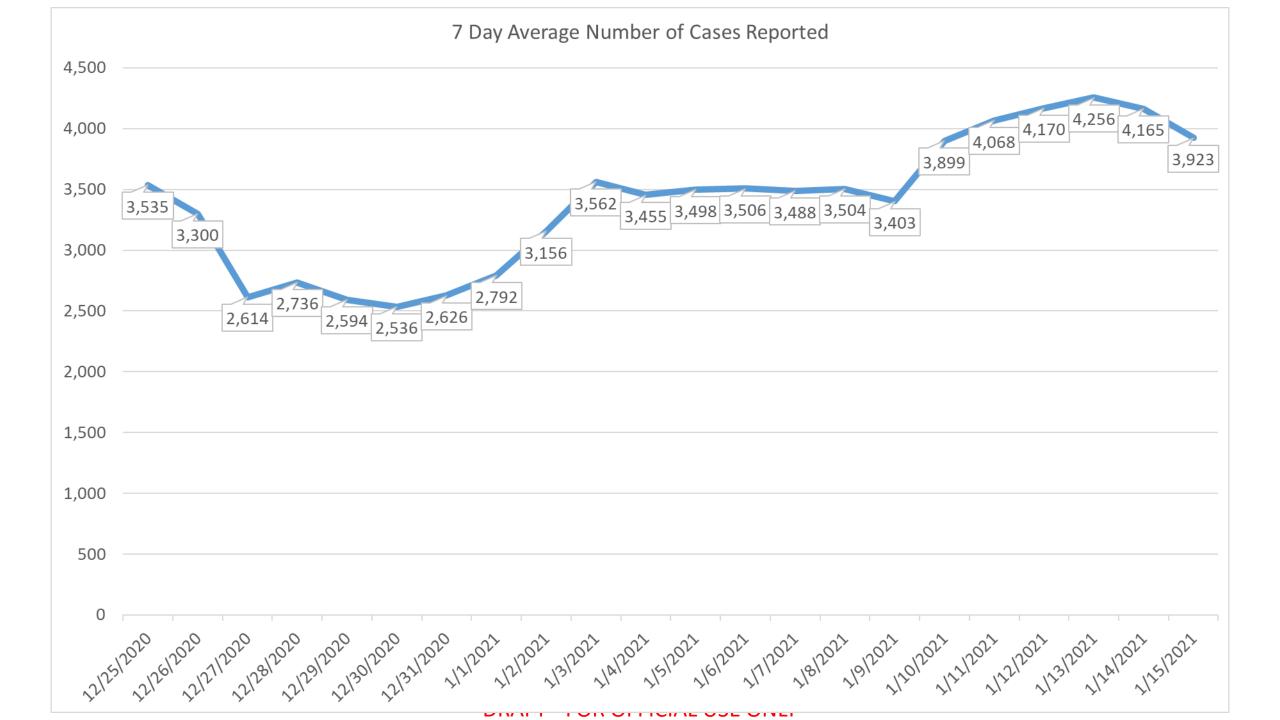
Cumulative Cases as of 1/15/2021

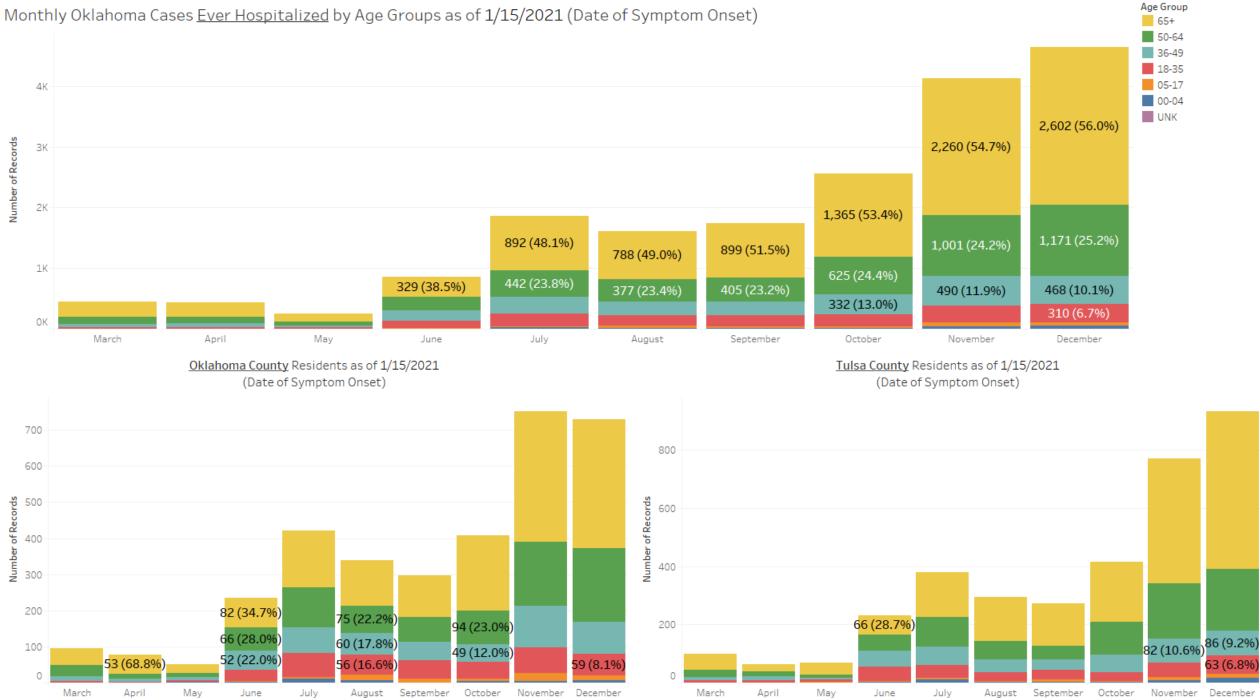






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Regional Number (& Percent) of Hospitalized Patients that are COVID19 Positive

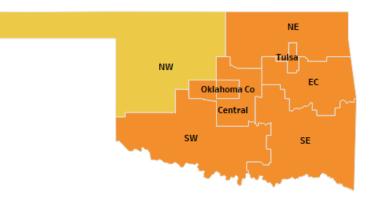
(Limited to Acute Care Facilities Licensed by OK)

This is a point in time count reported by hospitals as of noon on the survey date for the latest number available in the previous 24hrs. Hospital capacity numbers change on an hourly basis depending upon admissions and discharges. This data is self-reported by hospitals.

Hospital Surge Tiers Regions that are above the threshold for 3 consecutive days will move to the next Tier

1 (< 15%) 2 (15 to < 20%) 3 (20 to < 40%) 4 (40% or Greater)

								-							
Region 1 (NW) Total Beds 333	Percent COVID1. 900 000	53 (15.9%)	40 (12.0%)	42 (12.6%)	76 (22.8%)	61 (18.3%)	76 (22.8%)	65 (19.5%)	50 (15.0%)	60 (18.0%)	72 (21.6%)	65 (19.5%)	82 (24.6%)	80 (24.0%)	54 (16.2%)
Region 2 (NE) Total Beds 361	Percent COVID1. %0 70 70 70 70 70 70 70 70 70 70 70 70 70	113 (31.3%)	126 (34.9%)	123 (34.1%)	131 (36.3%)	133 (36.8%)	133 (36.8%)	132 (36.6%)	117 (32.4%)	117 (32.4%)	120 (33.2%)	119 (33.0%)	107 (29.6%)	112 (31.0%)	115 (31.9%)
Region 3 (SW) Total Beds 615	Percent COVID1.	200 (32.5%)	211 (34.3%)	226 (36.7%)	217 (35.3%)	223 (36.3%)	203 (33.0%)	211 (34.3%)	197 (32.0%)	212 (34.5%)	225 (36.6%)	214 (34.8%)	223 (36.3%)	223 (36.3%)	217 (35.3%)
Region 4 (EC) Total Beds 365	Percent COVID1. 900 000	91 (24.9%)	86 (23.6%)	86 (23.6%)	102 (27.9%)	108 (29.6%)	100 (27.4%)	106 (29.0%)	109 (29.9%)	97 (26.6%)	109 (29.9%)	110 (30.1%)	87 (23.8%)	93 (25.5%)	93 (25.5%)
Region 5 (SE) Total Beds 326	Percent COVID1. 900 900 900	88 (27.0%)	93 (28.5%)	99 (30.4%)	103 (31.6%)	97 (29.8%)	105 (32.2%)	93 (28.5%)	91 (27.9%)	72 (22.1%)	78 (23.9%)	78 (23.9%)	83 (25.5%)	93 (28.5%)	101 (31.0%)
Region 6 (Central) Total Beds 407	Percent COVID1. 900 000 000	127 (31.2%)	117 (28.7%)	123 (30.2%)	143 (35.1%)	138 (33.9%)	140 (34.4%)	137 (33.7%)	124 (30.5%)	121 (29.7%)	114 (28.0%)	109 (26.8%)	115 (28.3%)	111 (27.3%)	111 (27.3%)
Region 7 (Tulsa) Total Beds 1,751	Percent COVID1. 900 900 900	413 (23.6%)	432 (24.7%)	443 (25.3%)	447 (25.5%)	456 (26.0%)	458 (26.2%)	466 (26.6%)	408 (23.3%)	431 (24.6%)	468 (26.7%)	447 (25.5%)	435 (24.8%)	428 (24.4%)	429 (24.5%)
Region 8 (OKC) Total Beds 1,515	Percent COVID1. 900 - 900 900 - 900	547 (36.1%)	560 (37.0%)	589 (38.9%)	604 (39.9%)	579 (38.2%)	569 (37.6%)	563 (37.2%)	532 (35.1%)	531 (35.0%)	548 (36.2%)	542 (35.8%)	542 (35.8%)	533 (35.2%)	564 (37.2%)
		1/2/21	1/3/21	1/4/21	1/5/21	1/6/21	1/7/21	1/8/21	1/9/21	1/10/21	1/11/21	1/12/21	1/13/21	1/14/21	1/15/21



Redefining Surge: A Tiered Action Plan 10/27/20

(based upon 5673 staffed beds {medical-surgical & ICU beds excluding obstetrics, psych, pediatric & emergency rooms, rehabilitation & specialty hospitals})

Tier	Tier Action Plan Trigger (Each trigger activated upon 3 consecutive days at prior tier level)	Tier Interventions
Tier 1 <15% COVID patients in staffed beds	Up to 851 COVID Hospitalizations Statewide (Regionally at 15% total regional staffed beds)	 Hospitals utilize data sharing tools to aid in real-time transfers State provides telemedicine support to rural hospitals OHA facilitates expanded COVID training State assists with special patient needs
Tier 2 15%-19% COVID patients in staffed beds	852-1078 COVID Hospitalizations Statewide (Regionally at 15-19% total regional staffed beds)	 OHA and OSDH help develop post-acute and specialty hospital surge plans Selective reduction in elective procedures by hospitals (Every COVID patient has a bed) Hospitals implement shared staffing pool Executive Order canceling elective procedures Regionally (optional)
Tier 3 20-39% COVID patients in staffed beds	1079-2212 COVID Hospitalizations Statewide (Regionally at 20-39% total regional staffed beds)	 Hospitals implement surgical cancellation protocol Specialty surgical and Post-Acute care facilities actively receive low-acuity patients Request Catastrophic Health Emergency Executive Order reducing elective procedures by 50% Statewide (optional).
Tier 4 >39% COVID patients in staffed beds	More than 2212 COVID Hospitalizations Statewide (Regionally at >39% staffed beds)	 Emergent/urgent procedures only Executive Order cancelling all elective procedures Statewide (optional). Implement Crisis Standards of Care if necessary

Oklahoma Excess Deaths

Select a jurisdiction:

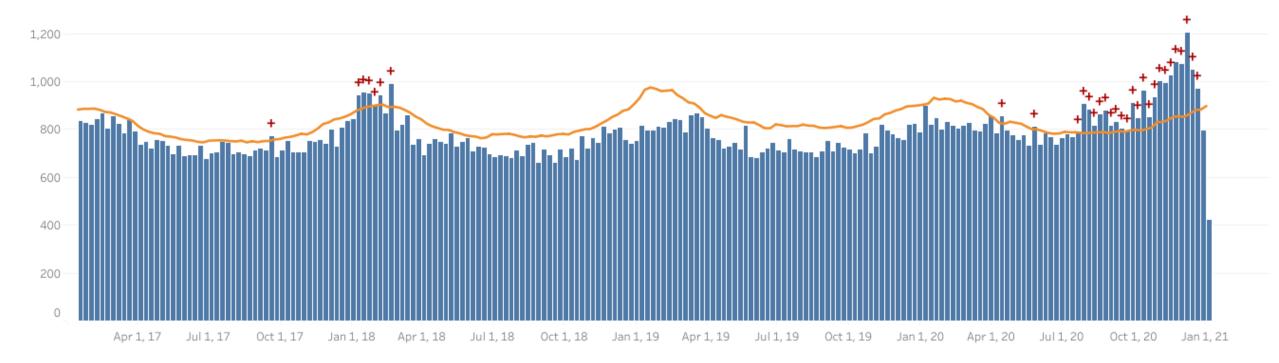
Oklahoma

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

Weekly number of deaths (from all causes)

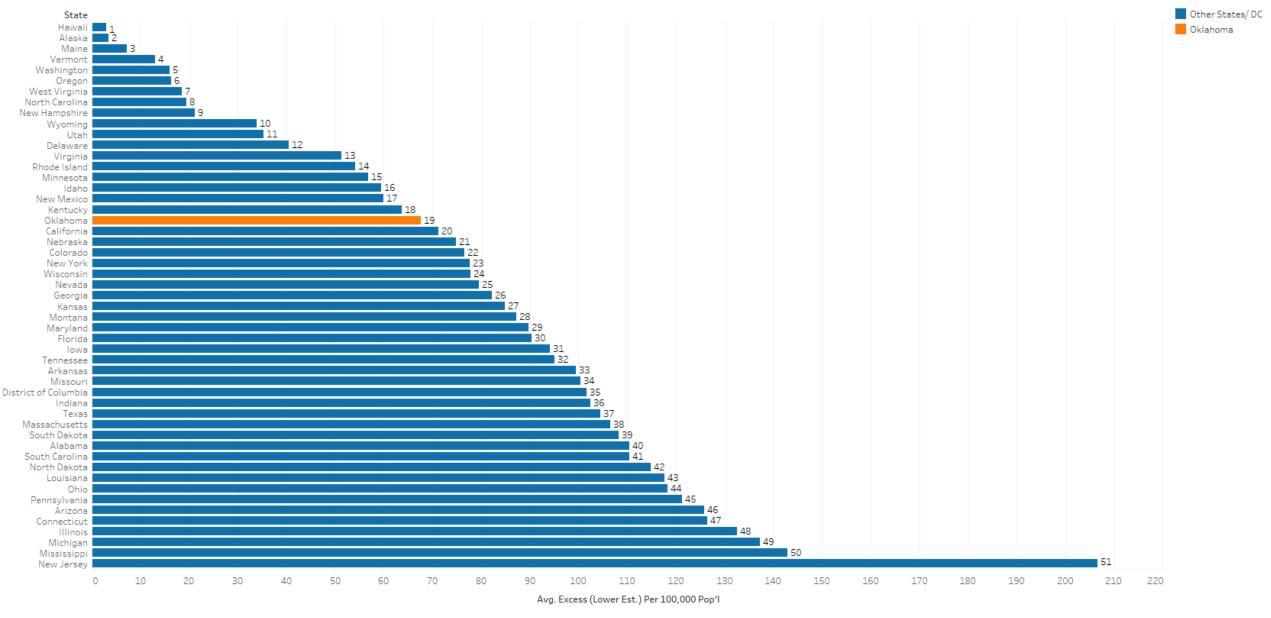
Data shown through week of Jan. 2nd

Pandemic time period Excess Estimate: 2,677 to 4,969 (25 weeks above threshold)



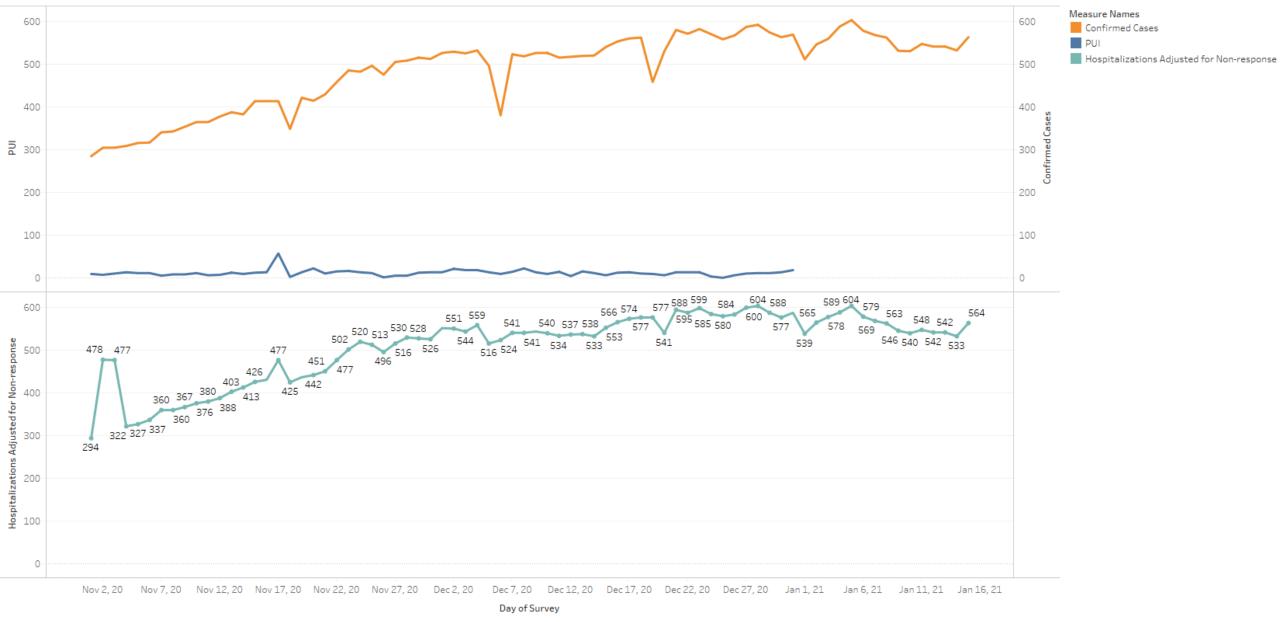
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Excess deaths (and Rank) per 100,000 population (Lower Estimate) - Data shown through week of 1/2/2020 Source: NCHS Excess Deaths Associated with COVID-19 https://www.cdc.gov/nchs/nvss/vsrr/covid19/excess_deaths.htm (Predicted weighted)



Average of Excess (Lower Est.) Per 100,000 Pop'l for each State. Color shows details about OK. The marks are labeled by Rank of Avg. Excess (Lower Est.) Per 100,000 Pop'l. The data is filtered on Exceeds Threshold, Outcome, Week Ending Date Year and Type. The Exceeds Threshold filter keeps True. The Outcome filter keeps All causes. The Week Ending Date Year filter keeps 2020. The Type filter keeps Predicted (weighted). The view is filtered on State, which excludes New York City, Puerto Rico and United States.

Region 8 (OKC) Hospitalizations (Confirmed Cases & PUI) Source: EMReseources Daily Survey



The trends of PUI, Confirmed Cases and Hospitalizations Adjusted for Non-response for Survey Day. Color shows details about PUI, Confirmed Cases and Hospitalizations Adjusted for Non-response. For pane Sum of Hospitalizations Adjusted for Non-response: The marks are labeled by Hospitalizations Adjusted for Non-response.



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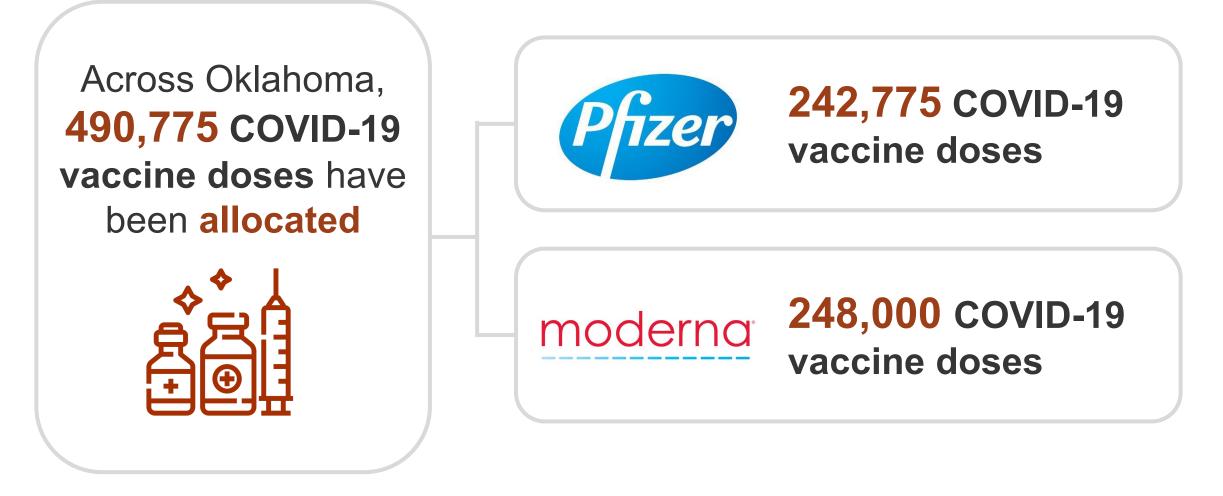
COVID-19 Vaccine Phases



Public Health Staff Supporting Front

Line Efforts

* The order of audiences listed under each respective phase **DOES NOT** necessarily indicate a subset of order, priority or access.

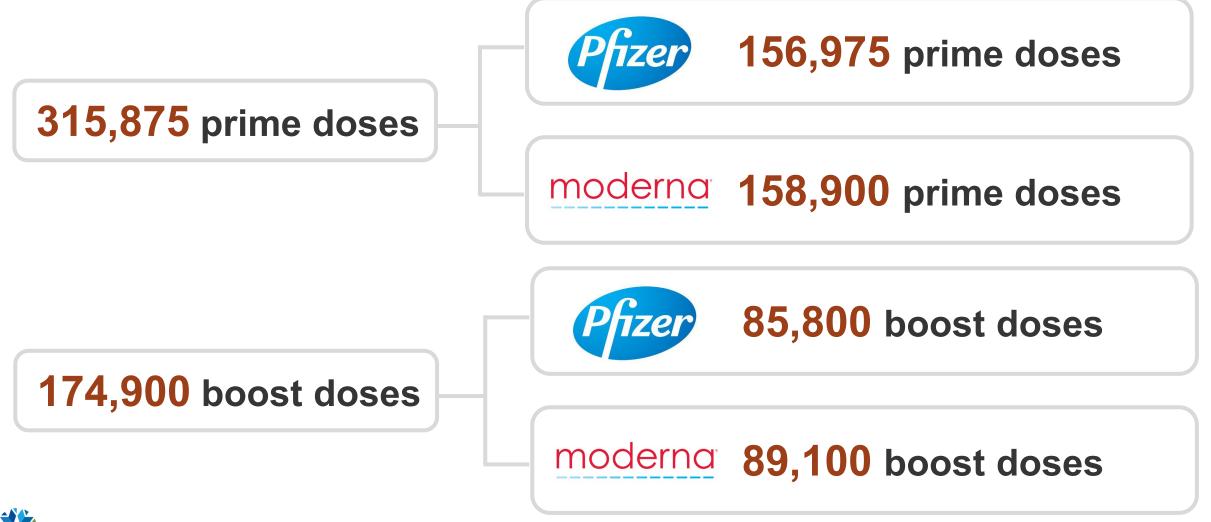


Note: The 490,775 doses include 25,350 doses allocated to CVS and 72,150 doses allocated to Walgreens



STATEWIDE COVID-19 VACCINE ALLOCATION (AS OF 1/18/2021)

Across Oklahoma, 490,775 COVID-19 vaccine doses have been allocated



Oklahoma State Department of Health

STATEWIDE COVID-19 VACCINE ADMINISTRATION (AS OF 1/17/2021)

205,008 people

have received the **prime dose** of the COVID-19 vaccine



29,989 people have completed the series, having received both the prime and boost doses





Across Oklahoma, a total of **234,997 COVID-19 vaccine doses** have been **administered** since 12/14/2020

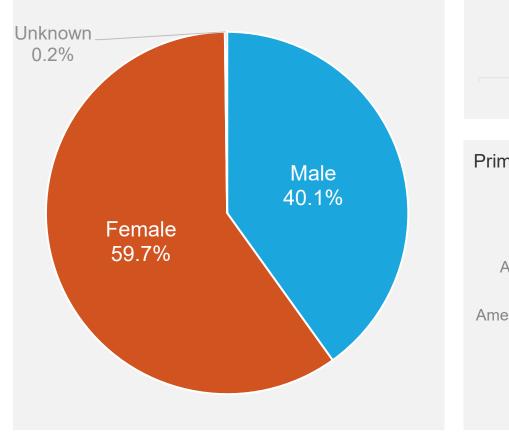


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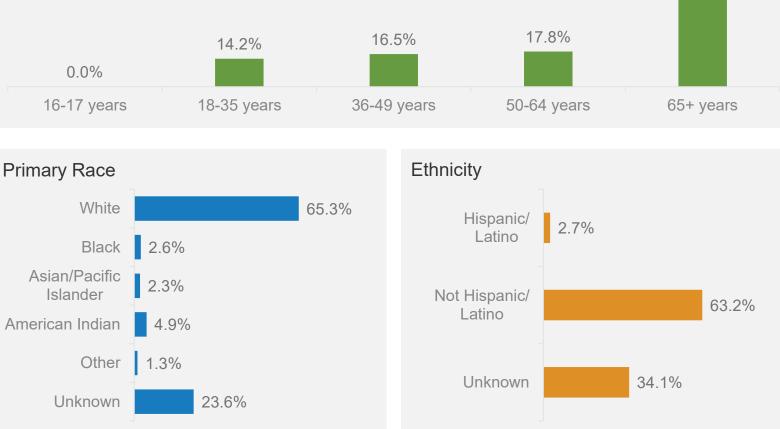
Data Source: COVID-19 Vaccination Reporting Specification (CVRS) Dataset - Oklahoma State Immunization Information System (OSIIS); Data reflect information entered as of 11:59PM 1/17/2021

STATEWIDE COVID-19 VACCINE ADMINISTRATION BREAKDOWN (AS OF 1/17/2021)

Among the **205,008 people** who received the prime dose, the **majority** are **female**



Among the **205,008 people** who received the prime dose, the **ages** ranged between **16-118 years**



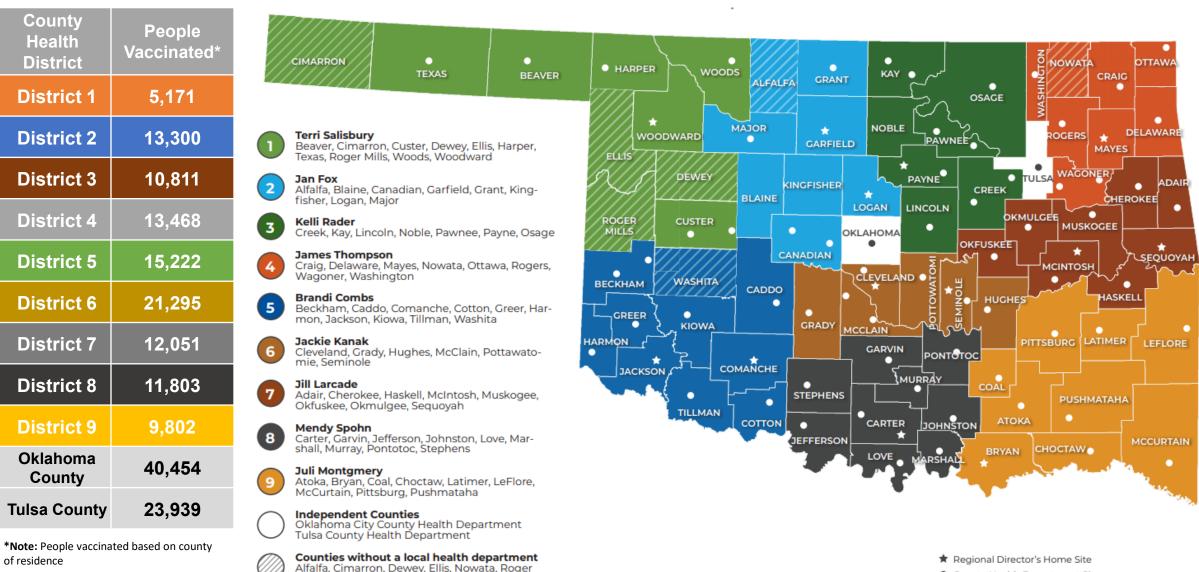
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51.4%

Data Source: COVID-19 Vaccination Reporting Specification (CVRS) Dataset - Oklahoma State Immunization Information System (OSIIS); Data reflect information entered as of 11:59PM 1/17/2021

OSDH COUNTY HEALTH DISTRICT COVID-19 VACCINE ADMINISTRATION (AS OF 1/14/2021)



County Health Department Site

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Mills, Washita

COUNTY LEVEL COVID-19 VACCINE ADMINISTRATION (AS OF 1/14/2021)

County of Residence	People Vaccinated
Adair	451
Alfalfa	285
Atoka	496
Beaver	227
Beckham	1,355
Blaine	458
Bryan	1,874
Caddo	1,600
Canadian	6,920
Carter	2,453
Cherokee	1,941
Choctaw	425
Cimarron	21
Cleveland	13,890
Coal	285
Comanche	6,627
Cotton	349
Craig	1,074
Creek	2,015

County of Residence	People Vaccinated
Custer	1,609
Delaware	2,138
Dewey	217
Ellis	231
Garfield	3,114
Garvin	1,366
Grady	1,681
Grant	204
Greer	450
Harmon	353
Harper	323
Haskell	728
Hughes	563
Jackson	2,280
Jefferson	214
Johnston	354
Kay	2,309
Kingfisher	613
Kiowa	972

County of Residence	People Vaccinated
Latimer	493
LeFlore	1,785
Lincoln	1,390
Logan	1,309
Love	519
Major	397
Marshall	621
Mayes	1,592
McClain	1,828
McCurtain	1,297
McIntosh	1,800
Murray	680
Muskogee	3,146
Noble	467
Nowata	194
Okfuskee	970
Oklahoma	40,454
Okmulgee	1,978
Osage	1,145
Ottawa	1,211

County of Residence	People Vaccinated
Pawnee	471
Payne	3,014
Pittsburg	2,671
Pontotoc	2,674
Pottawatomie	2,386
Pushmataha	476
Roger Mills	302
Rogers	2,539
Seminole	947
Sequoyah	1,037
Stephens	2,922
Texas	722
Tillman	523
Tulsa	23,939
Wagoner	2,906
Washington	1,814
Washita	713
Woods	583
Woodward	936
N/A	7,817

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Where we are heading...

Innovative Preparedness and Planning

- Coordination and a sound infrastructure are critical to a successful response
- Focused investment in supply chain and technology will remain a priority
- Comprehensive data systems are necessary to drive swift decision making
- Continued attention to public and private partnerships to sustain Oklahoma's recovery
- Understand plan for future treatment and vaccine distribution options for states
- · Remain nimble to adapt to the evolving needs of Oklahoma
 - Rural Health Care
 - Telemedicine
 - Catastrophic Health Crisis
 - Infrastructure
 - Culture and Staff



