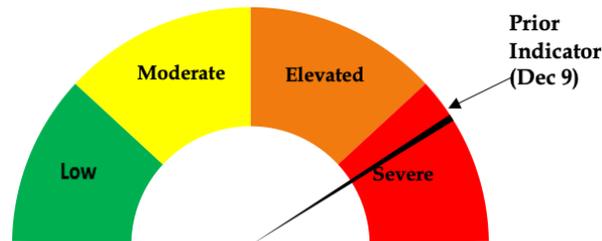




Risk Dial Dec 16, 2021



**Risk Dial for COVID-19
Two Rivers Public Health
Published Dec 16, 2021**

- 315 cases of COVID-19 were recorded in TRPHD between December 8 - December 14. Over 12% of all tests recorded in the district are positive. Rising positivity rates combined with a drop in overall number of new positive cases seems to indicate wider use of other testing equipment (eg: home testing kits). Holdrege city in particular saw a dramatic increase in positivity rate in the last week.
- Today marks one year since first delivery of COVID vaccines to the district. As of Wednesday morning, about 51% of the total population of TRPHD has received at least one dose of the COVID-19 vaccine. TRPHD has publicly announced 175 deaths due to COVID-19 in the district, almost 70% of these among persons aged 70 years and over
- As of Wednesday morning, there were 4 available ICU beds in TRPHD . 13 out of 17 patients who are on ventilator support across the district have an active COVID diagnosis. Med/Surg bed availability is less than 30% across the district currently.
- A public COVID testing site is now open in Kearney city at the Buffalo County Fairgrounds. Testing results are available the same day and are offered Mondays & Wednesdays 9:30AM - 12:30PM. Those desirous of COVID testing are required to register at www.trphd.org for scheduling.
- As of Dec 8, 2021, over half of TRPHD's total population had received at least one dose, and 49% had received minimum doses as recommended (1 or 2 as indicated), compared to 64% of the entire state population. TRPHD strongly urges all unvaccinated vaccine-eligible residents to avail of the COVID vaccination through their healthcare provider, pharmacy or TRPHD. For schedule of vaccination clinics, see www.trphd.org
- For these reasons, the risk dial is raised from last week in the 'severe' (red) zone. The dial reading reflects increased morbidity among hospitalized COVID patients, higher bed occupancy rates and high test positivity rates across TPHD.



Weekly report Dec 8 – Dec 14, 2021

Overview

The weekly report will look at COVID-19 cases in TRPHD across different time periods, presenting graphs showing daily progress of cases and a weekly summary in conclusion

- The tables describe vaccination, total tests conducted and positive cases across TRPHD from **Dec 8 – Dec 14** (1 week) and **Nov 16 – Dec 14** (4 weeks). We describe new cases by age, gender and county of residence, and present weekly and monthly **test positivity rates**. We describe cases in residential facilities separately from tests in hospitals, & pharmacies¹. Vaccination rates refer to persons who have received the minimum recommended dose.
- The first graphic describes **the vaccination rate of TRPHD residents by county of residence and age** between **Dec 15, 2020 – Dec 12, 2021**. We present the proportion of persons who have received the minimum recommended dose (2 for Pfizer & Moderna; 1 for Janssen vaccines)
- The second set of graphs look at the progress of the pandemic from **April 1, 2020 – Dec 14, 2021** across all counties.
 - We describe the **7-day rolling average**² of positive cases across TRPHD since April, describing overall progress and cases by **age categories**
- The third set of graphs describe the **COVID test positivity rate** in TRPHD from **March 15, 2020 – December 14, 2021**. The graph also shows the **total deaths due to COVID-19** that were recorded in TRPHD, describing cumulative numbers by age³
- The fourth set of graphs describe the daily case average (7-day rolling) across towns and cities in three urban areas (**Kearney, Lexington, Holdrege**) (Jul 1, 2020- Dec 14, 2021)⁴
 - The cities described are **Kearney, Elm Creek, Pleasanton, Amherst, Riverdale, Gibbon, Shelton and Axtell** (total 39,412 people), **Lexington, Overton, Elwood, Johnson Lake and Cozad** (total 15,700 people), **Holdrege, Loomis and Funk** (total 5967 people).
- The fifth set of graphs describe daily cases (7-day rolling average) from **Nov 16 – Dec 14, 2021**.
 - Progress is described by age & county of residence.

To conclude, 315 new COVID cases were detected in the Two Rivers area last week. ICU bed availability has improved, however med/surg bed availability dipped below 30% across the district. COVID patients account for over 75% of all ventilator use currently. TRPHD has scheduled mobile vaccination clinics across the district, schedule can be found at <https://www.trphd.org/covid-19/event-calendar.html>. TRPHD is also operating a public COVID testing site at the Buffalo County Fairgrounds 9:30 AM – 12:30 PM, Mondays and Wednesdays. Those eligible for vaccines or booster doses are advised to contact their physician or their local pharmacy. To access services through Two Rivers health department, residents are required to visit www.trphd.org to register an appointment (for COVID testing or vaccination).

¹ For information on residential facilities, please see appendix 3

² 7-day rolling average refers to the sum of the cases reported on that day and the preceding 6 days divided by 7.

This number is presented for each day to ‘smooth out’ the line for cases.

³ For information on “average positivity rate”, please see appendix 2

⁴ For information on urban areas, please see appendix 5



Testing & Vaccination Overview

- As of Dec 14, 2021, over 60% of the total population of Two Rivers Health District has been tested at least once for COVID-19. More than 200,000 COVID tests have been conducted since March 1, 2020 and about 16,000 persons have tested positive at least once – over 800 have tested COVID positive more than once.⁵ TRPHD has publicly notified 175 deaths due to COVID-19 across the district.
- As of Dec 12, 2021, 48.9% of TRPHD’s entire population has been fully vaccinated.⁶ Details of vaccination rates by age in each of the seven counties in Two Rivers Health District is shown below. The legend for color codes used is also displayed. Percentages have been rounded off to the nearest whole number. Vaccines are currently available to all eligible residents aged 5 years and over.

	BUFFALO	DAWSON	FRANKLIN	GOSPER	HARLAN	KEARNEY	PHELPS	TRPHD
0-17 YRS	14%	16%	9%	9%	9%	16%	8%	14%
18-29 YRS	36%	51%	28%	38%	30%	43%	32%	39%
30-39 YRS	51%	56%	43%	35%	44%	43%	44%	50%
40-49 YRS	63%	59%	44%	53%	33%	68%	42%	58%
50-59 YRS	67%	61%	45%	49%	48%	54%	54%	61%
60-69 YRS	81%	80%	65%	68%	62%	76%	68%	77%
70-79 YRS	100%	88%	89%	61%	84%	83%	96%	93%
80+ YRS	94%	77%	77%	75%	58%	71%	79%	82%
ALL AGES	50%	51%	47%	46%	41%	49%	44%	49%

0% - 33%	Less than 1/3rd received 1 or 2 dose as recommended
34% - 49%	1/3rd to 1/2 received 1 or 2 dose as recommended
50%- 74%	1/2 to 3/4ths received 1 or 2 dose as recommended
75% & higher	Over 3/4ths received 1 or 2 dose as recommended

- How to read this table: (For eg.) : “51% of all Dawson county residents have received the minimum recommended vaccine dose (2 for Moderna & Pfizer; 1 for Janssen) However only 44% of all residents in Phelps county have received minimum recommended dose.”

⁵ Note: Data collection limitations (recording of different first names, alternate spellings, unrecorded or delayed antigen test results) hamper an exact count of measures like total persons tested, or number of distinct positive cases.

⁶ For information on vaccine-eligible population in each of the counties, please see appendix 4



- The table below provides details of positive cases detected in 7 counties in TRPHD in the past week (**Dec 8 – Dec 14**) and past 4 weeks (**Nov 16 – Dec 14**).
- Results are described by the site where tests were conducted, and include both antigen and PCR tests.

	Dec 8 – Dec 14 (1 week)			Nov 16 – Dec 14 (4 weeks)		
	Total Tests	Positive Results	Positivity Rate	Total Tests	Positive Results	Positivity Rate
Hospital/ Clinic	970	215	22.2%	3,931	955	24.3%
State Laboratory	14	1	7.1%	28	5	17.9%
Residential Facility	1,115	4	0.4%	6,079	27	0.4%
Lab/ Pharmacy	54	8	14.8%	273	49	17.9%
Other	373	87	23.3%	1,722	367	21.3%
TOTAL	2,526	315	12.5%	12,033	1,403	11.7%

- A total of 6079 tests were availed by residents and staff of long-term care and other **residential facilities** ⁷ in the last 4 weeks, and were almost all antigen tests. Details are provided below:

Residential Facility In:	Dec 8 – Dec 14 (1 week)			Nov 16 – Dec 14 (4 weeks)		
	Total Tests	Positive Results	Positivity Rate	Total Tests	Positive Results	Positivity Rate
Buffalo	291	1	0.3%	2,444	11	0.5%
Dawson	216	0	0.0%	928	4	0.4%
Franklin	0.0	0	0.0%	0.0	0	0.0%
Gosper	77	0	0.0%	375	1	0.3%
Harlan	7	0	0.0%	222	1	0.5%
Kearney	75	0	0.0%	292	1	0.3%
Phelps	371	2	0.5%	1,500	5	0.3%
Outside TRPHD	78	1	1.3%	318	4	1.3%
TOTAL	1115	4	0.4%	6,079	27	0.4%

- How to read this table: (For eg.) : “In the past week, 22% of tests conducted in hospitals and clinics across TRPHD were positive. In the past month, 11 positive COVID results were reported among staff and residents of residential facilities (mostly long-term living) in Buffalo county.”

⁷ For information on residential facilities, please see appendix 3
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 Kearney, NE 68845



- Non-routine testing refers to tests that are **not** conducted in residential and long-term living facilities. ⁸ These COVID tests are conducted mainly in hospitals, clinics and pharmacies. Details are provided below.

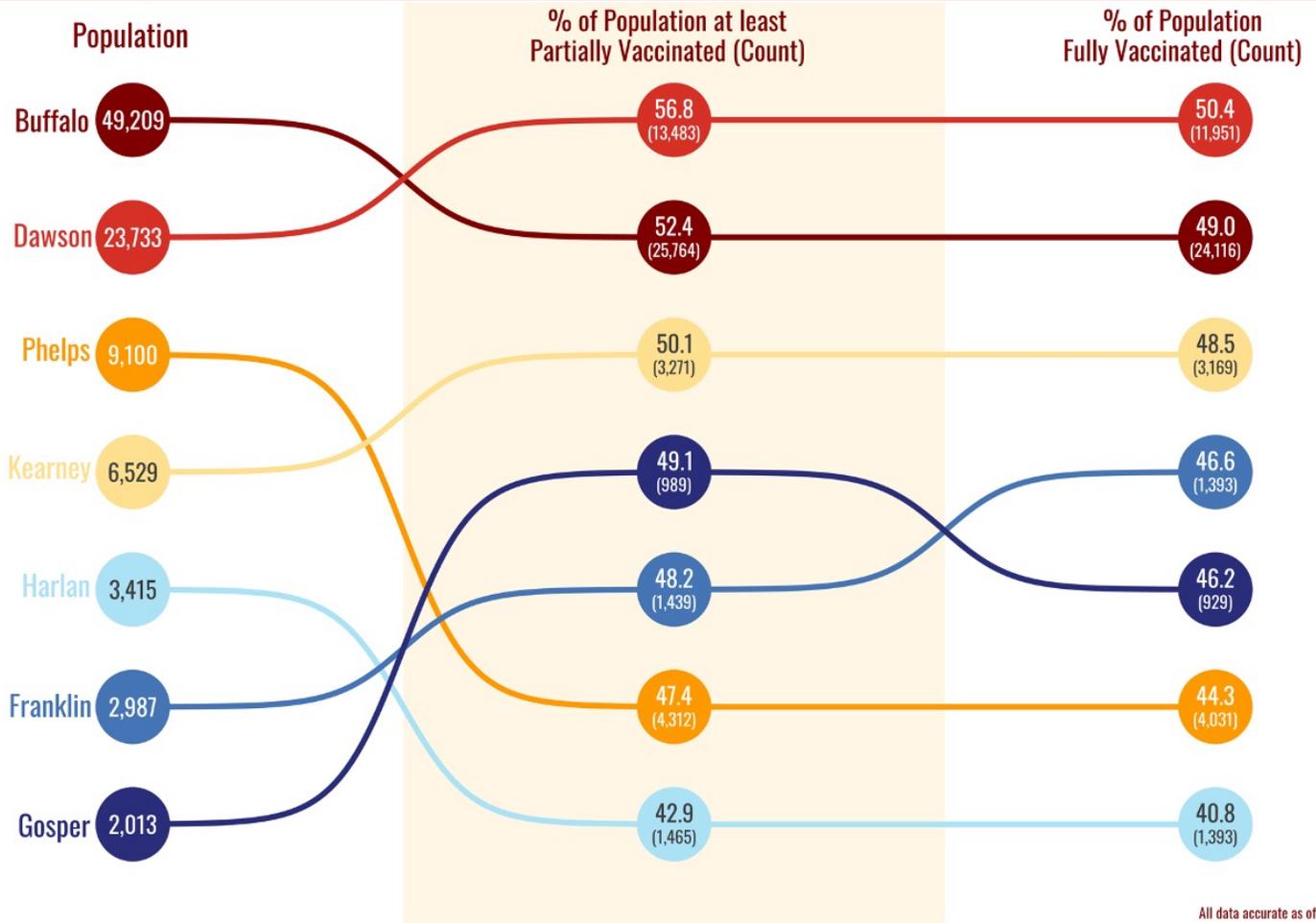
	Dec 8 - Dec 14 (1 week)			Nov 16 - Dec 14 (4 weeks)		
	Total tests conducted	Positive cases	P. rate (%)	Total tests conducted	Positive cases	P. rate (%)
County						
Buffalo	886	189	21.3%	3868	818	21.1%
Dawson	304	54	17.8%	1073	253	23.6%
Franklin	37	6	16.2%	90	26	28.9%
Gosper	10	4	40.0%	50	19	38.0%
Harlan	17	4	23.5%	67	22	32.8%
Kearney	65	6	9.2%	276	58	21.0%
Phelps	83	47	56.6%	500	175	35.0%
Data missing/ not disclosed	9	1	11.1%	30	5	16.7%
Total	1,411	311	22.0%	5,954	1,376	23.1%
Age (in yrs)						
0-17	246	29	11.8%	1118	160	14.3%
18-29	243	43	17.7%	1084	208	19.2%
30-39	198	59	29.8%	848	237	27.9%
40-49	175	55	31.4%	690	189	27.4%
50-59	206	51	24.8%	746	206	27.6%
60-69	147	37	25.2%	647	175	27.0%
70-79	123	26	21.1%	468	120	25.6%
80-89	73	11	15.1%	353	81	22.9%
Total	1411	311	22.0%	5,954	1376	23.1%
Gender						
Female	786	161	20.5%	3,371	705	20.9%
Male	623	150	24.1%	2,572	665	25.9%
Data missing/ not disclosed	2	0	0.0%	11	6	54.5%
Total	1411	311	22.0%	5,954	1,376	23.1%

⁸ For information on residential facilities, please see appendix 3
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- The graph below describes **all TRPHD residents who are fully vaccinated** against COVID-19 between **December 15, 2020 - December 12, 2021**. All residents of the seven counties are included although the vaccine is currently available only to those 5 years or over.
- Each county is depicted by a colored circle, and the relative position of each corresponds to the proportion vaccinated. Actual numbers (count) are included in parenthesis.
- **Overall, 48.9% of TRPHD’s total population and 60.3% of all adult residents (18 years and over) have received the minimum prescribed dose of vaccine (2 for Pfizer, Moderna, 1 for Janssen).**

Vaccinations of Total Population in TRPHD

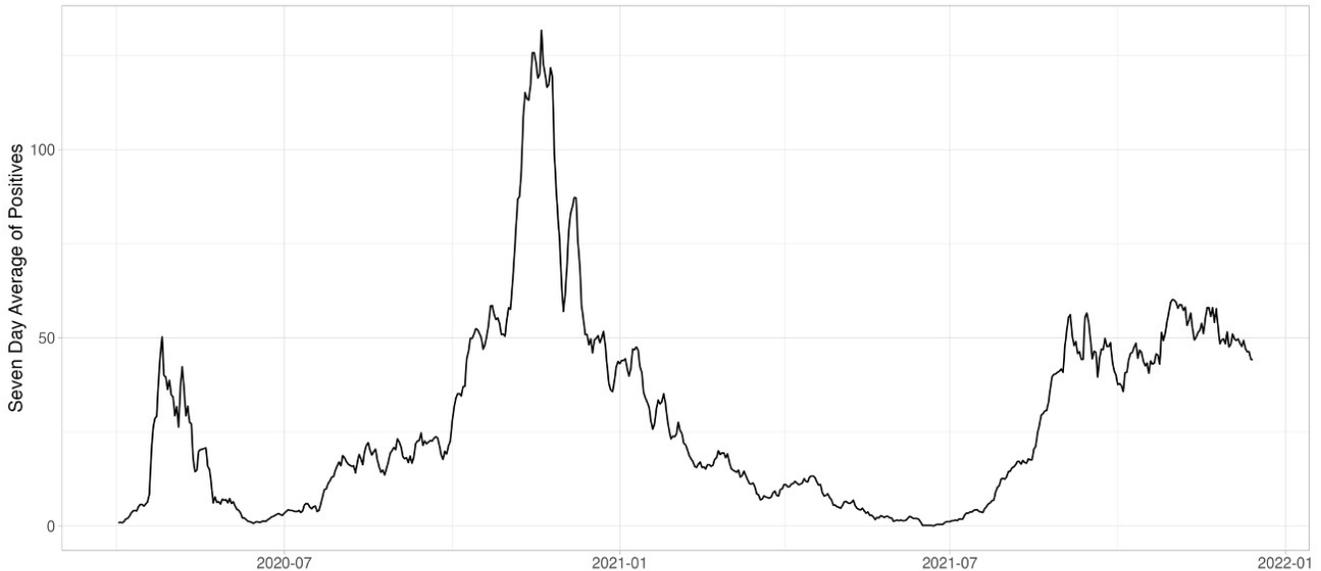




- The graph below describes 7-day rolling average of COVID-19 across TRPHD from **April 1, 2020 - Dec 14, 2021**.
- The second graph describes 7-day rolling average of COVID-19 cases by age across TRPHD for the same time period. The height of the graph corresponds to total cases and the thickness of each colored band corresponds to each age group.

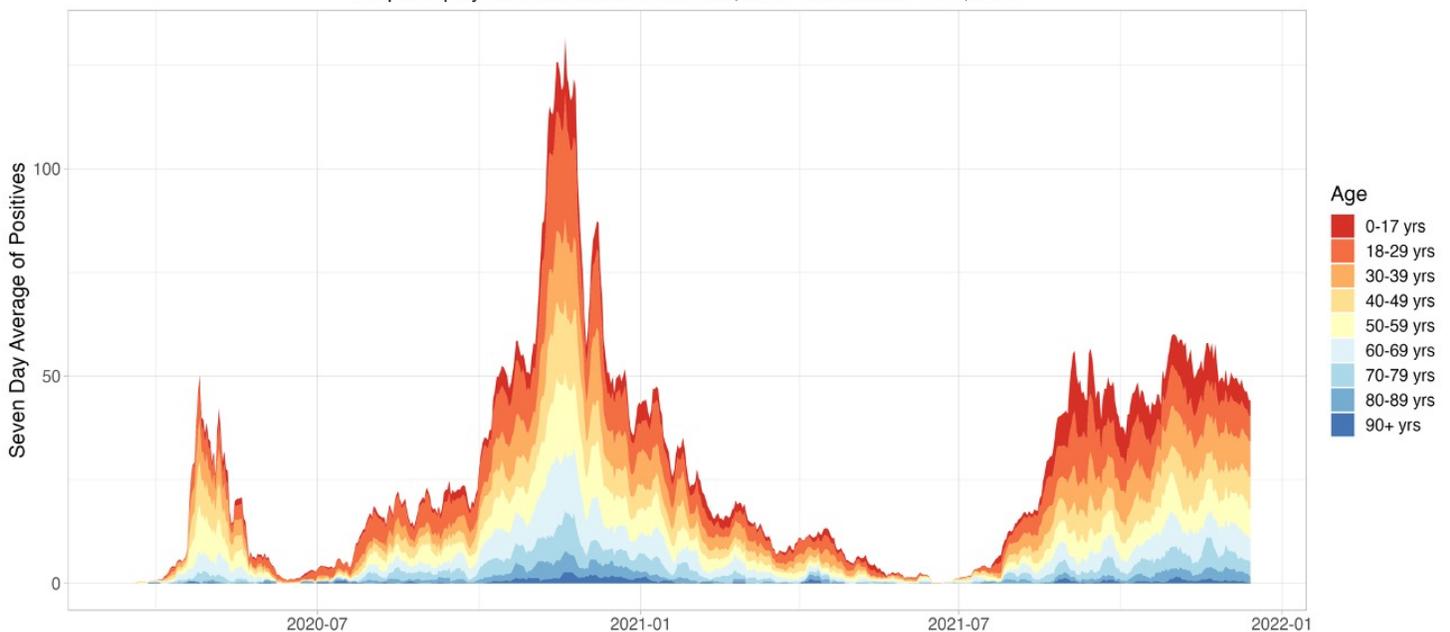
7 Day Rolling Average of Two Rivers

Graph displays data from April 1st, 2020 to December 14th, 2021



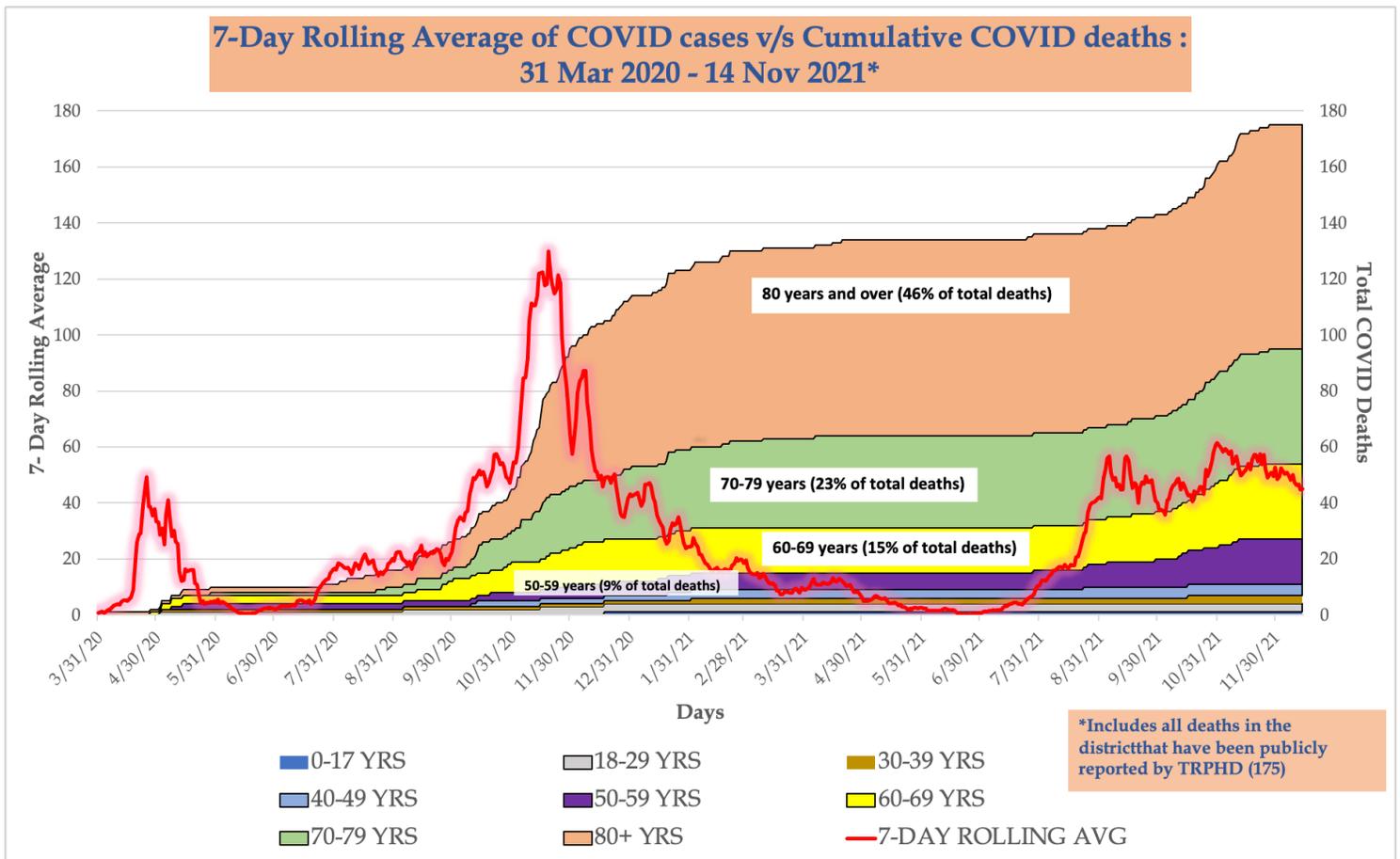
Daily Average of COVID-19 Cases in TRPHD by Age

Graph displays data from November 16th, 2021 to December 14th, 2021





- The graphs below describe the average **test positivity rate (7-day rolling average)**⁹ in TRPHD from **April 1, 2020 - December 14, 2021**. The graph depicts the entire county including Buffalo, Dawson, Phelps, Franklin, Gosper, Harlan and Kearney counties.
- Graph also describes the total **deaths due to COVID-19** among TRPHD residents between March 31, 2020 and November 14, 2021. Only deaths that have been publicly reported by TRPHD are included in the count.¹⁰
- Persons aged 50 years and over accounted for **over 93% of all deaths** recorded among TRPHD residents due to COVID-19.



⁹ For description of average positivity rate, see appendix 1

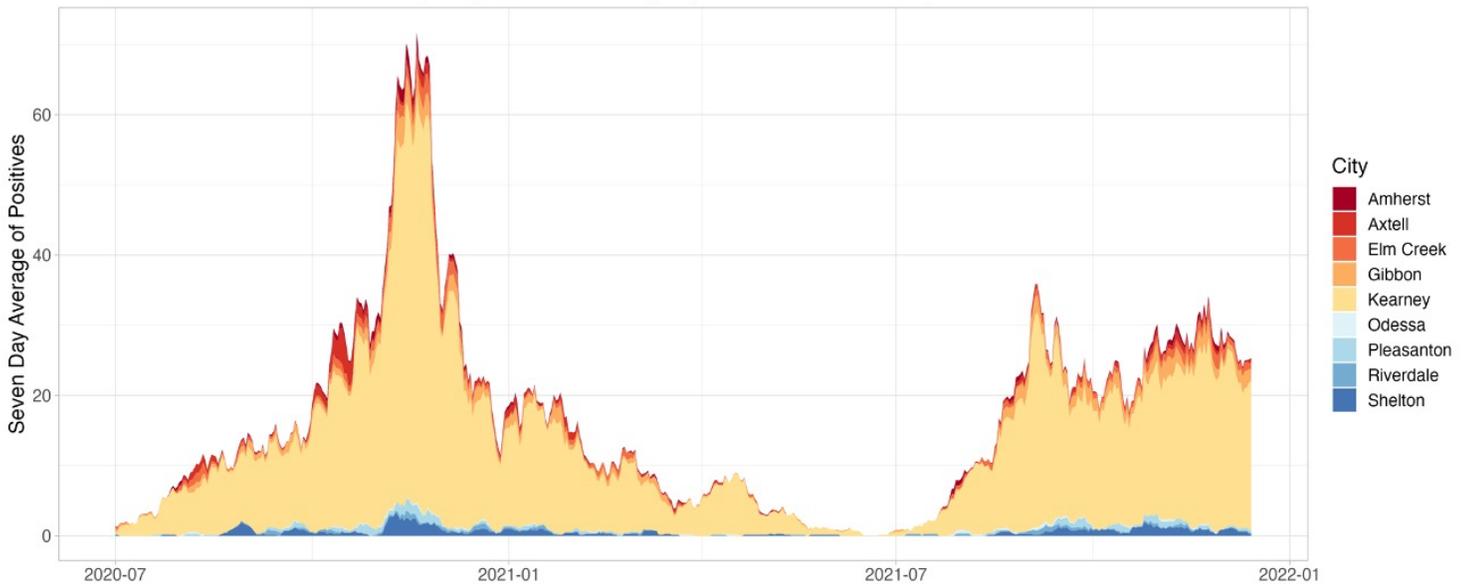
¹⁰ For description of death certification, investigation and CDC guidelines, please see appendix 1.



- The following graphs describe the average **daily COVID cases (7-day rolling)** in three urban areas in Two Rivers Health Department.
- The urban areas are Kearney city and surrounding towns (**Kearney, Elm Creek, Pleasanton, Amherst, Riverdale, Gibbon, Shelton and Axtell - total 39,412 people**), Lexington city and surrounding towns (**Lexington, Overton, Elwood, Johnson Lake and Cozad - total 15,700 people**), Holdrege city and surrounding towns (**Holdrege, Loomis and Funk - total 5967 people**).¹¹
- Time considered is from **July 1, 2020 - Dec 14, 2021**. Scales are different for all three graphs
- The graph for Kearney city and surrounding areas is presented below.

7 Day Rolling Average of COVID-19 Cases by City

Graph displays data from July 1st, 2020 to December 14th, 2021



Information Updated as of 12/14 at 8 p.m.

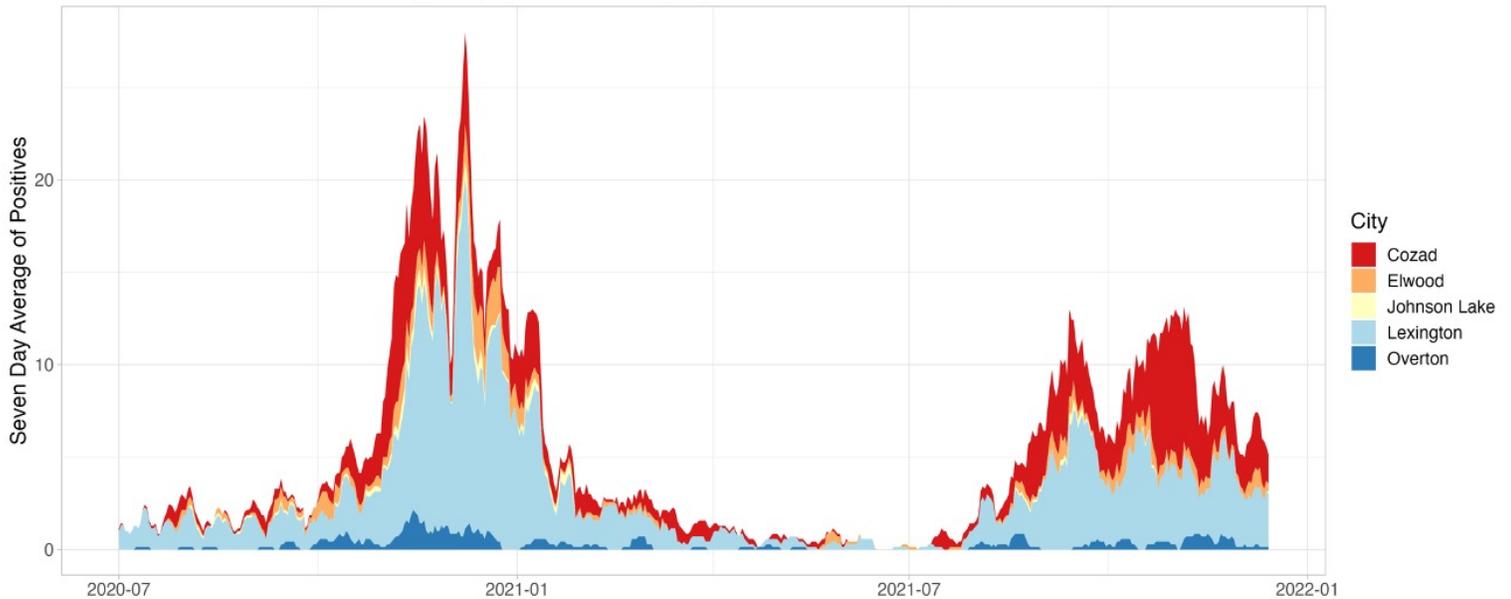
¹¹ For details about each of the urban areas, please see appendix 5
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- The **daily average (7-day rolling)** of positive cases in **Lexington** and **Holdrege** cities and surrounding towns between July 1, 2020 – Dec 14, 2021 are presented below.

7 Day Rolling Average of COVID-19 Cases by City

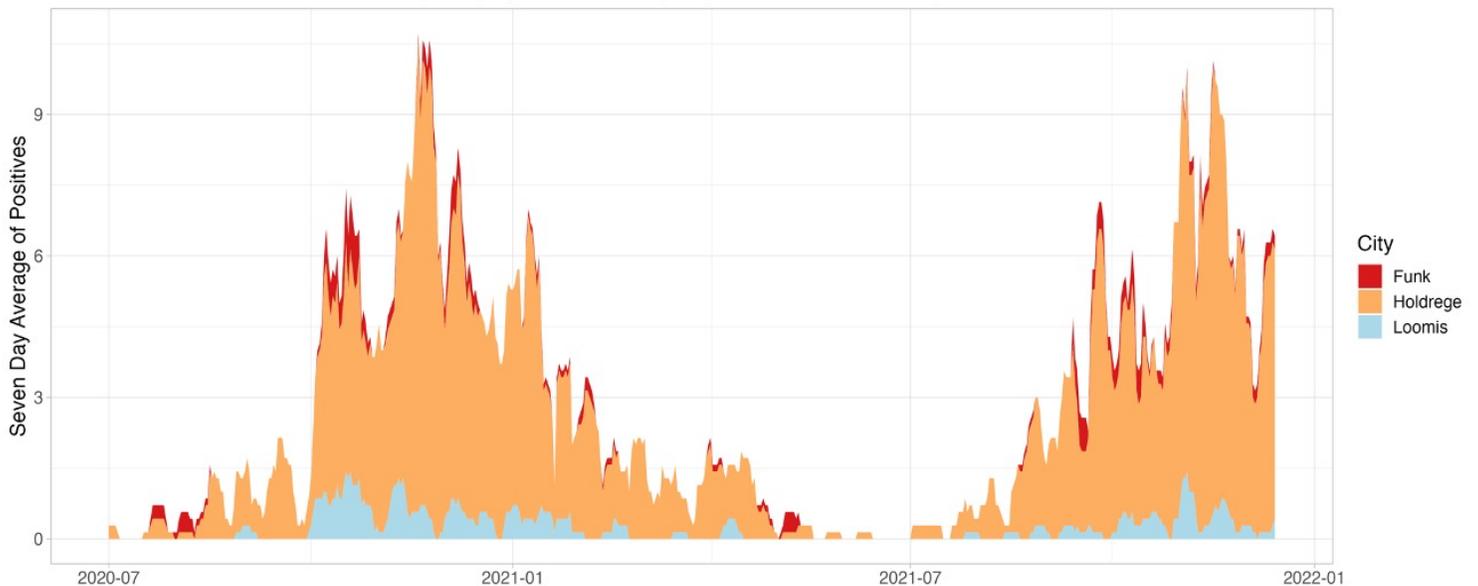
Graph displays data from July 1st, 2020 to December 14th, 2021



Information Updated as of 12/14 at 8 p.m.

7 Day Rolling Average of COVID-19 Cases by City

Graph displays data from July 1st, 2020 to December 14th, 2021



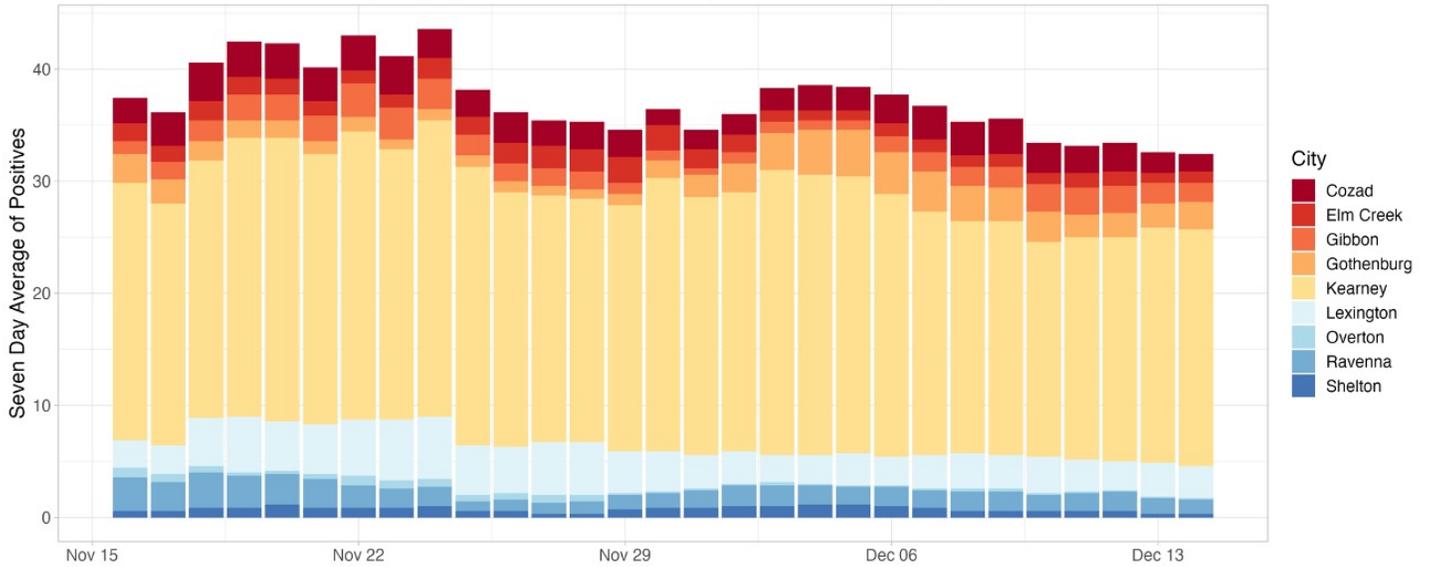
Information Updated as of 12/14 at 8 p.m.



- The following bar graphs describes the 7-day rolling averages by city for the past four weeks (Nov 16 – Dec 14) in TRPHD. The graph above shows cities in **Buffalo and Dawson** counties and the one below shows the graph for cities in **Gosper, Harlan, Kearney and Phelps** counties. The scale is different for both graphs.

7 Day Rolling Average of COVID-19 Cases Buffalo and Dawson County

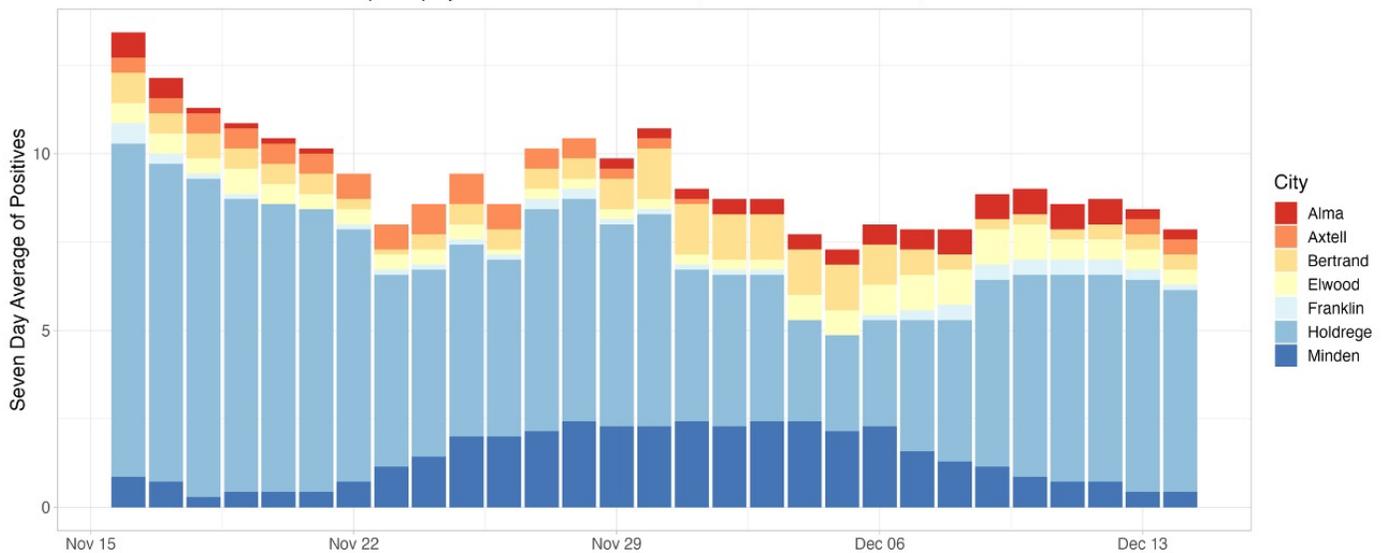
Graph displays data from November 16th, 2021 to December 14th, 2021



Information Updated as of 12/14 at 8 p.m.

7 Day Rolling Average of COVID-19 Cases Gosper, Franklin, Kearney, and Phelps County

Graph displays data from November 16th, 2021 to December 14th, 2021



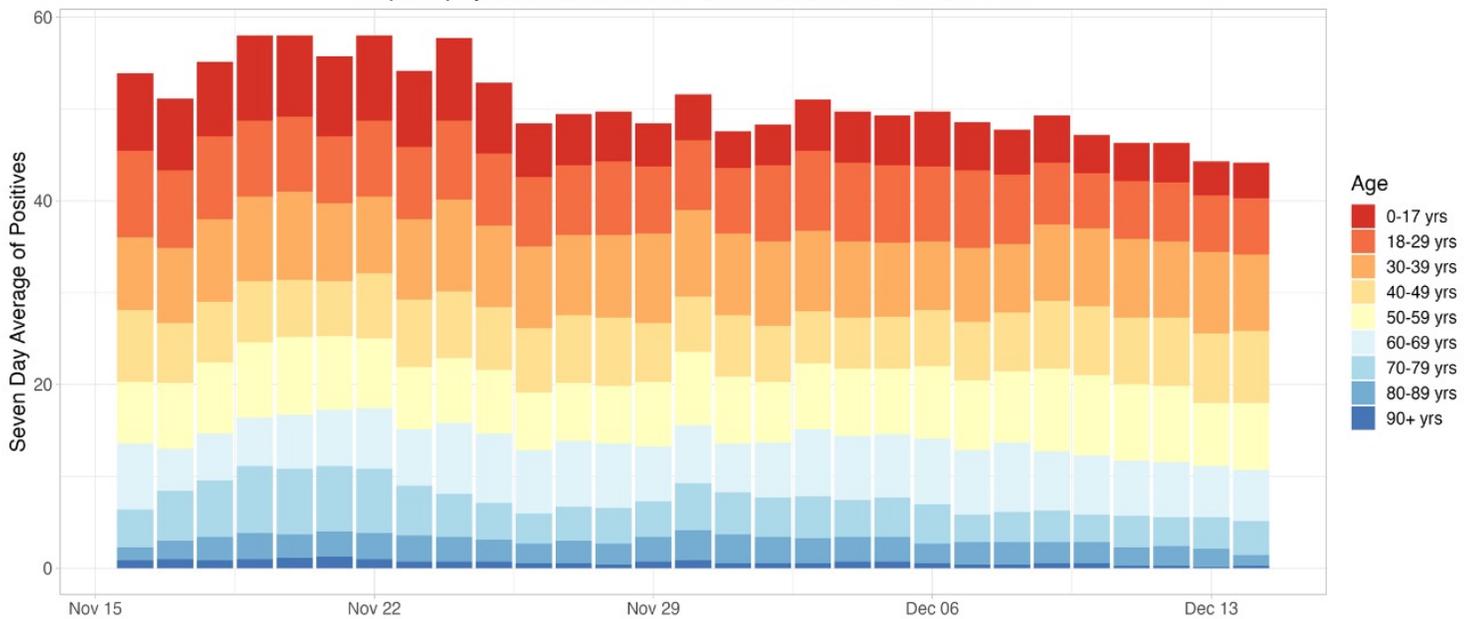
Information Updated as of 12/14 at 8 p.m.



- The graph below describes the **7-day rolling average** of cases from **Nov 16 - Dec 14** by age. The height of the graph corresponds to total cases and the thickness of each colored band corresponds to each age group.

7 Day Rolling Average of COVID-19 Cases in Two Rivers by Age

Graph displays data from November 16th, 2021 to December 14th, 2021



Information Updated as of 12/14 at 8 p.m.



Weekly summary

- 315 cases of COVID-19 were recorded in TRPHD between December 8 - December 14. Over 12% of all tests recorded in the district are positive. Rising positivity rates combined with a drop in overall number of new positive cases seems to indicate wider use of other testing equipment (eg: home testing kits). Holdrege city in particular saw a dramatic increase in positivity rate in the last week.
- Today marks one year since first delivery of COVID vaccines to the district. As of Wednesday morning, about 51% of the total population of TRPHD has received at least one dose of the COVID-19 vaccine. TRPHD has publicly announced 175 deaths due to COVID-19 in the district, almost 70% of these among persons aged 70 years and over
- As of Wednesday morning, there were 4 available ICU beds in TRPHD . 13 out of 17 patients who are on ventilator support across the district have an active COVID diagnosis. Med/Surg bed availability is less than 30% across the district currently.
- A public COVID testing site is now open in Kearney city at the Buffalo County Fairgrounds. Testing results are available the same day and are offered Mondays & Wednesdays 9:30AM - 12:30PM. Those desirous of COVID testing are required to register at www.trphd.org for scheduling.
- As of Dec 8, 2021, over half of TRPHD's total population had received at least one dose, and 49% had received minimum doses as recommended (1 or 2 as indicated), compared to 64% of the entire state population. TRPHD strongly urges all unvaccinated vaccine-eligible residents to avail of the COVID vaccination through their healthcare provider, pharmacy or TRPHD. For schedule of vaccination clinics, see www.trphd.org
- All persons aged 5 and over are eligible for the vaccine. TRPHD has scheduled vaccination clinics across seven counties to distribute vaccines and to focus on areas of potential shortfall.

To conclude, 315 new COVID cases were detected in the Two Rivers area last week. ICU bed availability has improved, however med/surg bed availability dipped below 30% across the district. COVID patients account for over 75% of all ventilator use currently. TRPHD has scheduled mobile vaccination clinics across the district, schedule can be found at <https://www.trphd.org/covid-19/event-calendar.html>. TRPHD is also operating a public COVID testing site at the Buffalo County Fairgrounds 9:30 AM - 12:30 PM, Mondays and Wednesdays. Those eligible for vaccines or booster doses are advised to contact their physician or their local pharmacy. To access services through Two Rivers health department, residents are required to visit www.trphd.org to register an appointment (for COVID testing or vaccination).



APPENDIX 1

Background

The Two Rivers Public Health Department (TRPHD) covers 7 counties in central Nebraska, reaching 97,132 people who live and work in the health district spread across roughly 4663 square miles. Over three quarters of residents live in Buffalo and Dawson county, a tenth live in Phelps county, and the remaining 15% is spread somewhat comparably among the four counties of Kearney, Harlan, Franklin and Gosper in decreasing order of population. The largest cities are Holdrege (pop. 5408), Lexington (pop. 10115) and Kearney (pop. 33867) meaning that well over half the residents of TRPHD live in three cities, and over a third are in Kearney alone. The population of all 7 counties in TRPHD are shown below.

County	Population
Buffalo	49,659
Dawson	23,595
Franklin	2,979
Gosper	1,990
Harlan	3,380
Kearney	6,495
Phelps	9,034
TRPHD total	97,132
Nebraska state	1,934,408
United States	328,239,523

- Data is presented as 7-day rolling averages for daily numbers and absolute counts for cumulative cases. The 7-day rolling average is the sum of all cases reported on that day plus the previous six divided by 7.
- Total (cumulative) cases refer to all COVID cases that have been confirmed by testing in the district since the beginning of the pandemic in TRPHD (March 19)
- All tests refers to all types of tests conducted across the Health District, including laboratory-based PCR and rapid antigen.
- Average positivity rate refers to a seven-day rolling average positivity rate, which is the sum of all cases for that day and the previous six divided by the sum of all tests done in that day and the previous six. This is also the same as the “weekly positivity rate”
- In cases that call for comparison across larger areas (counties v/s state of Nebraska, for eg), we present the count per 100,000 population. 100,000 roughly corresponds to the population of Two Rivers Health District (97,132)
- In cases that call for comparison between cities, (Kearney v/s Minden for eg), we present a count per 10,000 population. 10,000 roughly corresponds to the population of Lexington (10,115), the second largest city in TRPHD.
- Deaths due to COVID-19 are identified in death certificates (usually COVID -19 is the Underlying Cause of Death) and attested by the attending physician or medical examiner/ coroner. Each case is further investigated by TRPHD over telephone - the next



of kin is contacted, condolences conveyed and exit interviews conducted by Department staff before releasing a public notification. For further details on the procedure for COVID-19 death certification, please see <https://www.cdc.gov/nchs/data/nvss/vsrg/vsrg03-508.pdf>

- For calculation, we use the 2019 mid- year census estimate (American Community Survey, ACS) and data from The Atlantic’s COVID tracking project (<https://covidtracking.com/data>)

APPENDIX 2

Total (cumulative) cases per 100,000 population

The total/ cumulative case counts are the **total** cases confirmed by testing in an area (county, city, state or health district) calculated from the first recorded case (in case of TRPHD this is March 19, 2020). This is expressed as a fraction of the total population of the area and standardized to 100,000 persons. A population of 100,000 is used to compare counties as it is comparable to the overall population of Two Rivers Health District (97,032).

Total (cumulative) cases / 100,000 persons is calculated as:

[(Total positive test results for residents in the region)] / (mid-year population) * 100,000

Daily average of cases per 100,000 population

The daily average (7-day rolling) of cases is the sum of all cases reported on that day plus the previous six divided by 7. This is expressed as a fraction of the total population of the area and standardized to 100,000 persons. A population of 100,000 is used to compare counties as it is comparable to the overall population of Two Rivers Health District (97,032).

Daily average of cases / 100,000 persons is calculated as:

[(7-day rolling average of cases among residents)] / (mid-year population) * 100,000

APPENDIX 3

About a third of all tests conducted since March in the district have been availed by residents or staff of residential facilities. “Residential facilities” include long-term care facilities, in-patient psychiatry services, retirement villages, veterans’ homes and correctional facilities within Two Rivers Health District.

Considering the specific nature of COVID risk of long-term residents of institutional facilities and taking into account the frequent testing performed at facilities, we present numbers separately for long term care facilities and others in the district.



APPENDIX 4

Vaccine-eligible population

The total COVID-19 vaccine-eligible population of Two Rivers Health District is about 81,000. This includes all residents over the age of 11 years living in the seven counties that make up the district. The table below describes the eligible population in each of the seven counties divided by age category.

	12-29 YRS	30-49 YRS	50-64 YRS	65+ YRS	TOTAL(12+YRS)
TRPHD	24,794	22863	17760	15799	81,216
BUFFALO	14,314	11910	8184	6863	41,271
DAWSON	5,750	5723	4334	3696	19,503
FRANKLIN	515	586	717	809	2,627
GOSPER	333	418	532	526	1,809
HARLAN	625	649	735	845	2,854
KEARNEY	1,385	1508	1343	1239	5,475
PHELPS	1,872	2069	1915	1821	7,677

Vaccines used in TRPHD

In the first phase, COVID-19 vaccines have been approved for use in all persons over the age of 16 years. Currently, Pfizer and Moderna vaccine formulations are being offered in Two Rivers Health District. Use of the Johnson & Johnson (Janssen) vaccine formulation has been paused pending further scrutiny by the Food and Drug Administration (FDA).

The Nebraska Department of Health and Human Services paused use of the Johnson & Johnson (Janssen) COVID-19 vaccine after Centers for Disease Control and Prevention (CDC) and Food and Drug Administration (FDA) recommendations following reports of six women who have been hospitalized with severe blood clots after receiving the vaccine dose, including one woman in Douglas county. The women were aged between 18-48 years. Vaccine use was reinstated on April 26, 2021 and is now available at private pharmacies across the state.

To date, over 6.8 million doses of Janssen vaccine have been administered in the United States, over 31,500 in Nebraska, and 1560 in Two Rivers Health District.

Symptoms in the 6 hospitalized individuals included headache, back pain, other unexplained pain. Symptoms typically began 6-13 days after vaccination, and hospital admission was within 15 days, on average. More than 55% of the Janssen vaccine was administered before 22nd of March in Two Rivers Health District.



APPENDIX 5

Methods & Definitions

To better understand the course of the COVID-19 pandemic in Kearney, Lexington and Holdrege, we created ‘urban areas’ that included both the city and its surrounding towns. We included all towns within 20 miles of Kearney city, 15 miles of Lexington and 10 miles of Holdrege within each city’s urban area. The respective populations of all 7 counties in TRPHD are shown below. Kearney city accounts for over third of the population of TRPHD.

County	Population
Buffalo	49209
Dawson	23733
Franklin	2987
Gosper	2013
Harlan	3415
Kearney	6529
Phelps	9100
TRPHD total	96986
Nebraska state	1,934,408

Thus “Kearney area” includes Kearney city as well as Elm Creek, Pleasanton, Amherst, Riverdale, Odessa, Gibbon, Shelton and Axtell.

“Lexington area” includes Lexington city as well as Overton, Johnson Lake and Cozad.

“Holdrege area” includes Holdrege city, Loomis and Funk.

The populations of cities and villages is described below. Also included are Minden and Gothenburg, used as comparison points in descriptive statistics about the area.

CITY	POPULATION
Kearney	33867
Elm Creek	949
Axtell	751
Pleasanton	359
Riverdale	179
Amherst	253
Gibbon	1869
Shelton	1055
Odessa	130
KEARNEY URBAN AREA (TOTAL)	39412
Lexington	10115
Overton	567
Johnson Lake	600



Elwood	683
Cozad	3735
LEXINGTON URBAN AREA (TOTAL)	15,700
Holdrege	5408
Funk	183
Loomis	376
HOLDREGE URBAN AREA (TOTAL)	5967
Gothenburg	3489
Minden	2890

For presenting data, we selected 3 time frames:

- a) April 1 - current (From the beginning of the pandemic to most recent Tuesday)
- b) July 01 - current (From the beginning of second sustained 'wave' in daily case counts to current)
- c) Previous 4 weeks
 - Data is presented as 7-day rolling averages for daily numbers and absolute counts for cumulative cases. The 7-day rolling average is the sum of all cases reported on that day plus the previous six divided by 7.
 - Cumulative cases refer to all cases that have been confirmed in the district since the beginning of the pandemic in TRPHD (March 19)
 - Average positivity rate refers to a seven-day rolling average positivity rate, which is the sum of all cases for that day and the previous six divided by the sum of all tests done in that day and the previous six
 - Average positivity rate (in %) = (Sum of positive cases for current day + previous 6 days) / (Sum of total tests for current day + previous six days)
 - In cases that call for comparison across larger areas (counties v/s state of Nebraska, for eg), we present the count per 100,000 population. 100,000 roughly corresponds to the population of Two Rivers Health District (97,132)
 - In cases that call for comparison between cities, (Kearney v/s Minden for eg), we present a count per 10,000 population. 10,000 roughly corresponds to the population of Lexington (10,115), the second largest city in TRPHD.
 - For calculation, we use the 2019 mid- year estimate (American Community Survey, ACS) and data from The Atlantic's COVID tracking project (<https://covidtracking.com/data>)