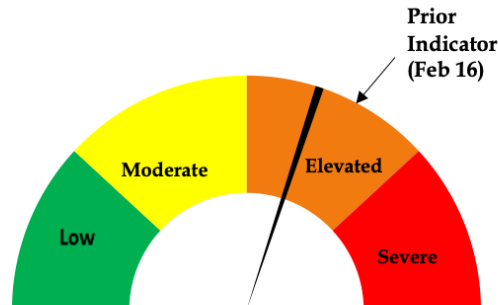




## Risk Dial Feb 24, 2022



### **Risk Dial for COVID-19 Two Rivers Public Health Published Feb 24, 2022**

- 86 cases of COVID-19 were recorded in TRPHD between February 16 - February 22. In keeping with the trend over the past 5 weeks, positive cases have declined by 50% from the previous week..
- COVID test positivity rate has declined in all testing settings. Positivity rate in tests done in hospitals and clinics has dropped to 10% for the first time since 22 July, 2021.
- As of Feb 22<sup>nd</sup>, 51.4% of the total population of TRPHD has received the minimum prescribed dose of the COVID-19 vaccine. Vaccination rates have shown little appreciable difference in the past month. The risk of hospitalization or serious illness following infection is significantly higher for unvaccinated persons.
- As of Wednesday morning, there were 14 ICU beds available in TRPHD (out of 32 overall). 32% of Medical/Surgical beds are available across the district.
- COVID patients account for over half the ventilators currently in use across the district. However, less than 13% of all vents in the district are being used for patient support.
- COVID testing is available at the Buffalo County Fairgrounds (Kearney city) Mondays & Wednesdays 9:30AM - 12:30PM. Those interested are required to register at [www.trphd.org](http://www.trphd.org) for scheduling.
- 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](http://www.trphd.org)
- For these reasons, the risk dial is lowered from last week in the 'elevated' (orange) zone. The dial reflects the steep decrease in new COVID cases and test positivity rates, consistent ICU bed availability and improvements in ventilator utilization trends.



## Weekly report Feb 16 – Feb 22, 2022

### 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 **Feb 16 – Feb 22** (1 week) and **Jan 26 – Feb 22** (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, & pharmacies<sup>1</sup>. 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 – Feb 22, 2022**. 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 – Feb 22, 2022** across all counties.
  - We describe the **7-day rolling average**<sup>2</sup> of positive cases across TRPHD since April, describing overall progress and cases by **age categories**
- The third graph describes the **7-day rolling average** and **deaths recorded daily** in TRPHD from **March 27, 2020 – February 22, 2022**.
- 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- Feb 22, 2022)<sup>3</sup>
  - 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 **Jan 26 – Feb 22, 2022**.
  - Progress is described by age & county of residence.

*To conclude, 86 new COVID cases were detected in the Two Rivers area last week. New cases have dropped for the fourth straight week, the weekly rate of decrease is between 35%-55%. A little over half of TRPHD's population is fully vaccinated and 43% of those have received a booster dose. TRPHD has scheduled vaccination clinics across the district, schedule can be found at <https://www.trphd.org/covid-19/event-calendar.html>. TRPHD is 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 TRPHD or their physician or local pharmacy. To access services through Two Rivers health department, residents are required to visit [www.trphd.org](http://www.trphd.org) to register an appointment (for COVID testing). TRPHD vaccination clinics accept walk-in customers and will provide appropriate vaccine dose as indicated.*

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<sup>1</sup> For information on residential facilities, please see appendix 3

<sup>2</sup> 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.

<sup>3</sup> For information on urban areas, please see appendix 5



### Testing & Vaccination Overview

- As of Feb 22, 2022, over 66% of the total population of Two Rivers Health District has been tested at least once for COVID-19. More than 234,000 COVID tests have been conducted since March 1, 2020 and almost 21,000 persons have tested positive at least once – at least 1600 have tested COVID positive more than once.<sup>4</sup> TRPHD has publicly notified 200 deaths due to COVID-19 across the district.
- As of Feb 22, 2022, over 51% of TRPHD’s entire population has been fully vaccinated.<sup>5</sup> 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	19%	19%	11%	13%	10%	20%	11%	18%
18-29 YRS	38%	55%	30%	42%	31%	45%	34%	42%
30-39 YRS	53%	61%	44%	36%	45%	44%	48%	53%
40-49 YRS	65%	63%	49%	53%	34%	69%	45%	61%
50-59 YRS	68%	65%	47%	49%	48%	55%	56%	63%
60-69 YRS	82%	83%	66%	72%	63%	77%	68%	78%
70-79 YRS	100%	89%	91%	61%	85%	84%	96%	94%
80+ YRS	95%	78%	77%	76%	57%	70%	80%	83%
ALL AGES	52%	54%	48%	48%	42%	51%	47%	51%

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.) : “60% of all Dawson county residents aged 30-39 years have received the minimum recommended vaccine dose (2 for Moderna & Pfizer; 1 for Janssen) However only 36% of all residents in their 30s in Gosper county have received minimum recommended dose.”

<sup>4</sup> 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.

<sup>5</sup> 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 (**Feb 16 - Feb 22**) and past 4 weeks (**Jan 26- Feb 22**).
- Results are described by the site where tests were conducted, and include both antigen and PCR tests.

	Feb 16 - Feb 22 (1 week)			Jan 26 - Feb 22 (4 weeks)		
	Total Tests	Positive Results	Positivity Rate	Total Tests	Positive Results	Positivity Rate
<b>Hospital/ Clinic</b>	433	44	10.2%	2467	616	25.0%
<b>State Laboratory</b>	57	4	7.0%	488	106	21.7%
<b>Residential Facility</b>	1228	21	1.7%	9646	140	1.5%
<b>Lab/ Pharmacy</b>	40	2	5.0%	294	106	36.1%
<b>Other</b>	200	15	7.5%	1395	331	23.7%
<b>TOTAL</b>	<b>1,958</b>	<b>86</b>	<b>4.4%</b>	<b>14,290</b>	<b>1,299</b>	<b>9.1%</b>

- A total of 10,705 tests were availed by residents and staff of long-term care and other **residential facilities** <sup>6</sup> in the last 4 weeks, and were almost all antigen tests. Details are provided below:

Residential Facility In:	Feb 16 - Feb 22 (1 week)			Jan 26 - Feb 22 (4 weeks)		
	Total Tests	Positive Results	Positivity Rate	Total Tests	Positive Results	Positivity Rate
<b>Buffalo</b>	669	7	1.0%	5221	64	1.2%
<b>Dawson</b>	94	1	1.1%	933	14	1.5%
<b>Franklin</b>	0	0	0.0%	0	0	0.0%
<b>Gosper</b>	5	0	0.0%	226	4	1.8%
<b>Harlan</b>	21	0	0.0%	296	3	1.0%
<b>Kearney</b>	149	1	0.7%	824	7	0.8%
<b>Phelps</b>	244	11	4.5%	1858	44	2.4%
<b>Outside TRPHD</b>	46	1	2.2%	288	4	1.4%
<b>TOTAL</b>	<b>1228</b>	<b>21</b>	<b>1.7%</b>	<b>9,646</b>	<b>140</b>	<b>1.5%</b>

- How to read this table: (For eg.) : “In the past month, 21% of tests conducted in hospitals and clinics across TRPHD were positive. In the past week, 21 positive COVID results were reported among staff and residents of residential facilities (mostly long-term living) across TRPHD”

<sup>6</sup> For information on residential facilities, please see appendix 3  
 516 W 11<sup>th</sup> Street, Suite 108  
 Kearney, NE 68845



- Non-routine testing refers to tests that are **not** conducted in residential and long-term living facilities. <sup>7</sup> These COVID tests are conducted mainly in hospitals, clinics and pharmacies. Details are provided below.

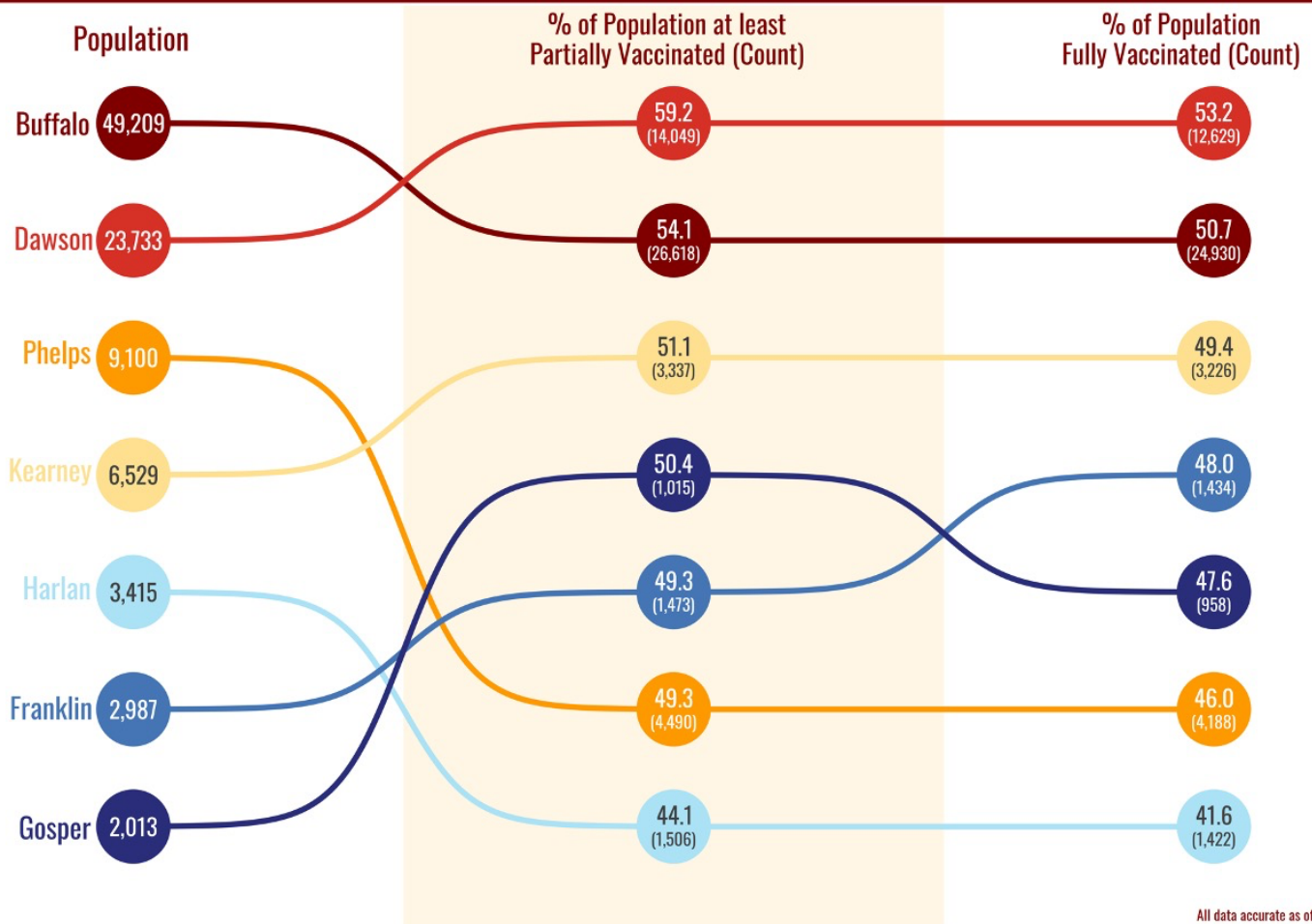
	Feb 16 – Feb 22 (1 week)			Jan 26 – Feb 22 (4 weeks)		
	Total tests conducted	Positive cases	P. rate (%)	Total tests conducted	Positive cases	P. rate (%)
<b>County</b>						
Buffalo	457	41	9.0%	2,900	645	22.2%
Dawson	186	10	5.4%	977	188	19.2%
Franklin	9	0	0.0%	72	19	26.4%
Gosper	8	2	25.0%	50	17	34.0%
Harlan	5	1	20.0%	46	12	26.1%
Kearney	22	3	13.6%	213	87	40.8%
Phelps	40	7	17.5%	365	185	50.7%
Data missing/ not disclosed	3	1	33.3%	21	6	28.6%
<b>Total</b>	<b>730</b>	<b>65</b>	<b>8.9%</b>	<b>4,644</b>	<b>1,159</b>	<b>25.0%</b>
<b>Age (in yrs)</b>						
0-17	107	11	10.3%	795	198	24.9%
18-29	128	5	3.9%	906	229	25.3%
30-39	86	10	11.6%	580	169	29.1%
40-49	57	2	3.5%	458	125	27.3%
50-59	73	8	11.0%	547	153	28.0%
60-69	84	12	14.3%	466	140	30.0%
70-79	83	11	13.3%	396	93	23.5%
80-89	112	6	5.4%	496	52	10.5%
<b>Total</b>	<b>730</b>	<b>65</b>	<b>8.9%</b>	<b>4,644</b>	<b>1159</b>	<b>25.0%</b>
<b>Gender</b>						
Female	450	35	7.8%	2,712	651	24.0%
Male	266	29	10.9%	1,803	495	27.5%
Data missing/ not disclosed	14	1	7.1%	129	13	10.1%
<b>Total</b>	<b>730</b>	<b>65</b>	<b>8.9%</b>	<b>4,644</b>	<b>1,159</b>	<b>25.0%</b>

<sup>7</sup> For information on residential facilities, please see appendix 3  
 516 W 11<sup>th</sup> Street, Suite 108  
 Kearney, NE 68845



- The graph below describes **all TRPHD residents who are fully vaccinated** against COVID-19 between **December 15, 2020 - February 22, 2022**. 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, 51.4% of TRPHD's total population and 62.4% 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 - Feb 22, 2022.**
- 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.

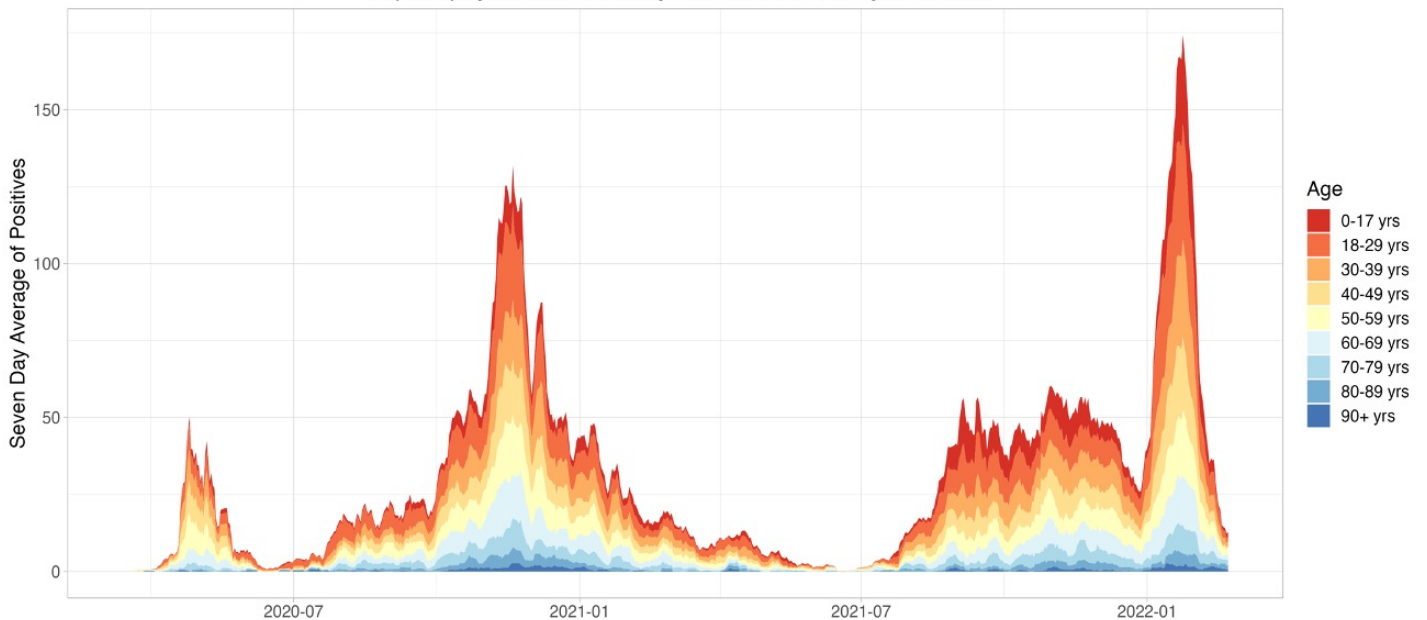
### 7 Day Rolling Average of Two Rivers

Graph displays data from April 1st, 2020 to February 22nd, 2022



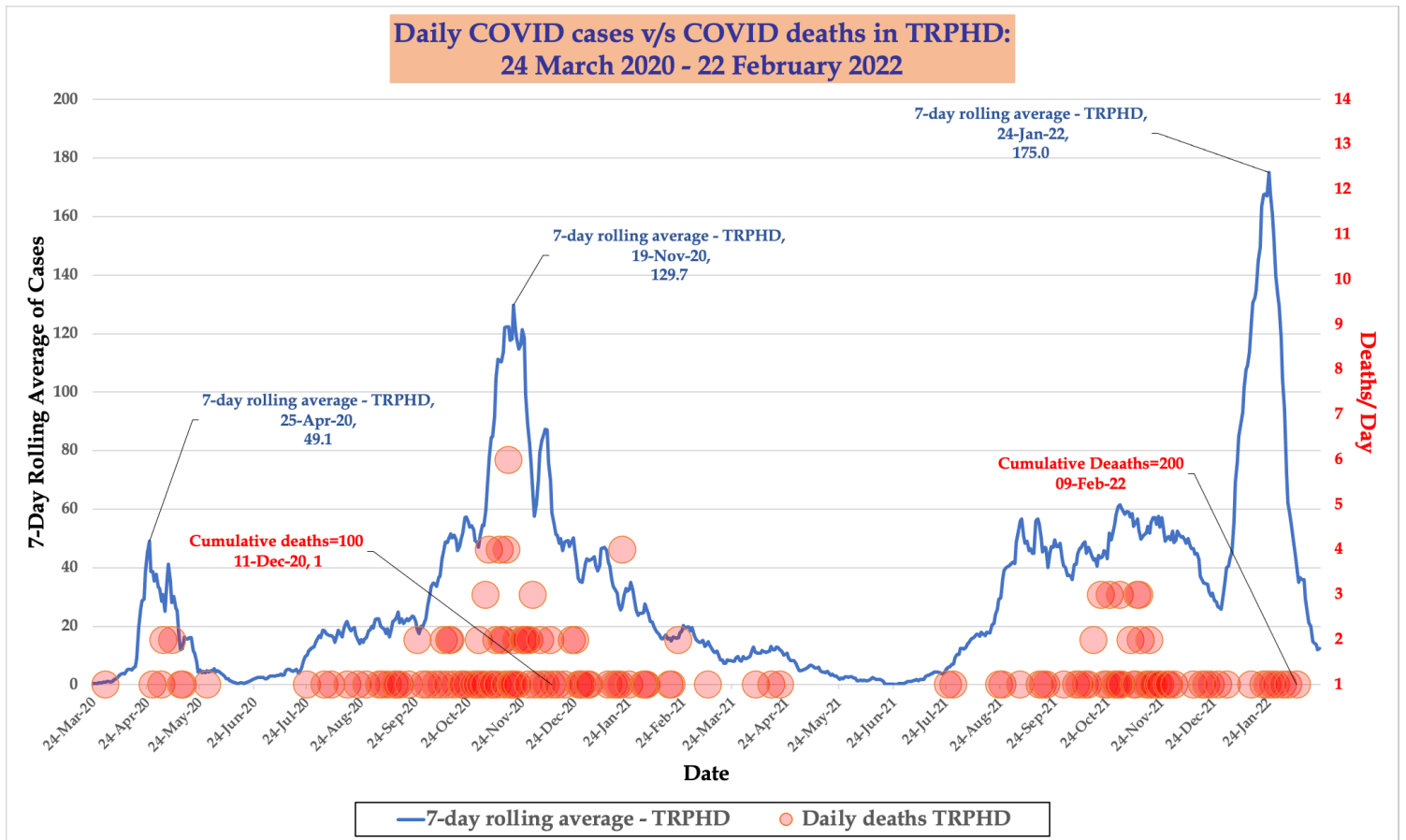
### Daily Average of COVID-19 Cases in TRPHD by Age

Graph displays data from January 25th, 2022 to February 22nd, 2022





- The graphs below describe the **daily average of COVID cases (7-day rolling)** <sup>8</sup> in TRPHD from **March 24, 2020 – February 22, 2022**. Also shown is the **daily COVID deaths** since March 2020. Each red circle corresponds to a death recorded that day. TRPHD has recorded a total of 200 deaths across the district due to COVID-19. Scales are different for both graphs. <sup>9</sup>



<sup>8</sup> For information on “weekly COVID case rate (7-day rolling avg)”, please see appendix 2

<sup>9</sup> 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 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>

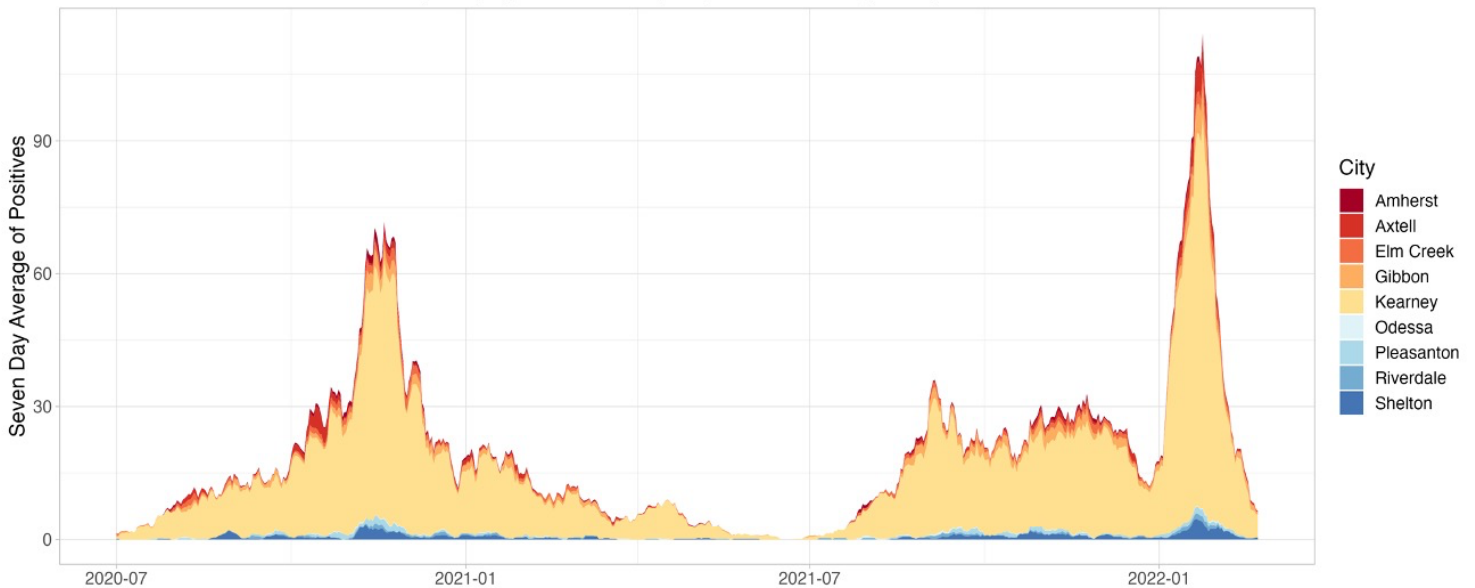




- The following graphs describe the average **daily COVID cases (7-day rolling)** in three urban areas in Two Rivers Health Department.
- The urban areas are Kearney city and surrounding towns (**Kearney, Elm Creek, Pleasanton, Amherst, Riverdale, Gibbon, Shelton and Axtell - total 39,412 people**), 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**).<sup>10</sup>
- Time considered is from **July 1, 2020 - Feb 22, 2022**. 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 February 22nd, 2022



Information Updated as of 2/22 at 8 p.m.

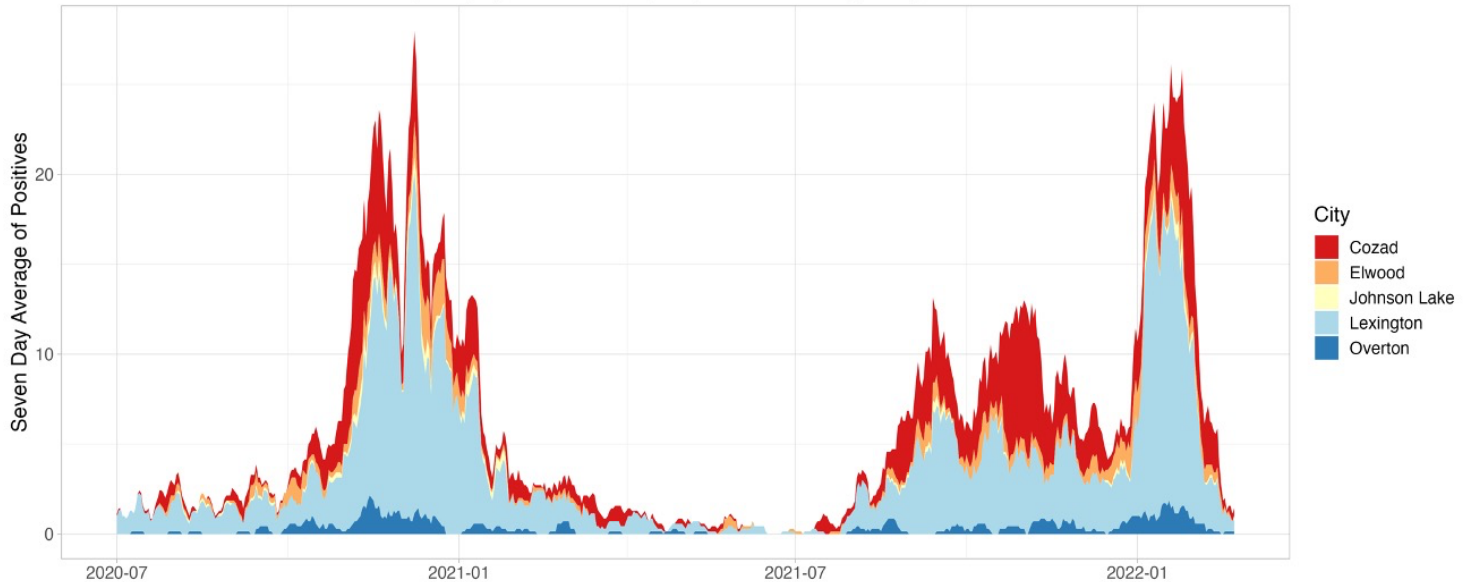
<sup>10</sup> For details about each of the urban areas, please see appendix 5  
516 W 11<sup>th</sup> Street, Suite 108  
Kearney, NE 68845



- The daily average (7-day rolling) of positive cases in Lexington and Holdrege cities and surrounding towns between July 1, 2020 – Feb 22, 2022 are presented below.

### 7 Day Rolling Average of COVID-19 Cases by City

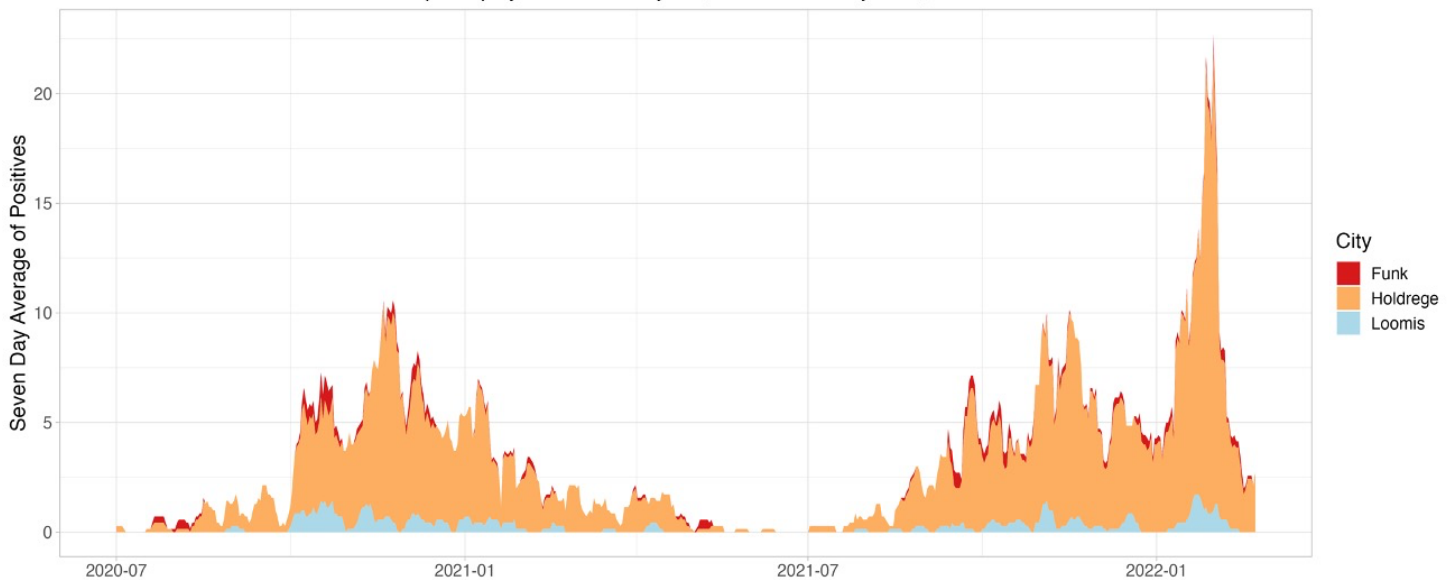
Graph displays data from July 1st, 2020 to February 22nd, 2022



Information Updated as of 2/22 at 8 p.m.

### 7 Day Rolling Average of COVID-19 Cases by City

Graph displays data from July 1st, 2020 to February 22nd, 2022



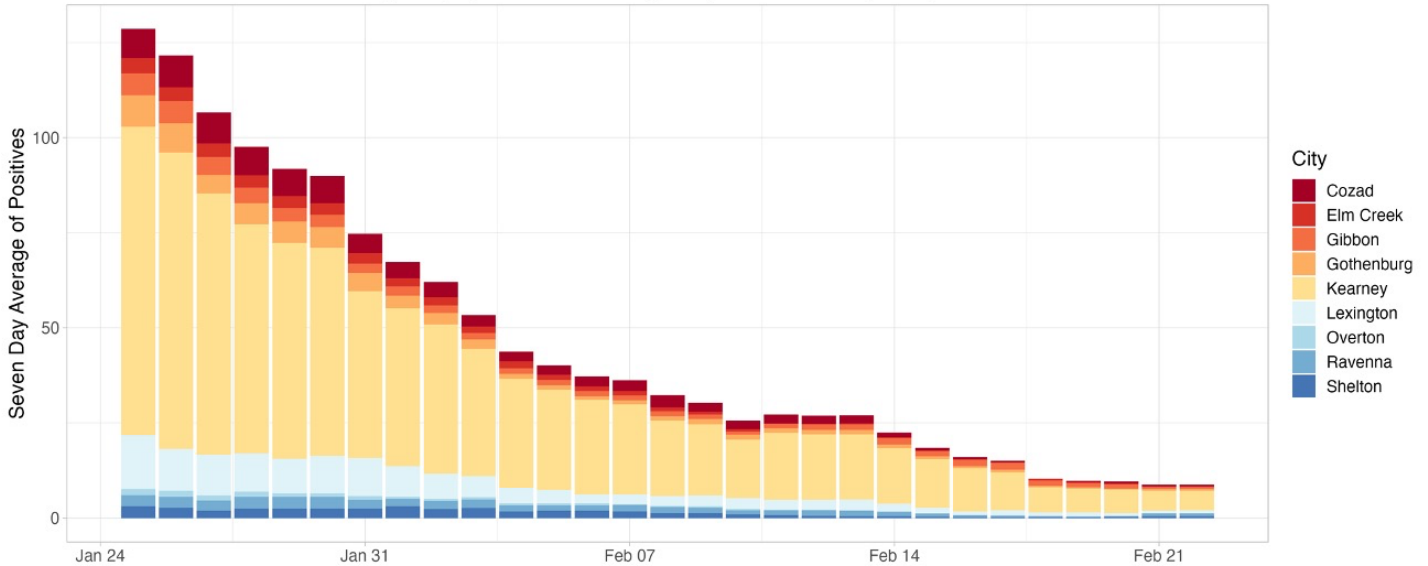
Information Updated as of 2/22 at 8 p.m.



- The following bar graphs describes the 7-day rolling averages by city for the past four weeks (**Jan 26 - Feb 22**) 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

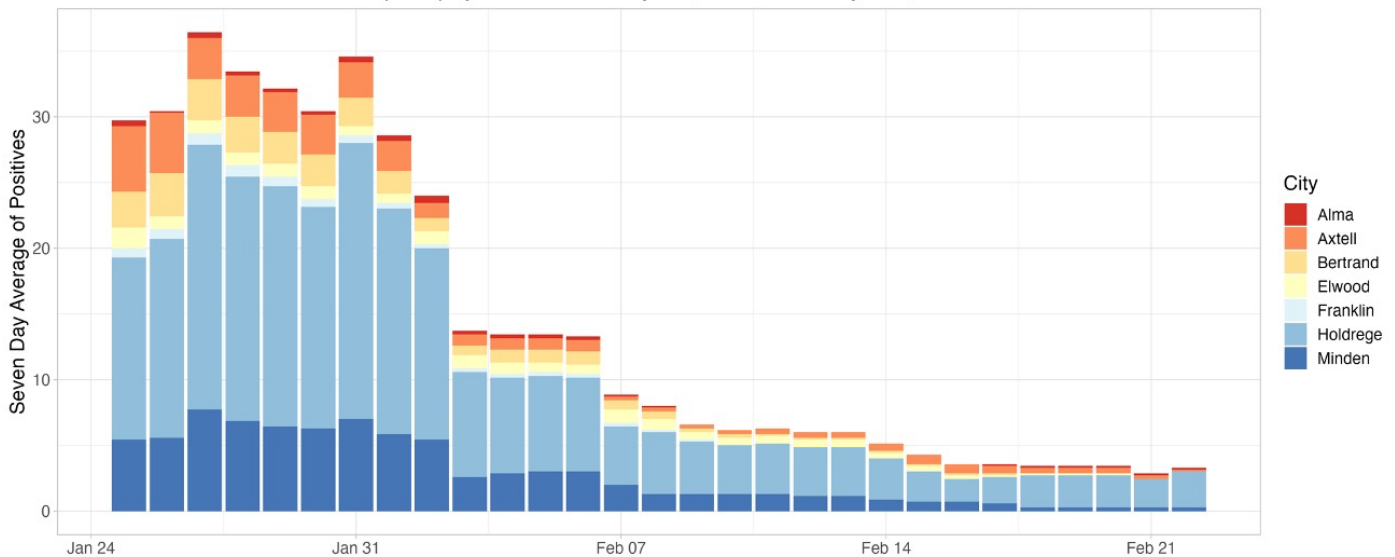
Graph displays data from January 25th, 2022 to February 22nd, 2022



Information Updated as of 2/22 at 8 p.m.

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

Graph displays data from January 25th, 2022 to February 22nd, 2022



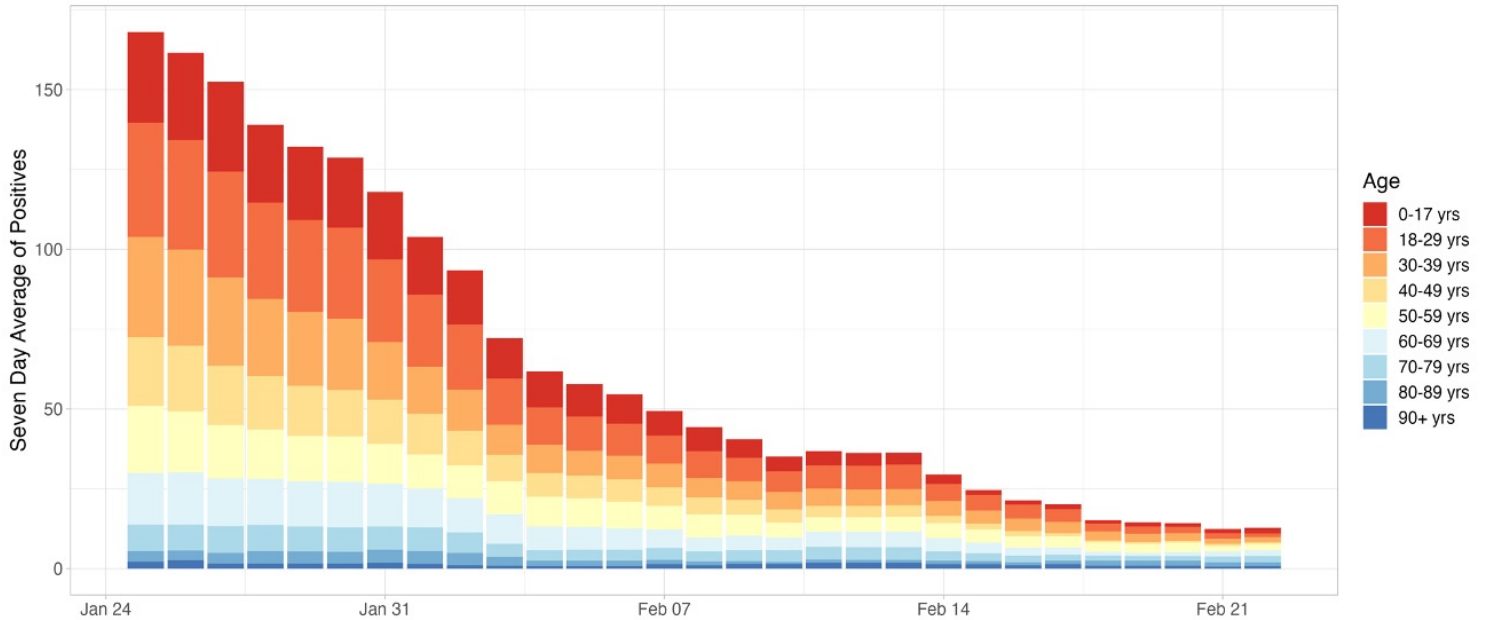
Information Updated as of 2/22 at 8 p.m.



- The graph below describes the **7-day rolling average** of cases from **Jan 26 – Feb 22** 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 January 25th, 2022 to February 22nd, 2022



Information Updated as of 2/22 at 8 p.m.



### Weekly summary

- 86 cases of COVID-19 were recorded in TRPHD between February 16 - February 22. In keeping with the trend over the past 5 weeks, positive cases have declined by 50% from the previous week..
- COVID test positivity rate has declined in all testing settings. Positivity rate in tests done in hospitals and clinics has dropped to 10% for the first time since 22 July, 2021.
- As of Feb 22<sup>nd</sup>, 51.4% of the total population of TRPHD has received the minimum prescribed dose of the COVID-19 vaccine. Vaccination rates have shown little appreciable difference in the past month. The risk of hospitalization or serious illness following infection is significantly higher for unvaccinated persons.
- As of Wednesday morning, there were 14 ICU beds available in TRPHD (out of 32 overall). 32% of Medical/Surgical beds are available across the district.
- COVID patients account for over half the ventilators currently in use across the district. However, less than 13% of all vents in the district are being used for patient support.
- COVID testing is available at the Buffalo County Fairgrounds (Kearney city) Mondays & Wednesdays 9:30AM - 12:30PM. Those interested are required to register at [www.trphd.org](http://www.trphd.org) for scheduling.
- 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](http://www.trphd.org)

*To conclude, 175 new COVID cases were detected in the Two Rivers area last week. Test positivity rate outside long term care facilities is under 14% as new cases have dropped for the third straight week. A little over half of TRPHD's population is fully vaccinated and over 23% has received a booster dose. TRPHD has scheduled vaccination clinics across the district, schedule can be found at <https://www.trphd.org/covid-19/event-calendar.html>. TRPHD is 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 TRPHD or their physician or local pharmacy. To access services through Two Rivers health department, residents are required to visit [www.trphd.org](http://www.trphd.org) to register an appointment (for COVID testing). TRPHD vaccination clinics accept walk-in customers and will provide appropriate vaccine dose as indicated.*

## 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
<b>TRPHD total</b>	<b>97,132</b>
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

### 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
<b>TRPHD total</b>	<b>96986</b>
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
<b>KEARNEY URBAN AREA (TOTAL)</b>	<b>39412</b>
Lexington	10115
Overton	567
Johnson Lake	600



Elwood	683
Cozad	3735
<b>LEXINGTON URBAN AREA (TOTAL)</b>	<b>15,700</b>
Holdrege	5408
Funk	183
Loomis	376
<b>HOLDREGE URBAN AREA (TOTAL)</b>	<b>5967</b>
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>)