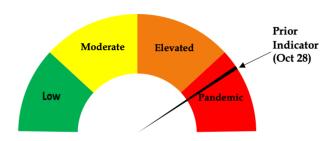


Risk Dial Nov 4, 2021



Risk Dial for COVID-19 Two Rivers Public Health Published Nov 4, 2021

- 420 cases of COVID-19 were recorded in TRPHD between October 27- November 2, of which 31 were at long-term care and other residential facilities. 1 out of every 8 tests (including routine testing) conducted in TRPHD in the past week was positive.
- In the past week, Phelps county recorded 72 cases, over 10% of all tests returned positive. Meanwhile, Dawson county recorded 122 cases. Over half of all new cases in Phelps were aged less than 40 years while a similar proportion in Dawson were aged 40-70 years of age.
- Only 1 out of 29 ICU beds across TRPHD are currently available. COVID patients
 account for over 20% of all medical and surgical beds across TRPHD. About a third of
 medical/ surgical beds are currently available.
- A testing site at the Buffalo county fairgrounds (drive-through testing with prior online registration, Mon & Wed, 9:30-12:30) is now operational. People availing this service are required to register prior to testing at www.trphd.org.
- As of Nov 2, 2021, 47% of TRPHD's total population and 58% of the adult population (18+ years) has received the minimum recommended dose of vaccine (2 doses for Pfizer & Moderna; 1 dose for Janssen). Over 6000 persons across TRPHD have received a booster or extra dose of vaccine. See vaccination report at https://www.trphd.org/covid-19/vaccination-reports.html for details. TRPHD strongly urges all unvaccinated vaccine-eligible residents to avail of COVID vaccination. For schedule of vaccination clinics, see www.trphd.org
- The risk dial remains unchanged from the previous week within the 'pandemic' zone.
 The risk assessment reflects dramatically higher case rates, ICU bed availability, COVID
 hospitalization rates and the rapid spread of new cases in specific clusters across the
 district.



Weekly report Oct 27 - Nov 2, 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 Oct 27 Nov 2 (1 week) and Oct 5 Nov 2 (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 others (eg: tests in hospitals, & pharmacies¹)
- The first graphic describes the vaccination rate of TRPHD residents by county of residence and age between Dec 15, 2020 Nov 2, 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 Nov 2, 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 Nov 2**, **2021**. The graph is modified to show residential, non-residential and overall positivity rates separately. ^{1,3}
- 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- Nov 2, 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 Oct 5 Nov 2, 2021.
 - o Progress is described by age & county of residence.

To conclude, 420 new COVID cases were detected in the Two Rivers area last week; over 12% of all tests in the past week returned positive. ICU bed staffing is 75% of the long term average; only 1 ICU bed is currently available. Excluding long-term routine testing, test positivity rate is over 26%. Persistent increase in positivity rate likely indicates high rates of community transmission. We are currently monitoring COVID outbreaks across more than 13 long term facilities. 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 are advised to contact their physician or their local pharmacy. To access services through Two Rivers health department, please 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 Nov 2, 2021, at least 62,000 residents of Two Rivers Health District were tested at least once for COVID-19. Over 183,000 COVID tests have been conducted since March 1, 2020 and over 14,700 persons have tested positive at least once – at least 800 have tested COVID positive more than once.⁵ TRPHD has publicly notified 145 deaths due to COVID-19 across the district.
- As of Nov 1, 2021, 47% of TRPHD's entire population has received the minimum recommended full dose of COVID vaccine. 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 12 years and over.

	BUFFALO	DAWSON	FRANKLIN	GOSPER	HARLAN	KEARNEY	PHELPS	TRPHD
0-17 YRS	11%	13%	8%	8%	7%	12%	7%	11%
18-29 YRS	34%	47%	29%	35%	26%	41%	29%	37%
30-39 YRS	48%	53%	40%	32%	42%	42%	42%	48%
40-49 YRS	61%	57%	45%	47%	31%	65%	40%	56%
50-59 YRS	65%	59%	44%	47%	46%	54%	52%	59%
60-69 YRS	80%	79%	64%	70%	61%	75%	67%	76%
70-79 YRS	98%	87%	92%	61%	84%	82%	94%	91%
80+ YRS	90%	77%	78%	79%	54%	71%	79%	81%
ALL AGES	47%	48%	46%	45%	39%	47%	43%	47%

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% & high	er Over 3/4ths received 1 or 2 dose as recommended

 How to read this table: (For eg.): "59% of Dawson county residents in their 40s have received the minimum recommended vaccine dose (2 for Moderna & Pfizer; 1 for Janssen) However only 31% of 40-50 year-olds in Harlan county have received minimum recommended dose."

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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 Minimum recommended dose is 2 for Pfizer/ Moderna vaccines and 1 for Janssen vaccine. Booster doses are not considered in calculating the number. 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 (Oct 27 Nov 2) and past 4 weeks (Oct 5 Nov 2).
- Results are described by the site where tests were conducted, and include both antigen and PCR tests.

	Oct 27 - Nov 2 (1 week)			Oct 5 - Nov 2 (4 weeks)		
	Total	Positive	Positivity	Total	Positive	Positivity
	Tests	Results	Rate	Tests	Results	Rate
Hospital/Clinic	929	268	28.8%	3555	909	25.6%
State	5	2	40.0%	25	5	20.0%
Laboratory						
Residential	1851	31	1.7%	7418	96	1.3%
Facility						
Lab/ Pharmacy	107	32	29.9%	344	71	20.6%
Other	449	87	19.4%	1501	310	20.7%
TOTAL	3,341	420	12.6%	12,843	1,391	10.8%

• A total of 7418 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:

	Oct 27 - Nov 2 (1 week)		Oct 5 - Nov 2 (4 weeks)			
	Total	Positive	Positivity	Total Tests	Positive	Positivity
Residential	Tests	Results	Rate		Results	Rate
Facility In:						
Buffalo	483	2	0.4%	2446	22	0.9%
Dawson	421	15	3.6%	1380	52	3.8%
Franklin	0	0	0.0	0	0	0.0
Gosper	34	0	0.0%	62	0	0.0%
Harlan	152	9	5.9%	358	10	2.8%
Kearney	29	0	0.0%	89	0	0.0%
Phelps	631	5	0.8%	2503	10	0.4%
Outside TRPHD	101	0	0.0%	580	2	0.3%
TOTAL	1851	31	1.7%	7,418	96	1.3%

 How to read this table: (For eg.): "In the past week, almost 29% of tests conducted in hospitals and clinics across TRPHD were positive. In the past month, 96 positive COVID results were reported among staff and residents of residential facilities (mostly long-term living) in Buffalo county, and 37 in Dawson county."

 $^{^7}$ For information on residential facilities, please see appendix 3 516 W 11 $^{\rm th}$ Street, Suite 108 Kearney, NE 68845



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

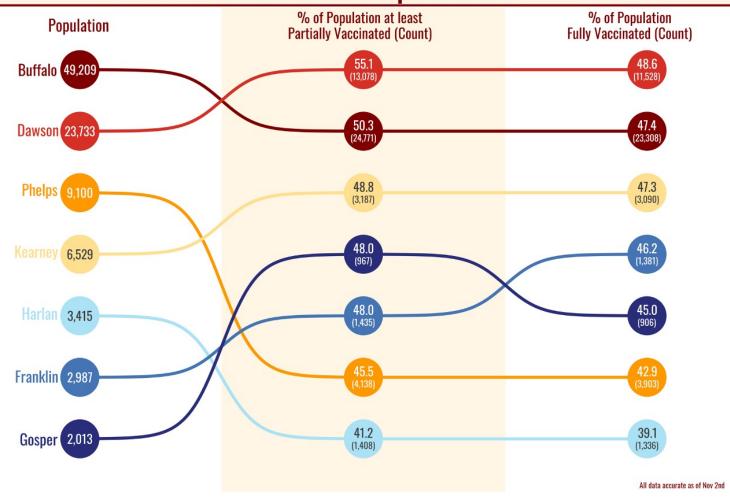
	Oct 27	- Nov 2 (1 v	veek)	Oct 5 - Nov 2 (4 weeks)		
	Total tests	Positive	P. rate	Total tests	Positive	P. rate (%)
	conducted	cases	(%)	conducted	cases	
County						
Buffalo	937	181	19.3%	3451	672	19.5%
Dawson	318	107	33.6%	1178	343	29.1%
Franklin	9	2	22.2%	65	25	38.5%
Gosper	12	4	33.3%	66	24	36.4%
Harlan	18	8	44.4%	53	23	43.4%
Kearney	58	18	31.0%	213	48	22.5%
Phelps	134	67	50.0%	380	157	41.3%
Data	4	2	50.0%	19	3	15.8%
missing/ not						
disclosed						
Total	1,490	389	26.1%	5,425	1,295	23.9%
Age (in yrs)						
0-17	303	57	18.8%	1055	195	18.5%
18-29	296	64	21.6%	1175	240	20.4%
30-39	196	63	32.1%	745	199	26.7%
40-49	159	54	34.0%	608	190	31.3%
50-59	165	53	32.1%	634	176	27.8%
60-69	145	51	35.2%	509	150	29.5%
70-79	121	34	28.1%	388	99	25.5%
80-89	105	13	12.4%	311	46	14.8%
Total	1490	389	26.1%	5,425	1295	23.9%
Gender						
Female	885	208	23.5%	3177	681	21.4%
Male	605	181	29.9%	2234	602	26.9%
Data	0	0	0.0%	14	12	85.7%
missing/ not						
disclosed						
Total	1490	389	26.1%	5,425	1,295	23.9%

 $^{^8}$ For information on residential facilities, please see appendix 3 516 W 11 th Street, Suite 108 Kearney, NE 68845



- The graph below describes all TRPHD residents who are fully vaccinated against COVID-19 between December 15, 2020 November 2, 2021. All residents of the seven counties are included although the vaccine is currently available only to those 12 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, 46.8% of TRPHD's total population and 58.4% of all adult residents (18 years and over) are fully vaccinated.

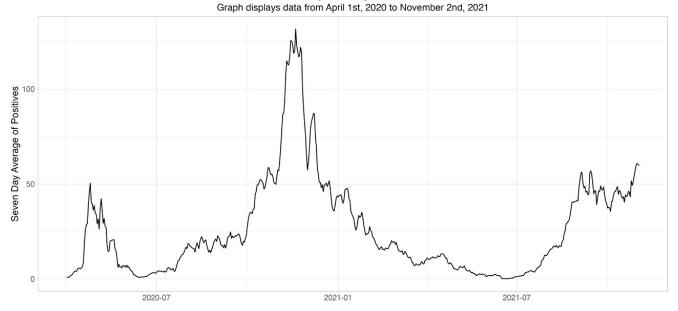
Vaccinations of Total Population in TRPHD



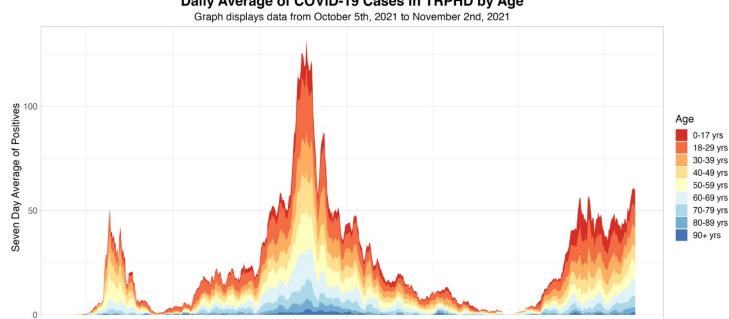


- The graph below describes 7-day rolling average of COVID-19 across TRPHD from April 1, 2020 - Nov 2, 2021.
- The second graph describes 7-day rolling average of COVID-19 cases by age across TRPHD for the same time period. The height of the graph corresponds to total cases and the thickness of each colored band corresponds to each age group.

7 Day Rolling Average of Two Rivers



Daily Average of COVID-19 Cases in TRPHD by Age



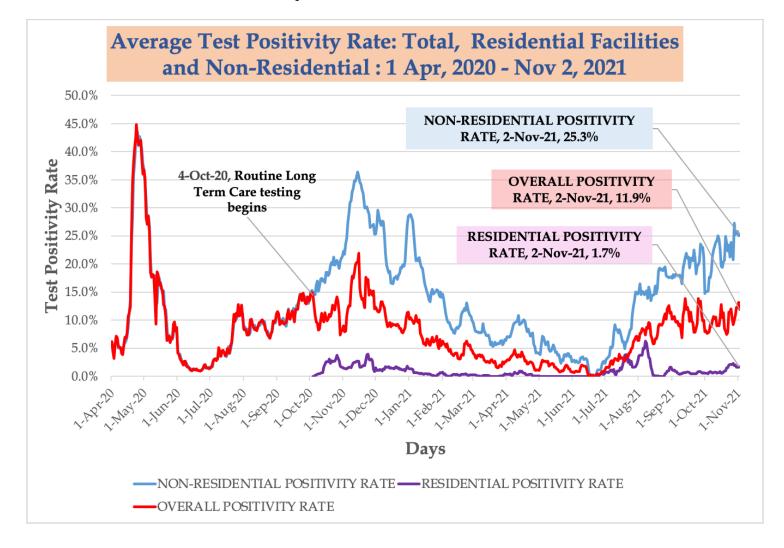
2021-01

2020-07

2021-07



- The graphs below describe the average test positivity rate (7-day rolling average)⁹ in TRPHD from April 1, 2020 November 2, 2021. The graph depicts the entire county including Buffalo, Dawson, Phelps, Franklin, Gosper, Harlan and Kearney counties.
- Graph describes all tests (overall positivity rate), those conducted **in residential facilities**, and those conducted outside residential facilities in the last 17 months ¹⁰
- Graph may be read thus (for eg): "In the week Oct 27 Nov 2, **12**% **of all COVID tests** conducted in TRPHD was positive; excluding long term care and other residential facilities, **25**% **of tests** was positive."



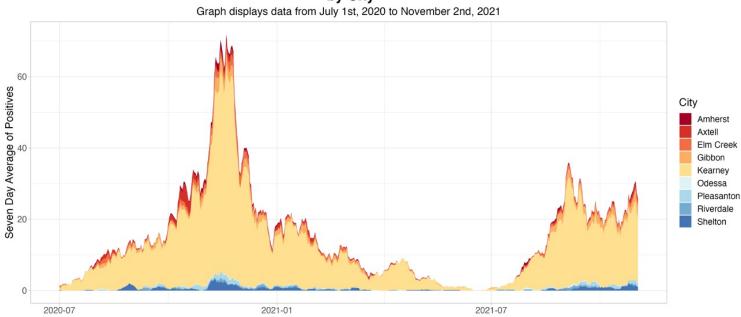
⁹ For description of average positivity rate, see appendix 1

¹⁰ For information on residential facilities, please see appendix 3 516 W 11th Street, Suite 108



- 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 Oct 26, 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



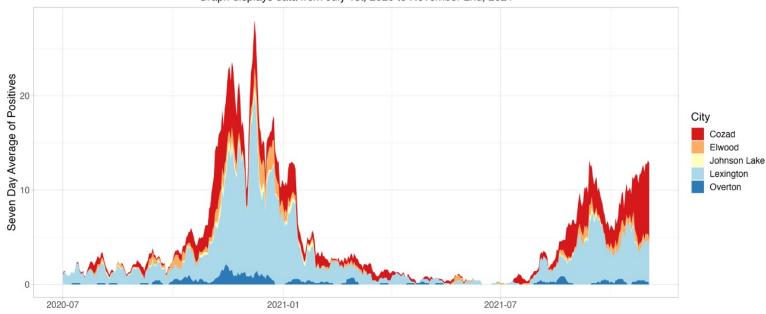
¹¹ For details about each of the urban areas, please see appendix 5 516 W 11th Street, Suite 108 Kearney, NE 68845



• The daily average (7-day rolling) of positive cases in Lexington and Holdrege cities and surrounding towns between July 1, 2020 – Oct 26, 2021 are presented below.

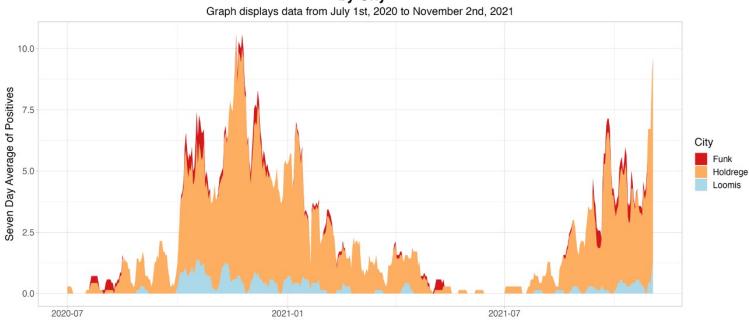
7 Day Rolling Average of COVID-19 Cases by City

Graph displays data from July 1st, 2020 to November 2nd, 2021



Information Updated as of 11/2 at 8 p.m.

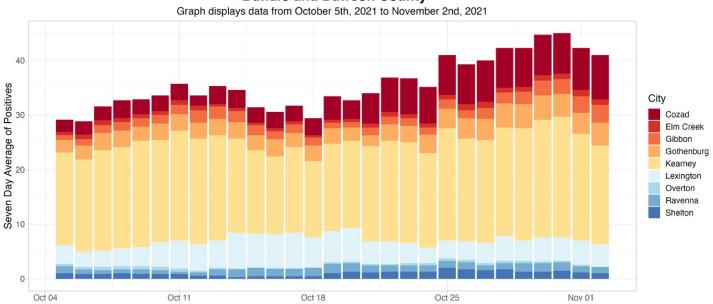
7 Day Rolling Average of COVID-19 Cases by City





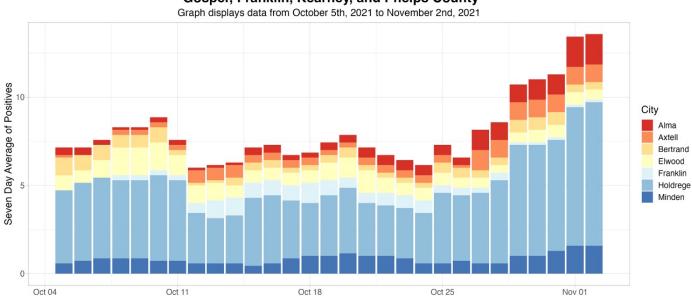
The following bar graphs describes the 7-day rolling averages by <u>city</u> for the past four weeks (Oct 5 - Nov 2) in TRPHD. The graph above shows cities in Buffalo and Dawson counties and the one below shows the graph for cities in Gosper, Harlan, Kearney and Phelps counties. <u>The scale is different for both graphs</u>.

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



Information Updated as of 11/2 at 8 p.m.

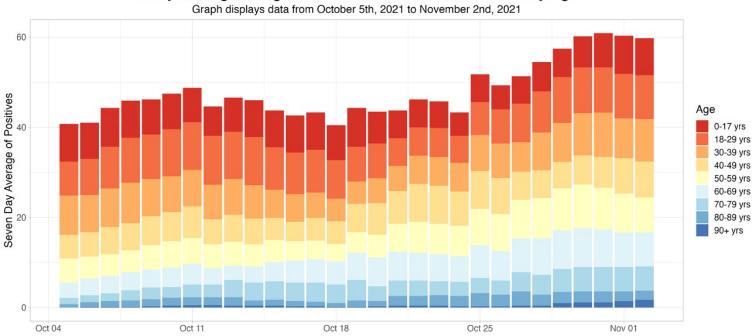
7 Day Rolling Average of COVID-19 Cases Gosper, Franklin, Kearney, and Phelps County





• The graph below describes the **7-day rolling average** of cases from **Oct 5 - Nov 2** 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





Weekly summary

- 420 cases of COVID-19 were recorded in TRPHD between October 27- November 2, of which 31 were at long-term care and other residential facilities. 1 out of every 8 tests (including routine testing) conducted in TRPHD in the past week was positive.
- In the past week, Phelps county recorded 72 cases, over 10% of all tests returned positive. Meanwhile, Dawson county recorded 122 cases. Over half of all new cases in Phelps were aged less than 40 years while a similar proportion in Dawson were aged 40-70 years of age.
- Only 1 out of 29 ICU beds across TRPHD are currently available. COVID patients account for over 20% of all medical and surgical beds across TRPHD. About a third of medical/ surgical beds are currently available.
- A testing site at the Buffalo county fairgrounds (drive-through testing with prior online registration, Mon & Wed, 9:30-12:30) is now operational. People availing this service are required to register prior to testing at www.trphd.org.
- As of Nov 2, 2021, 47% of TRPHD's total population and 58% of the adult population (18+ years) has received the minimum recommended dose of vaccine (2 doses for Pfizer & Moderna; 1 dose for Janssen). Over 6000 persons across TRPHD have received a booster or extra dose of vaccine. See vaccination report at https://www.trphd.org/covid-19/vaccination-reports.html for details. TRPHD strongly urges all unvaccinated vaccine-eligible residents to avail of COVID vaccination. For schedule of vaccination clinics, see www.trphd.org
- All persons aged 12 and over are eligible for the vaccine. TRPHD has scheduled mobile
 vaccination clinics at over 15 sites across seven counties to distribute vaccines and to
 focus on areas of potential shortfall. Following approval by the FDA, healthcare
 institutions across TRPHD are expected to be able to provide vaccines to children aged
 5-11 years by later this month.

To conclude, 420 new COVID cases were detected in the Two Rivers area last week; over 12% of all tests in the past week returned positive. ICU bed availability is 75% of long-term average; only 1 ICU bed is currently available across TRPHD. Excluding long-term routine testing, test positivity rate is over 26%. Persistent increase in positivity rate likely indicates high rates of community transmission. We are currently monitoring COVID outbreaks across more than 5 long term facilities. 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 are advised to contact their physician or their local pharmacy. To access services through Two Rivers health department, please 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.

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

[&]quot;Lexington area" includes Lexington city as well as Overton, Johnson Lake and Cozad.

[&]quot;Holdrege area" includes Holdrege city, Loomis and Funk.



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)