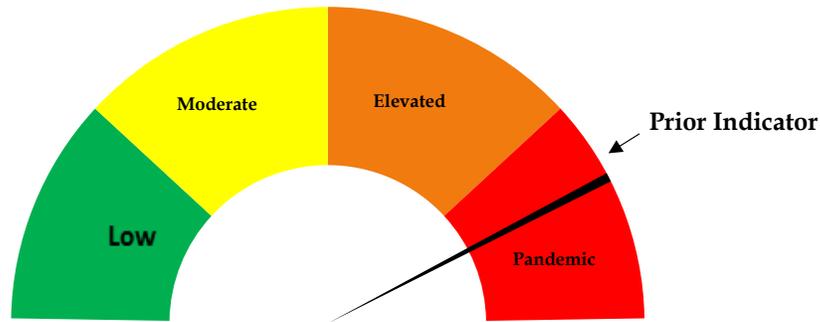




## Risk Dial Nov 12 2020



### **Risk Dial for COVID-19 Two Rivers Public Health Published November 12, 2020**

- Although testing availability has expanded over the past week with announcement of a new TestNebraska testing site in Gothenburg, accessibility looks set to reduce due to upcoming holidays next week and the week after.
- Reports of shortage of reagents and Personal Protective Equipment (PPE) continue to hamper testing efforts at private hospitals, clinics and labs.
- There is a dramatic increase in COVID-related hospital bed occupancy across the district. ICU availability is less than 10% and COVID hospitalizations have increased by almost 50% in the past week.
- Two-fifths of all hospital beds in the district are occupied by COVID positive patients
- Multiple smaller outbreaks seem to be either ongoing or imminent across Buffalo, and Dawson counties. These outbreaks are both community-based and long term facility-based.
- The weekly positivity rates of tests are now consistently above the statewide average (see weekly report for details). Rates among seniors aged over 60 are showing a significant increase. Although tests conducted per week have increased to about 2000, positivity rates continue to remain extremely high. Over 2/5ths of all tests in the past week returned positive.
- For these reasons, the risk dial continues to be elevated at 'pandemic' level.



## Weekly report Nov 4 - Nov 10 2020

### Overview

The weekly report will look at COVID-19 cases in TRPHD across three time periods, presenting graphs and tables before concluding with a weekly summary

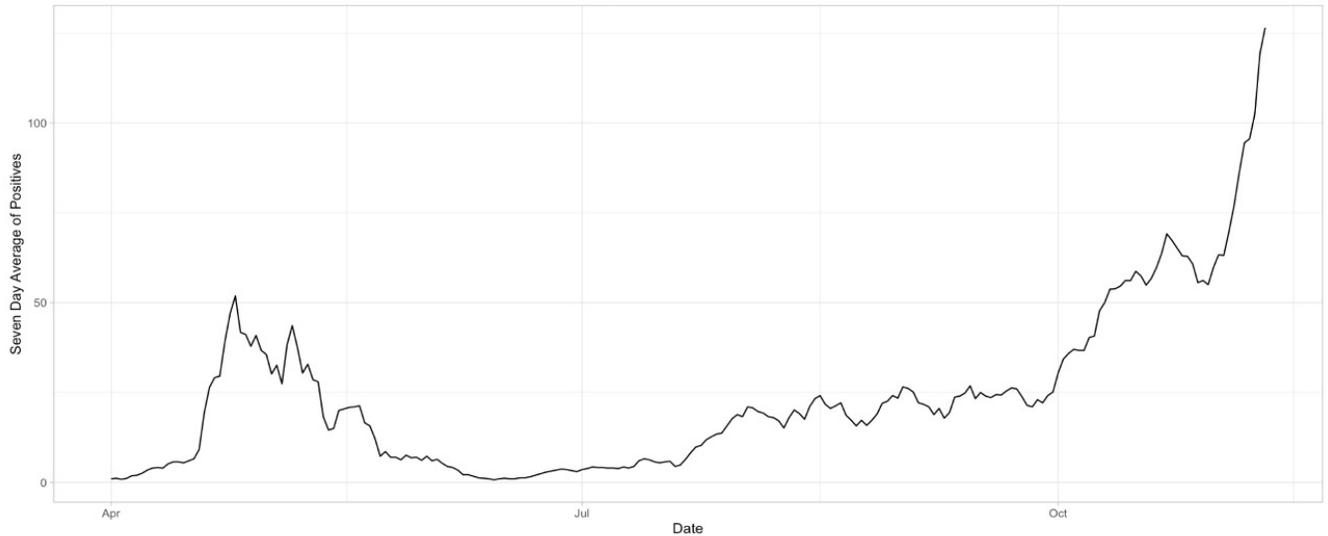
- The first set of graphs look at the progress of the pandemic from **April 1 - November 10** across all counties.
- The second set of graphs look at the time from **July 1 - November 10** (19 weeks), describing the daily cases and positivity rates (7-day rolling averages) by county over time. We are most concerned with the recent four weeks.
- The tables show positive cases and tests conducted by county, age and gender from **November 4 - November 10** (1 week) and **October 14 - November 10** (4 weeks).
- The last set of graphs look at daily cases from **October 14 - November 10**. Total tests and cases are shown, and progress described by age group, county and city of residence. Also depicted are rates per 100,000 population.



- The following line graph describes 7-day rolling average of COVID-19 cases across TRPHD since April
- The second graph describes cases across the same period by age. The height of the graph corresponds to total cases and the thickness of each colored band corresponds to an age group

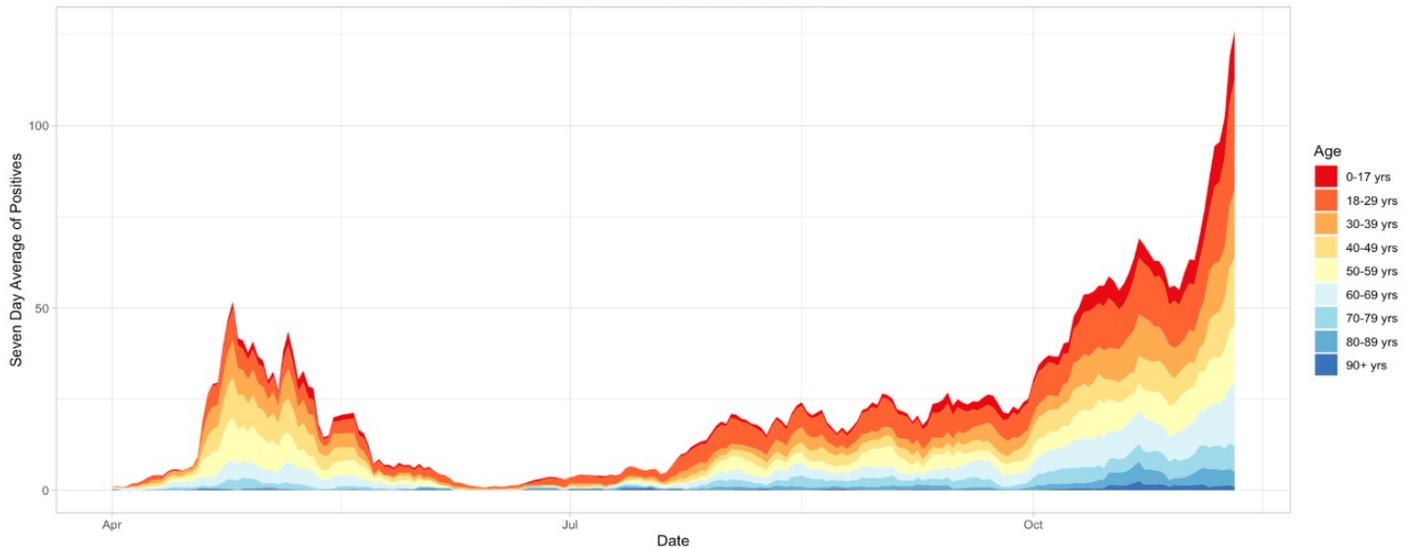
**7 Day Rolling Average of Two Rivers**

Graph displays data from April 1th to November 10th



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

Graph displays data from April 1th to November 10th



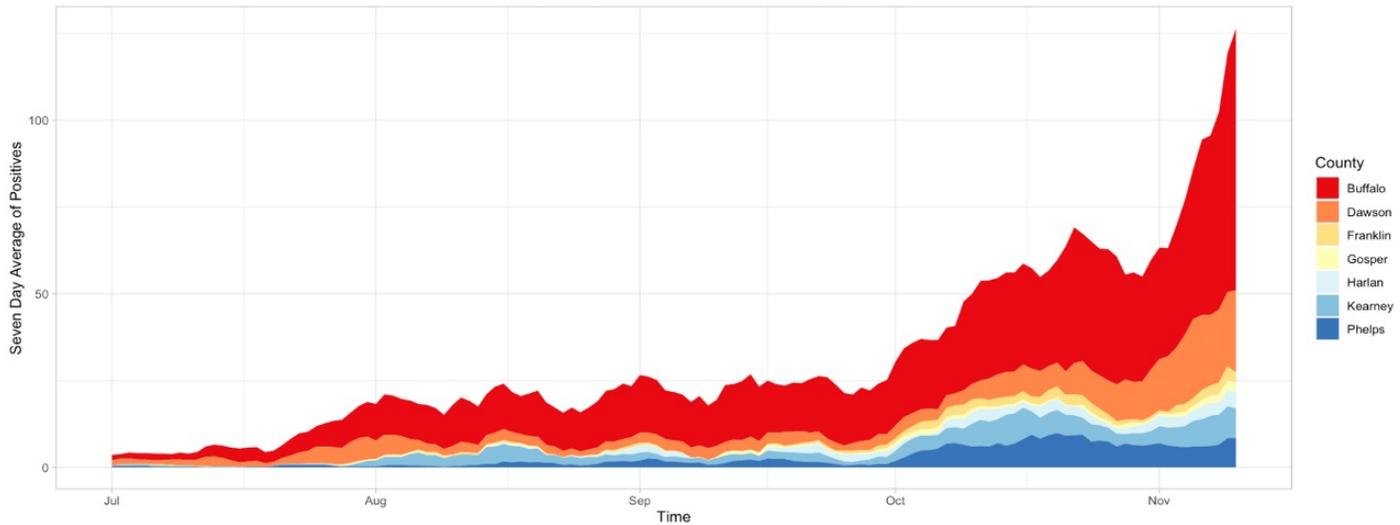
Information Updated as of 11/10 at 8 p.m.



- The first graph below describes the **7-day rolling average of cases** across all 7 counties in TRPHD from **July 1 - November 10**. The thickness of each colored band corresponds to the cases that day.
- The second graph depicts the **7-day rolling average of cases / 10,000 residents** across all 7 counties in TRPHD from **July 1 - November 10**. Each line corresponds to a county.

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

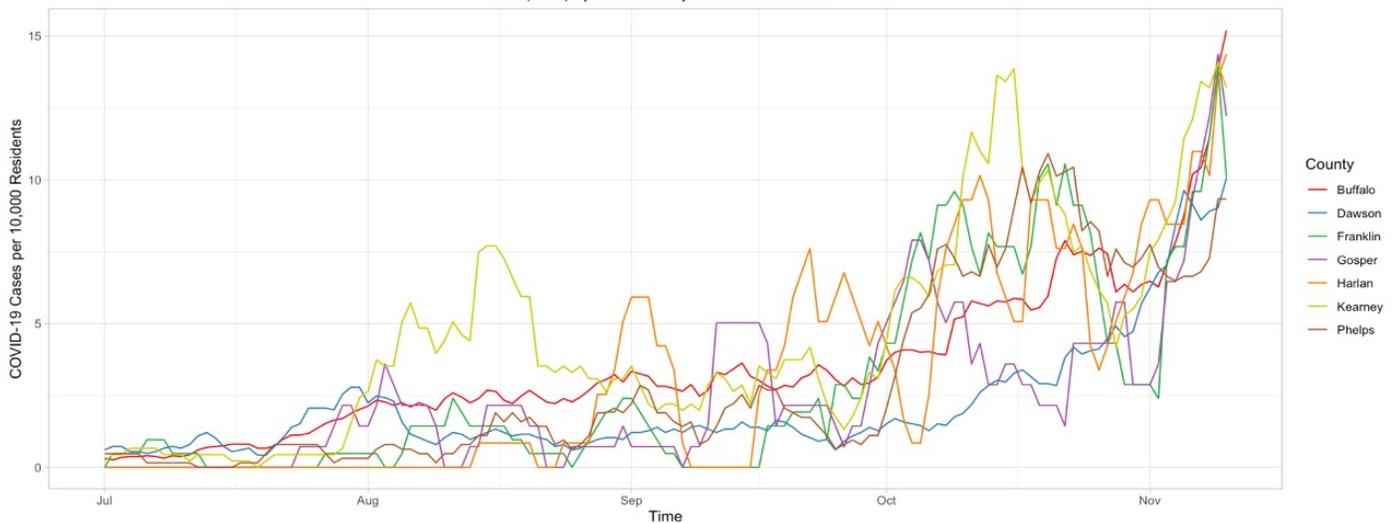
Graph displays data from July 1th to November 10th



Information Updated as of 11/10 at 8 p.m.

**7 Day Rolling Average of COVID-19 Cases Per 10,000 Resident in Two Rivers by County**

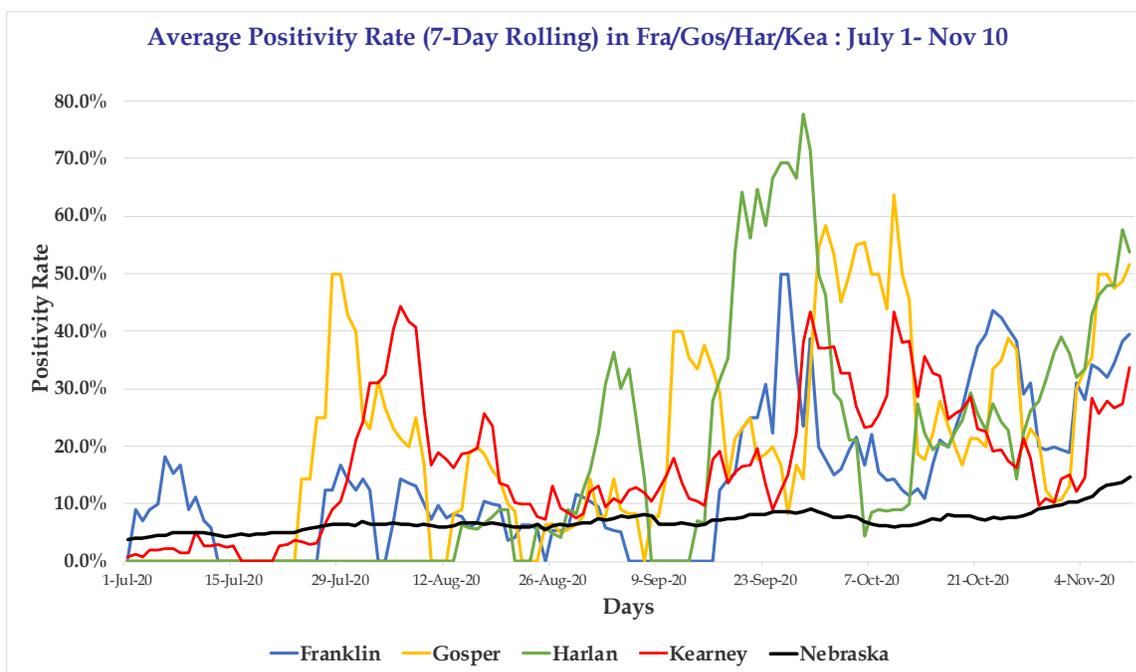
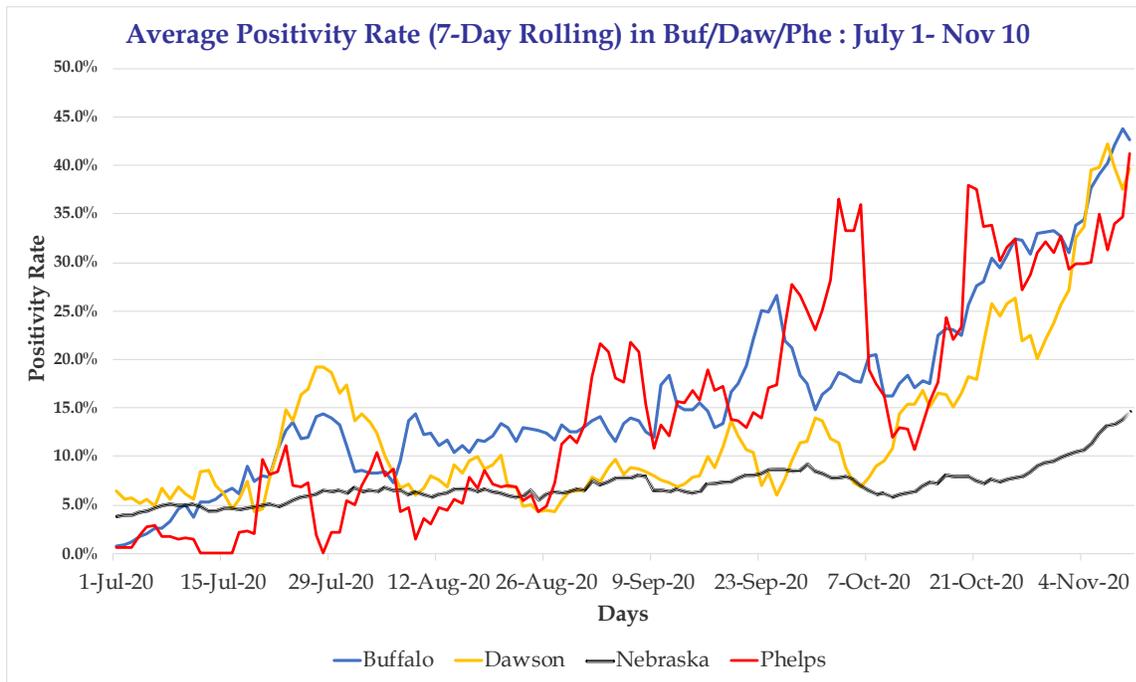
Graph displays data from July 1th to November 10th



Information Updated as of 11/10 at 8 p.m.



- The following line graph describes the average positivity rate (7-day rolling) by **county** from **July 1 - Nov 10** and the state of Nebraska for the same period.
- The top graph shows Buffalo, Dawson & Phelps counties
- The one below shows Franklin, Gosper, Harlan and Kearney counties. Scales are different for both graphs. Nebraska's rate is the black line.





**Weekly report Nov 4 - Nov 10 2020**

Reporting tests done on patients residing in **Buffalo, Dawson, Franklin, Gosper, Harlan, Kearney and Phelps** counties

**Reporting period :** Nov 4 - Nov 10, 2020 (1 week)  
& Oct 14 - Nov 10, 2020 (4 weeks)

**Overall testing - previous week & month**

A total of 1904 persons were tested in the past week, of whom 795 were positive, and 1109 were negative. A total of 5940 persons were tested in the past 4 weeks, of whom 1946 were positive, and 3994 were negative. Details are as below.

	Nov 4 - Nov 10 (1 week)			Oct 14 - Nov 10 (4 weeks)		
	Negative	Positive	Total	Negative	Positive	Total
<b>Number</b>	1109	795	1904	3994	1946	5940
<b>Percentage</b>	58.3%	41.8%	100.0%	67.2%	32.8%	100.0%

A total of 30,165 persons have been tested across TRPHD. Details are as below

	Total Population	Cumulative tests Mar 01- Nov 10	Cumulative Positives Mar 01- Nov 10	Cumulative Positivity Rate	7-Day Rolling Average (Nov 10, 2020)	7-Day Rolling Average/ 100000 population
Buffalo	49659	16,023	2,515	15.7%	67.86	136.65
Dawson	23595	7,527	1,536	20.4%	22.71	96.27
Franklin	2979	811	119	14.7%	2.43	81.52
Gosper	1990	498	86	17.3%	2.43	122.04
Harlan	3380	577	79	13.7%	2.00	59.17
Kearney	6495	2,066	303	14.7%	5.71	87.98
Phelps	9034	2,663	385	14.5%	8.14	90.14
<b>Total</b>	<b>97132</b>	<b>30165</b>	<b>5023</b>	<b>16.7%</b>	<b>111.29</b>	<b>114.57</b>

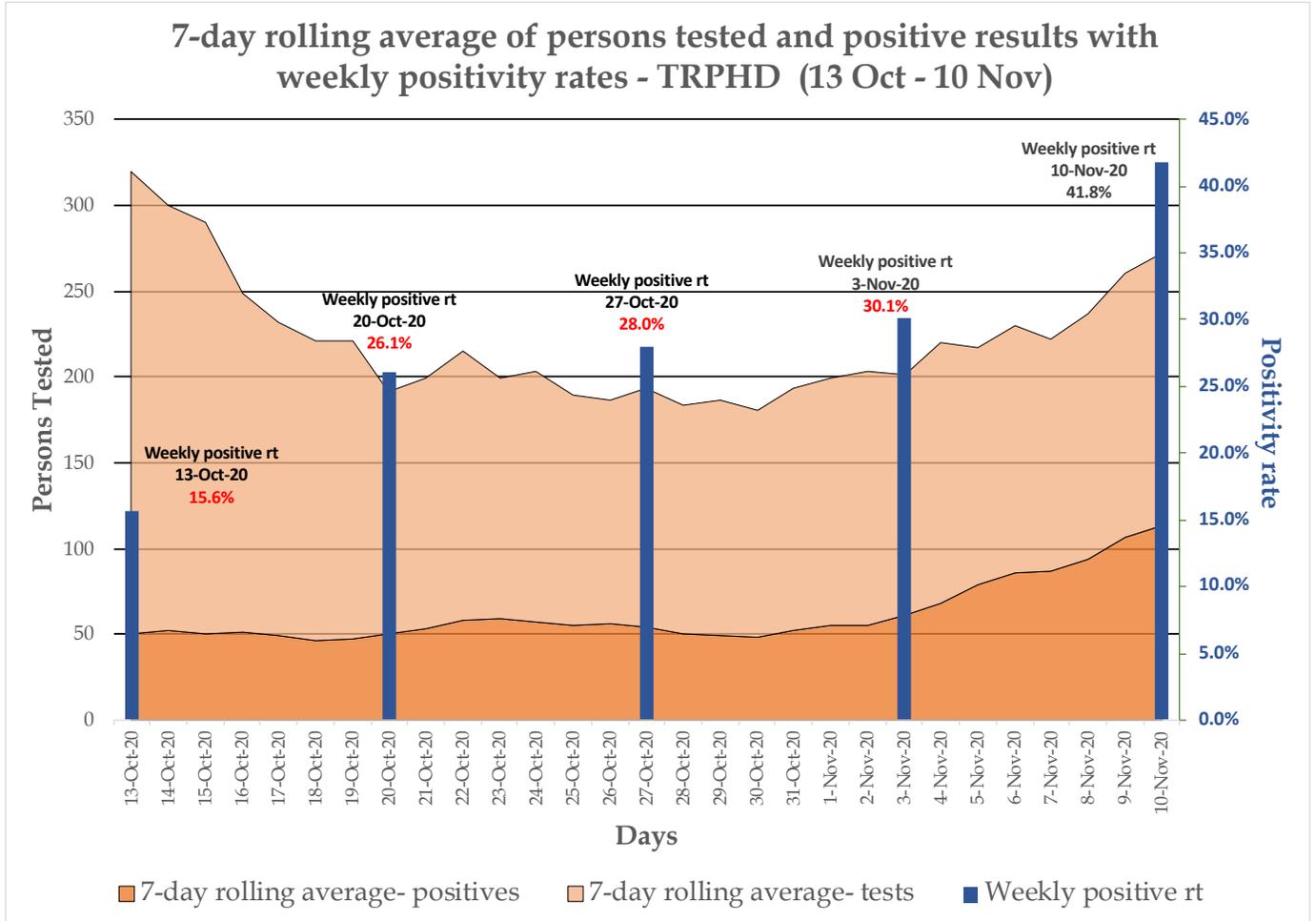


The following table gives details of positive cases in the past week and past 4 weeks by county, age categories and gender

	Nov 4 - Nov 10 (1 week)			Oct 14 - Nov 10 (4 weeks)		
	Total persons tested	Positive cases	P. rate (%)	Total persons tested	Positive cases	P. rate (%)
<b>County</b>						
Buffalo	1114	475	42.6%	3151	1,103	35.0%
Dawson	401	159	39.7%	1282	387	30.2%
Franklin	43	17	39.5%	174	59	33.9%
Gosper	33	17	51.5%	111	35	31.5%
Harlan	28	16	57.1%	105	40	38.1%
Kearney	119	40	33.6%	441	106	24.0%
Phelps	135	57	42.2%	545	193	35.4%
Data missing/ not disclosed	31	14	45.2%	131	23	17.6%
<b>Total</b>	1904	795	41.8%	5940	1946	32.8%
<b>Age (in yrs)</b>						
0-17	286	77	26.9%	878	183	20.8%
18-29	441	192	43.5%	1348	431	32.0%
30-39	315	123	39.0%	887	299	33.7%
40-49	233	120	51.5%	702	255	36.3%
50-59	234	106	45.3%	733	272	37.1%
60-69	215	104	48.4%	696	258	37.1%
70-79	99	39	39.4%	379	135	35.6%
80-89	59	26	44.1%	212	84	39.6%
90+	22	8	36.4%	105	29	27.6%
<b>Total</b>	1904	795	41.8%	5940	1946	32.8%
<b>Gender</b>						
Female	1067	452	42.4%	3304	1,070	32.4%
Male	821	330	40.2%	2534	815	32.2%
Data missing/ not disclosed	16	13	81.3%	102	61	59.8%
<b>Total</b>	1904	795	41.8%	5,940	1,946	32.8%



- The following bar graph describes the 7-day rolling averages of **total tests** and **positive COVID-19 cases** in **TRPHD** for the past four weeks (Oct 14 - Nov 10). Also shown is the **weekly positivity rate**

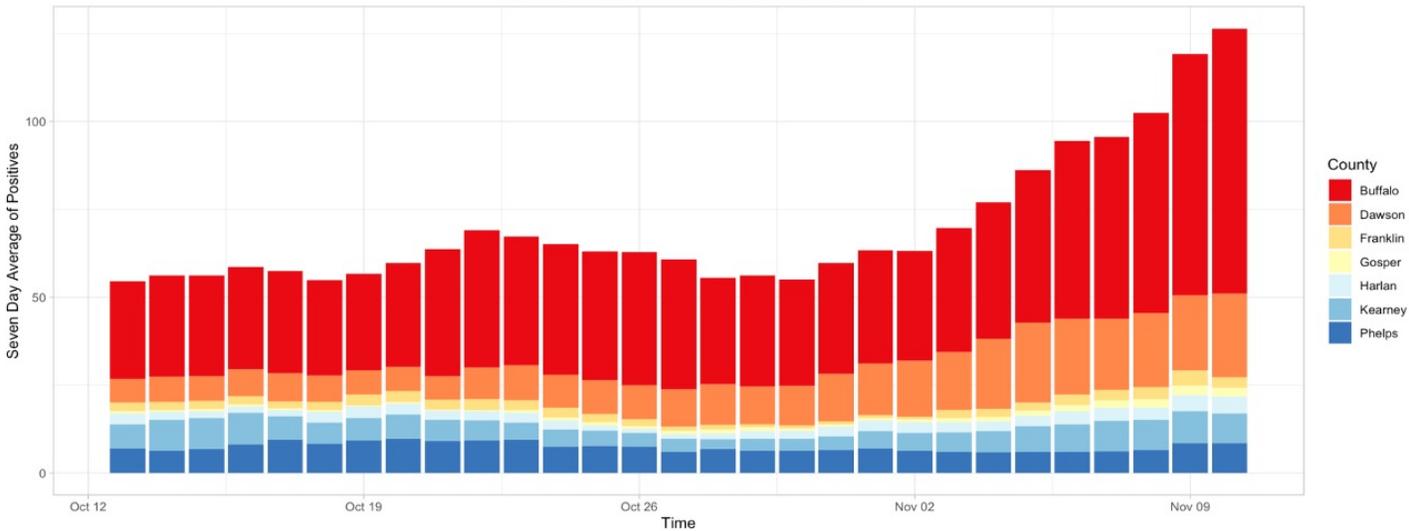




- The following bar graph describes the 7-day rolling averages of COVID-19 cases by **county** for the past four weeks (Oct 14 - Nov 10).
- The line graph describes the same data per 10,000 population<sup>1</sup>

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

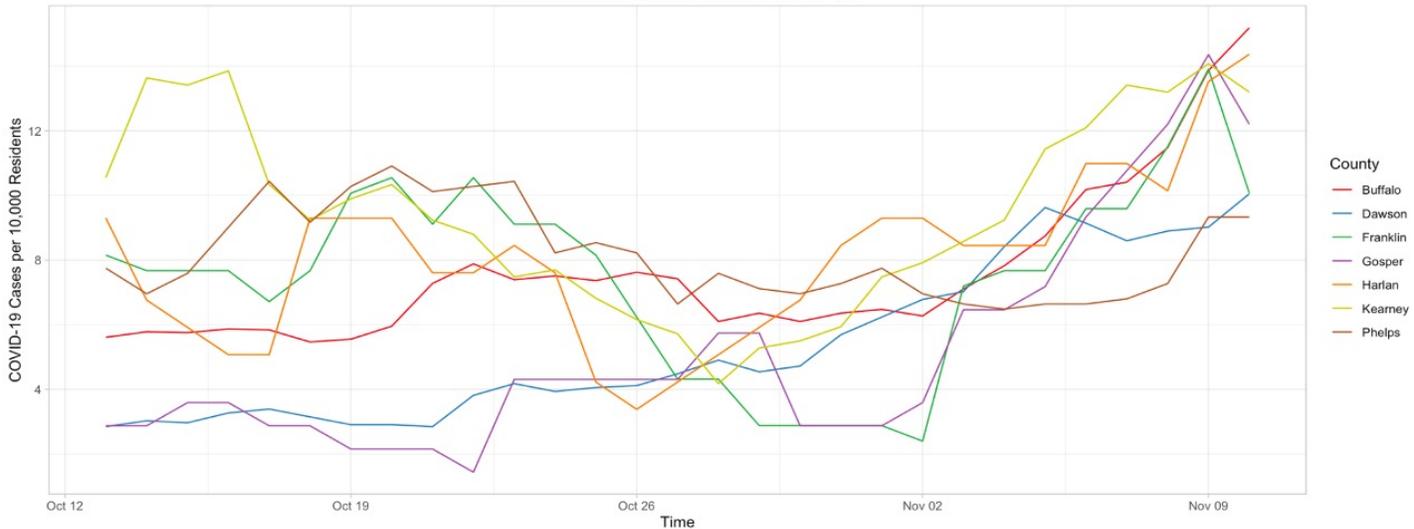
Graph displays data from October 13th to November 10th



Information Updated as of 11/10 at 8 p.m.

**7 Day Rolling Average of COVID-19 Cases Per 10,000 Resident in Two Rivers by County**

Graph displays data from October 13th to November 10th

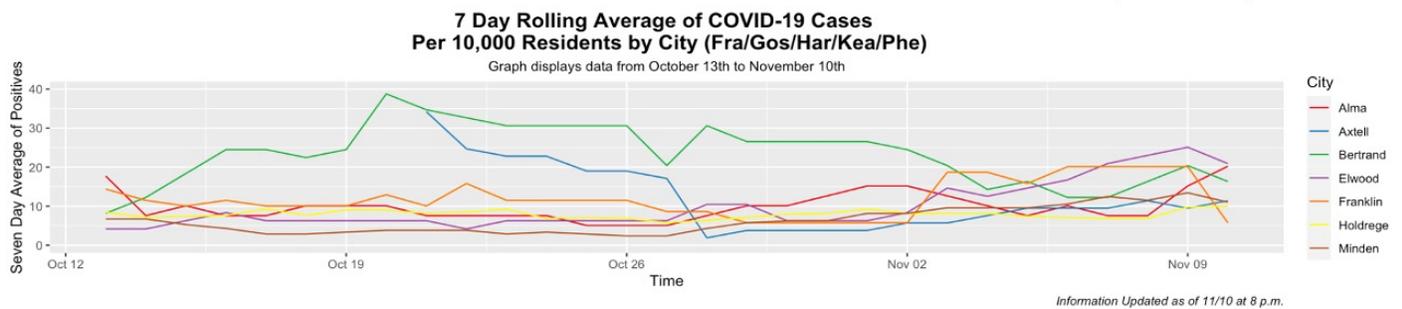
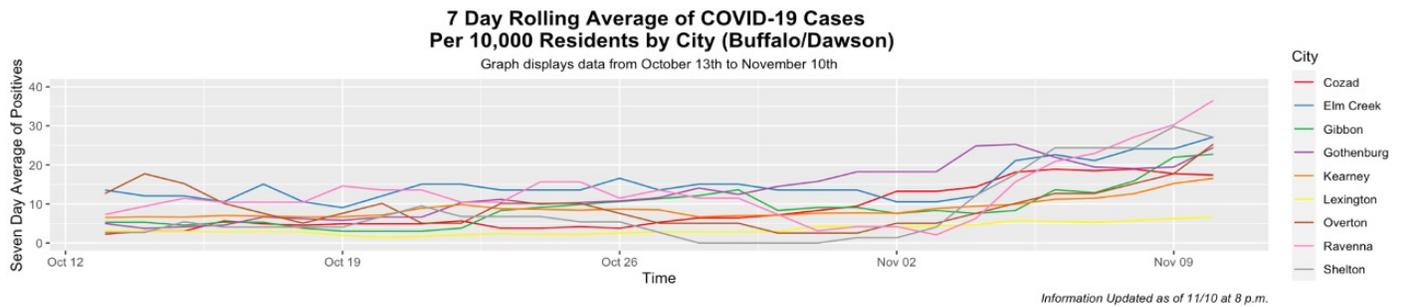
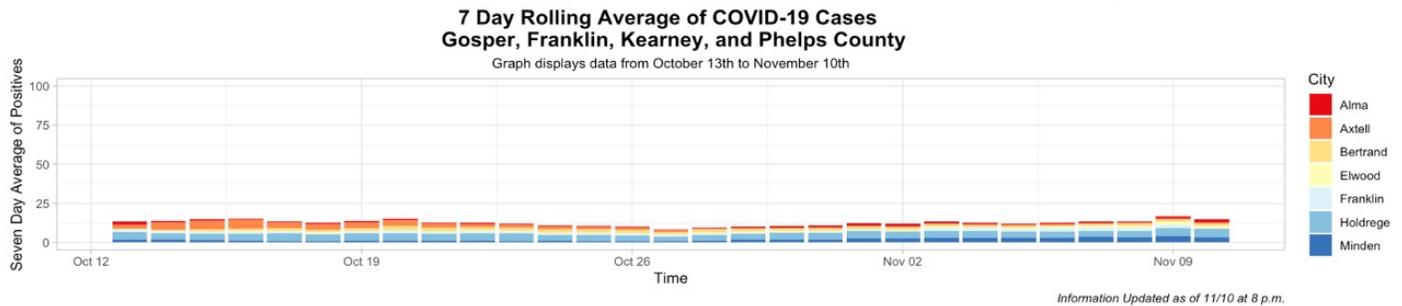
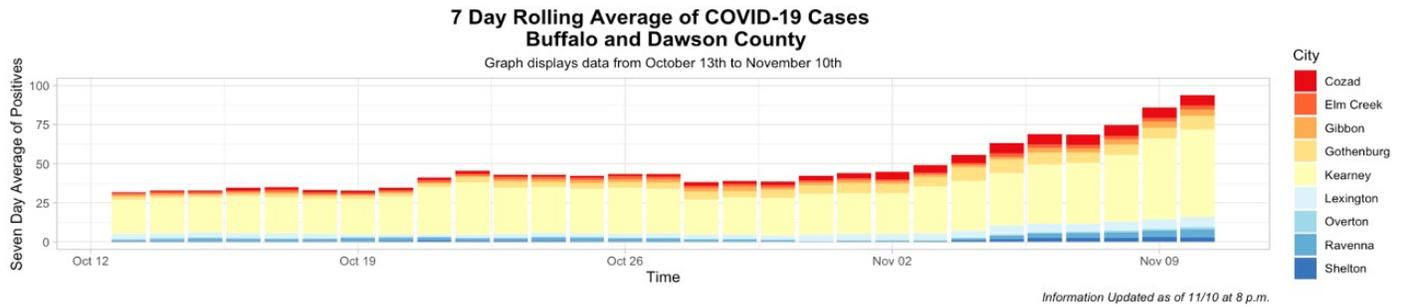


Information Updated as of 11/10 at 8 p.m.

<sup>1</sup> Please note: an earlier edition of this graph represented the same data per 100,000 population.



- The following bar graph describes the 7-day rolling averages by city for the past four weeks (Oct 14 - Nov 10). The top graph shows cities in Buffalo and Dawson counties & the one below shows cities in Franklin, Gosper, Harlan, Kearney and Phelps. Scale is identical for both graphs.
- The line graph describes the same data per 10,000 population<sup>2</sup>



<sup>2</sup> Please note: an earlier edition of this graph represented the same data per 100,000 population.

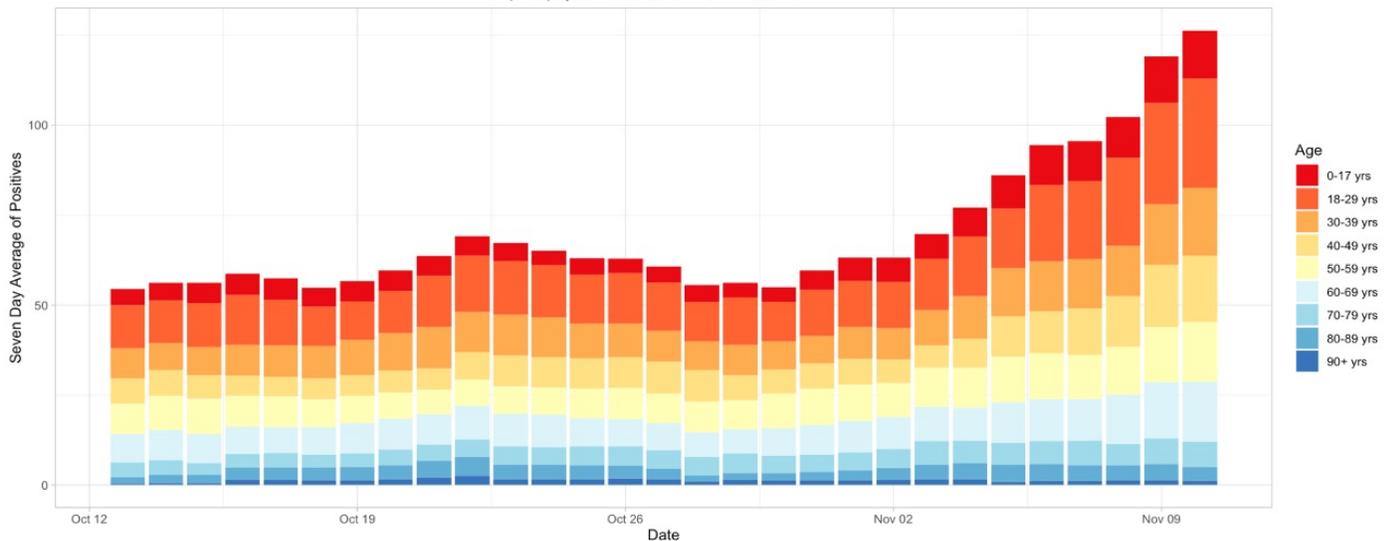


### Weekly summary

- October marked the onset of the second wave of COVID infections in Two Rivers Health District, and transmission is now widespread across community and facility settings..
- Positivity rates across the district have risen, each county now has a weekly positive rate consistently above the statewide average. 2/5ths of all tests in the past week returned positive.
- Increases in case numbers across Buffalo, Dawson and Kearney counties have accelerated in the past 2 weeks. A possible outbreak in Cozad has contributed to a surge of cases in Dawson.
- When calculated for 10,000 population, daily rolling average rates show a steady upward trend across the district. The increase is secular across all 7 counties and seems to predict a rapid increase in cases in coming weeks.
- Increased COVID hospitalization rates and ICU usage across the district point to signs of strain on intensive and medical/ surgical bed capacity.
- Incidence rates among residents aged 60 and over continues to follow alarming trends. Over a fifth of tests were conducted in this age group, and they account for almost the same proportion of positive results. The graph below shows the age-wise distribution of cases in TRPHD over the past 4 weeks (Oct 14 - Nov 10). Women aged 60 years and over seem to show similar positivity rates as men, erasing a previous advantage held by this group.
- To conclude, there is widespread transmission of COVID-19 in the Two Rivers Health District, and positivity rates seem to be rising rapidly across all seven counties in the district. Residents are advised to exercise utmost caution and adhere to strict preventive measures (social distancing, correct and consistent masking) at all times to protect themselves.

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

Graph displays data from October 13th to November 10th



Information Updated as of 11/10 at 8 p.m.