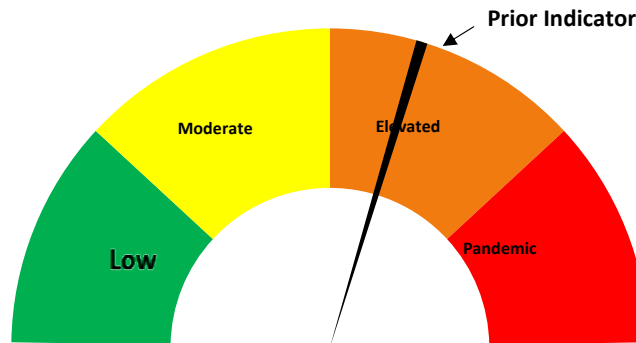


**Risk Dial Oct 1 2020**



**Risk Dial for COVID-19  
Two Rivers Public Health  
Published October 1, 2020**

- Two Rivers Health Department is currently aware of at least 25 positive test results that have not been entered into our system. Again, not all negative lab results from Long Term Care Facility/ Point of Care (LTCF/POC) testing sites have been entered in the state database. The weekly summary has to be seen in this light. While individual positivity rates per county or age group might not reveal much, the broader trends across the district bear note.
- The district's overall positivity rate showed a drop from 19 to 17%. Some part of this shift continues to be explained by the time lag in updating test results in the statewide health database.
- Private labs and hospitals in Buffalo county seem to be returning less tests compared to historic rates. Fewer residents of Kearney, Phelps and Franklin seem to be accessing testing compared to the previous few months
- Negative results have been communicated individually to test recipients, but are still to be updated by the system. Overall, the number of persons whose test results were obtained is similar to the previous week (around 870), but about a third lower compared to the weekly testing average over the preceding eight weeks.
- Hospitalization rates and use of critical equipment is lower compared to the previous week. Hospitalization rates experienced a slight increase, along with a slight decrease in the number of overall staffed beds.



- The Department anticipates worsening trends in morbidity and mortality statistics across the district in the coming weeks as currently ongoing investigation data is updated in the system.
- The positivity rates among 60-69, 70-79 and 80-89 year olds (18%, 15% and 10% respectively) show a significant decrease as compared to the previous week. About a fourth of tests last week were conducted on persons over 60 years.
- The time taken to receive test results by TRPHD continues to remain low. Less than 30% results received within 2 days, over 15% results take 6 days or more to enter the system.

### **Weekly report Sep 16 - Sep 22 2020**

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

**Reporting period** : Sep 23 – Sep 29 2020 (1 week)  
& Sep 2 – Sep 29 2020 (4 weeks)

#### **Overall testing – previous week**

A total of 868 persons were tested in the past week, of whom 150 were positive, and 718 were negative. The results are displayed below.

	<b>Negative</b>	<b>Positive</b>	<b>Total</b>
<b>Number</b>	718	150	868
<b>Percentage</b>	82.7%	17.3%	100.0%

#### **Overall testing – previous month**

A total of 4066 persons were tested in the past 4 weeks, of whom 597 were positive, and 3469 were negative. The results are displayed below.

	<b>Negative</b>	<b>Positive</b>	<b>Total</b>
<b>Number</b>	3469	597	4066
<b>Percentage</b>	85.3%	14.7%	100.0%

The following table (table 1) gives details of positive cases done by county, age categories and gender.

**Table 1: Details of total and positive tests – 1 week and 4 weeks**

	<b>Sep 23 – Sep 29 (1 week)</b>			<b>Sep 2 – Sep 29 (4 weeks)</b>		
	<b>Total persons tested</b>	<b>Positive cases</b>	<b>P. rate (%)</b>	<b>Total persons tested</b>	<b>Positive cases</b>	<b>P. rate (%)</b>
<b>County</b>						



Buffalo	578	97	16.8%	2,492	396	15.9%
Dawson	179	20	11.2%	869	81	9.3%
Franklin	18	8	44.4%	58	11	19.0%
Gosper	13	4	30.8%	57	14	24.6%
Harlan	6	3	50.0%	45	14	31.1%
Kearney	23	10	43.5%	219	36	16.4%
Phelps	27	6	22.2%	242	38	15.7%
Data missing/ not disclosed	24	2	8.3%	84	7	8.3%
<b>Total</b>	<b>868</b>	<b>150</b>	<b>17.3%</b>	<b>4,066</b>	<b>597</b>	<b>14.7%</b>
<b>Age (in yrs)</b>						
0-17	120	9	7.5%	623	49	7.9%
18-29	198	43	21.7%	926	160	17.3%
30-39	112	24	21.4%	564	91	16.1%
40-49	107	23	21.5%	449	68	15.1%
50-59	110	22	20.0%	465	84	18.1%
60-69	93	17	18.3%	429	72	16.8%
70-79	53	8	15.1%	271	48	17.7%
80-89	41	4	9.8%	212	22	10.4%
90+	34	0	0.0%	127	3	2.4%
<b>Total</b>	<b>868</b>	<b>150</b>	<b>17.3%</b>	<b>4066</b>	<b>597</b>	<b>14.7%</b>
<b>Gender</b>						
Female	346	80	23.1%	1,629	315	19.3%
Male	282	62	22.0%	1,389	251	18.1%
Data missing/ not disclosed	240	8	3.3%	1,048	31	3.0%
<b>Total</b>	<b>868</b>	<b>150</b>	<b>17.3%</b>	<b>4,066</b>	<b>597</b>	<b>14.7%</b>



Fig 1 (below) describes the 7-day rolling average of persons tested across the district over the past 4 weeks, as well as the 7-day rolling average of positive cases. Plotted on the z-axis is the weekly positivity rate for the entire district.

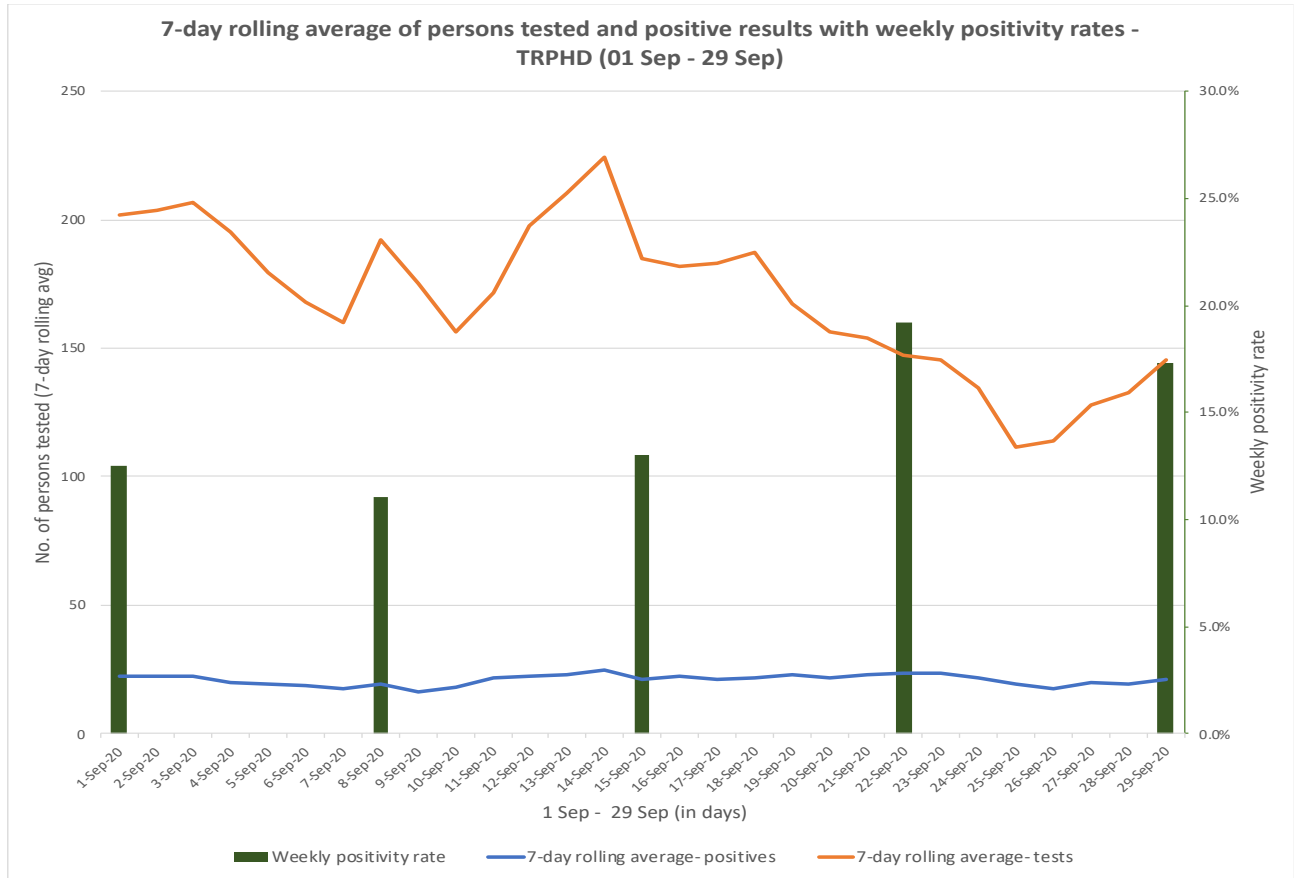




Fig 2 (below) describes the 7-day rolling average of cases per county for the last 4 weeks.

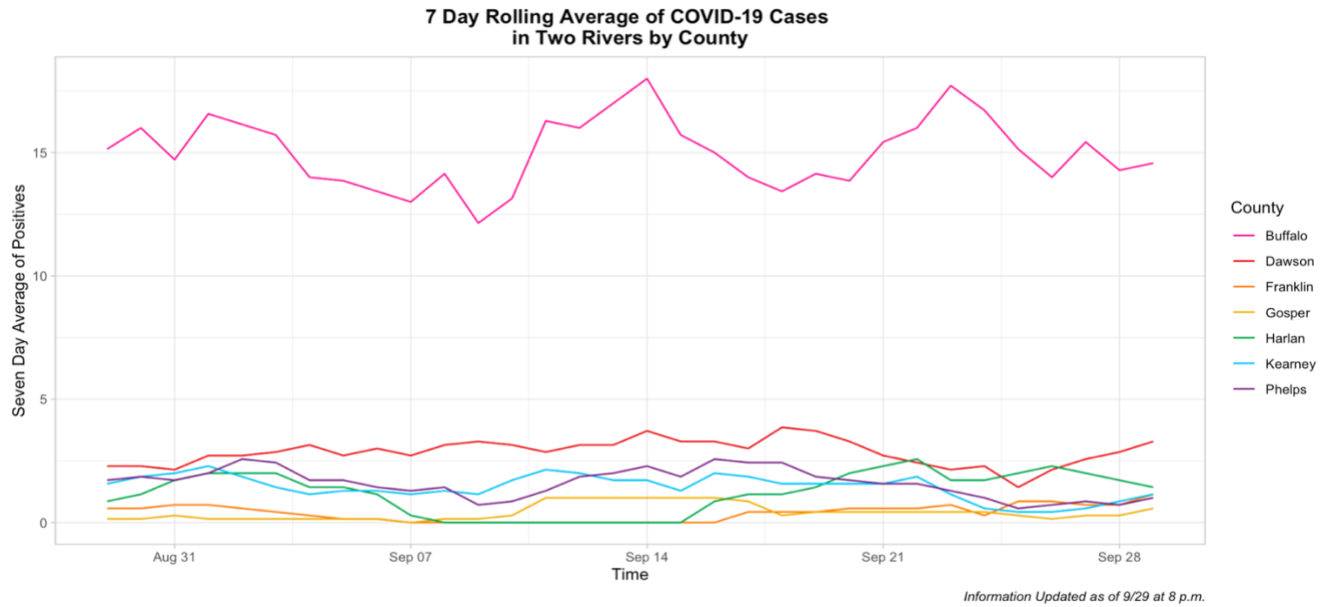


Figure 3 (below) describes the 7-day rolling average by city in TRPHD (all cities with cumulative case count over 30 cases are included)

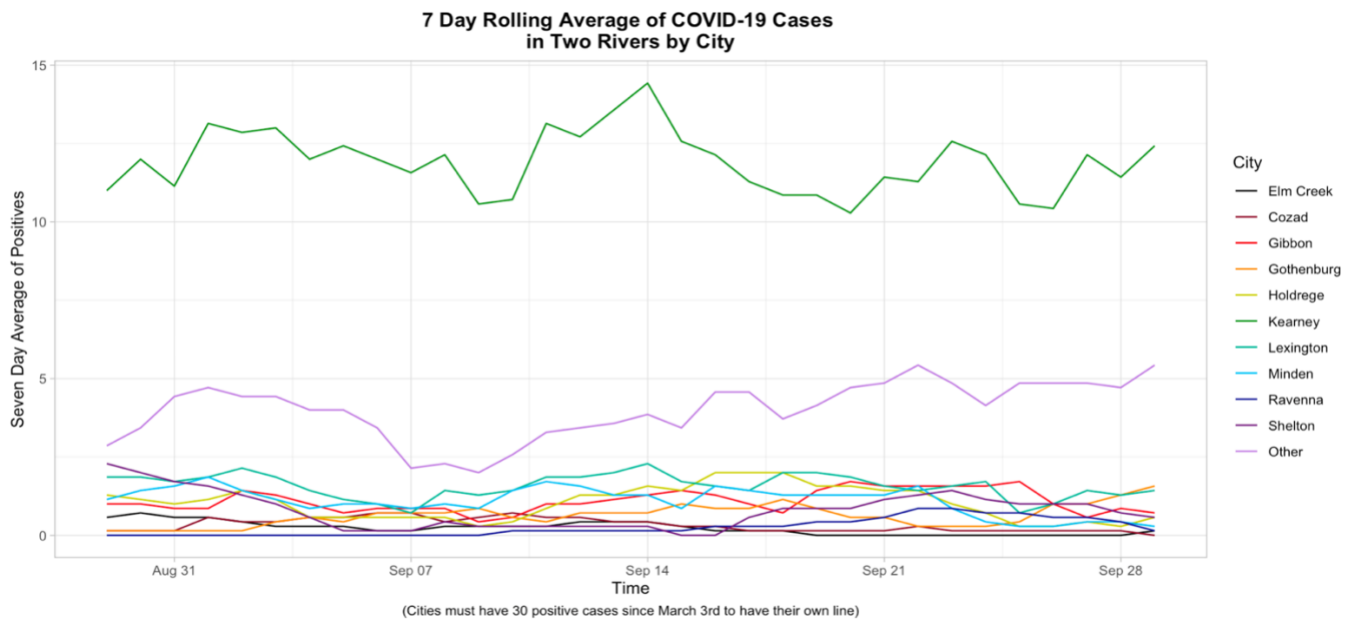




Figure 4 (below) describes the 7-day rolling average of cases by age category for the last 4 weeks.

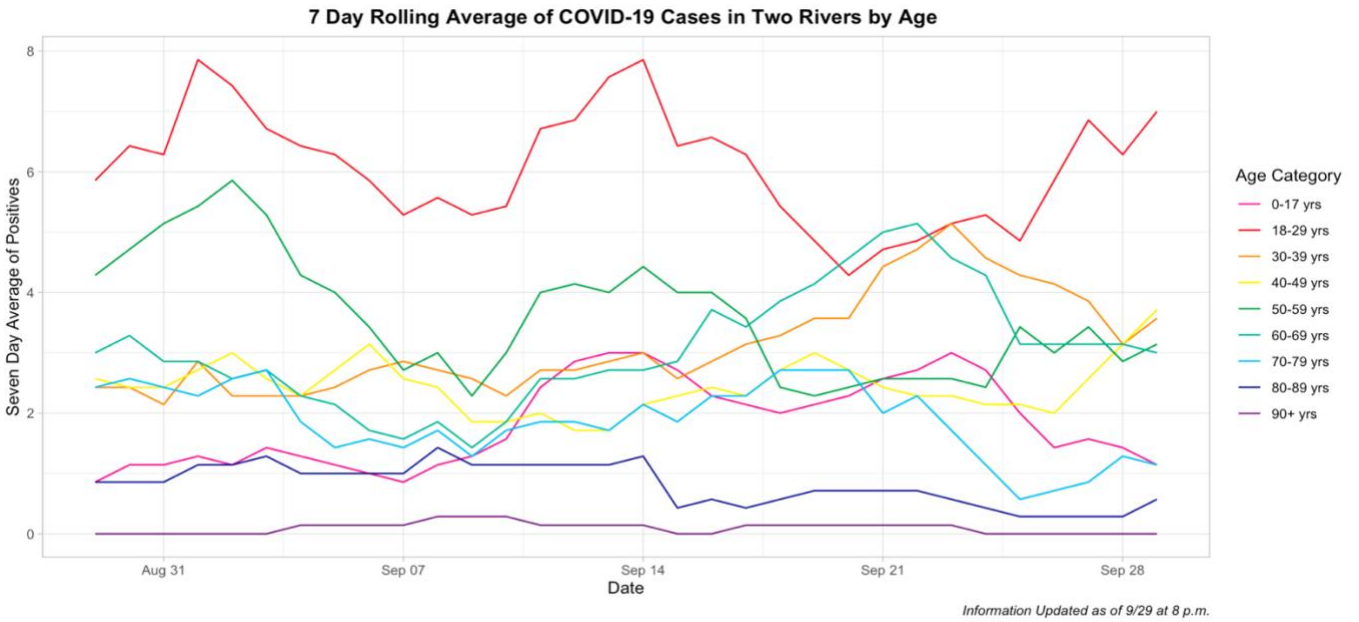




Table 2 describes the proportion of total tests done by county and age category on Aug 19 – Sep 15 2020

**Table 2: Total tests in TRPHD – past week and past 4 weeks – proportions by county, age and gender**

	Sep 23 – Sep 29 (1 week)		Sep 2 – Sep 29 (4 weeks)	
	Total persons tested	Percentage of tests done by county/ age group/ gender (%)	Total persons tested	Percentage of tests done by county/ age group/ gender (%)
<b>County</b>				
Buffalo	578	66.6%	2,492	61.3%
Dawson	179	20.6%	869	21.4%
Franklin	18	2.1%	58	1.4%
Gosper	13	1.5%	57	1.4%
Harlan	6	0.7%	45	1.1%
Kearney	23	2.6%	219	5.4%
Phelps	27	3.1%	242	6.0%
Data missing/ not disclosed	24	2.8%	84	2.1%
<b>Total</b>	<b>868</b>	<b>100.0%</b>	<b>4,066</b>	<b>100.0%</b>
<b>Age (in yrs)</b>				
0-17	120	13.8%	623	15.3%
18-29	198	22.8%	926	22.8%
30-39	112	12.9%	564	13.9%
40-49	107	12.3%	449	11.0%
50-59	110	12.7%	465	11.4%
60-69	93	10.7%	429	10.6%
70-79	53	6.1%	271	6.7%
80-89	41	4.7%	212	5.2%
90+	34	3.9%	127	3.1%
<b>Total</b>	<b>868</b>	<b>100.0%</b>	<b>4066</b>	<b>100.0%</b>
<b>Gender</b>				
Female	346	39.9%	1,629	40.1%
Male	282	32.5%	1,389	34.2%
Data missing/ not disclosed	240	27.6%	1,048	25.8%
<b>Total</b>	<b>868</b>	<b>100.0%</b>	<b>4,066</b>	<b>100.0%</b>
<b>Testing facility</b>				
Private facility - Phe/Kea/Fra/Gos/Har	5	0.6%	65	1.6%



Private facility - Buffalo	189	21.8%	990	24.3%
Private facility - Dawson	117	13.5%	434	10.7%
Private facility - TRPHD	23	2.6%	271	6.7%
TestNebraska.com	482	55.5%	2,033	50.0%
Other	52	6.0%	273	6.7%
<b>Total</b>	<b>868</b>	<b>100.0%</b>	<b>4066</b>	<b>100.0%</b>

Fig 5 (below) describes the weekly test results since July 01 received by TRPHD for all residents in the district. Data includes both first time testers as well as individuals like care home residents and healthcare workers who have received multiple tests.

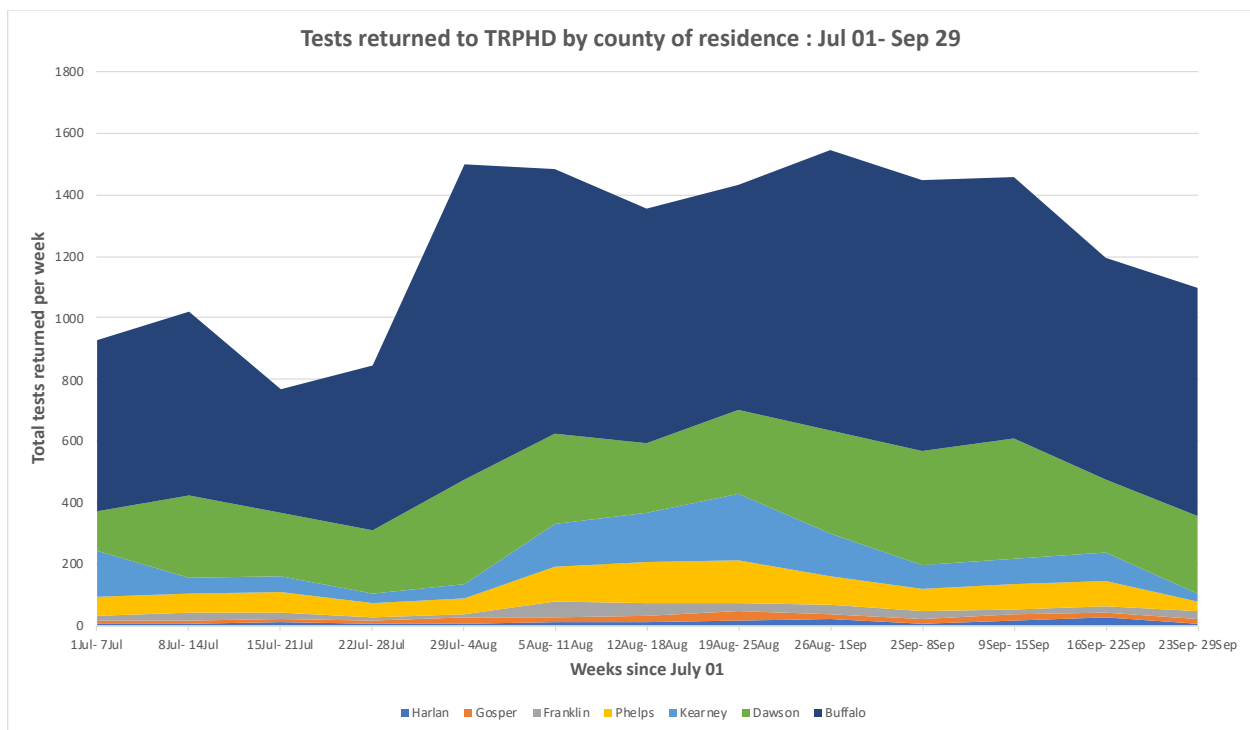
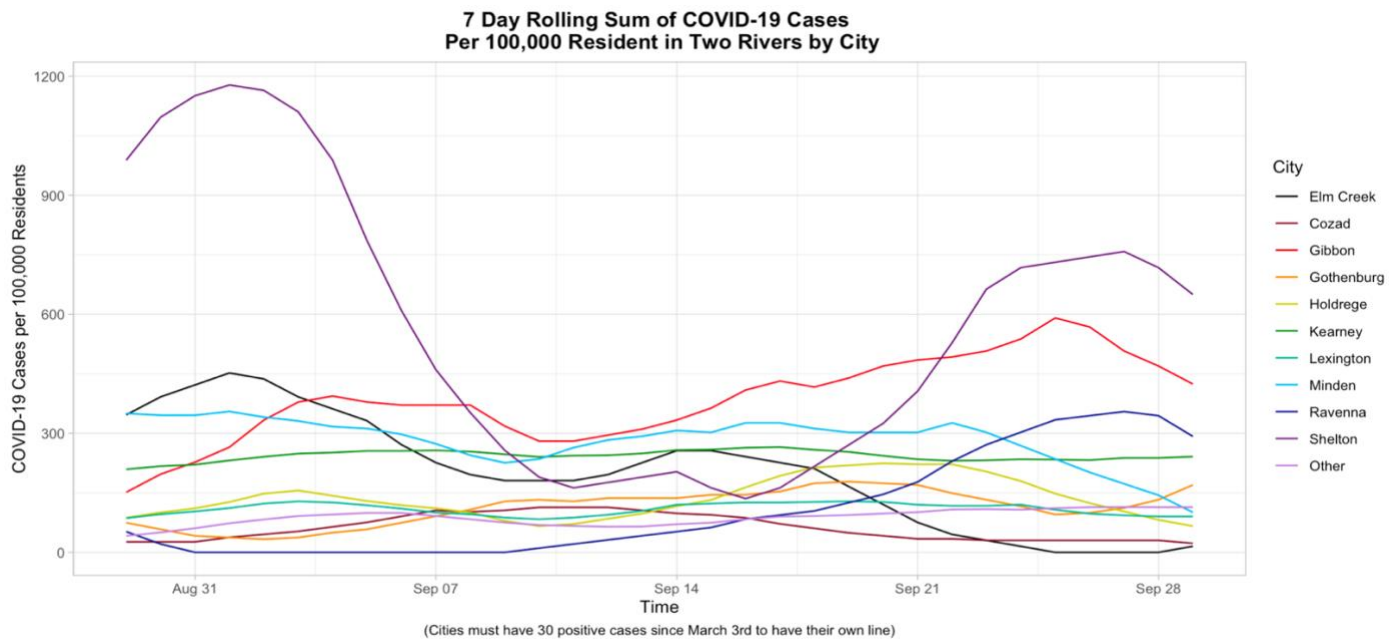
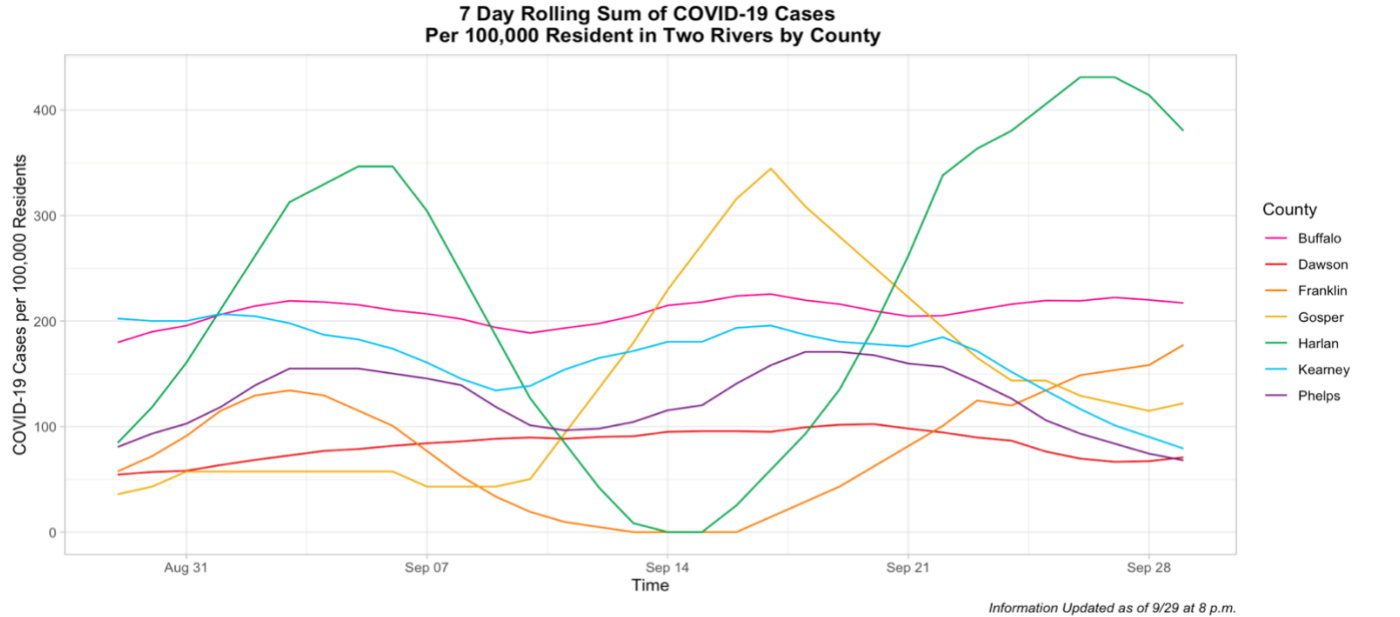






Figure 6 & 7 (below) depict the 7-day rolling average per 100,000 population at the county and city level. Population estimates used are from the American Community Survey (ACS) mid-year estimate 2019





### Weekly summary

- The numbers above depict the total persons tested over the past week and the past 4 weeks in Two Rivers Health District along with positivity rates. Also displayed are the proportion of tests performed per county, per age category and for males v/s females.
- Two Rivers Health Department is currently aware of at least 25 positive test results that have not been entered into our system. Again, not all negative lab results from Long Term Care Facility/ Point of Care (LTCF/POC) testing sites have been entered in the state database. The weekly summary has to be seen in this light. While individual positivity rates per county or age group might not reveal much, the broader trends across the district bear note.
- TestNebraska.com accounts for over 55% of all persons tested in the previous week, despite the overall number of tests remaining similar to the previous week. Like the previous week, overall testing in the district seems to be about a fourth less than the historic weekly average (averaged over the previous 8 weeks).
- The department seems to be receiving fewer results from Kearney, Phelps and Franklin counties. There continues to be concerns that negative results from care home testing sites are not being fed back into the system.
- Negative results have been communicated individually to test recipients, but are still to be updated in the statewide DHHS system. The Department anticipates worsening trends in morbidity and mortality statistics across the district in the coming weeks as currently ongoing investigation data is updated in the system.
- The high positivity rates in Franklin, Gosper and Harlan counties is largely explained by the missing negative results. However, contact tracing reveals possible large-scale community transmission in Franklin county. The department is working closely with local communities to create contingency response plans in case of an outbreak.
- The number of positive cases reported from Kearney city seem to remain persistently high, and the city now accounts for almost all of the cases reported from Buffalo county. This, along with the high rates among young adults aged 18-23 in the city, point to the need for adoption of stricter personal masking and social distancing strategies.
- After spiking dramatically the previous week, the positive results per 100,000 residents dropped, both at county and city level. It is anticipated that this data issue will be resolved quickly.
- 18-29 year olds account for a little less than a fourth of all tests and continue to have high positivity rates (21.7%). By contrast, persons over 60, accounting for about a fourth of all tests, have lower positivity rates compared to previous weeks (18%, 15% and 10% for 60-69, 70-79 and 80-89 year olds respectively), although still higher than the historic average.