



Weekly report Aug 26-Sep 1 2020

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

Reporting period : Aug 26 – Sep 01 2020 (1 week)
& Aug 05 – Sep 01 2020 (4 weeks)

Overall testing – previous week

A total of 1254 persons were tested in the past week, of whom 103 were positive, and 1066 were negative. The results are displayed below.

	Negative	Positive	Total
Number	1097	157	1254
Percentage	87.5%	12.5%	100.0%

Overall testing – previous month

A total of 4757 persons were tested in the past 4 weeks, of whom 517 were positive, and 4240 were negative. The results are displayed below.

	Negative	Positive	Total
Number	4240	517	4757
Percentage	89.1%	10.9%	100.0%

The following table 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

	26 Aug – 1 Sep (1 wk)			5 Aug – 1 Sep (4 wks)		
	Positive cases	Total persons tested	P. rate (%)	Positive cases	Total persons tested	P. rate (%)
County						
Buffalo	100	742	13.5%	329	2717	12.1%
Dawson	19	239	7.9%	56	776	7.2%
Franklin	2	21	9.5%	9	115	7.8%
Gosper	1	12	8.3%	5	56	8.9%
Harlan	5	20	25.0%	7	64	10.9%
Kearney	16	125	12.8%	78	579	13.5%
Phelps	14	84	16.7%	32	425	7.5%
Data missing/ not disclosed	0	11	0.0%	1	25	4.0%
Total	157	1254	12.5%	517	4,757	10.9%

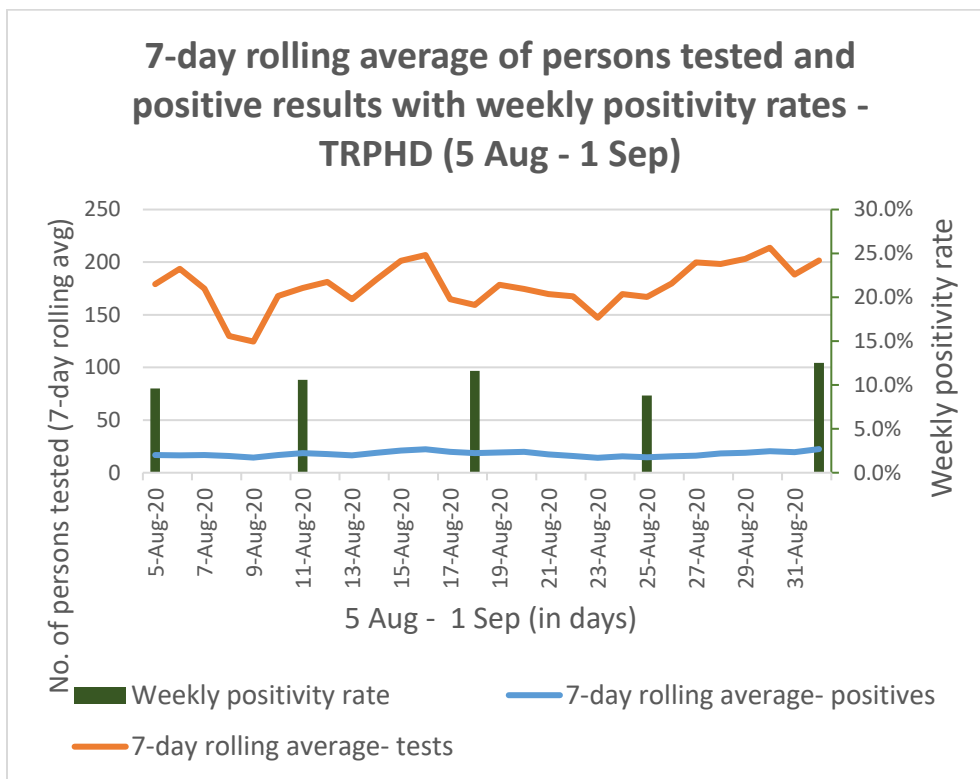
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Age (in yrs)						
0-17	10	220	4.5%	29	614	4.7%
18-29	45	244	18.4%	135	1,063	12.7%
30-39	18	139	12.9%	73	678	10.8%
40-49	15	123	12.2%	66	509	13.0%
50-59	35	164	21.3%	81	575	14.1%
60-69	17	129	13.2%	66	545	12.1%
70-79	12	105	11.4%	48	387	12.4%
80-89	5	77	6.5%	16	247	6.5%
90+	0	53	0.0%	3	139	2.2%
Total	157	1254	12.5%	517	4757	10.9%
Gender						
Female	81	523	15.5%	235	1906	12.3%
Male	71	453	15.7%	250	1568	15.9%
Data missing/ not disclosed	5	278	1.8%	32	1283	2.5%
Total	157	1254	12.5%	517	4757	10.9%



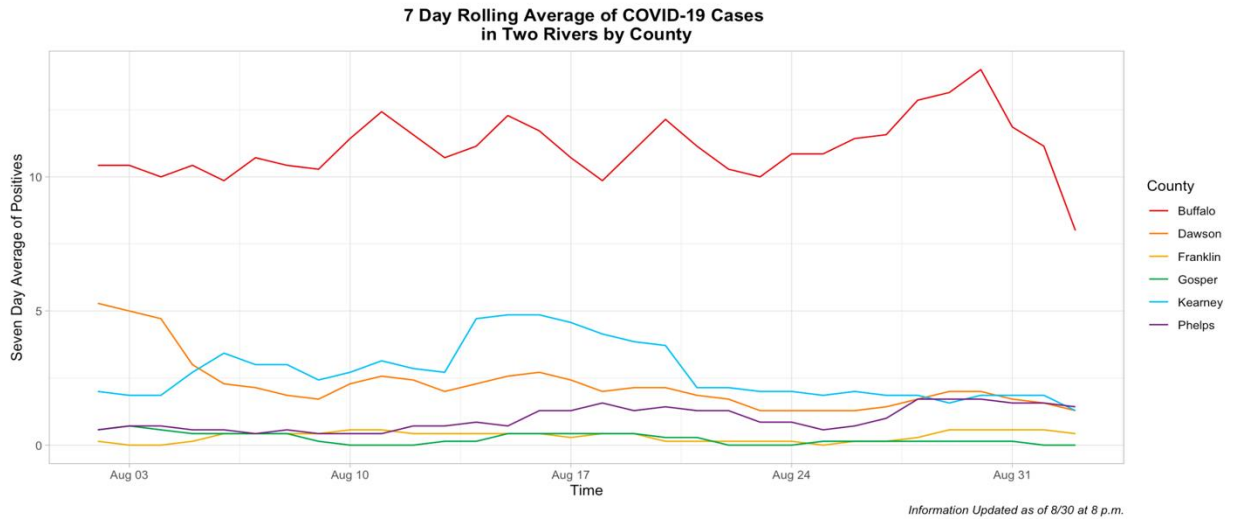
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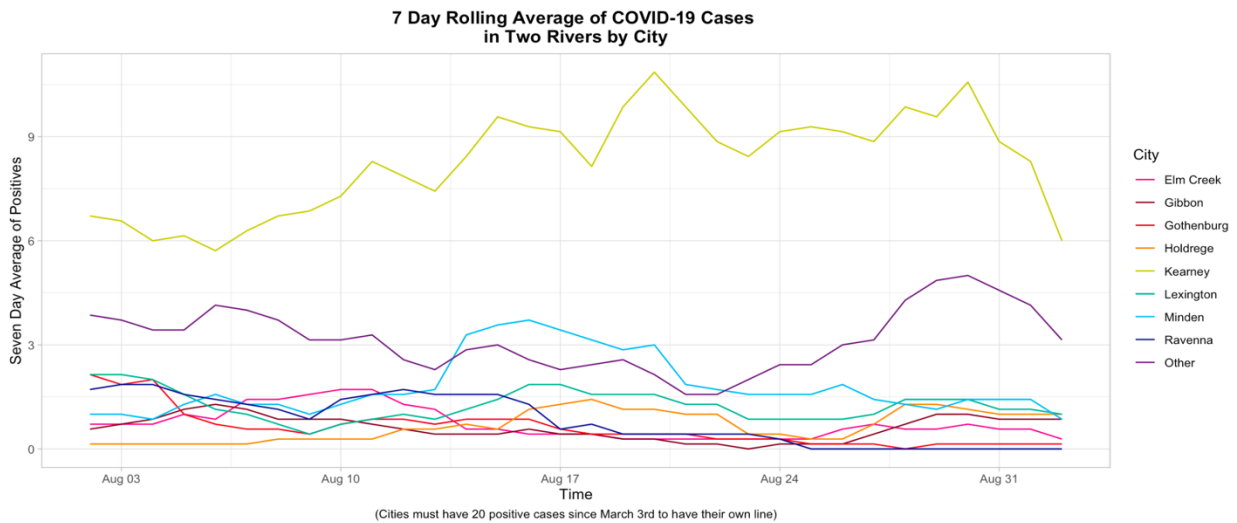
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The following graph describes the 7-day rolling average of cases per county for the last 4 weeks.



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



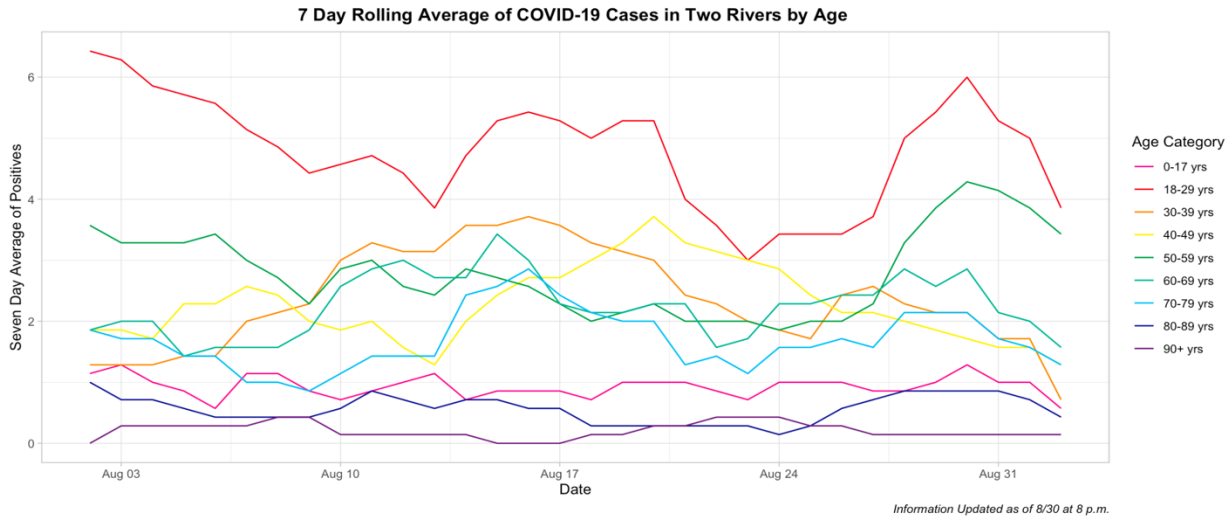
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The following graph describes the 7-day rolling average of cases by age category for the last 4 weeks.



The following table gives proportion of total tests done by county and age category on July29 -Aug19 2020

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

	26 Aug – 1 Sep (1 wk)		5 Aug – 1 Sep (4 wks)	
	Total persons tested	Percentage of tests done by county/ age group/ gender (%)	Total persons tested	Percentage of tests done by county/ age group/ gender (%)
County				
Buffalo	742	59.2%	2,870	57.1%
Dawson	239	19.1%	803	16.3%
Franklin	21	1.7%	105	2.4%
Gosper	12	1.0%	58	1.2%
Harlan	20	1.6%	52	1.3%
Kearney	125	10.0%	501	12.2%
Phelps	84	6.7%	392	8.9%

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Data missing/ not disclosed	11	0.9%	22	0.5%
Total	1254	100.0%	4803	100.0%
Age (in yrs)				
0-17	220	17.5%	488	12.9%
18-29	244	19.5%	1,114	22.3%
30-39	139	11.1%	710	14.3%
40-49	123	9.8%	549	10.7%
50-59	164	13.1%	583	12.1%
60-69	129	10.3%	553	11.5%
70-79	105	8.4%	385	8.1%
80-89	77	6.1%	275	5.2%
90+	53	4.2%	144	2.9%
Total	1254	100.0%	4801	100.0%
Gender				
Female	523	41.7%	1,759	40.1%
Male	453	36.1%	1,479	33.0%
Data missing/ not disclosed	278	22.2%	1,565	27.0%
Total	1254	100.0%	4803	100.0%
Testing facility				
Pvt clinic or hosp in Phe/Kea/Fra/Gos/Har	41	3.3%	226	4.8%
Pvt clinic or hosp in Buffalo Co	359	28.6%	1,218	25.6%
Pvt clinic or hosp in Dawson Co	155	12.4%	560	11.8%
Pvt clinic or hosp in outside TRPHD	73	5.8%	280	5.9%
TestNE	570	45.5%	2,256	47.4%
Other	56	4.5%	217	4.6%
Total	1254	100.0%	4757	100.0%

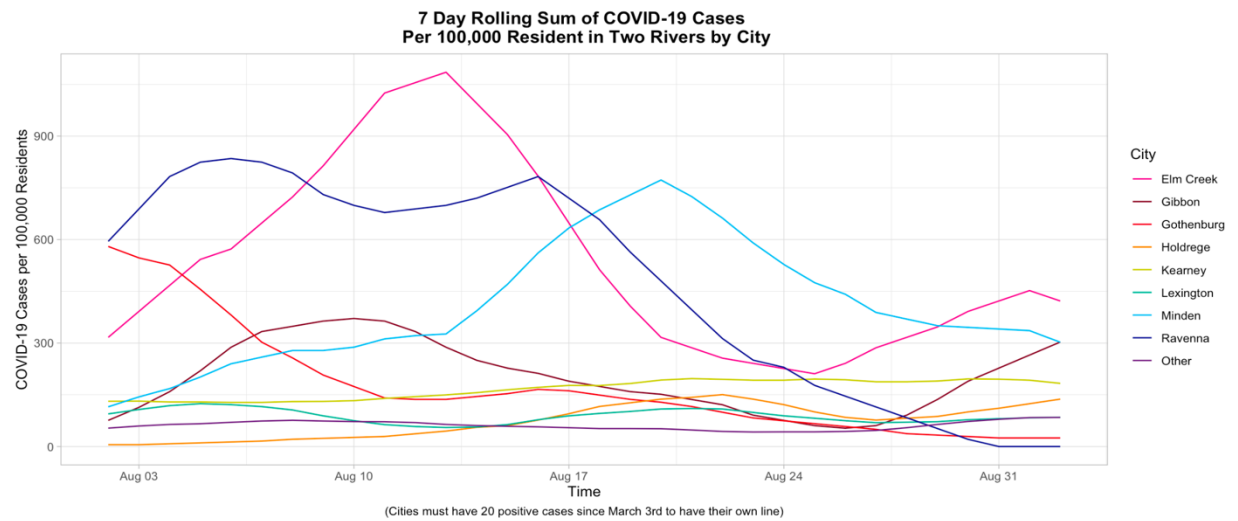
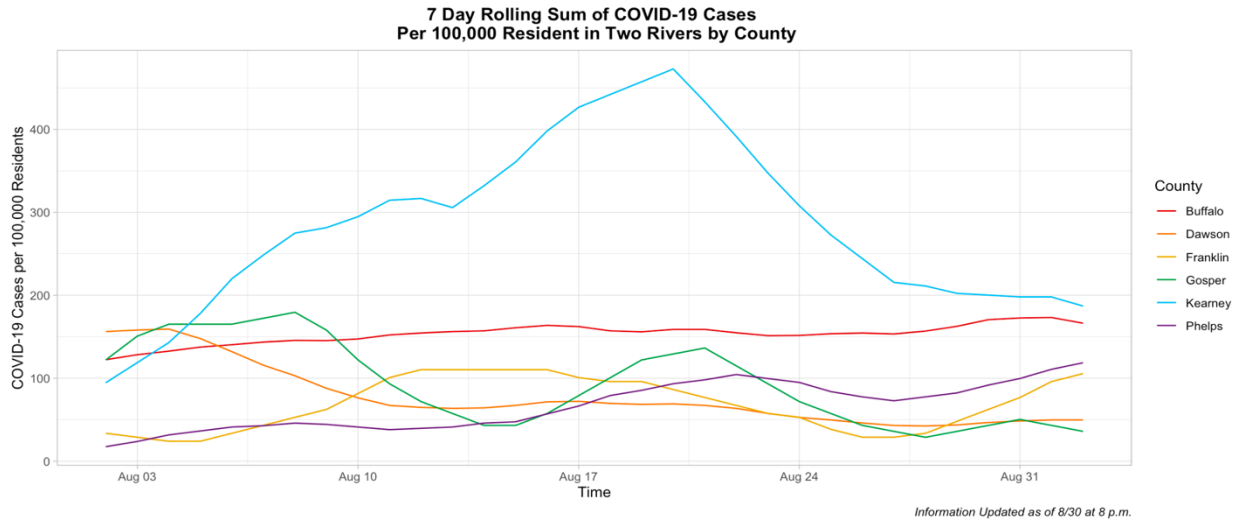
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The following two graphs depict the 7-day rolling average by 100,000 population at the county and city level. Population estimates used are from the American Community Survey (ACS) mid-year estimate 2019



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Weekly summary

- The numbers above depict the total persons tested over the past week and the past 4 weeks in Two Rivers Health District. Positivity rates are also displayed, but they should be read with cognizance of the context (for eg, 25% positivity rate in Harlan county for the past week represents five persons out of 20 who were tested)
- Almost 90% of tests over the past week were administered to people living in Buffalo, Dawson and Kearney counties. The higher number of tests for persons living in Kearney county were likely a response to higher detection of cases and subsequent testing accessed by close contacts. The ability of TestNebraska and private facilities to respond to increased demand for testing with little to no delay in turnaround time is invaluable in our efforts to control COVID.
- Almost a fifth of all tests in the past week were administered to persons aged 18-29 years, and they returned a high positivity rate of 18.4%
- Positivity rate for the past week for Buffalo county is 13.5%, showing a steady increase over the previous week. This rise is largely driven by positive results among 18-29, 40-49 and 50-59 year olds in Kearney city. 18-29 year old adults in Kearney city (pos rt 18.4%) show higher rates of positivity this week, driven primarily by 24-29 year olds (pos rt 20.8%). Adults in their mid 40's (42-46) and early 50's (50-51) in Kearney city are driving overall positivity rates in the city
- Dramatically increased positivity rates in the towns of Elm Creek (pos rt 44%), Gibbon (pos rt 20.7%) and Shelton (pos rt 36.4%) continue to remain cause for concern. Although Kearney city remains the hub of new infections in Buffalo county, these three towns contribute to Buffalo county's overall positivity rate, and point to the need for expanded testing in these areas.
- The positivity rates in Phelps county shows a dramatic increase, driven primarily by a two-and-a-half times increase of the positivity rate in the city of Holdrege (pos rt 12.1%).
- The dramatic increase in positivity rate in 50-59 year old adults (pos rt 21.3%) is alarming. These persons seem to be mostly in their younger 50s (50-53), but reside across all counties in the district.
- Cozad and Gothenburg both show a steady decrease in the number of cases, and the combined positivity rate is less than 5% for both cities and less than 3% for Cozad.



Community Risk Dial



Risk Dial for COVID-19
Two Rivers Public Health
Published September 3, 2020

- Overall positivity rates have shown an increase of 3.5% for the entire district, compared to last week. This increase in cases is almost entirely responsible for the higher risk dial rating this week as compared to previous week.
- There is an increase in the total number of Test Nebraska testing sites, and sites are fully functional across the district.
- Sub-optimal usage of TestNebraska sites continues to be a problem, especially when testing load is significantly lower than the anticipated test volume (ie, more people sign up for testing than who actually turn up for testing that day).
- TRPHD is seeing an increase in positive case investigations as well as the number of direct contacts with each positive case, although this change is not significant
- Hospital beds, ICU beds and ventilators are available through the district, although occupancy rates are higher than the previous week.
- Most TRPHD hospitals have a 2-week supply of personal protective equipment, PPE supply is regular and reliable. Healthcare facilities are well-stocked with equipment for the short term
- For the week of August 26 – September 1, there were 1,254 persons tested in the district with 157 persons testing positive.
- As of 4 PM on Wednesday, September 2, 17 individuals (all adults) within the district are hospitalized due to COVID-19. A total of four patients (all adults) are currently on ventilator support, and seven adult patients are admitted in the intensive care unit with COVID-19

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