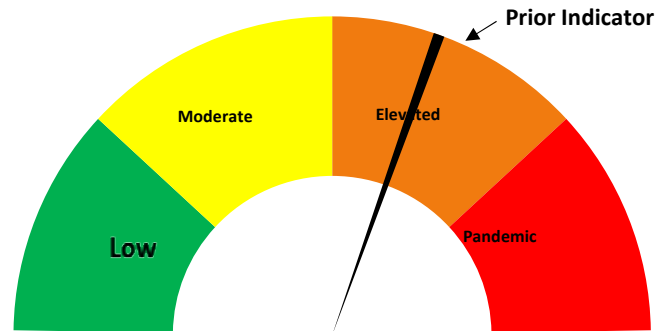


## Risk Dial Sep 25 2020



**Risk Dial for COVID-19**  
**Two Rivers Public Health**  
**Published September 25, 2020**

- The district's overall positivity rate showed a dramatic increase over the past week, from 13 to 19%
- Some part of this shift is explained by test results that were not updated in the statewide health database. Many of these results seem to be from testing done in care homes and senior living facilities in the region, a vast majority of whom were negative. Testing results from sites in Buffalo and Dawson counties seem to show the greatest absolute change from previous weeks, although Harlan and Kearney counties show a greater relative drop in average testing numbers.
- Results have been communicated individually to test recipients, but are still to be updated by the system. Overall, these account for less than a third of the tests conducted in the previous week.
- Hospitalization rates and use of critical equipment is lower compared to the previous week. Hospitalization rates average a little over 65% for the previous week, and ventilator availability for the district was 88% on average the previous week.
- The higher positivity rates among 60-69, 70-79 and 80-89 year olds (27%, 26% and 15% respectively) might be explained by the unreported tests in this category.
- Testing coverage for the district was comparable to the previous week, but only about two-thirds of results have fed back into 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 16 – Sep 22 2020 (1 week)  
& Aug 26 – Sep 22 2020 (4 weeks)

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

A total of 863 persons were tested in the past week, of whom 166 were positive, and 697 were negative. The results are displayed below.

|                   | <b>Negative</b> | <b>Positive</b> | <b>Total</b> |
|-------------------|-----------------|-----------------|--------------|
| <b>Number</b>     | 697             | 166             | 863          |
| <b>Percentage</b> | 80.8%           | 19.2%           | 100.0%       |

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

A total of 4469 persons were tested in the past 4 weeks, of whom 607 were positive, and 3862 were negative. The results are displayed below.

|                   | <b>Negative</b> | <b>Positive</b> | <b>Total</b> |
|-------------------|-----------------|-----------------|--------------|
| <b>Number</b>     | 3862            | 607             | 4469         |
| <b>Percentage</b> | 86.4%           | 13.6%           | 100.0%       |

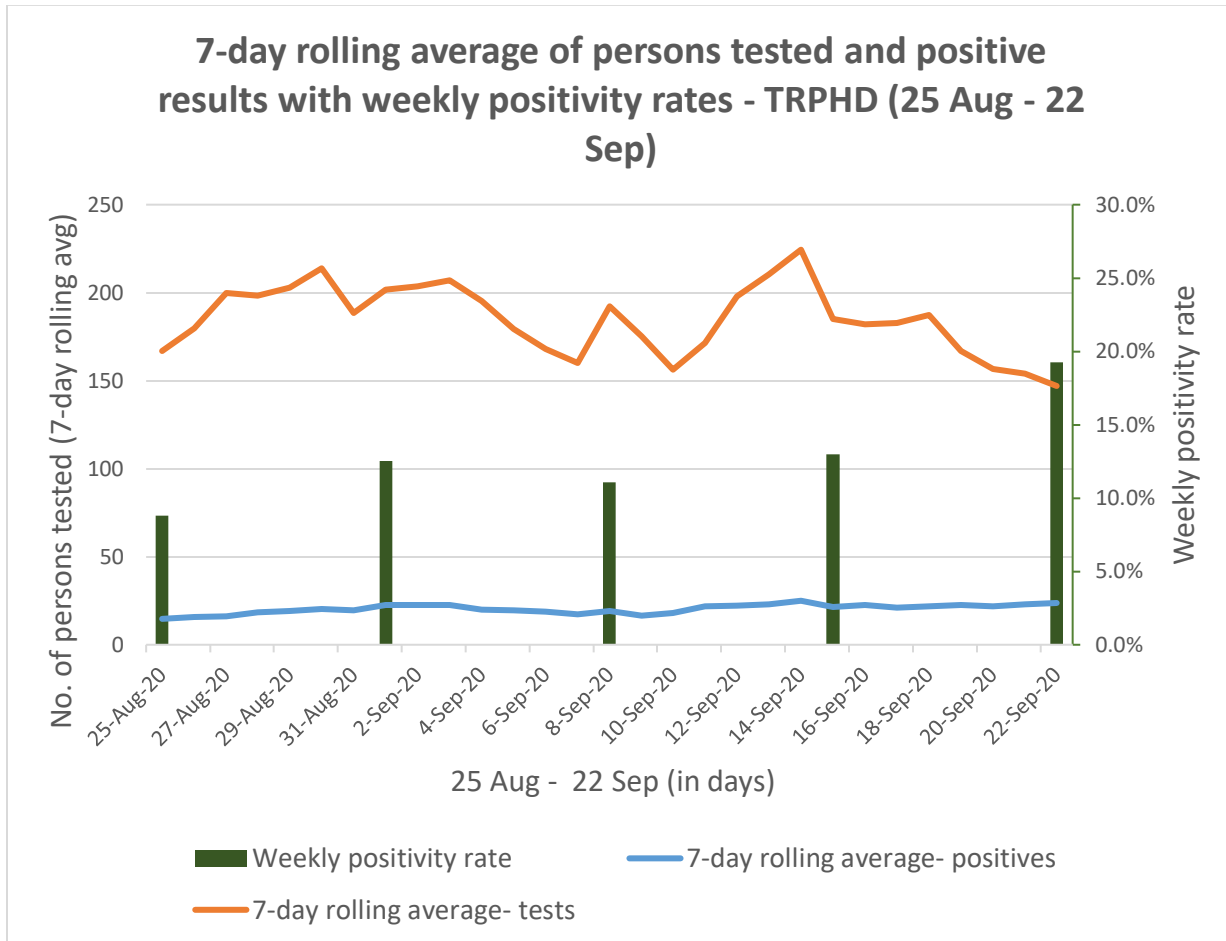
The following table gives details of positive cases done by county, age categories and gender.

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

|                             | <b>Sep 16 – Sep 22 (1 week)</b> |                             |                    | <b>Aug 26 – Sep 22 (4 weeks)</b> |                             |                    |
|-----------------------------|---------------------------------|-----------------------------|--------------------|----------------------------------|-----------------------------|--------------------|
|                             | <b>Positive cases</b>           | <b>Total persons tested</b> | <b>P. rate (%)</b> | <b>Positive cases</b>            | <b>Total persons tested</b> | <b>P. rate (%)</b> |
| <b>County</b>               |                                 |                             |                    |                                  |                             |                    |
| Buffalo                     | 105                             | 501                         | 21.0%              | 402                              | 2670                        | 15.1%              |
| Dawson                      | 17                              | 151                         | 11.3%              | 80                               | 932                         | 8.6%               |
| Franklin                    | 3                               | 12                          | 25.0%              | 5                                | 61                          | 8.2%               |
| Gosper                      | 3                               | 17                          | 17.6%              | 11                               | 56                          | 19.6%              |
| Harlan                      | 9                               | 15                          | 60.0%              | 14                               | 56                          | 25.0%              |
| Kearney                     | 13                              | 68                          | 19.1%              | 42                               | 322                         | 13.0%              |
| Phelps                      | 11                              | 74                          | 14.9%              | 47                               | 300                         | 15.7%              |
| Data missing/ not disclosed | 5                               | 25                          | 20.0%              | 6                                | 72                          | 8.3%               |
| <b>Total</b>                | <b>166</b>                      | <b>863</b>                  | <b>19.2%</b>       | <b>607</b>                       | <b>4469</b>                 | <b>13.6%</b>       |

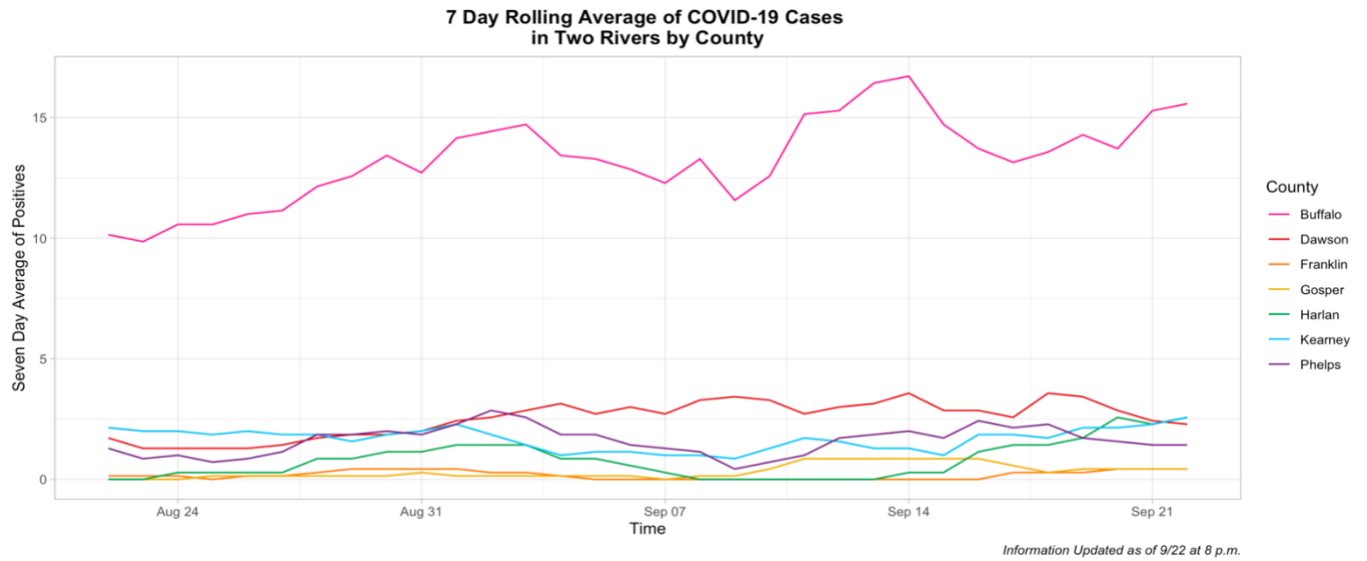


|                             |            |            |              |            |              |              |
|-----------------------------|------------|------------|--------------|------------|--------------|--------------|
| <b>Age (in yrs)</b>         |            |            |              |            |              |              |
| 0-17                        | 15         | 137        | 10.9%        | 50         | 728          | 6.9%         |
| 18-29                       | 33         | 201        | 16.4%        | 162        | 980          | 16.5%        |
| 30-39                       | 32         | 138        | 23.2%        | 86         | 591          | 14.6%        |
| 40-49                       | 17         | 85         | 20.0%        | 62         | 472          | 13.1%        |
| 50-59                       | 19         | 87         | 21.8%        | 97         | 515          | 18.8%        |
| 60-69                       | 29         | 106        | 27.4%        | 72         | 464          | 15.5%        |
| 70-79                       | 14         | 54         | 25.9%        | 52         | 323          | 16.1%        |
| 80-89                       | 6          | 41         | 14.6%        | 23         | 248          | 9.3%         |
| 90+                         | 1          | 14         | 7.1%         | 3          | 147          | 2.0%         |
| <b>Total</b>                | <b>166</b> | <b>863</b> | <b>19.2%</b> | <b>607</b> | <b>4468</b>  | <b>13.6%</b> |
| <b>Gender</b>               |            |            |              |            |              |              |
| Female                      | 85         | 442        | 19.2%        | 317        | 1815         | 17.5%        |
| Male                        | 80         | 352        | 22.7%        | 263        | 1562         | 16.8%        |
| Data missing/ not disclosed | 1          | 69         | 1.4%         | 27         | 1092         | 2.5%         |
| <b>Total</b>                | <b>166</b> | <b>863</b> | <b>19.2%</b> | <b>607</b> | <b>4,469</b> | <b>13.6%</b> |



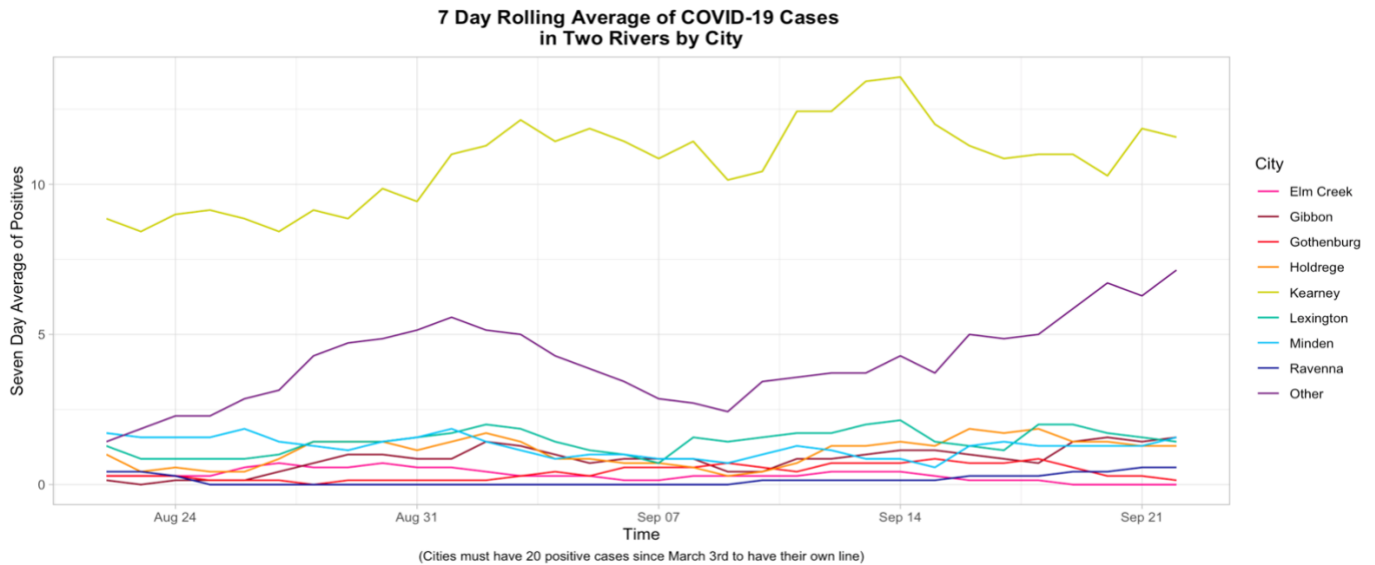


The following graph describes the 7-day rolling average of cases per county for the last 4 weeks.

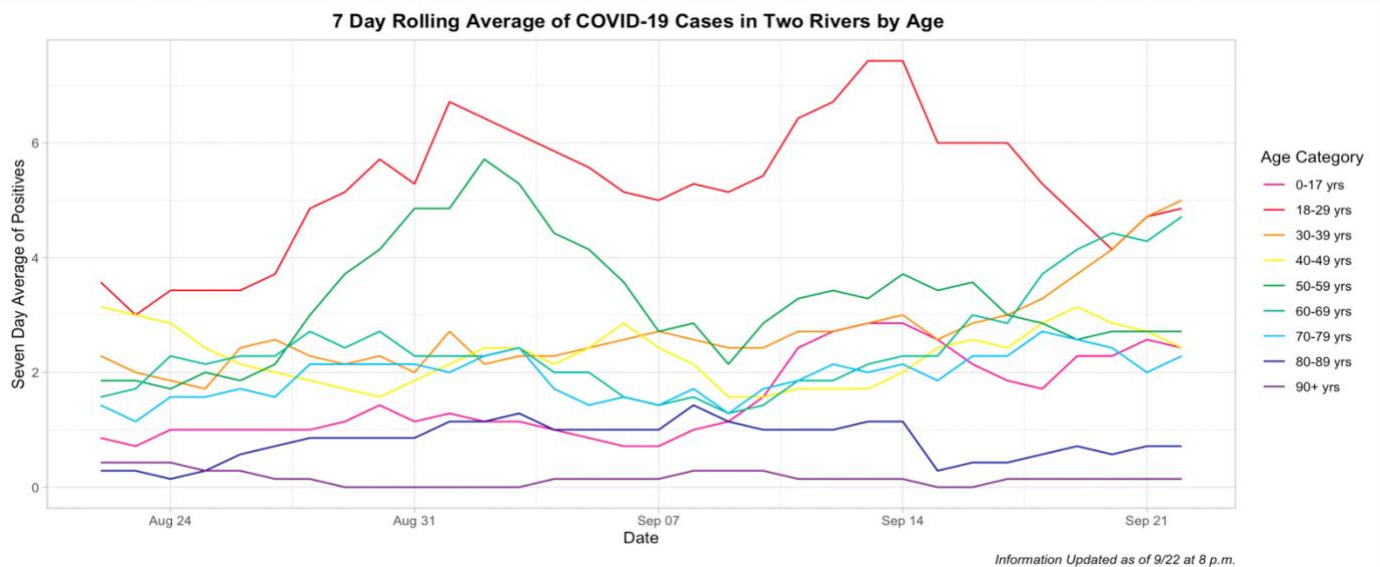




The following graph describes the 7-day rolling average by city in TRPHD (all cities with cumulative case count over 30 cases are included)



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 Aug 19 – Sep 15 2020

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

|                             | Sep 9 – Sep 15 (1 week) |   | Aug 19 – Sep 15 (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 (%) |
| <b>County</b>               |                         |   |                         |   |
| Buffalo                     | 501                     | 58.1%   | 2670                    | 59.7%   |
| Dawson                      | 151                     | 17.5%   | 932                     | 20.9%   |
| Franklin                    | 12                      | 1.4%  | 61                      | 1.4%  |
| Gosper                      | 17                      | 2.0%  | 56                      | 1.3%  |
| Harlan                      | 15                      | 1.7%  | 56                      | 1.3%  |
| Kearney                     | 68                      | 7.9%  | 322                     | 7.2%  |
| Phelps                      | 74                      | 8.6%  | 300                     | 6.7%  |
| Data missing/ not disclosed | 25                      | 2.9%  | 72                      | 1.6%  |
| <b>Total</b>                | <b>863</b>              | <b>100.0%</b>   | <b>4469</b>             | <b>100.0%</b>   |
| <b>Age (in yrs)</b>         |                         |   |                         |   |
| 0-17                        | 137                     | 15.9%   | 728                     | 16.3%   |
| 18-29                       | 201                     | 23.3%   | 980                     | 21.9%   |
| 30-39                       | 138                     | 16.0%   | 591                     | 13.2%   |
| 40-49                       | 85                      | 9.8%  | 472                     | 10.6%   |
| 50-59                       | 87                      | 10.1%   | 515                     | 11.5%   |
| 60-69                       | 106                     | 12.3%   | 464                     | 10.4%   |
| 70-79                       | 54                      | 6.3%  | 323                     | 7.2%  |
| 80-89                       | 41                      | 4.8%  | 248                     | 5.6%  |
| 90+                         | 14                      | 1.6%  | 147                     | 3.3%  |
| <b>Total</b>                | <b>863</b>              | <b>100.0%</b>   | <b>4468</b>             | <b>100.0%</b>   |
| <b>Gender</b>               |                         |   |                         |   |
| Female                      | 442                     | 51.2%   | 1815                    | 40.6%   |
| Male                        | 352                     | 40.8%   | 1562                    | 35.0%   |
| Data missing/ not disclosed | 69                      | 8.0%  | 1092                    | 24.4%   |
| <b>Total</b>                | <b>863</b>              | <b>100.0%</b>   | <b>4,469</b>            | <b>100.0%</b>   |

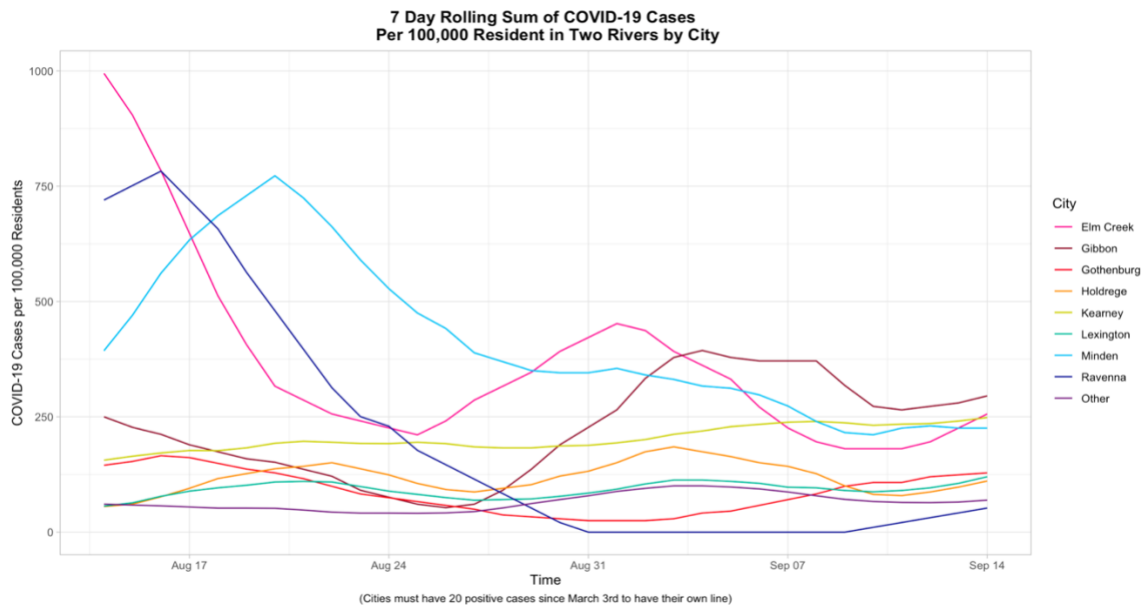
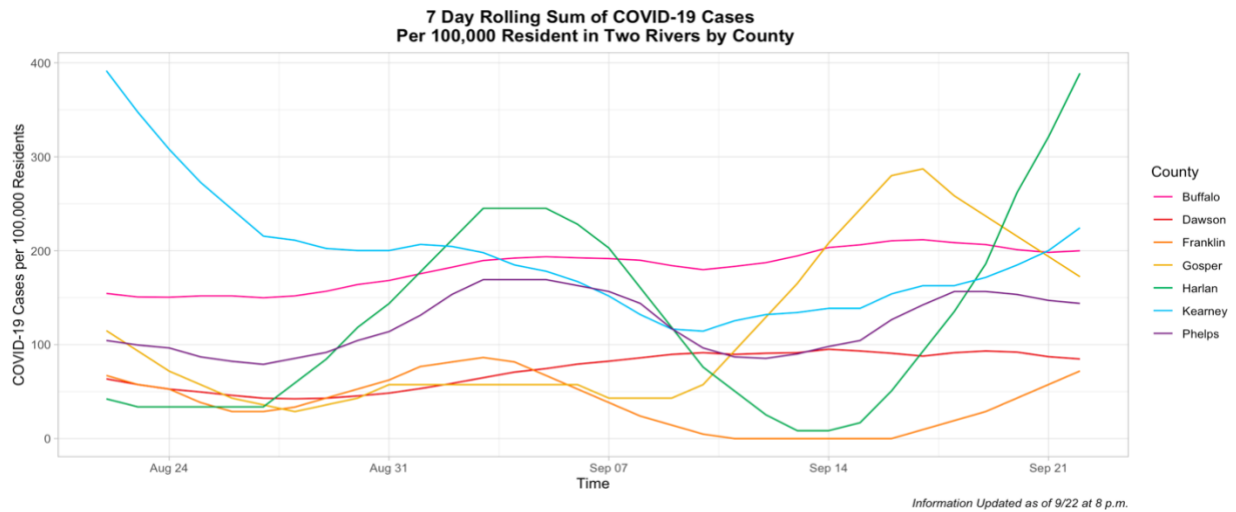


| <b>Testing facility</b>                   |            |               |             |               |
|---|------------|---------------|-------------|---------------|
| Private facility -<br>Phe/Kea/Fra/Gos/Har | 32         | 3.7%          | 100         | 2.2%          |
| Private facility -<br>Buffalo             | 262        | 30.4%         | 1,166       | 26.1%         |
| Private facility -<br>Dawson              | 103        | 11.9%         | 475         | 10.6%         |
| Private facility -<br>TRPHD               | 65         | 7.5%          | 322         | 7.2%          |
| TestNebraska.com                          | 320        | 37.1%         | 2,131       | 47.7%         |
| Other                                     | 81         | 9.4%          | 275         | 6.2%          |
| <b>Total</b>                              | <b>863</b> | <b>100.0%</b> | <b>4469</b> | <b>100.0%</b> |





The following two graphs 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.
- TestNebraska.com accounts for only 37% of the persons tested in the previous week, compared to over 50% in the previous week.
- There is a decrease of about 26% from the average number of tests conducted per week (averaged over the previous 8 weeks). Many of these results seem to be tests that were done in care homes and senior living facilities in the region, a vast majority of which were negative.
- Results have been communicated individually to test recipients, but are still to be updated in the statewide DHHS system. Overall, a little less than 2/5ths of all tests conducted in the previous week seem to have not been updated in the database.
- Positive cases have been reported from Franklin, Gosper and Harlan counties, and although some part of the high positivity rate may be explained by the missing cases, the emergence of COVID in smaller towns is being closely tracked.
- Rising positivity rates among 50-59 (pos rt 22%), 60-69 ( pos rt 27%) and 70-79 year olds (26%) in the district seem alarming at first glance, but may be attributable to incomplete negative test results reported in the system. Positivity rates among 50-59 year olds are closely tracking with previous weeks and continue to represent an area of concern.