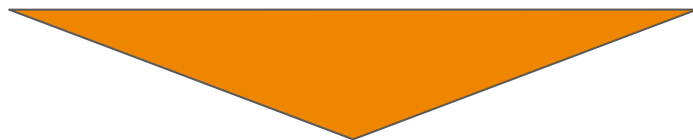


12/14/20 COVID-19 HEALTH DATA UPDATE

Refresher: our Health Data Monitoring Process

- The three categories of metrics will be monitored weekly
- If a foundational health care metric hits threshold, or we detect an early warning from one of our indicators, evaluation and discussion will be triggered.
 - Data is compiled and initially reviewed on Fridays.
 - Evaluation and discussions occur on Monday mornings.
 - Daily monitoring begins when metrics are close to thresholds
- Evaluations address both specific school sites and the entire district.



Four types of potential actions can occur based on our assessment of the data:

1. No changes necessary at this time.
2. Additional monitoring of all data points coupled with increased, targeted rapid COVID testing.
3. Shift from in-person to full distance learning at a specific classroom, school, or multiple schools.
4. Change the default mode of instruction for some or all grade levels through a formal recommendation to the Board of Education.

Refresher: Foundational & Contextual Data

Early Warning Indicators at TPS Schools

- These data will help us to monitor conditions that are more localized and specific to our context. These data will help us to be more sensitive to conditions within schools to know if cases are higher or lower than overall county averages. These metrics are:
 - Tulsa Public Schools rapid testing results
 - New case rates for team members and students (TPS contact tracing)

Foundational School System Metrics

- These internal data measure our ability to appropriately respond to early warning indicators and enact the necessary safety precautions at our schools. These metrics are:
 - Availability of necessary PPE
 - Rates of quarantine
 - Staffing capacity

Foundational Health Care Metrics

- These core metrics will help us understand overall rates of community spread. These data will help us to assess overall risk and changes in our greater community that may necessitate a change in our response. The core metrics are:
 - 7-day rolling average of new cases in Tulsa Public Schools boundary *(calculated from public data)*.
 - 7-day rolling average of new cases in Tulsa County

High level assessment from 12/14 health data review

Foundational Health Care Metrics

- We have had a modest increase in daily cases since Thanksgiving, and the 7-day rolling average is staying elevated.
- New case rates among Tulsa County residents age 5-17 increased significantly after Halloween and through early November. Due to the reporting methodology, recent weeks reporting may be artificially low.

Early Warning Indicators

- Case counts for students/staff percentages have continued to go down last week as expected.
- Larger proportion of positive cases over total case counts continues this week, mainly for staff.
- Rapid testing started on 12/2, we are testing individuals with symptoms and anyone who opts in. Sample surveillance testing will begin once we resume in person instruction.

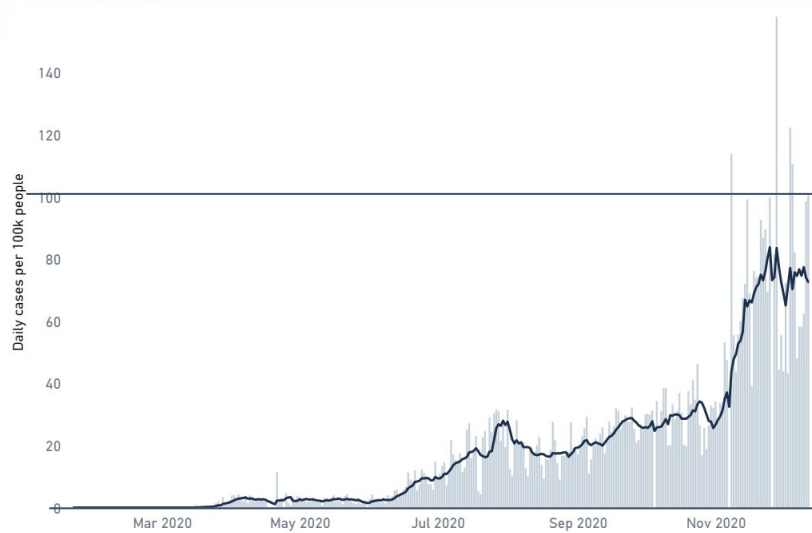
Foundational System Metrics

- No significant changes from last week.
- We continue to have an important number of vacancies across Plant Operations, Transportation and Child Nutrition. Actively recruiting across all three teams and putting in place contingency plans, but not having students in schools has allowed us to maintain current services.
- Health care staff continues to experience vacancies. Working out options to continue to provide coverage.

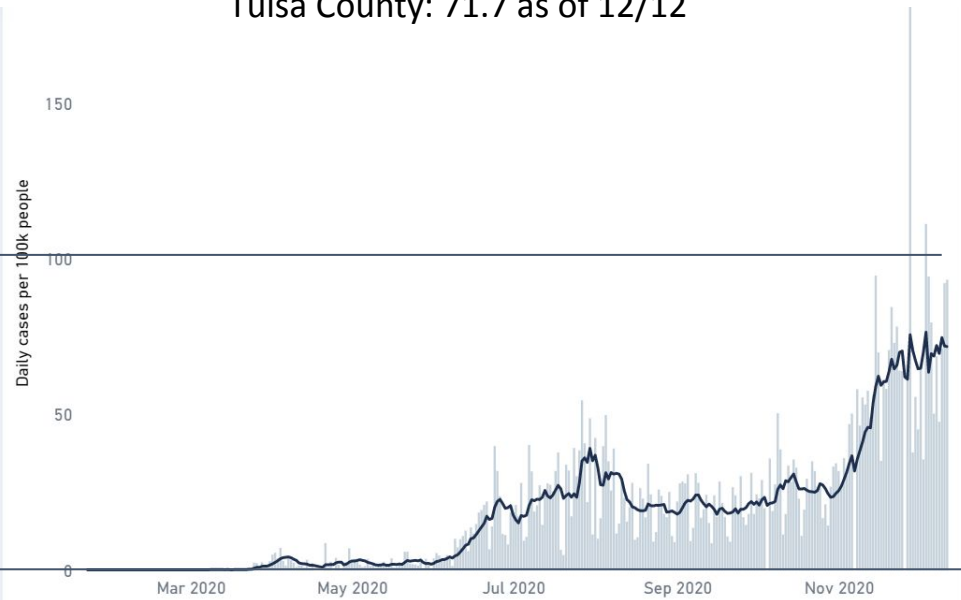
Foundational Health Care Metrics - Daily new case reporting has begun to stabilize, increasing slightly over the last few weeks

Oklahoma: 72.6 as of 12/12

Risk Levels by County



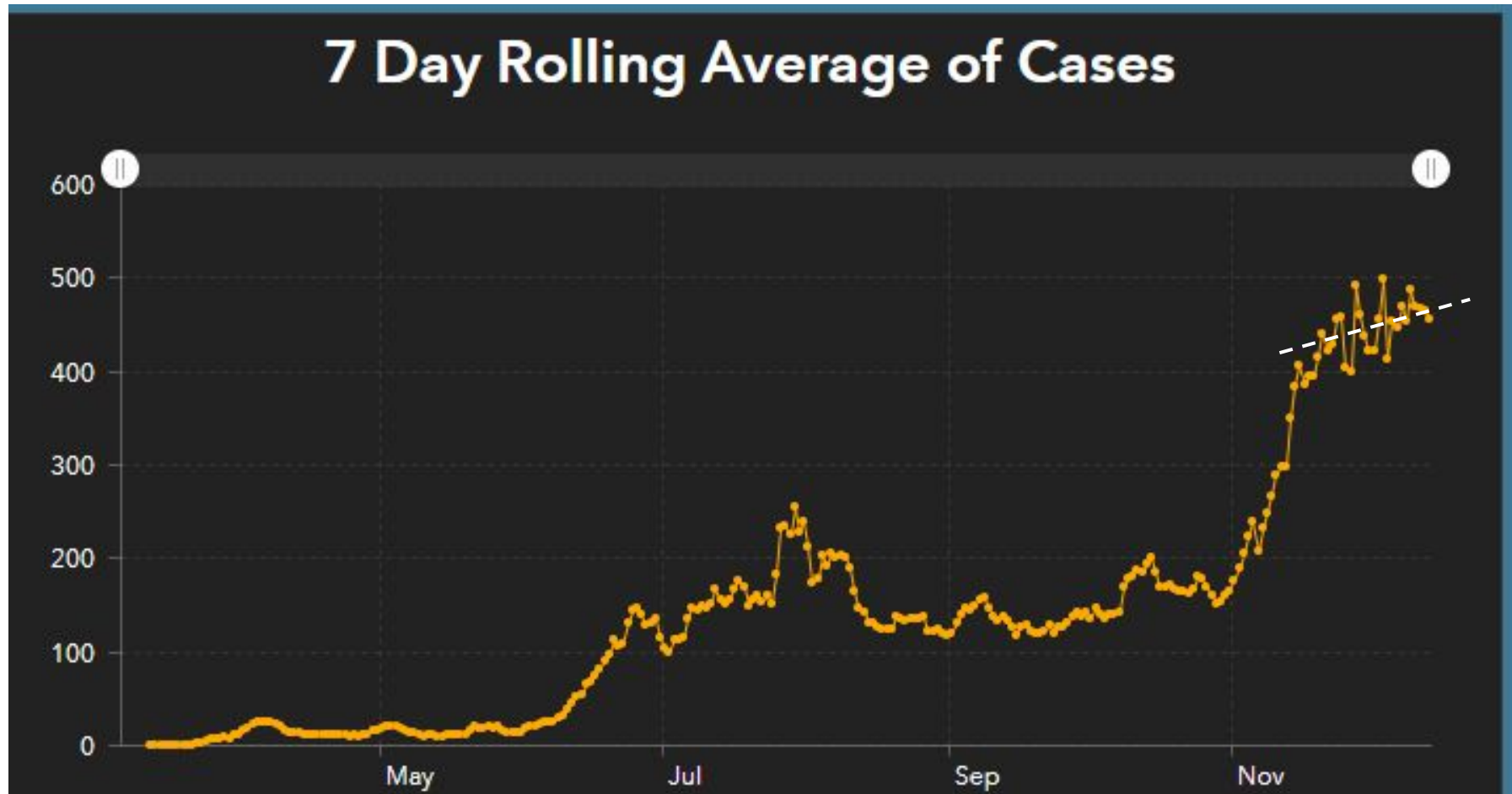
Tulsa County: 71.7 as of 12/12



From 12/7 report:

- Oklahoma: 70.3 as of 12/5
- Tulsa County: 63.5 as of 12/5

Foundational Health Care Metrics - 7 Day Rolling Average

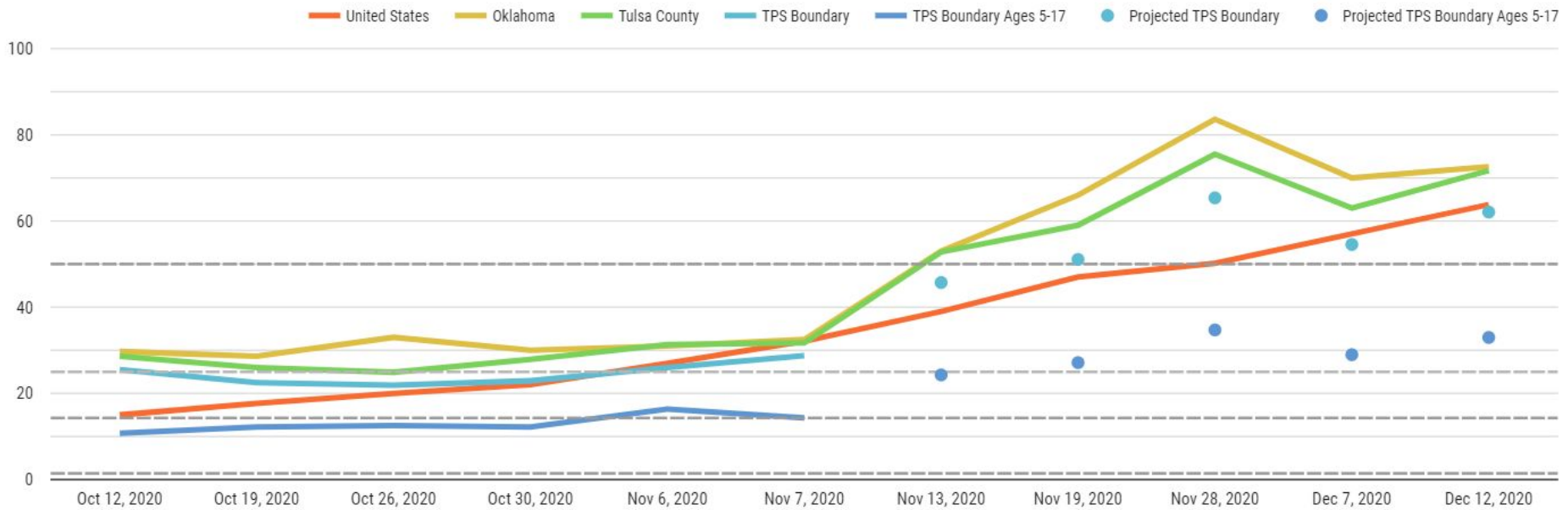


Foundational Health Care Metrics

Dec 12, 2020

- United States: **63.8**
- Oklahoma: **72.6**
- Tulsa County: **71.7**
- Projected TPS Boundary: **62.07**
- Projected TPS Boundary Ages 5-17: **32.98**

7-day Rolling Average New Cases per 100,000



Data sources: globalepidemics.org, Tulsa Health Department

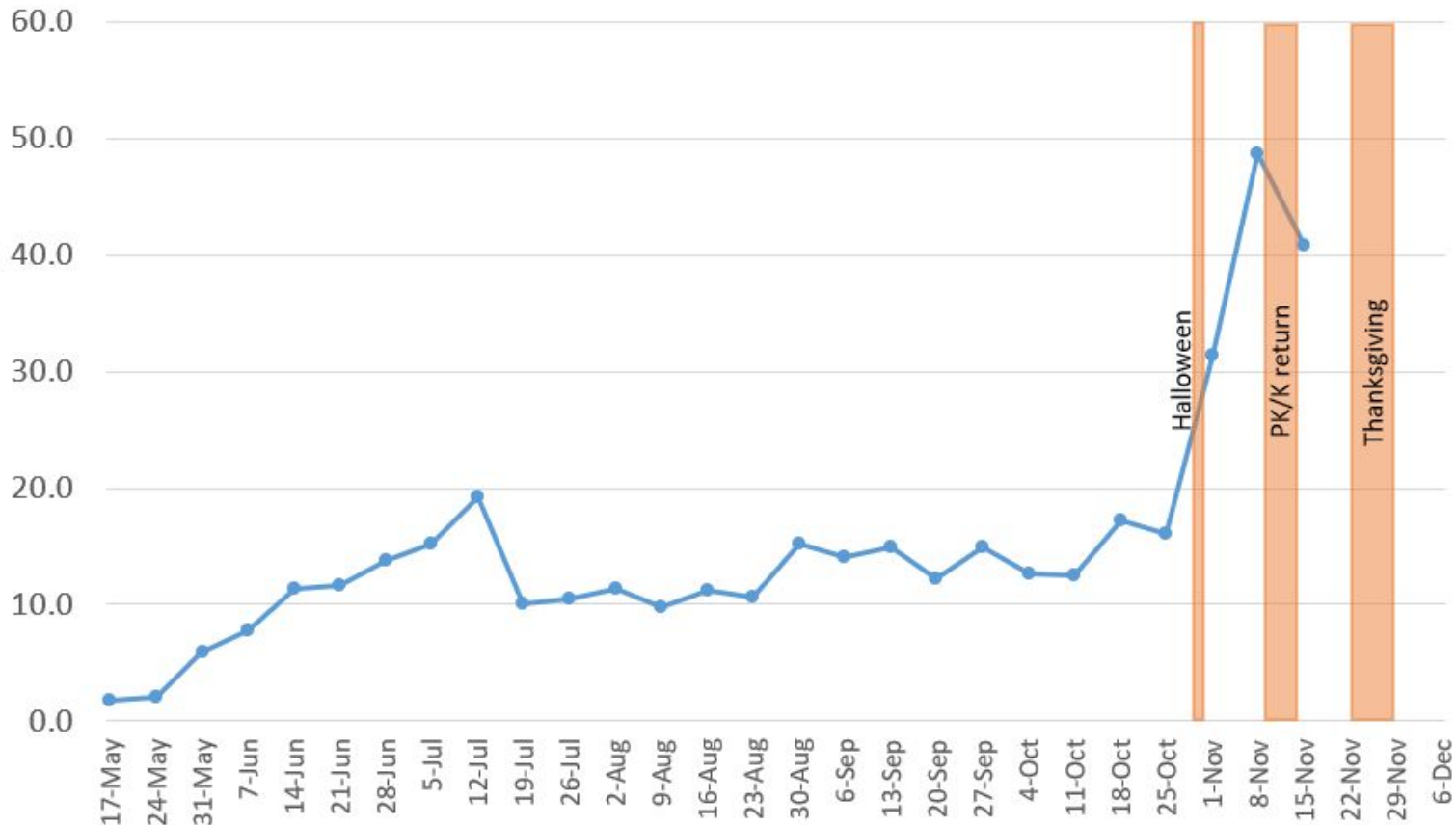
Note: Due to a change in reporting from the Oklahoma Department of Health, TPS boundary data are no longer able to be updated on a regular basis. Weekly projections based on the average percent difference between county and TPS data will be used according to the following historical averages:

- **TPS boundary, all ages:** 14.3% lower than overall county rate
- **TPS boundary, 5-17:** 53.8% lower than overall county rate

WORKING DRAFT

Foundational Health Care Metrics - Tulsa County residents age 5-17

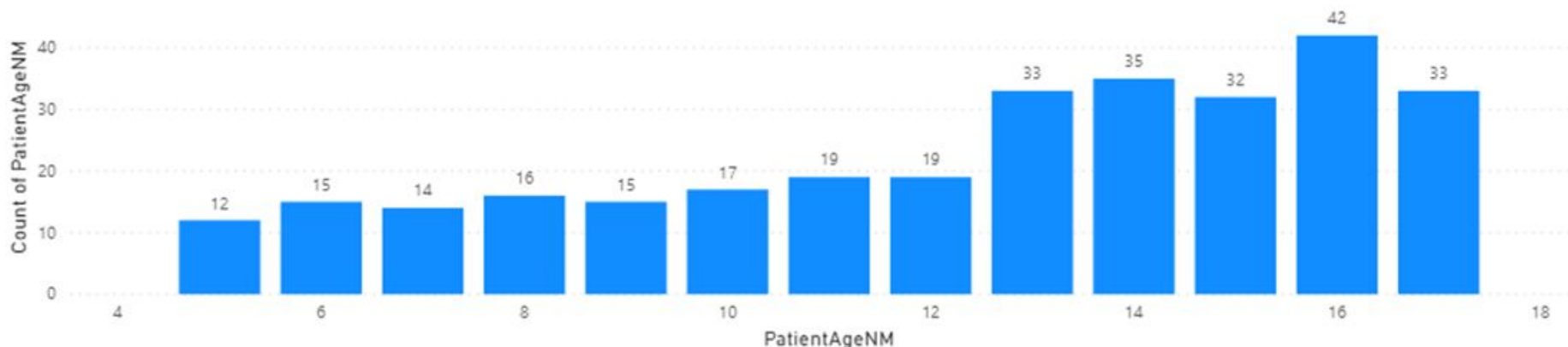
7 day average new case rate per 100k, ages 5-17



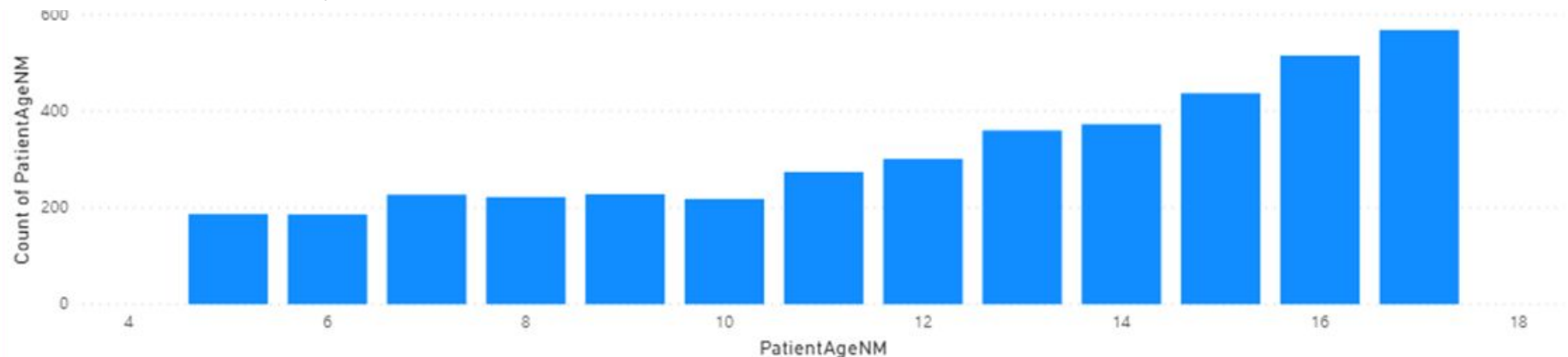
- New case rates among Tulsa County residents age 5-17 increased significantly after Halloween and through early November.
- Due to the reporting methodology, the most recent data available are for the week of Dec 6 - Dec 12.
- Tests are reported by Event Date, or the date of symptom onset or positive test. This means recent weeks' data are artificially low.

New case rates by age continue to reflect overall patterns we've seen in the past, though is a bit more volatile in a shorter time frame.

Week of 11/29-12-5

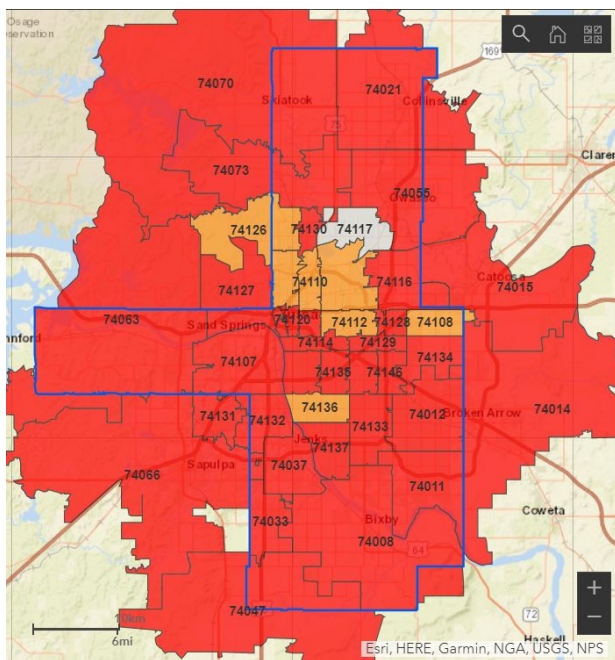


Overall trend since day of Covid-19

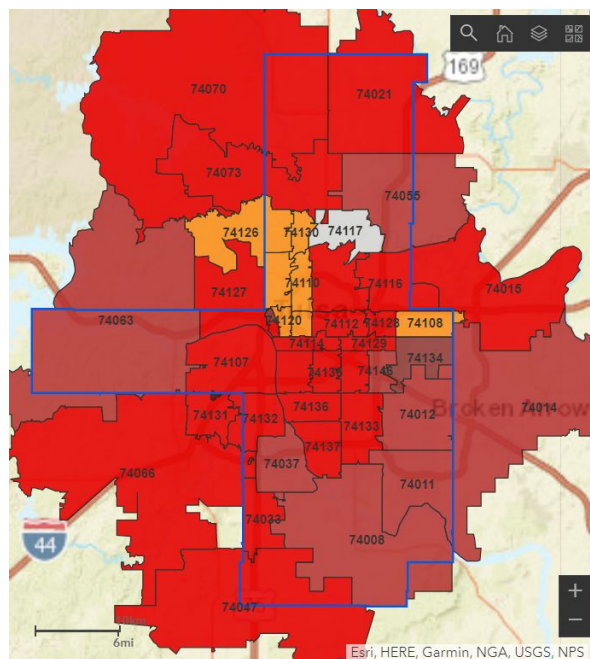


The majority of Tulsa county is now red and dark red

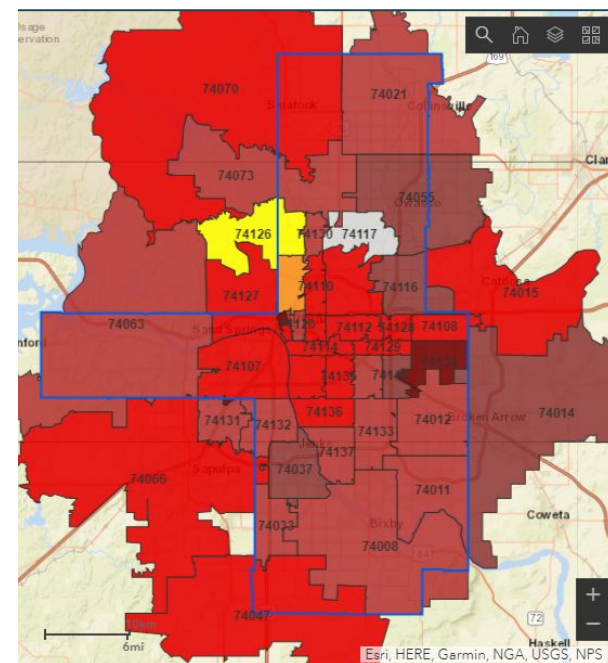
11/20/20



12/7/20



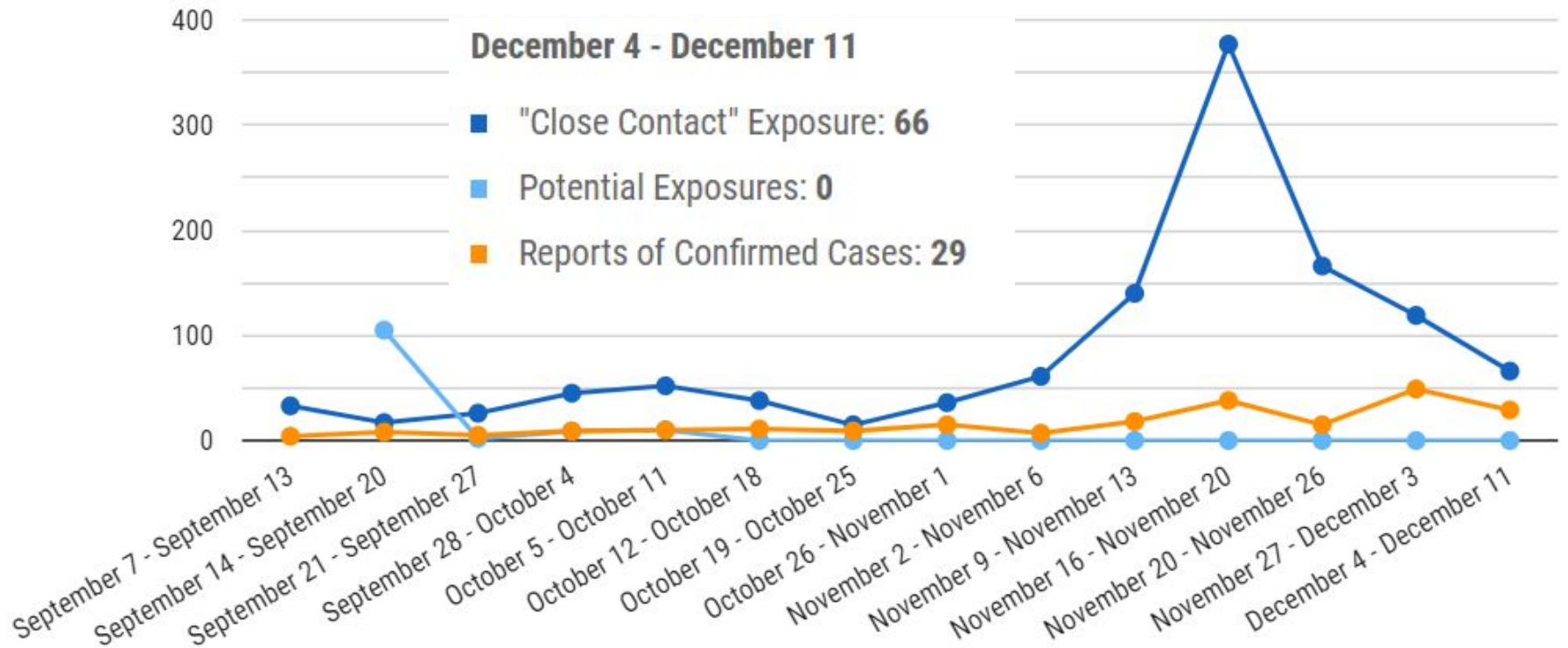
12/13/20



- 75% of students live in red and 13% live in dark red zip codes.
- 46% of staff live in red and 36% live in dark red zip codes.

Early Warning Indicators at TPS Schools - TREND

Number of **potential exposures**, **close contact exposures**, and **confirmed cases** found by Tulsa Public Schools over time



* Report cover cases from the previous Friday through the close of business on Thursday.

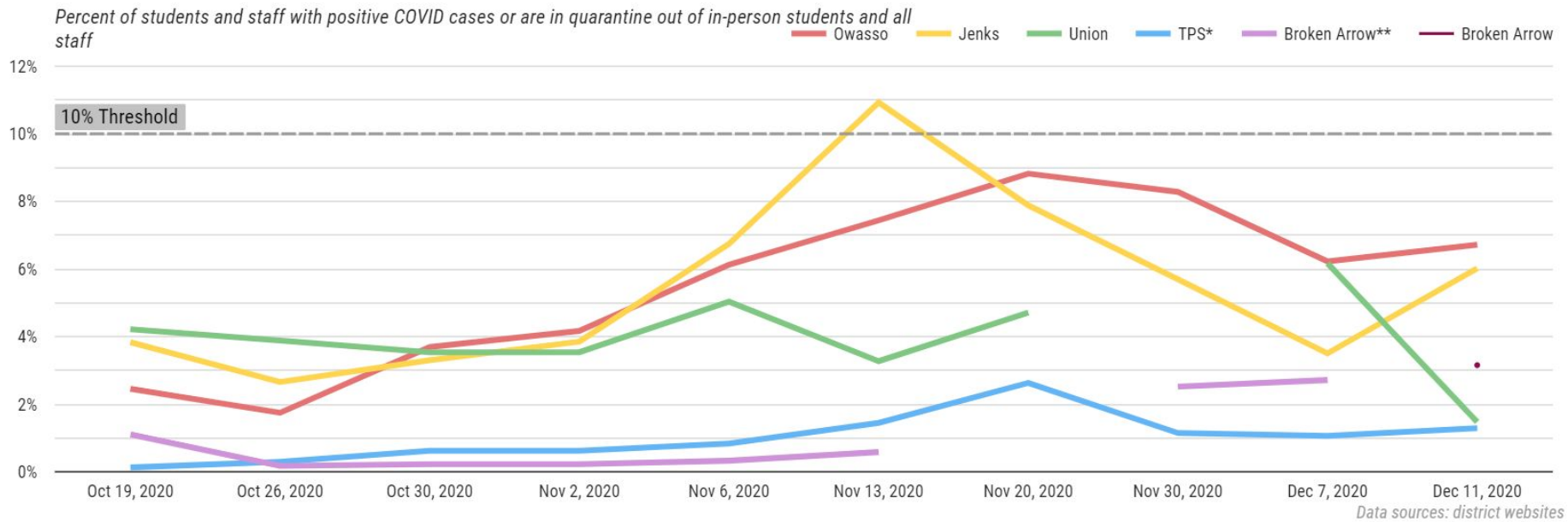
Early Warning Indicators at TPS Schools - TREND

Dec 11, 2020

- Owasso: 6.72%
- Jenks: 6.02%
- Union: 1.47%
- TPS*: 1.29%
- Broken Arrow: 3.15%

Local District Comparisons Over Time

Percent of students and staff with positive COVID cases or are in quarantine out of in-person students and all staff



Data sources: district websites

*TPS in-person students include only 1500 active student athletes; and only includes new cases/exposures from the past week

**Broken Arrow Public Schools began including number of students in quarantine on November 30, 2020

WORKING DRAFT

Covid-19 Rapid Testing Program Update

WORKING DRAFT

TIME PERIOD	PROGRAM FOCUS
Now until the return of in-person mode of instruction	<ul style="list-style-type: none">• Testing individuals who are experiencing symptoms at work or had close contact of someone who is a confirmed COVID-19.• Testing everyone who opts in to monitor exposure in our sites (No Random Sampling Testing).• We are encouraging ALL STAFF who want to know their status to be tested. Not mandatory.
During in person mode of instruction	<ul style="list-style-type: none">• Random Sampling will begin alongside in-person mode of instruction. Samples sizes and frequency will be determined by school, and based on community spread rates in the area served by the school.• IF tests available, will do testing individuals who are experiencing symptoms at work or had close contact of someone who is a confirmed COVID-19.
Current challenges	<ul style="list-style-type: none">• Abbott: company's app functionality is not what THD expected for reporting aggregate test results. We are also working on improving access and input of data capabilities and on improving processes.• Limitations in the application back end capabilities create data sharing issues. Working on HIPPA Compliant solutions to get the information that we need from navica and testing administrators to one point of access for reporting.
Number of Opt-ins:	<ul style="list-style-type: none">• 788 (As of 12/14)
Number of schools that we've tested	<ul style="list-style-type: none">• 110 tests at 24 sites currently reported since 12/7 (we are still awaiting data input from sites).
Number of tests distributed	<ul style="list-style-type: none">• 8,560. Tests Distributed across 71 Sites (8,520-:this includes dual sites) + 40 tests to Nursing Team (Floating Nurses)



DISCUSSION