Our number one goal is the health and safety of our students and their families, and we always consider this goal when making decisions regarding how to provide an exceptional academic learning environment for our students while being sensitive to individual student and family needs.

Data Analysis Summary

In the analysis below we want to help our families understand why we are concerned with current cases.

1. Data used by Maricopa County to publish reports and make decisions for schools comes from previous weeks, which have less cases than we are experiencing today.
2. Those current reports demonstrate substantial spread within the zip codes in which we operate, which are two weeks behind.
3. Current data shows that COVID cases in our zip codes are nearly 2 times higher than reports demonstrate due to lagging data.
4. Reports that will come out in the next two weeks will show what we are experiencing today, which is substantial widespread transmission.

Figure 1: Current ADHS benchmark data for Schools (Maricopa County

In recent weeks, one of the three metrics, *Cases per 100,000 individuals*, has increased into the substantial spread category for Maricopa County (See Figure 1, Benchmark 1). In Maricopa County, *Cases per 100,000 individuals* has been above the benchmark of 100/100,000 for the weeks of October 18th, the week of October 25th, and the week of November 1st. Additionally, *Percent Positivity* has increased each week in October and is now nearing the 10% benchmark.

Updated: November 19, 2020

Select a county to filter the data.

Showing data for **All Counties**

Recommended Delivery Model: **Hybrid**

1) Cases per 100,000 individuals

Nov 01
Oct 25 213/100k
136/100k

100/100k

10/100k

Aug 30   Sep 13   Sep 27   Oct 11   Oct 25

What is this dashboard?

ADHS County-Level School Benchmarks
This dashboard is used to determine the level of community spread of COVID-19 in Arizona and assist with decision making for the types of delivery model schools may consider.

Time Frame
This dashboard does not look at the past two weeks due to potential lags in data.

Substantial Transmission
    >100 cases per 100k, >10% percent positivity, >10% COVID-like illness

Moderate Transmission
    10 - 100 cases per 100k, 5 - 10% percent positivity, 5 - 10% COVID-like illness

Minimal Transmission
<10 cases per 100k, <5% percent positivity, <5% COVID-like illness

Hover over the icon to get more information on the data in this dashboard.
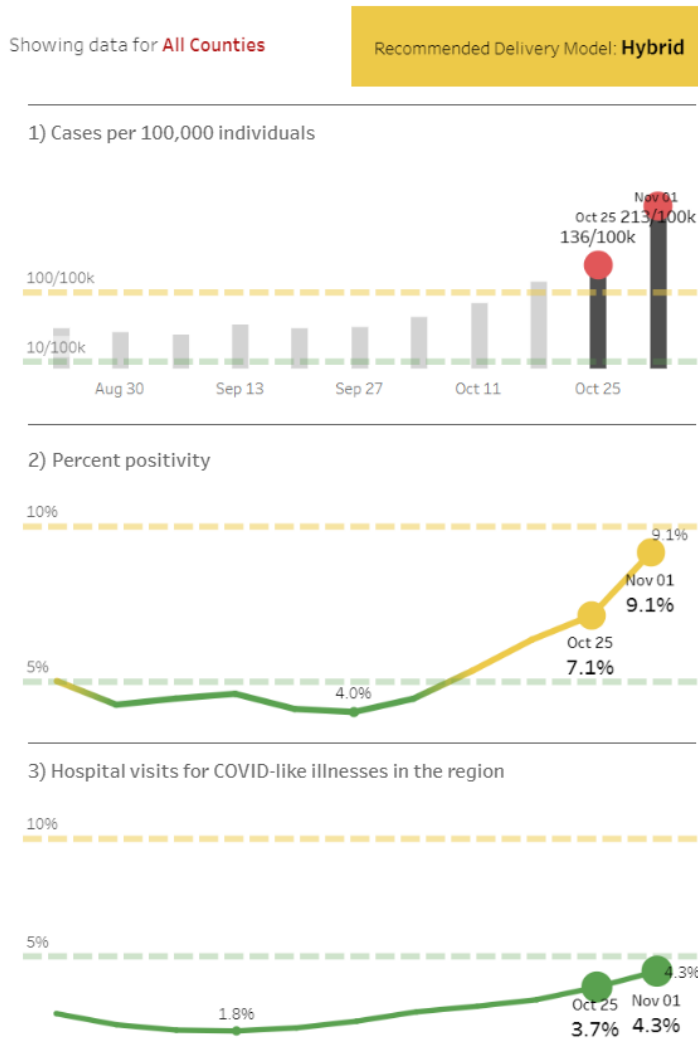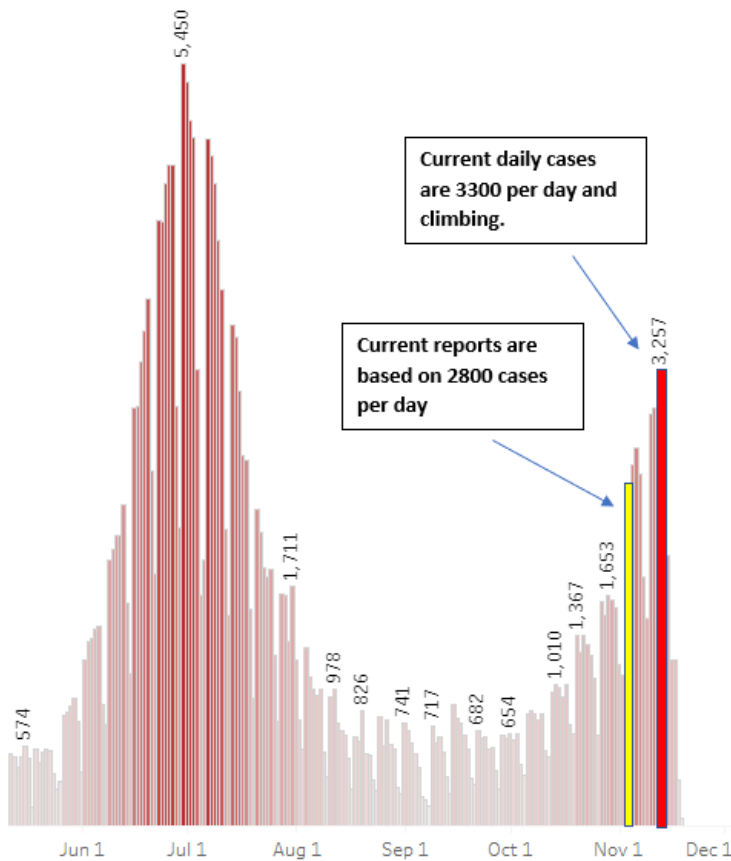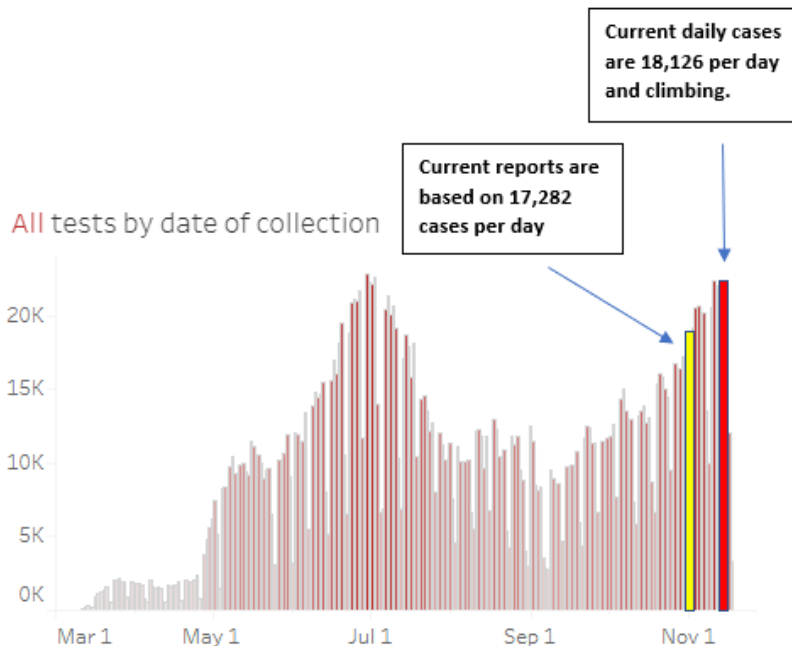
Date Updated: 11/19/2020

2) Percent positivity

10%

9.1%
Nov 01
9.1%
Oct 25
7.1%
4.0%
5%

3) Hospital visits for COVID-like illnesses in the region

10%

5%

1.8%
Oct 25   Nov 01
3.7%   4.3%
4.3%

Figure 2: ADHS positive cases by day

The reason the above data is concerning is that the benchmark metric data released each Thursday by the ADHS includes data that is delayed by two weeks. For example, the most recent benchmark metric data released on November 19, 2020 is updated with data through the week of November 1 ~ November 7. Since November 1st , the Laboratory Testing and Confirmed COVID-19 Cases by Day data suggest that the number of COVID-19 *Cases per 100,000 individuals* and the *Percent Positivity* metrics continue to increase (see Figure 2 and Figure 3 – the yellow line indicates October 31st). This raises concerns that benchmark metric data releasing on Thursday, November 26th (to include data for the week of November 8 ~ November 14) and data releasing on Thursday, December 3rd (to include data for the week of November 15 ~ November 21) will continue to show increases in both of these benchmarks. Because both the Laboratory Testing and Confirmed COVID-19 Cases by Day data is Statewide, it is impossible to predict the results of this data for Maricopa county specifically, but it appears to be safe to assume that both benchmark metrics will increase when data is released each Thursday for the next two weeks.

Figure 3: ADHS total number of tests by date of collection

Maricopa County also releases COVID-19 data by zip code to help schools make decisions based on more localized data. The zip code data for both our North Chandler and South Phoenix campuses are presented in Figures 4 and 5, respectively, below. All zip codes adjacent to both School campuses show *Cases per 100,000 individuals* above the 100/100,000 benchmark and over 50% of those zip codes show Cases per 100,000 individuals above 200/100,000, double the benchmark. Additionally, *Percent Positivity* at both School campuses is increasing over the most recently released 2-week period and nearing the 10 percent benchmark. As mentioned above, because this data is delayed by two weeks, we anticipate it is possible for both *Cases per 100,000 individuals* and *Percent Positivity* benchmarks to surpass their respective benchmarks in zip codes adjacent to both campuses when updated data is released on November 26th and December 3rd . Based on the Safely Returning to In-Person Instruction guidance provided by the ADHS, when multiple benchmarks move to a greater-risk category, schools should consider transitioning their learning environment to the appropriate risk model (see page 6 of the Safely Returning document).
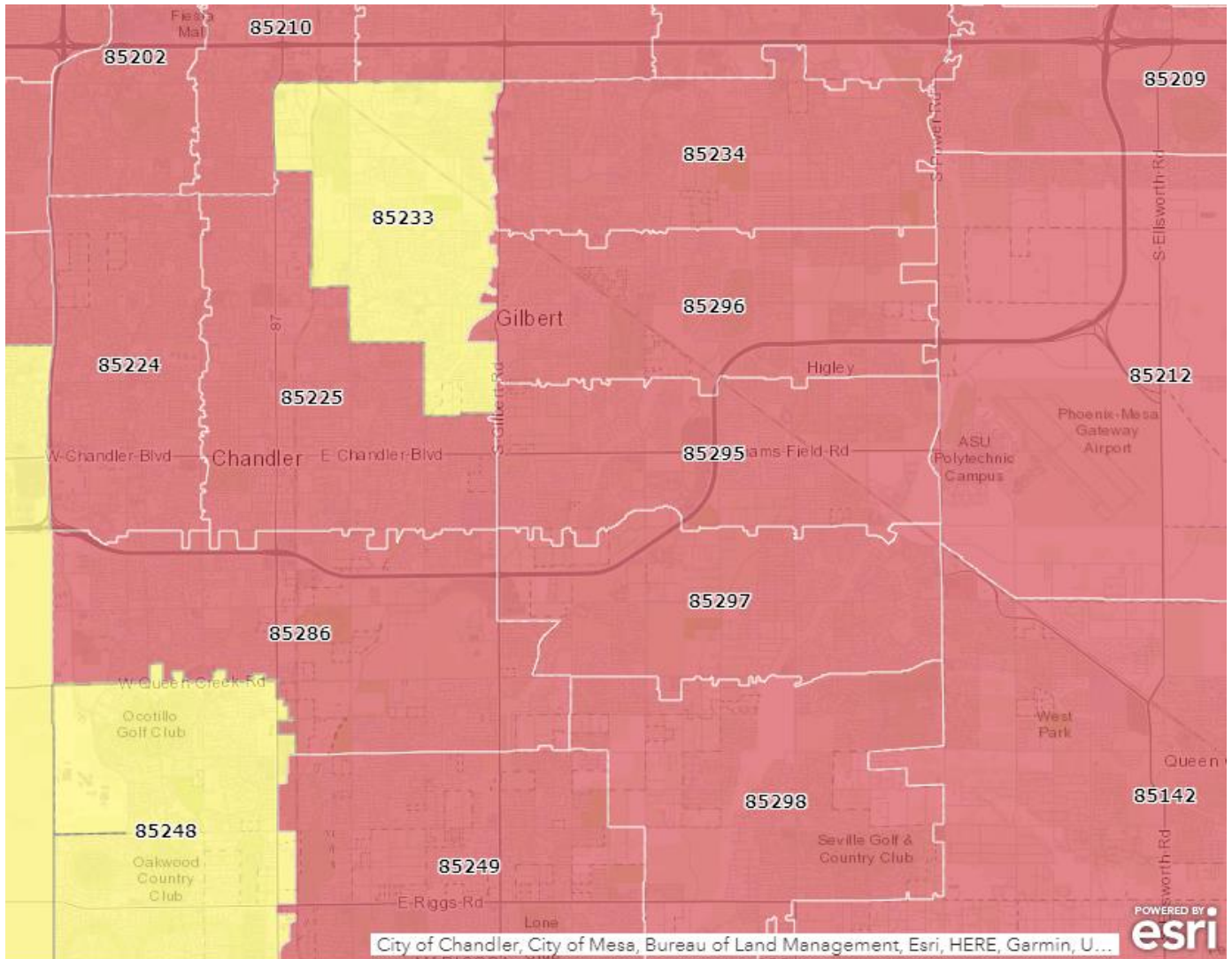
We also know we are entering the season when families and friends traditionally spend time together celebrating various holidays over the next few weeks and months. This anticipated increased interaction coupled with the substantial spread of COVID-19 in our communities, has led us to make the decision to return to online learning for all students beginning Monday, November 23, 2020 with students tentatively scheduled to return to in-person learning for those students electing this learning option on January 5, 2021. We will, however, continue to provide on-site services to students who need in-person support throughout this time including a safe space to participate in online learning, transportation services where necessary, and the free school breakfast and lunch programs.

This analysis is comprised of the most recent data released through the Arizona Department of Health Services (ADHS) COVID-19 Dashboard and the Maricopa County dashboard for schools.
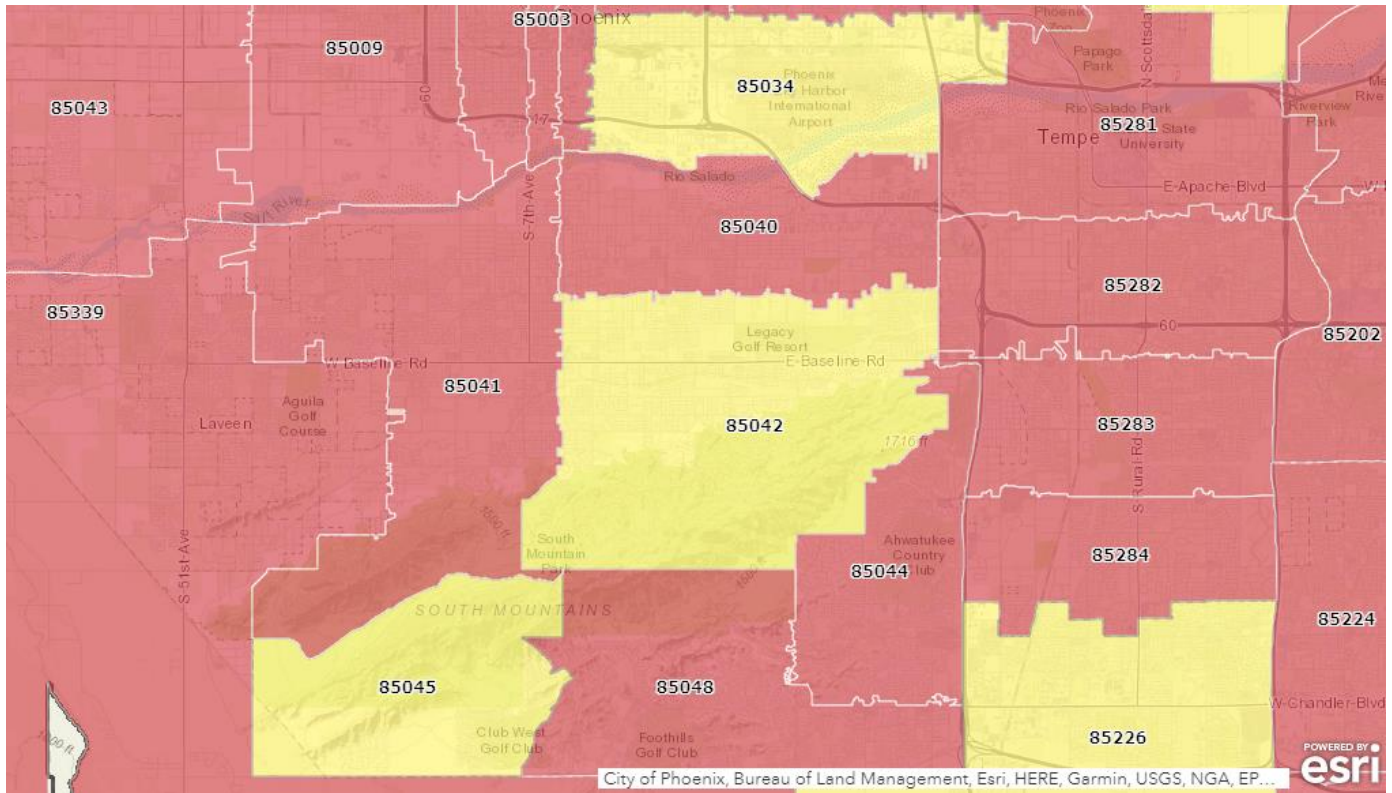
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Figure 4: Current Maricopa County School Metrics by Zip Code (Chandler)

Zip Code	Student Count	Current Risk Level	Recommended Learning Scenario	Week of Nov 1~Nov 7			Week of Oct 25~Oct 31		
				Cases per 100k	Percent Positivity	Covid-Like Illness	Cases per 100k	Percent Positivity	Covid-Like Illness
85225		Substantial	Prepare for Virtual w/ onsite support	264.21	12.47%	5.03%	155.42	9.84%	4.00%
85224		Substantial	Prepare for Virtual w/ onsite support	221.16	8.10%	5.03%	149.61	8.25%	4.00%
85286		Substantial	Prepare for Virtual w/ onsite support	150.56	6.18%	5.03%	121.29	6.49%	4.00%
85297		Substantial	Prepare for Virtual w/ onsite support	315.16	10.25%	5.03%	174.17	8.47%	4.00%
85295		Substantial	Prepare for Virtual w/ onsite support	288.72	8.07%	5.03%	163.28	7.37%	4.00%
85296		Substantial	Prepare for Virtual w/ onsite support	311.99	10.47%	5.03%	159.27	7.93%	4.00%
85233		Moderate	Hybrid w/ onsite support	184.94	6.63%	5.03%	98.64	4.86%	4.00%
85210		Substantial	Prepare for Virtual w/ onsite support	221.21	10.91%	5.03%	172.05	9.80%	4.00%

- 7 of 7 surrounding zip codes have increased Cases per 100k between the two weeks
- 7 of 7 surrounding zip codes have Cases per 100k greater than 100
- 5 of 7 surrounding zip codes have Cases per 100k greater than 200, or more than 2 times the benchmark
- 5 of 7 surrounding zip codes have increased Percent Positivity between the two weeks
- 3 of 7 surrounding zip codes have Percent Positivity greater than 10%
- Positive Cases by day continue to increase since November 7 (see Figure 2), so we expect both Cases per 100k and Percent Positivity to increase for the weeks of November 8 ~ November 14 and November 15 ~ November 21

Figure 5: Current Maricopa County School Metrics by Zip Code (Phoenix)

Zip Code	Student Count	Current Risk Level	Recommended Learning Scenario	Week of Nov 1~Nov 7			Week of Oct 25~Oct 31		
				Cases per 100k	Percent Positivity	Covid-Like Illness	Cases per 100k	Percent Positivity	Covid-Like Illness
85042		Moderate	Hybrid w/ onsite support	183.67	11.88%	5.03%	95.23	7.40%	4.00%
85040		Substantial	Prepare for Virtual w/ onsite support	187.26	13.69%	5.03%	99.67	11.07%	4.00%
85041		Substantial	Prepare for Virtual w/ onsite support	224.37	12.48%	5.03%	106.7	11.28%	4.00%
85045		Moderate	Hybrid w/ onsite support	208.33	6.83%	5.03%	61.27	3.39%	4.00%
85048		Substantial	Prepare for Virtual w/ onsite support	136.58	5.60%	5.03%	111.5	6.18%	4.00%
85044		Substantial	Prepare for Virtual w/ onsite support	187.62	6.91%	5.03%	101.03	4.58%	4.00%
85282		Substantial	Prepare for Virtual w/ onsite support	170.61	6.41%	5.03%	119.79	6.54%	4.00%

- 6 of 6 surrounding zip codes have increased Cases per 100k between the two weeks
- 6 of 6 surrounding zip codes have Cases per 100k greater than 100
- 4 of 6 surrounding zip codes have increased Percent Positivity between the two weeks
- 2 of 6 surrounding zip codes have Percent Positivity greater than 10%
- Positive Cases by day continue to increase since November 7 (see Figure 2), so we expect both Cases per 100k and Percent Positivity to increase for the weeks of November 8 ~ November 14 and November 15 ~ November 21