Metrics Reopening Advisory Team

Metrics Dashboard Report: 9/18/2020

|		Substantial		Moderate				Minimal	
Governor's Restore Illinois Plan		Phase 3		Phase 4				Phase 5	
Resurgence Test Positivity Data 7 Day Rolling	Region 10	9.0	8.0	7.0	6.0	(5.5)	4.0	3.0	2.0
	Region 9	9.0	8.0	7.0	6.0 (6.2)	5.0	4.0	3.0	2.0
	Region 11	9.0	8.0	7.0	6.0	5.0 (5.1)	4.0	3.0	2.0
Suburban Cook County	New Cases Per 100k	>100 (110)		<=100	to		>50	<=50	
	Test Positivity	9.0	8.0	7.0	6.0 (6.1)	5.0	4.0	3.0	2.0
New Cases Per 100,000 7-day Rolling Average	Wilmette	>100		<=100	to		>50	(50.6) <=50	
	NT Township	>100		<=100	to	(69.7) >50		<=50	
	Regional Zip*	>100		<=100	to	(64.5)		<=50	
Positivity Rates 7-day Rolling Average	Wilmette	9.0	8.0	7.0	6.0	5.0	4.0	(3.0)	2.0
	NT Township	9.0	8.0	7.0	6.0	5.0	4.0	(3.8)	2.0
	Regional Zip*	9.0	8.0	7.0	6.0	5.0	4.0	(3.3)	2.0
COVID Positive Cases per School	Students	3		2		1		0	(0)
	Staff	3		2		1		0	(0)
Operational Metrics	Social Distancing	>24 (28)		<=24	to		>6	<=6	
	Mask Wearing	>24		<=24	to	(12)	>6	<=6	
	Washroom Break Mgmt	>24		<=24	to		>6	<=6	
	Lunch Safety Mgmt	>24		<=24	to		>6	<=6	
	Self-Cert Compliance	>96		<=96	to		>30	(30) <=30	
Supplies & Facilities Needs	PPE Availability	>24		<=24	to		>6	(4)	
	Facility Adaptations	>24		<=24	to	(14)	>6	<=6	
Staffing Levels Number of Daily Sick Day Absences Per Week	Certificated Absences	>60		<=60	to		>30	(20)	
	Custodial Absences	>30		<=30	to		>12	(9)	
	Support Staff Absences	>60		<=60	to		>30	(21.5)	
	Availability of Subs	>12		<=12	to	(11)	>6	<=6	
	Working Quarantine	>12		<=12	to		>6	(4)	
	Non-Working Quarantine	>6		<=6	to	(4)	>3	<=3	
Student Absence Rates		>7%		<=6%	to		>4%	<= (1.1)	

* Regional Zip was adjusted for the 9/18/20 report to reflect 93% of Wilmette D39 staff, rather than the previous metric reflecting 90% of New Trier High School Staff. (See page 8.)

Sources Regarding Metrics

- Governor's Restore Illinois Plan: Metrics
  https://www.dph.illinois.gov/regionmetrics?regionID=10
- Cook County Level COVID-19 Risk Metrics: Metrics
  https://www.dph.illinois.gov/countymetrics?county=Cook
- Local and Regional COVID-19 Data: Metrics
  https://www.dph.illinois.gov/covid19/covid19-statistics
- Illinois Regional COVID-19 Resurgence Data (aka: Shiny App)
  https://www.dph.illinois.gov/regionmetrics?regionID=10
- County Level COVID-19 Risk Metrics
  https://www.dph.illinois.gov/countymetrics?county=Cook
- Illinois Department of Public Health COVID-19 Statistics
  https://www.dph.illinois.gov/covid19/covid19-statistics
- Illinois Department of Public Health Adaptive Pause
  https://www.isbe.net/Documents/IDPH-Adaptive-Pause-Metrics.pdf
- Lake County Department of Public Health
  https://www.lakecountyil.gov/DocumentCenter/View/36182/Northern-Illinois-Return-To-School-Metrics---NIPHC
- DuPage County Department of Public Health
  https://www.dupagehealth.org/DocumentCenter/View/3541/COVID-19-Return-to-School-Framework-8-28?bidId=
- Harvard Risk Level Model
  https://globalepidemics.org/wp-content/uploads/2020/07/pandemic_resilient_schools_briefing_72020.pdf
- District 39 Metric Thresholds for Operational, Supply/Facility Adaptation Metrics, and Staffing Levels are based on D39 evaluation of and forecasting for capacity to address the challenge.
- Illinois State Board of Education – School Report Cards
  https://www.illinoisreportcard.com/District.aspx?source=studentcharacteristics&source2=attendance&Districtid=05016039002

Metrics Under Review

1. **Governor's Restore Illinois Plan: Metrics**
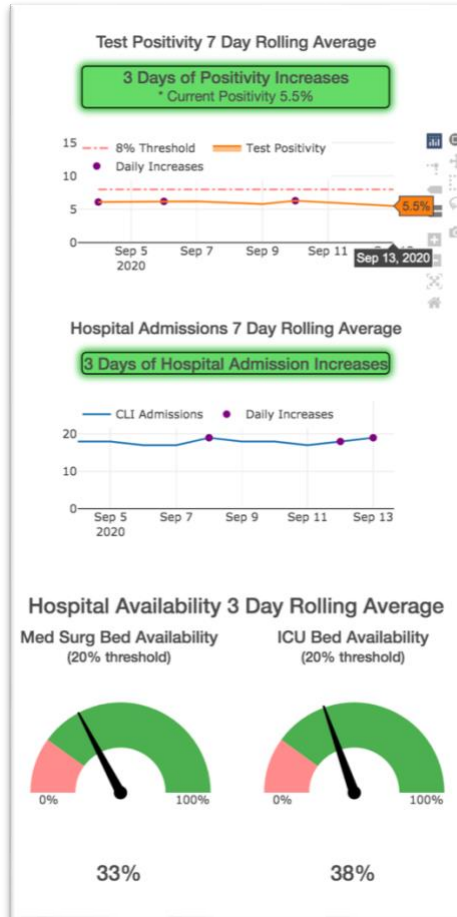   1. Region 10 Illinois Region COVID-19 Resurgence Data
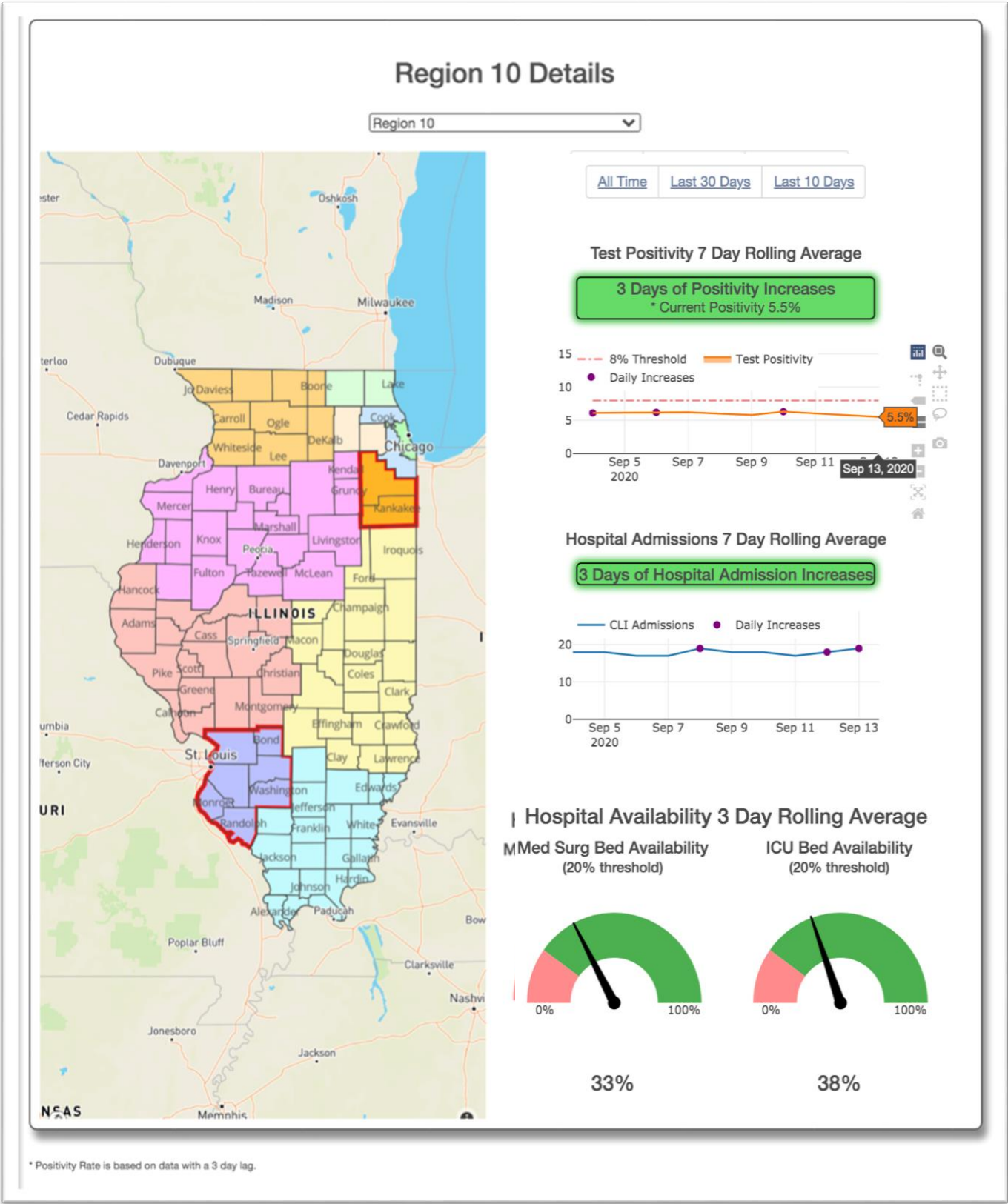
2. Region 9, 10 and 11 Illinois Region COVID-19 Resurgence Data

Region 9	Region 10	Region 11

Region 9

Test Positivity 7 Day Rolling Average

6 Days of Positivity Increases
*Current Positivity 6.2%

15 ---- 8% Threshold — Test Positivity
Daily Increases
10
5
6.2%
0
Sep 5 Sep 7 Sep 9 Sep 11 Sep 13, 2020
2020

Hospital Admissions 7 Day Rolling Average

0 Days of Hospital Admission Increases

15
10
5
0
Sep 5 Sep 7 Sep 9 Sep 11 Sep 13
2020

Hospital Availability 3 Day Rolling Average

Med Surg Bed Availability   ICU Bed Availability
(20% threshold)   (20% threshold)

0%   100%   0%   100%

45%   60%

Region 10

Test Positivity 7 Day Rolling Average

3 Days of Positivity Increases
*Current Positivity 5.5%

15 ---- 8% Threshold — Test Positivity
Daily Increases
10
5
5.5%
0
Sep 5 Sep 7 Sep 9 Sep 11 Sep 13, 2020
2020

Hospital Admissions 7 Day Rolling Average

3 Days of Hospital Admission Increases

— CLI Admissions   • Daily Increases
20
10
0
Sep 5 Sep 7 Sep 9 Sep 11 Sep 13
2020

Hospital Availability 3 Day Rolling Average

Med Surg Bed Availability   ICU Bed Availability
(20% threshold)   (20% threshold)

0%   100%   0%   100%

33%   38%

Region 11

Test Positivity 7 Day Rolling Average

2 Days of Positivity Increases
*Current Positivity 5.1%

15 ---- 8% Threshold — Test Positivity
Daily Increases
10
5
5.1%
0
Sep 5 Sep 7 Sep 9 Sep 11 Sep 13, 2020
2020

Hospital Admissions 7 Day Rolling Average

4 Days of Hospital Admission Increases

— CLI Admissions   • Daily Increases
20
10
0
Sep 5 Sep 7 Sep 9 Sep 11 Sep 13
2020

Hospital Availability 3 Day Rolling Average

Med Surg Bed Availability   ICU Bed Availability
(20% threshold)   (20% threshold)

0%   100%   0%   100%

27%   36%

2. **Cook County Level COVID-19 Risk Metrics**: **Metrics**
   1. "Cook" County = Suburban Cook
   2. Description of these Metrics

Week 36: 8/30/2020 Through 9/5/2020

Click Here for Historical Details

New Cases Per 100,000	Number of Deaths
Case rate reported Sun-Sat (Target: less than 50 per 100,000)	Death number reported Sun-Sat (Target: decreasing or stable Sun-Sat)
110 per 100k	**21**
⚠ Warning	☑ Target

Test Positivity (%)	Tests Performed
(%) positive tests reported Sun-Sat (Target: less than or equal to 8%)	Number of tests reported Sun-Sat Target: Testing is Sufficient when test positivity is less than or equal to 8%
6.1%	**58,587**
☑ Target	☑ Target

CLI ED Visits (%), Adults	Number of CLI Admissions
Emergency Department visits for COVID-19-like illness (Target: decreasing or stable Sun-Sat)	Hospital admissions for COVID-19-like illness (Target: decreasing or stable Sun-Sat)
2.4%	**135**
☑ Target	☑ Target

Cluster (%) of cases	ICU (%) Available
No Target This metric helps explain large increase in cases	ICU bed availability (Target: at least 20% of ICU beds available)
0.4%	**36.1%**
	☑ Target

Metric Guidance for Local Health Departments to Prompt Discussion with School Officials

	Minimal Community Transmission	Moderate Community Transmission	Substantial Community Transmission
County-Level Metric	Alert for one metric but remained BLUE at any point in the last 4 weeks	Transitioned to ORANGE once in last 4 weeks	Remained in ORANGE for >2 consecutive weeks
	Weekly county case rates <= 50 per 100,000	Weekly county case rates >50 to <= 100 per 100,000	Weekly county case rates above > 100 per 100,000
	Weekly county overall case numbers increase for two consecutive weeks with a >5% to <=10 increase occurring each week	Weekly county overall case numbers increase for two consecutive weeks with a >10 or <=20% increase occurring each week	Weekly county overall case numbers increase for two consecutive weeks with a > 20% increase occurring each week
	Weekly county youth case numbers increase for two consecutive weeks with a >5% to <=10 increase occurring each week	Weekly county youth case numbers increase for two consecutive weeks with a >10 or <=20% increase occurring each week	Weekly county youth case numbers increase for two consecutive weeks with a >20% increase occurring each week
	Weekly test positivity <=5%	Weekly test positivity >5% but <=8%	Weekly test positivity >8%
	Neighboring county in orange once in the last 4 weeks*		
Regional Resurgence Metric**			Region moved to Tier 1 mitigation

Note: Newly proposed metric.

Youth Case Increase
Cases Reported reported Sun-Sat (Target: decreasing or stable)
566 Youth Cases
☑ Minimal

Weekly Count of New Youth Cases increase

The total count of new cases that are Under 20 years old, reported during the 7 days is measured for the change from week to week for two consecutive weeks

3. **Local COVID-19 Data:** Tracked by New Trier Township from the Illinois Department of Public Health Metrics (Additional Metric Tracker Under Development at Northwestern University)
   1. Rolling Average Number of Cases per 100,000 – 7-day Rolling Average

   1. Wilmette (60091)

Data for 9/15/2020 (7-Day)

Rolling Average Number Tested per Day	66.0
Rolling Average Number of Positive COVID Tests per Day	2.0
Rolling Average COVID Positivity Rate	3.03 %
Weekly New Case Rate per 100,000 population	50.6

Data for 9/15/2020 (14-Day)

Rolling Average COVID Positivity Rate	3.63 %
Weekly New Case Rate per 100,000 population	57.8

Over the Last Week:

	9/8/2020	9/9/2020	9/10/2020	9/11/2020	9/12/2020	9/13/2020	9/14/2020
Tests per Day*	59.9	64.1	67.0	50.1	54.7	59.7	67.4
Cases per Day*	2.6	3.7	3.1	2.9	2.4	2.3	2.1
Positivity Rate*	4.30 %	5.79 %	4.69 %	5.70 %	4.44 %	3.83 %	3.18 %
Weekly New Case Rate per 100,000 population	65.0	93.9	79.5	72.2	61.4	57.8	54.2

* Calculated as 7-day rolling averages

Weekly New Case Rate per 100,000 population
(Hover over the line to see the rate for a specific day)

These data are calculated/estimated from publicly available data from IDPH. We do not have direct access to the raw data. These data are provided by the Surgical Outcomes and Quality Improvement Center (SOQIC) at Northwestern Medicine in partnership with our data analytics collaborator, Jeffrey Softcheck MBA, for informational purposes only. Data are updated daily from the IDPH COVID-19 statistics page (https://www.dph.illinois.gov/covid19/covid19-statistics). Data represent total number of tests performed and reported electronically at IDPH, commercial, or hospital laboratories. Data on this website are what has been entered into Illinois' National Electronic Disease Surveillance System (I-NEDSS). IDPH builds in a three-day lag into the data in order to add some cases that are not captured through I-NEDSS (~3% to 5% of the total data) when they publish data at the county-level or region-level on their own website. The data are constantly being entered and may change as cases are investigated. Zip code is the zip code of residence, which may not be the location of the exposure. Please send questions or suggestions for improvement to soqic@northwestern.edu.

2. New Trier Township Zip Codes (60022, 60043, 60091, 60093)

Data for 9/15/2020 (7-Day)

Rolling Average Number Tested per Day	152.9
Rolling Average Number of Positive COVID Tests per Day	5.9
Rolling Average COVID Positivity Rate	3.83 %
Weekly New Case Rate per 100,000 population	69.7

Data for 9/15/2020 (14-Day)

Rolling Average COVID Positivity Rate	3.86 %
Weekly New Case Rate per 100,000 population	68.0

Over the Last Week:

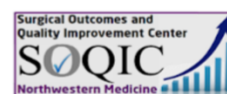|	9/8/2020	9/9/2020	9/10/2020	9/11/2020	9/12/2020	9/13/2020	9/14/2020
Tests per Day*	143.0	150.0	151.9	113.1	132.9	139.6	157.0
Cases per Day*	5.6	7.0	7.4	6.3	6.6	6.4	6.3
Positivity Rate*	3.90 %	4.67 %	4.89 %	5.56 %	4.95 %	4.61 %	4.00 %
Weekly New Case Rate per 100,000 population	66.3	83.3	88.4	74.8	78.2	76.5	74.8

* Calculated as 7-day rolling averages

Weekly New Case Rate per 100,000 population
(Hover over the line to see the rate for a specific day)

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3. **D39 Regional Zip Codes** (Zip Codes for 93% of D39 Staff, including: 60004, 60005, 60015, 60016, 60018, 60025, 60026, 60030, 60031, 60035, 60040, 60044, 60045, 60047, 60048, 60053, 60056, 60060, 60061, 60062, 60067, 60068, 60069, 60070, 60073, 60074, 60076, 60077, 60085, 60089, 60090, 60091, 60093, 60201, 60202, 60610, 60611, 60613, 60614, 60618, 60622, 60625, 60626, 60630, 60631, 60634, 60640, 60641, 60642, 60645, 60646, 60647, 60654, 60656, 60657, 60659, 60660, 60712, 60714)

Note: Adjusted zip codes now reflect 93% of D39 staff.

Data for 9/15/2020 (7-Day)

Rolling Average Number Tested per Day	6454.0
Rolling Average Number of Positive COVID Tests per Day	214.3
Rolling Average COVID Positivity Rate	3.32 %
Weekly New Case Rate per 100,000 population	64.5

Data for 9/15/2020 (14-Day)

Rolling Average COVID Positivity Rate	3.34 %
Weekly New Case Rate per 100,000 population	72.9

Over the Last Week:

	9/8/2020	9/9/2020	9/10/2020	9/11/2020	9/12/2020	9/13/2020	9/14/2020
Tests per Day*	8049.0	8091.9	8033.1	5454.0	6250.3	6228.7	6575.9
Cases per Day*	270.0	256.4	264.0	195.1	215.7	219.0	216.9
Positivity Rate*	3.35 %	3.17 %	3.29 %	3.58 %	3.45 %	3.52 %	3.30 %
Weekly New Case Rate per 100,000 population	81.3	77.2	79.5	58.7	64.9	65.9	65.3

* Calculated as 7-day rolling averages

Weekly New Case Rate per 100,000 population
(Hover over the line to see the rate for a specific day)

These data are calculated/estimated from publicly available data from IDPH. We do not have direct access to the raw data. These data are provided by the Surgical Outcomes and Quality Improvement Center (SOQIC) at Northwestern Medicine in partnership with our data analytics collaborator, Jeffrey Softcheck MBA, for informational purposes only. Data are updated daily from the IDPH COVID-19 statistics page (https://www.dph.illinois.gov/covid19/covid19-statistics). Data represent total number of tests performed and reported electronically at IDPH, commercial, or hospital laboratories. Data on this website are what has been entered into Illinois' National Electronic Disease Surveillance System (I-NEDSS). IDPH builds in a three-day lag into the data in order to add some cases that are not captured through I-NEDSS (~3% to 5% of the total data) when they publish data at the county-level or region-level on their own website. The data are constantly being entered and may change as cases are investigated. Zip code is the zip code of residence, which may not be the location of the exposure. Please send questions or suggestions for improvement to soqic@northwestern.edu.
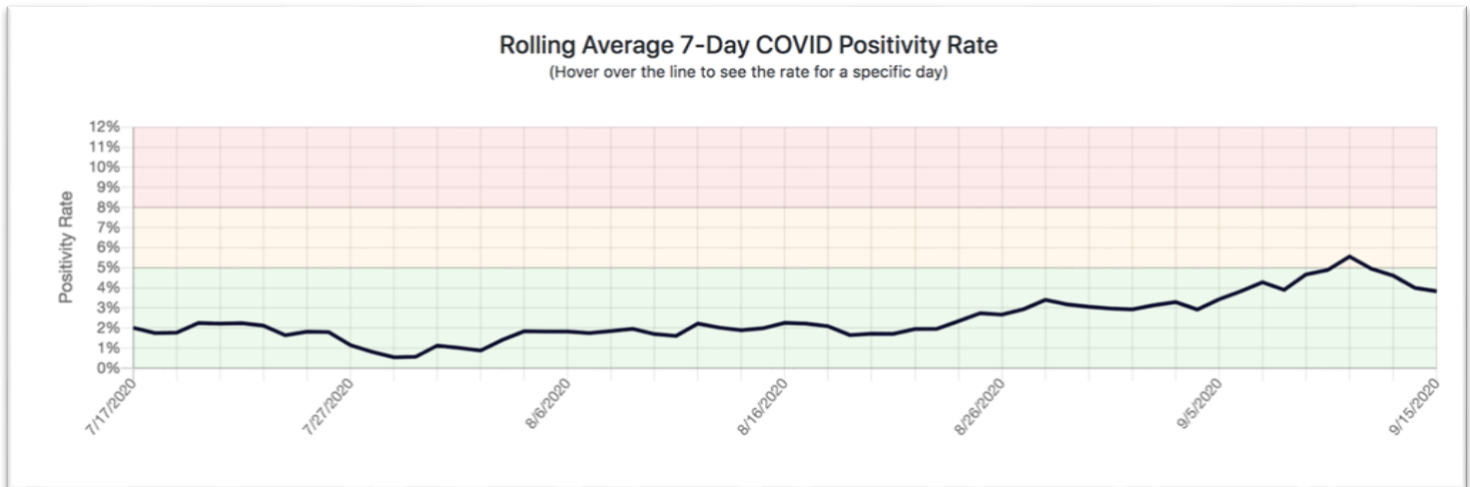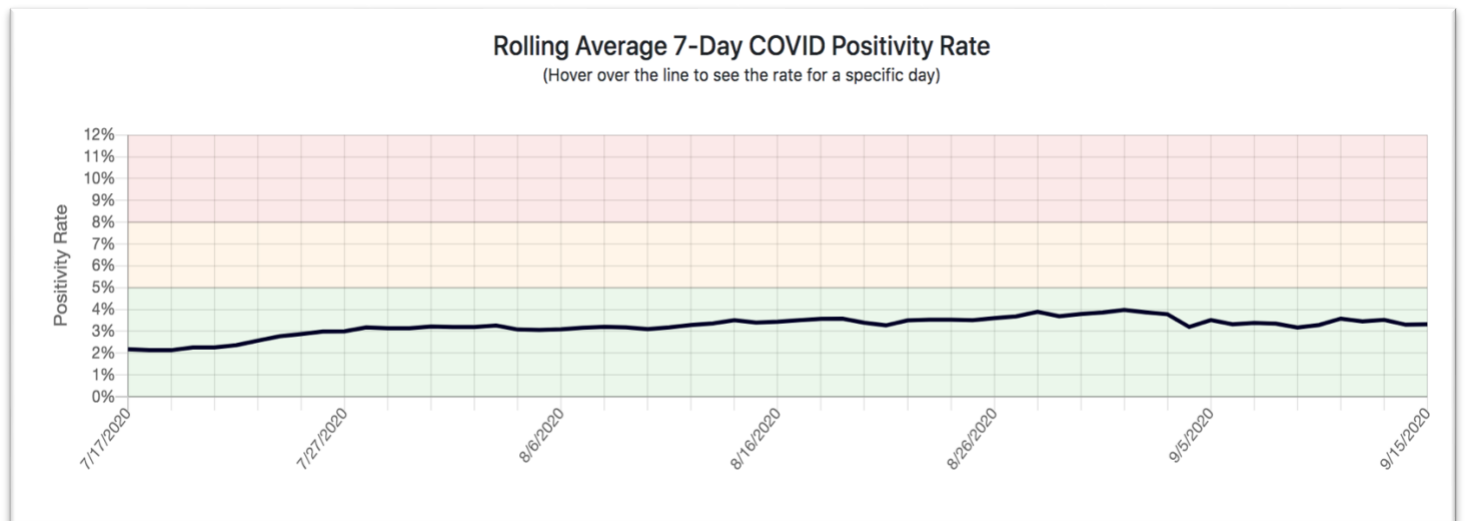
2. Rolling Average COVID Positivity Rates – 7-day Rolling Average
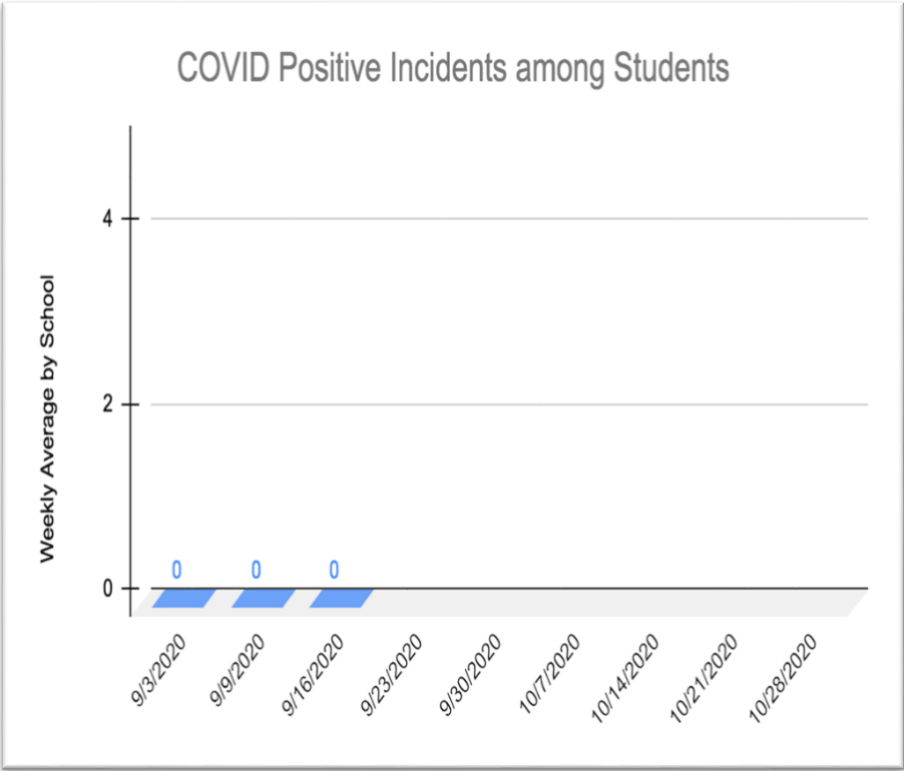   1. Wilmette (60091)
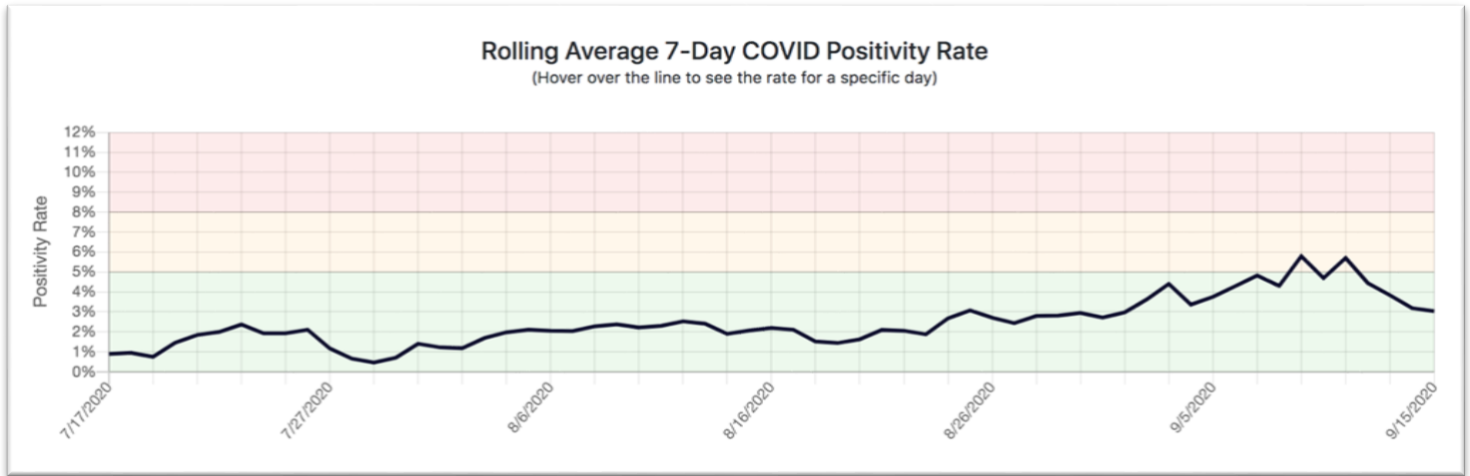
2. New Trier Township Zip Codes (60022, 60091, 60093, 60043)

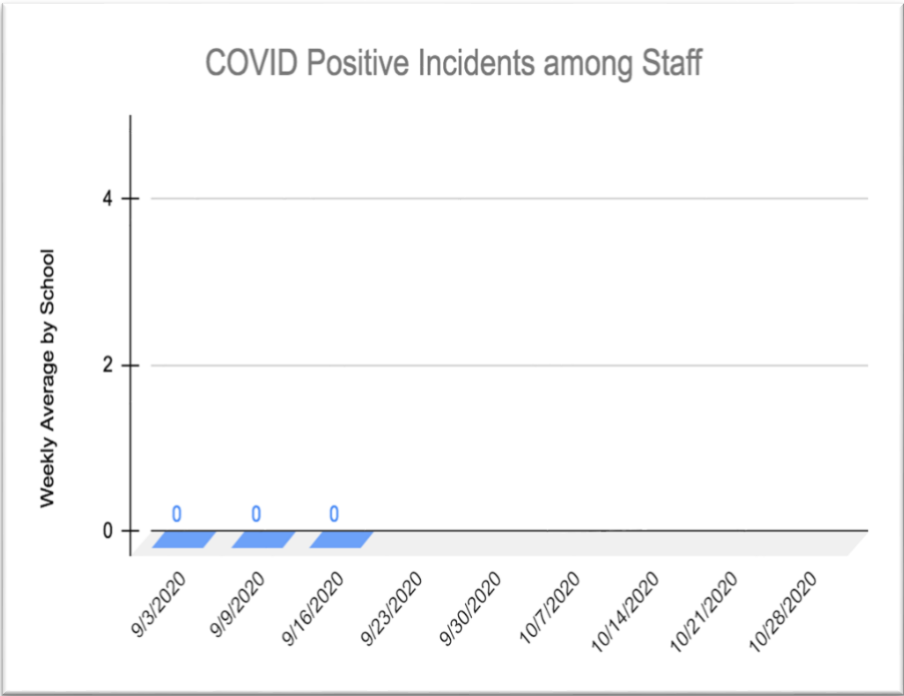3. Regional Zip Codes (Zip Codes for 93% of D39 Staff)

3. COVID-19 Positive Cases Reported in D39
    1. D39 Students (Tracked by School Nurses)

Targets for COVID-19 + Cases			
	Substantial	Moderate	Minimal
Weekly Average by School	>3	2 to 1	0

2. D39 Staff (Tracked by Human Resources Department)

Targets for COVID-19 + Cases			
	Substantial	Moderate	Minimal
Weekly Average by School	>3	2 to 1	0

4. **Operational Metrics - Are there persistent challenges that cannot be resolved?**

District employees are asked to report persistent challenges with social distancing, mask wearing, PPE availability and/or facility adaptations needs via a weekly survey. Targets were established based on capacity to address challenges within the week. The district employs a total of 568 individuals and the total number of survey respondents are reported weekly.

1. Social Distancing Compliance (# of challenges identified by staff)
2. Mask Wearing Compliance (# of challenges identified by staff)
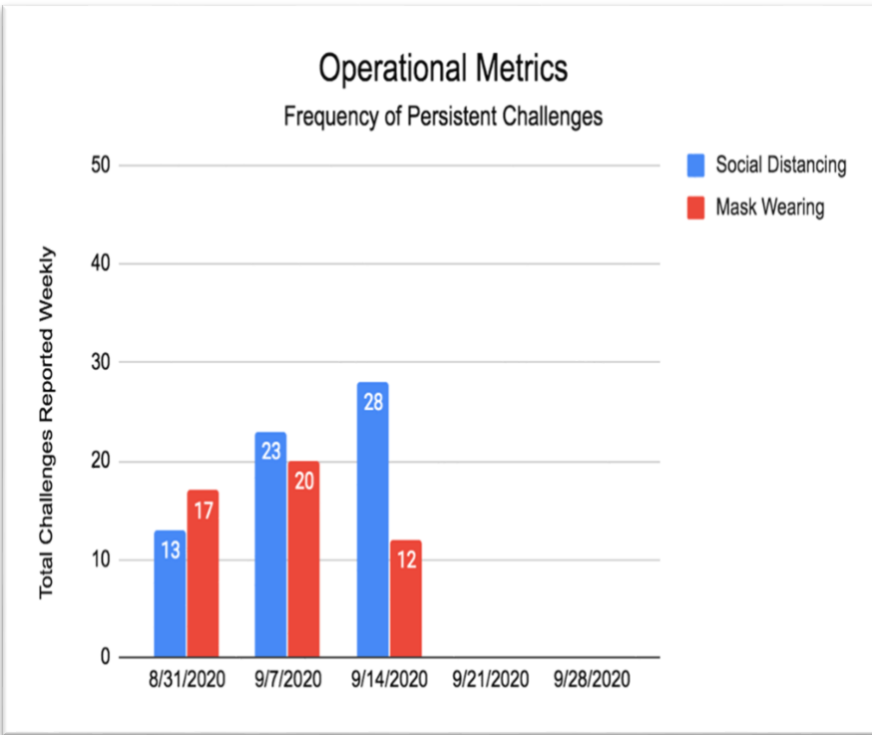
Targets: Frequency of Reports of Persistent Challenges with Social Distancing/Mask Wearing			
	Substantial	Moderate	Minimal
Weekly Average by District	>24	<=24 to >6	<=6
Weekly Average by School	>4	<=4 to >1	<=1

Note: Additional investigation into qualitative results regarding Social Distancing challenges revealed the following.
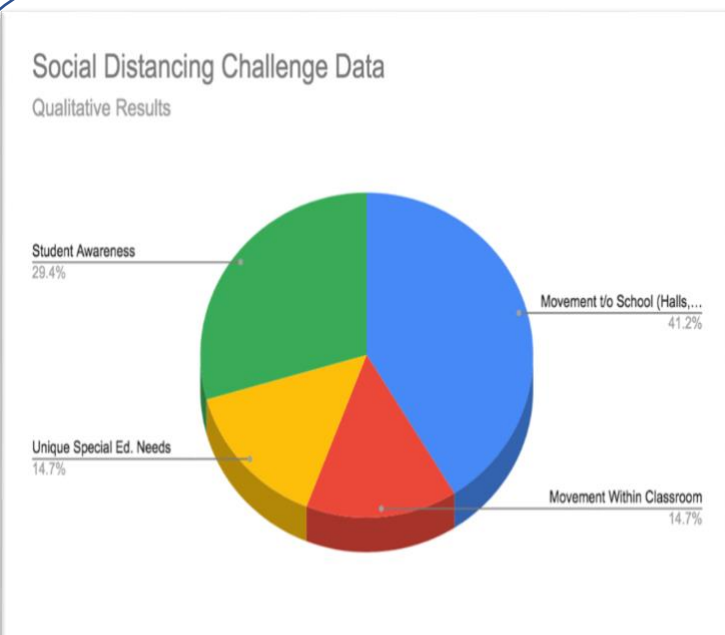

Exploration of social distancing challenges data reported on 9/14/20 reveals that staff have identified social distancing challenges to occur within four categories. Staff and students are still working through how to maintain proper social distancing while moving throughout the school (eg. Maintaining a full 6 feet of distancing between students while walking through hallways). In addition, students' awareness of 6 feet of distancing within and outside of school is not yet fully developed. Finally, there are some challenges identified related to the unique needs of students with special needs as well as while teachers move within a classroom.

3. Washroom Break Management (evaluation of schedule effectiveness, emergency access)
4. Lunch Safety Management (# of challenges identified by staff)

No Data to Report for the week of 9/16/2020

5. Self-Certification Compliance (# of students arriving to school without self-certifying)
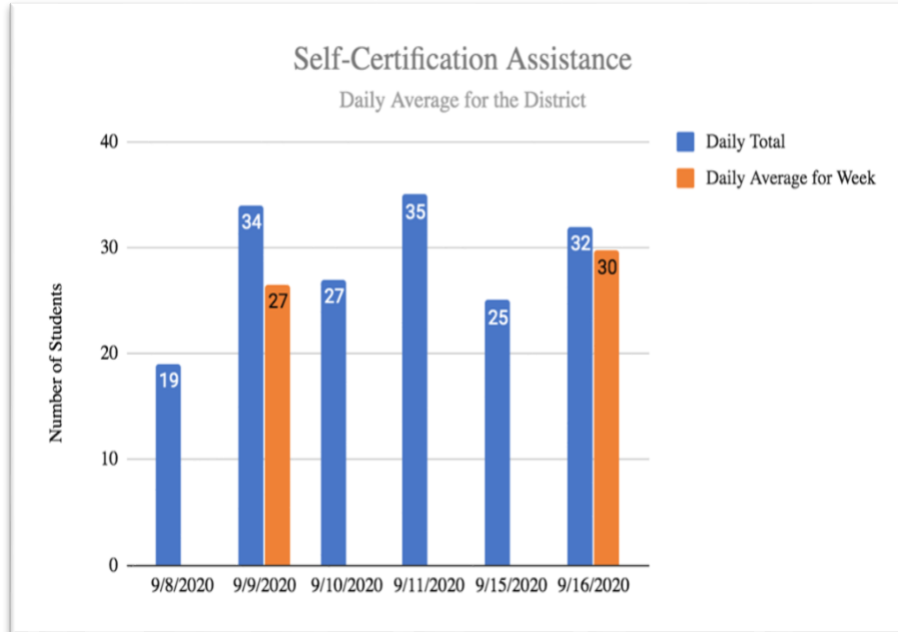
Targets for Frequency of Self-Certification Non-compliance			
	Substantial	Moderate	Minimal
Daily Average by District	>96	<=96 to >30	<=30
Daily Average by School	>16	<=16 to >5	<=5

5. **Supplies and Facilities - Are there persistent challenges that cannot be resolved?**
   The District employs 568 individuals. 119 responses were received.

   1. PPE Availability Needs/Persistent Challenges Guidance (# of challenges identified)
   2. Facility Adaptations to Accommodate Health Guidance (# of challenges identified by staff. This might include classroom and/or school challenges.)
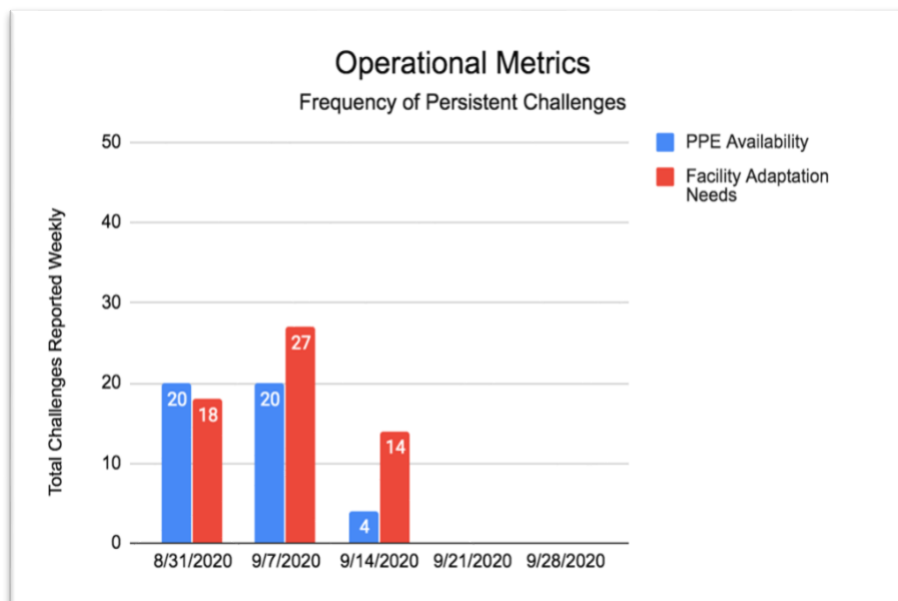
| Targets: Frequency of Reports of Persistent Challenges with PPE Availability/Facility Adaptations			
	Substantial	Moderate	Minimal
Weekly Average by District	>24	<=24 to >6	<=6
Weekly Average by School	>4	<=4 to >1	<=1

6. **Staffing Levels -** (Tracked by Human Resources Department via Frontline)

1. Certificated Staff Sick Day Absences (382 employees; 1,910 work days per week)
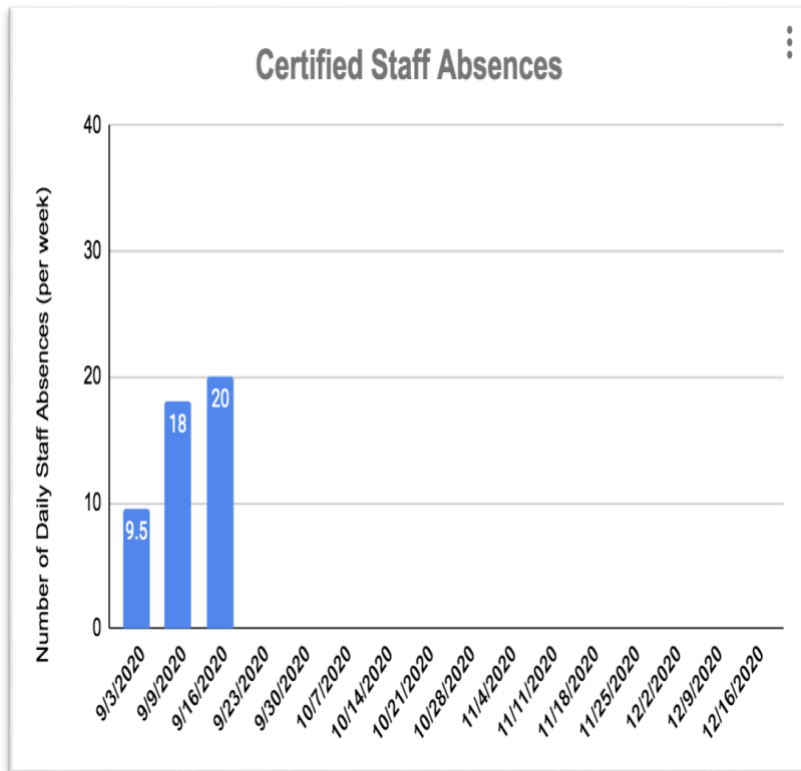
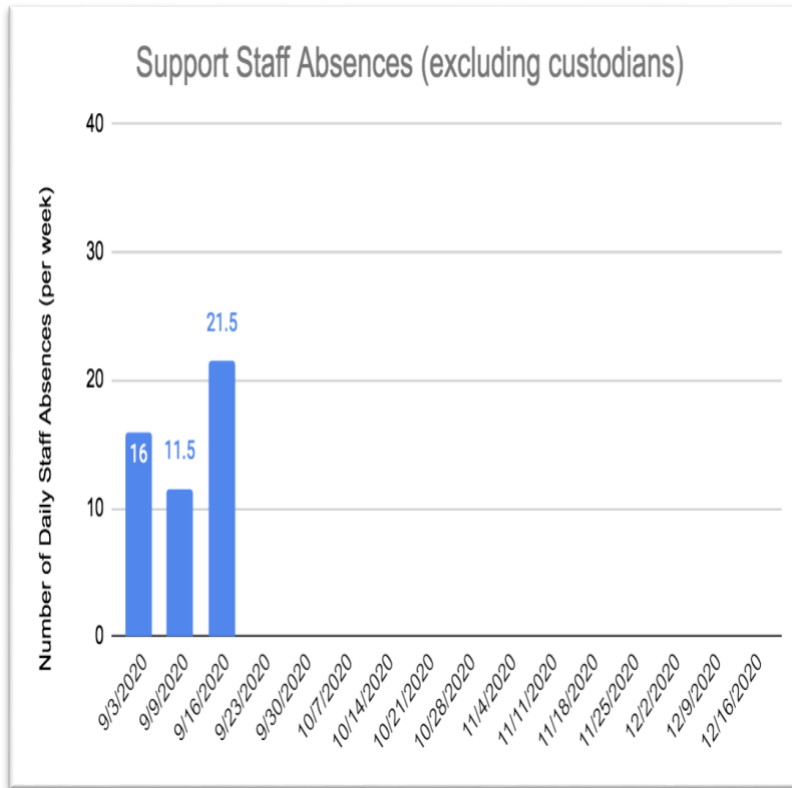| Targets for Certified Staff Absences			
	Substantial	Moderate	Minimal
Weekly Average by District	>60	<=60 to >30	<=30
Weekly Average by School	>10	<=10 to >5	<=5
Daily Average by School	>2	<=2 to >1	<=1
66.5 = Average Number of Certified Staff Sick Day Absences per Week in 2019-20			

2. Custodial Staff Sick Day Absences (34 employees; 170 work days per week)
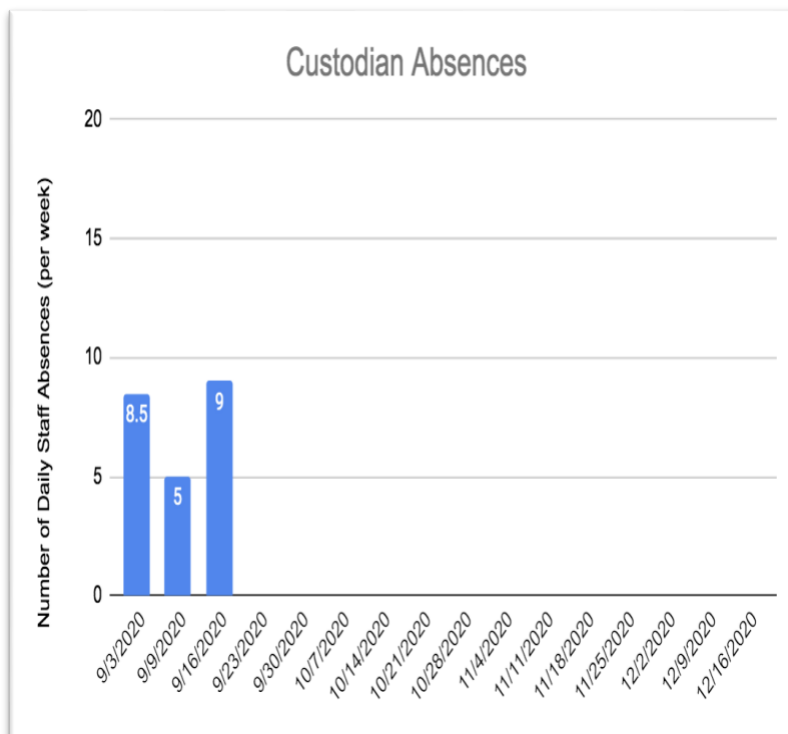
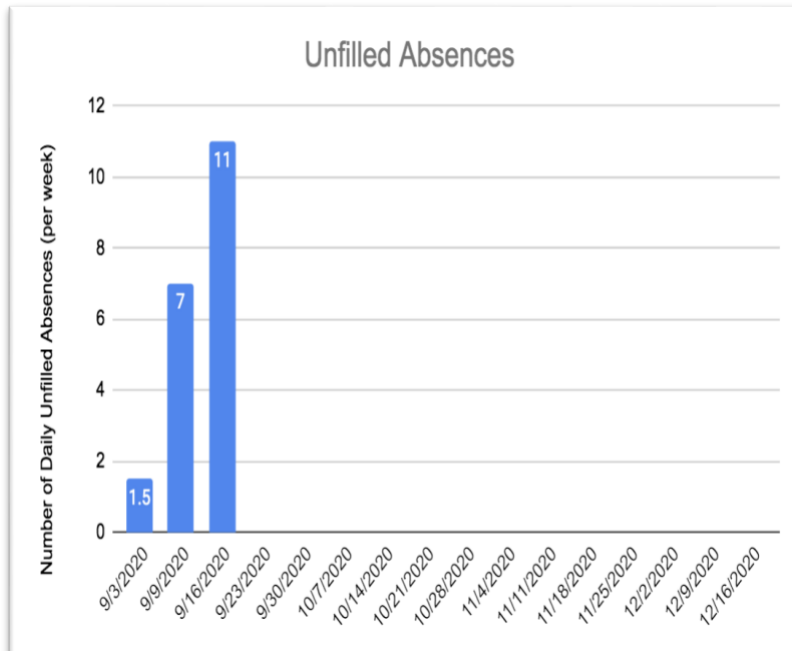| Targets for Custodian Absences			
	Substantial	Moderate	Minimal
Weekly Average by District	>30	<=30 to >12	<=12
Weekly Average by School	>5	<=5 to >2	<=2
Daily Average by School	>1	<=1 to >0.4	<=0.4
6.7 = Average Number of Custodian Staff Sick Day Absences per Week in 2019-20			

3. Support Staff Sick Day Absences (152 employees; 760 work days per week)

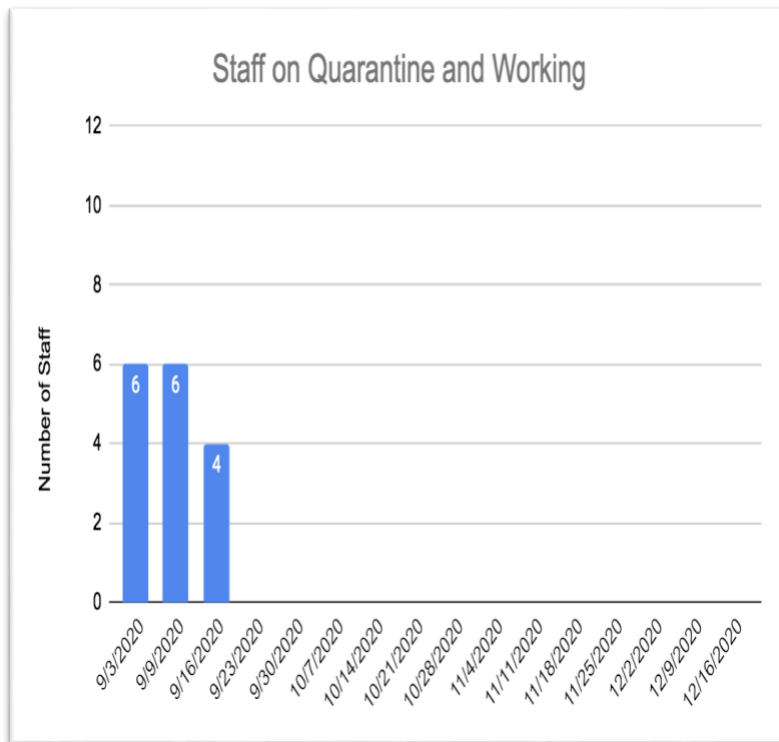| Targets for Support Staff Absences			
	Substantial	Moderate	Minimal
Weekly Average by District	>60	<=60 to >30	<=30
Weekly Average by School	>10	<=10 to >5	<=5
Daily Average by School	>2	<=2 to >1	<=1
27.0 = Average Number of Support Staff Sick Day Absences per Week in 2019-20			

4. Availability of Substitutes (Unfilled Substitute Positions; Filled Internally)

| Targets for Unfilled Absences			
	Substantial	Moderate	Minimal
Weekly Average by District	>12	<=12 to >6	<=6
Weekly Average by School	>2	<=2 to >1	<=1
17.0 = Average Number of Unfilled Absences per Week in 2019-20			

5. Staff Quarantine Rates (COVID Days)
   1. Staff Working While on Quarantine

14

Staff on Quarantine and Working

Targets for Staff Working While on Quarantine			
	Substantial	Moderate	Minimal
Weekly Average by District	>12	<=12 to >6	<=6
Weekly Average by School	>2	<=2 to >1	<=1

2. Staff Not Working While on Quarantine

Staff on Quarantine and Not Working
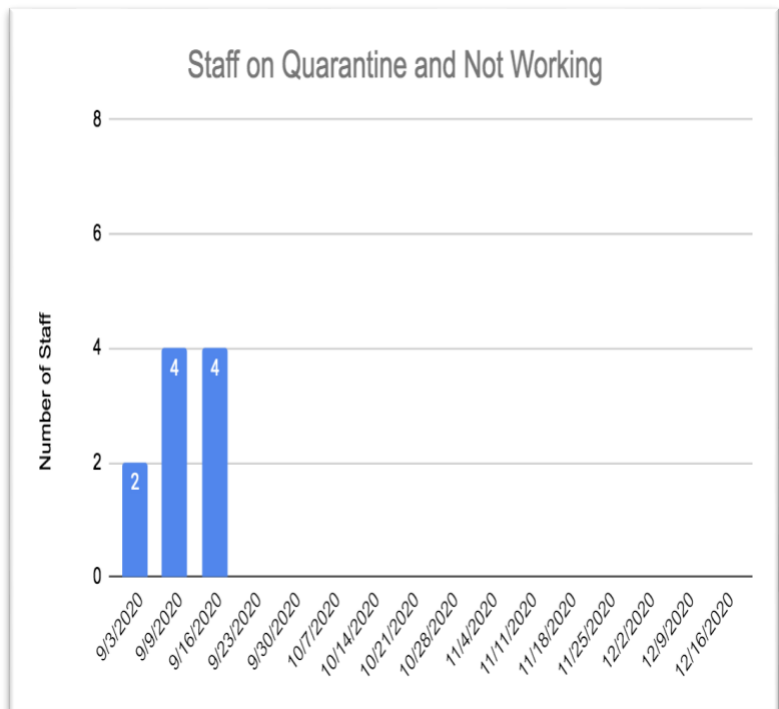
| Targets for Staff on Quarantine and Not Working			
	Substantial	Moderate	Minimal
Weekly Average by District	>6	<=6 to >3	<=3
Weekly Average by School	>1	<=1 to >0.5	<=0.5

Vacant Postions
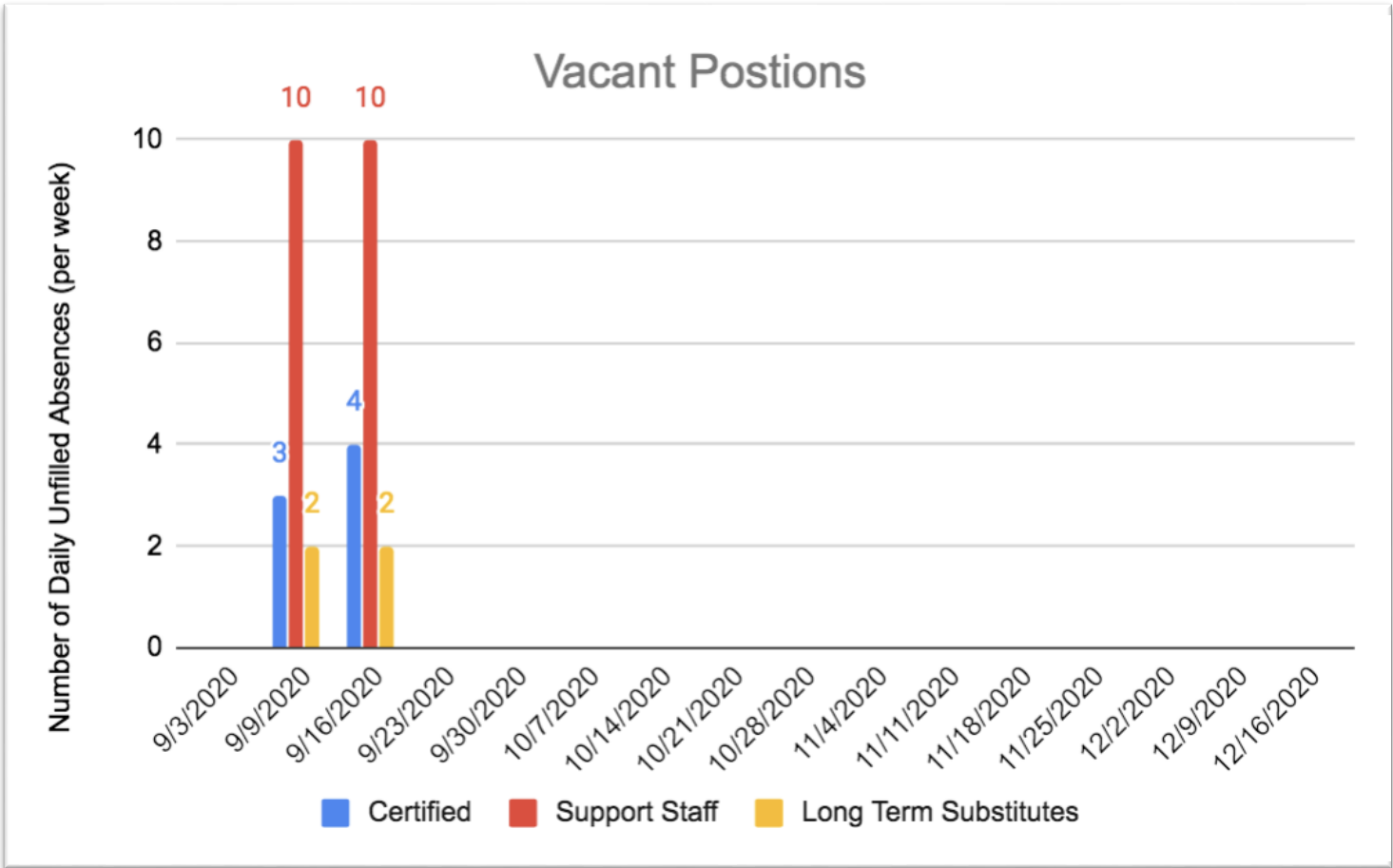
7. **Student Absences** (Tracked within Student Information System)
    1. Daily Student Absences

District-Wide Absence Percentage

Date	Central Absences	Central Percent Absent	Harper Absences	Harper Percent Absent	McKenzie Absences	McKenzie Percent Absent	Romona Absences	Romona Percent Absent	Highcrest Absences	Highcrest Percent Absent	WJHS Absences	WJHS Percent Absent	District Absences	District Percent Absent
08/31/2020	3.5	.82%	0	%	3	.72%	4	.8%	3	.37%	4.5	.55%	18	.53%
09/01/2020	3	.7%	1.5	.37%	3	.72%	2.5	.5%	4.5	.55%	5	.61%	19.5	.58%
09/02/2020	3	.7%	3	.74%	2.5	.6%	3.5	.7%	2	.25%	7	.85%	21	.62%
09/03/2020	3	.7%	3	.74%	4.5	1.07%	4	.8%	3	.37%	2	.24%	19.5	.58%
09/04/2020	6	1.4%	4.5	1.11%	11	2.63%	5	1%	7	.86%	8	.97%	41.5	1.22%
09/08/2020	4.5	1.05%	6.5	1.61%	3.5	.84%	4.5	.9%	3.5	.43%	6.5	.79%	29	.86%
09/09/2020	4	.93%	0.5	.12%	4.5	1.07%	3	.6%	9	1.11%	4	.49%	25	.74%
09/10/2020	3	.7%	2.5	.62%	2.5	.6%	6	1.2%	5.5	.68%	7.5	.91%	27	.8%
09/11/2020	5.5	1.28%	7	1.73%	2.5	.6%	8.5	1.7%	14.5	1.78%	12.5	1.52%	50.5	1.49%
09/14/2020	2	.47%	5.5	1.36%	5.5	1.31%	4	.8%	8	.98%	4.5	.55%	29.5	.87%
09/15/2020	2.5	.58%	8	1.98%	5.5	1.31%	5	1%	9	1.11%	4.5	.55%	34.5	1.02%
09/16/2020	4.5	1.05%	9	2.23%	3.5	.84%	5.5	1.1%	10	1.23%	7	.85%	39.5	1.17%

Student Absences chart
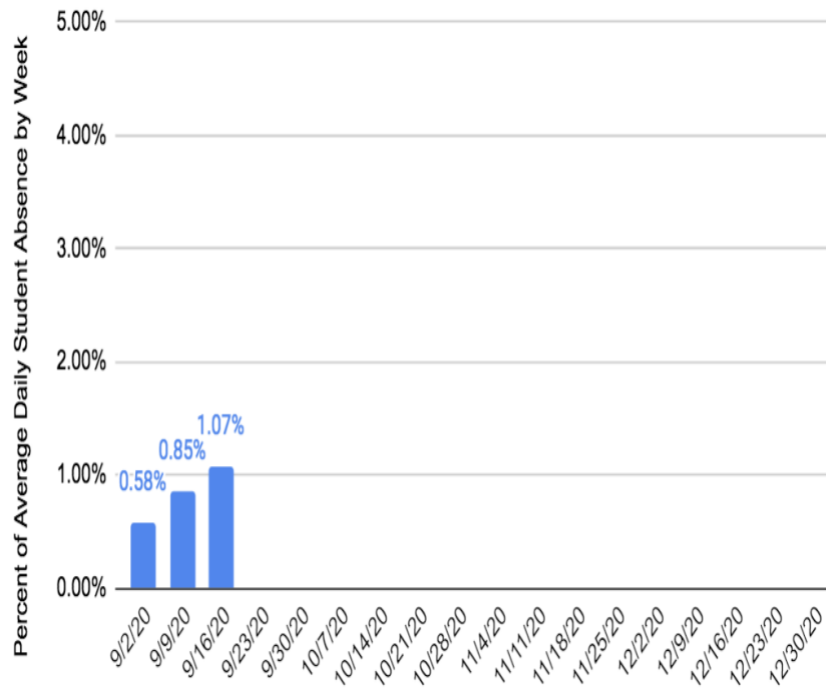
Targets for Student Absences			
	Substantial	Moderate	Minimal
Weekly Average by District	>7%	<=6% to >4%	<=4%

Typical annual student attendance in District 39 in 95.7% (ISBE Report Card). Thus, typical student absence rates are approximately 4.3%.

2. Student Quarantine Rates
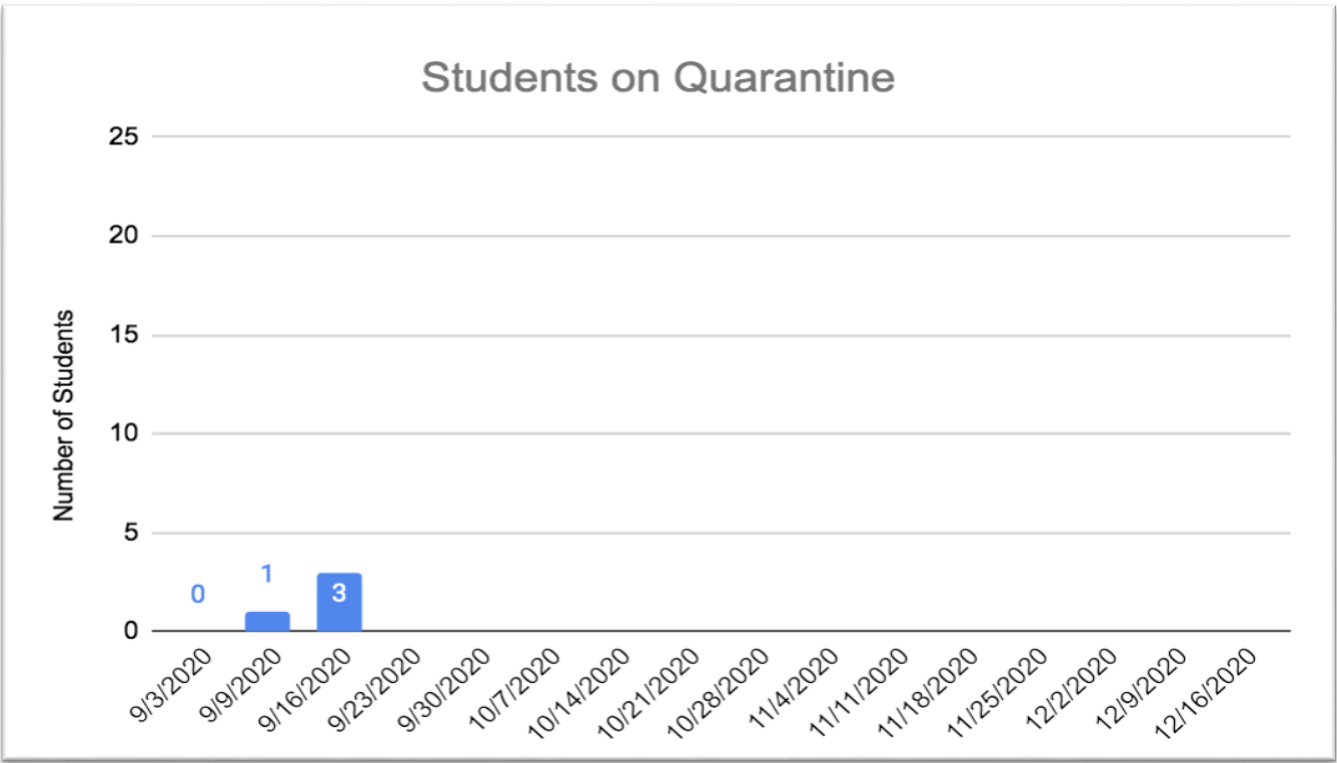
3. Class Quarantine Rates
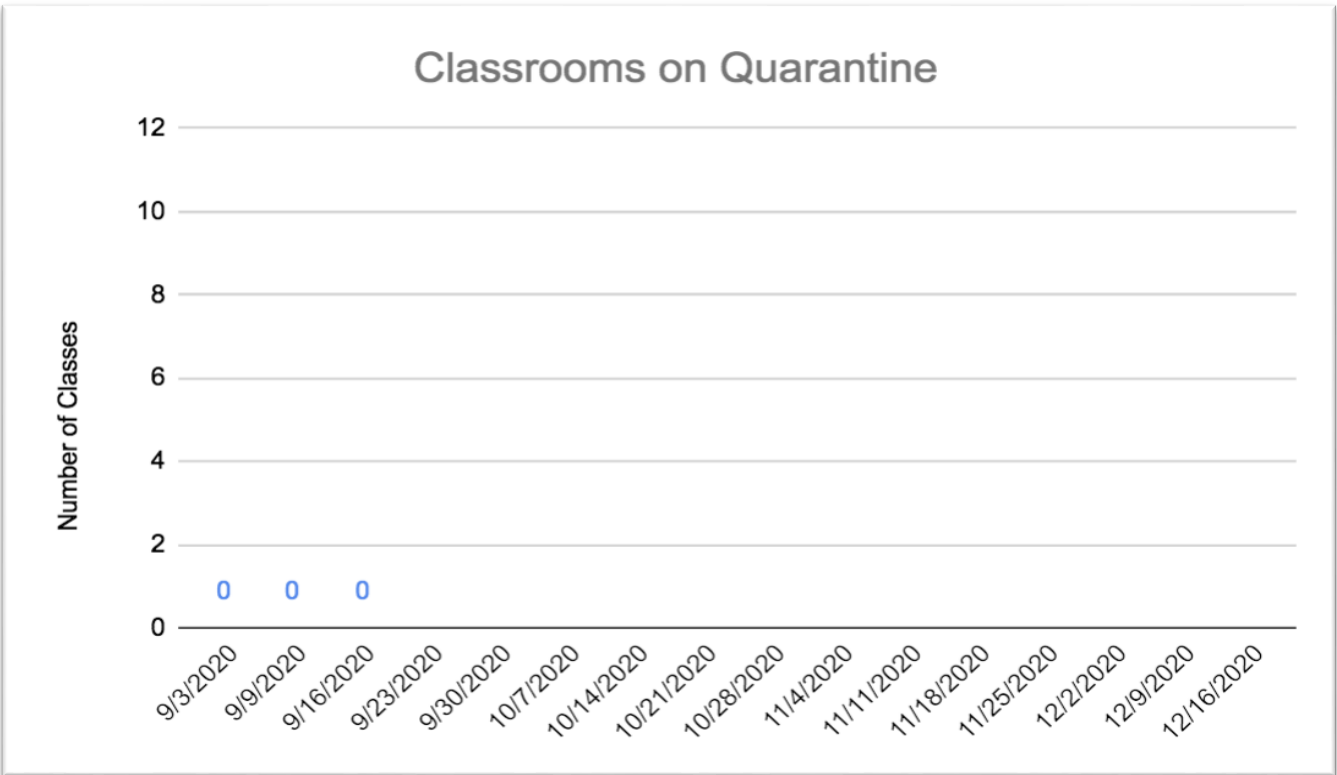
8. **Effective Instruction**
   1. Engagement Levels in Remote Learning
   2. Learning Progress of Students

Under Development

9. **Current Scientific Research**: The research on SARS-CoV2 and COVID-19 continues to develop rapidly. The latest findings on spread, mitigation, treatment, and health impact will inform the District's decision-making process.