

Update of COVID-19 & Racial Disparities in Michigan

Sep 10, 2021

Disparities Data Committee

Purpose

- *Provide relevant data to aid the Lt. Governor-appointed Racial Disparities Task Force in better understanding and addressing the needs of racial and ethnic minority communities.*
 - *Outline existing upstream factors that result in disparities and put some people at greater risk of severe impact of COVID-19 epidemic and response*
 - *Identify a set of actionable downstream indicators that can be used to measure change in disparity in short term*

Disparity Indicators

Indicator: Rationale	Sample of Proposed Metrics
<p>SARS-CoV-2 Testing: Are we testing enough in all communities?</p>	<p>Testing by Race and Ethnicity Testing Rate in Socially Vulnerable Communities Turn Around Time for Positive and Negative Tests</p>
<p>SARS-CoV-2 Spread: What is the spread of COVID-19 in Michigan populations?</p>	<p>Number & Percent of COVID-19 Cases by Race and Ethnicity Case Rate per Million People by Race and Ethnicity Missingness of Race/Ethnicity data for COVID-19 cases</p>
<p>COVID-19 Severity: Are some groups experiencing more severe outcomes?</p>	<p>COVID-like Illness (CLI) and COVID-19 diagnosis in EDs Number & Percent of COVID-19 deaths by Race and Ethnicity Death Rate per Million People by Race and Ethnicity</p>
<p>Access to Services for COVID-19: Is case investigation and contact tracing equitable? Are supportive services available for quarantine/isolation compliance? Is vaccine distributed equitably?</p>	<p>Percent of cases who were followed up with CI/CT Percent of cases who indicated need for services and services provided Total vaccines administered by race % population with first dose, completed vaccine series</p>
<p>Impact of Pandemic Response (<i>rotating metrics</i>): How are non-COVID outcomes impacted by COVID-19? And is the impact the same in all populations? Are preventive services and access to care equitable?</p>	<p>Excess deaths Maternal and Child Health Indicators (pre/antenatal, CLPPP) Substance use disorder services Health Screening (HIV, STD, Noncommunicable Diseases)</p>

Key Messages

SARS-CoV-2 Testing

- Among neighborhood testing sites, the number of tests conducted is increasing since the last presentation
- In past 4 weeks, positivity continues to increase for nearly all groups at neighborhood testing sites

SARS-CoV-2 Spread

- State of Michigan is at **high** transmission level and rising. CDC recommends everyone mask in crowded indoor settings regardless of vaccine status
- Cases per million are increasing for all races and ethnicities and is highest for American Indian/Alaskan Native, Hispanic/Latino, and Whites.
- In the past 30 days, 20% (↑3%) of race data and 24% (↑4%) ethnicity data was either missing or reported as unknown
- Distribution of cases during the delta surge varies by race with Whites seeing the greatest rates across the state

COVID-19 Severity

- In past 28 days, American Indian/Alaskan Native, Native Hawaiian/Pacific Islander, and Other Race have been flagged as having more than their expected share of case and hospitalizations
- Deaths per million are increasing for most racial/ethnic groups but are highest for American Indian/Alaskan Native

Access to COVID-19 Services

- In August, percent of cases quarantining as symptom onset and percent of cases with known exposure source are returned to pre-June levels
- Vaccine coverage for those 12 and older was highest among those of Asian, Native Hawaiian or Pacific Islander Race (54.7%), followed by Non-Hispanic (NH) American Indian (51.9%), NH White (47.6%), Hispanic (49.2%) ethnicity, and NH Black or African American (37.0%)
- Levels of vaccine coverage by are lower than the state average in Berrien, Calhoun, Genesee, Muskegon, Saginaw, and Detroit City

Pandemic Response: Influenza Vaccine Coverage and COVID Mitigation for School Aged Children

- There was an increase in influenza vaccination coverage in 2020-2021 as compared to 2019-2020 for all the races across all age groups but disparities exist, particularly for Black/African Americans
- School-aged children are seeing the largest growth in cases, and outbreaks in schools are rapidly increasing in Michigan
- To protect children and keep them in school, we should maximize all prevention strategies: vaccination, masking, appropriate physical distancing measures (e.g., cohorts and pods), provide appropriate testing (e.g., rapid antigen testing), proper ventilation in classrooms, and effective case investigation/tracing

Testing by Race and Ethnicity (Sentinel Sites)

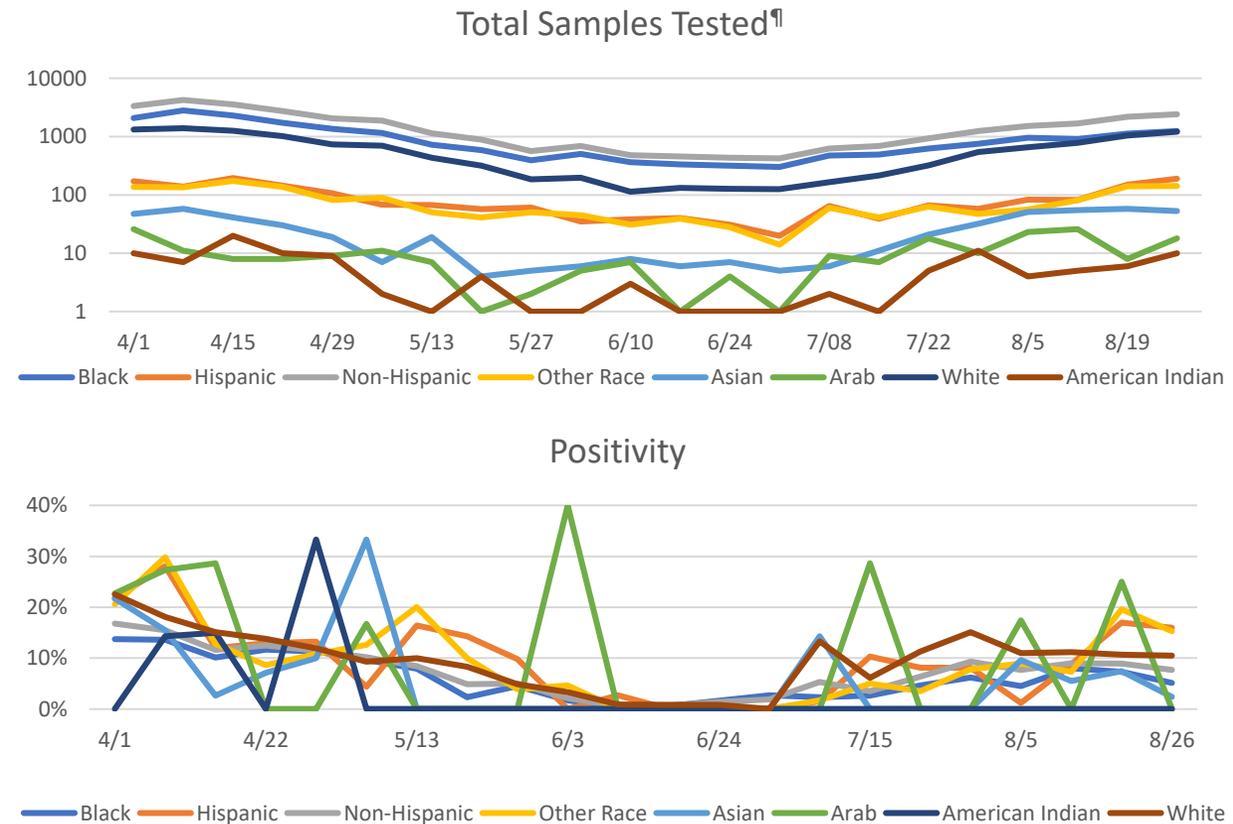
Cumulative Neighborhood Testing Demographics (22 sites)

Percent Tested		% Positive (8/19-9/1)	
Race*			
1%	Asian	5%	Asian Positivity
< 1%	American Indian or Alaskan Native	0%	American Indian or Alaskan Native Positivity
38%	Black/African American	6%	Black/African American Positivity
3%	Other Race	17%	Other Race Positivity
31%	White	11%	White Positivity
Ethnicity*			
4%	Hispanic/Latino	16%	Hispanic/Latino Positivity
68%	Non-Hispanic/Latino	8%	Non-Hispanic/Latino Positivity
< 1%	Arab	8%	Arab Positivity †

* May not add to 100% due to those who responded unknown or preferred not to answer

† Only 25 individuals with Arab ethnicity were tested for COVID in this 2-week period

Time Trends



¶ Note: axis is on the logarithmic scale to better view trends over time for smaller populations

NxGen Testing by Race and Ethnicity

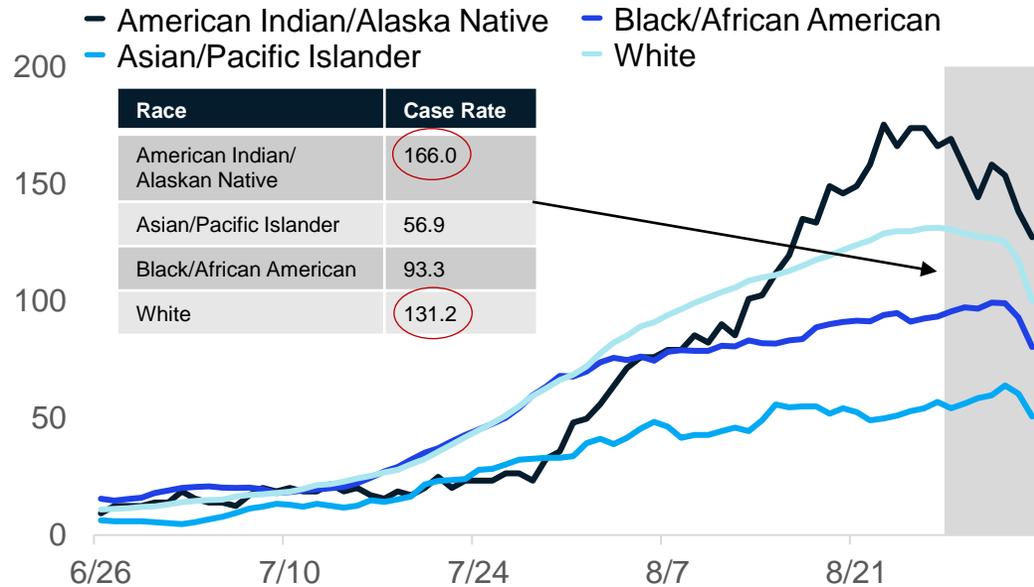
79 testing sites, 123,856 cumulative samples tested

Percent Tested		Percent Positive (8/15-8/28)	
Race*			
1%	Asian	13%	Asian Positivity
< 1%	American Indian or Alaskan Native	0%	American Indian or Alaskan Native Positivity
6%	Black/ African American	12%	Black/African American Positivity
< 1%	Native Hawaiian/Pacific Islander	0%	Native Hawaiian/Pacific Islander Positivity
2%	Other Race	6%	Other Race Positivity
62%	White	11%	White Positivity
Ethnicity*			
3%	Hispanic/Latino	9%	Hispanic/Latino Positivity
38%	Non-Hispanic/Latino	8%	Non-Hispanic/Latino Positivity
< 1%	Jewish	NT	Jewish Positivity

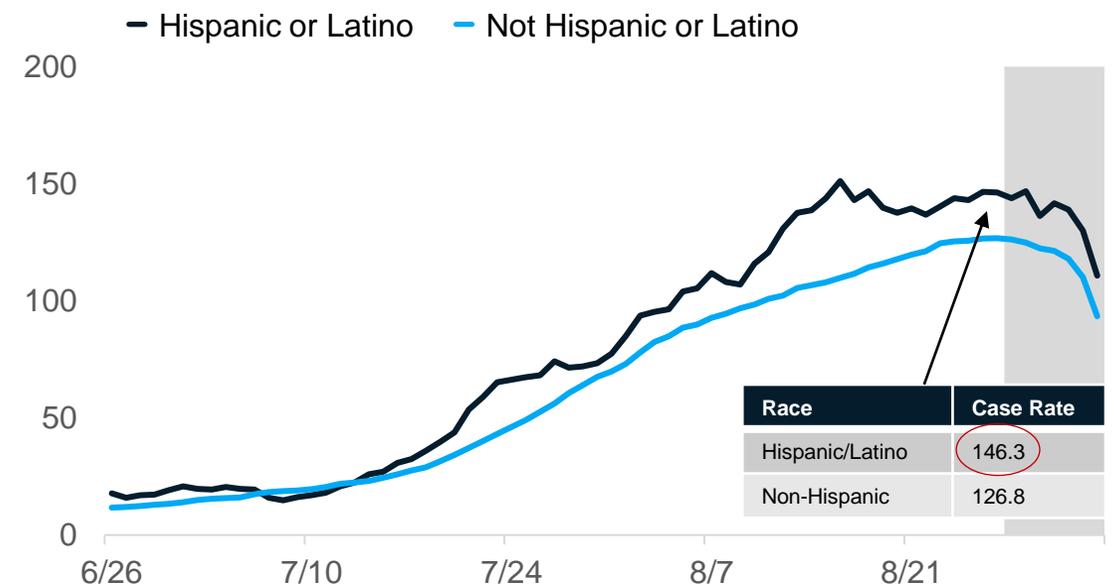
* May not add to 100% due to those who responded unknown or did not to answer
 NT – No tested conducted during this reporting period

Racial and Ethnic Case Rates are Increasing

Daily new confirmed and probable cases per million (7 day rolling average) by race category



Daily new confirmed and probable cases per million (7 day rolling average) by ethnicity category



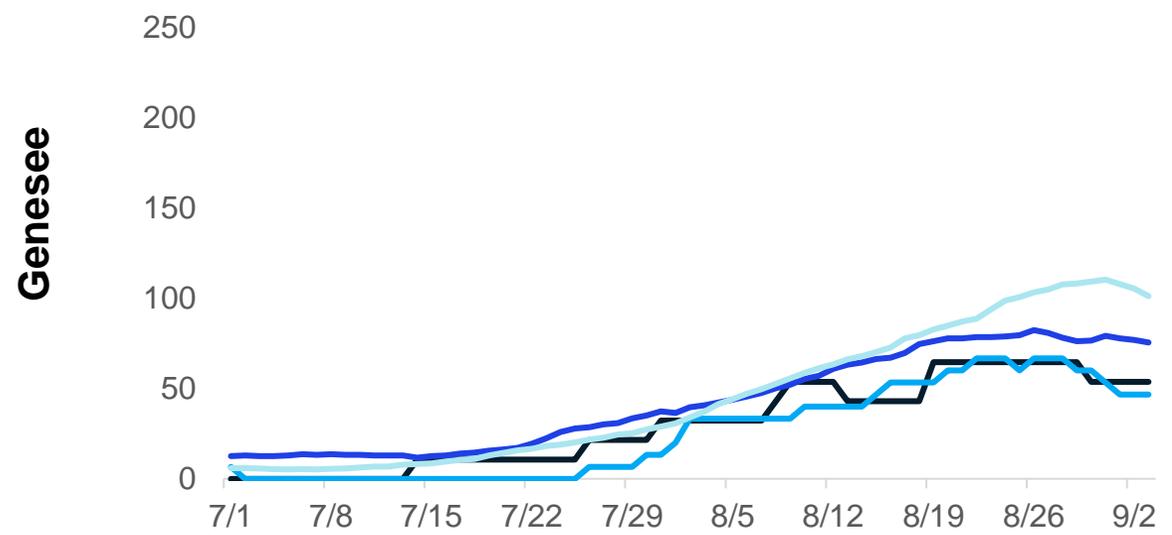
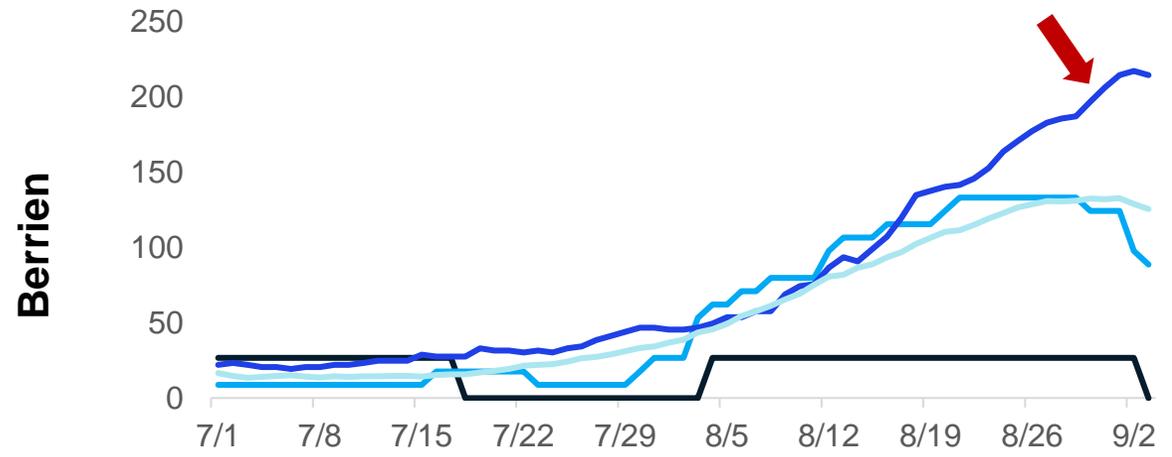
Updates since last week:

- Cases per million are increasing for all races and ethnicities
- **Hispanics, American Indian/Alaskan Native, and Whites have the highest case rates**
- In the past 30 days, 20% (↑3%) of race data and 24% (↑4%) ethnicity data was either missing or reported as unknown

Average daily new cases per million people by race and ethnicity

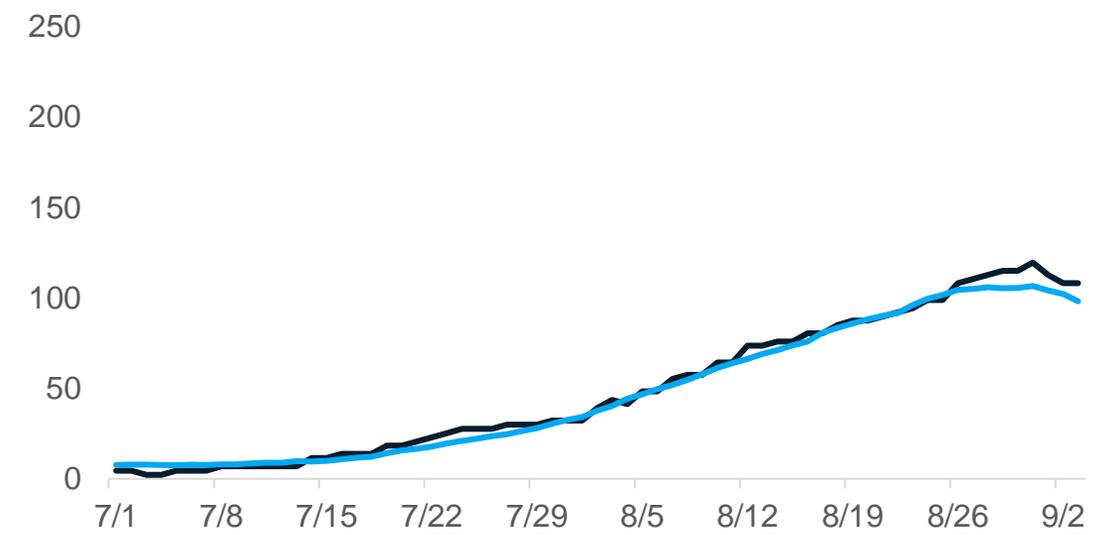
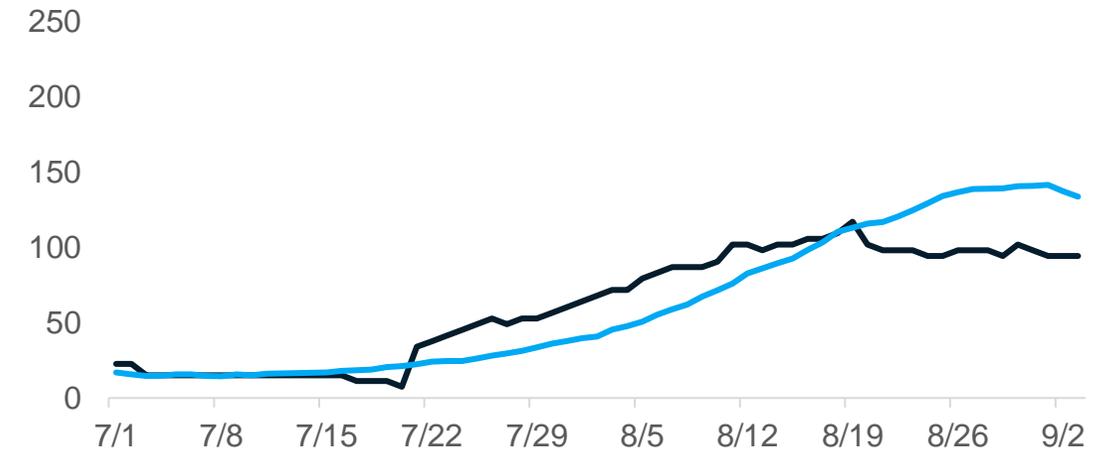
Daily new confirmed and probable cases per million (30-day rolling average) by race category

- American Indian/Alaska Native
- Black/African American
- Asian/Pacific Islander
- White



Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category

- Hispanic or Latino
- Not Hispanic or Latino

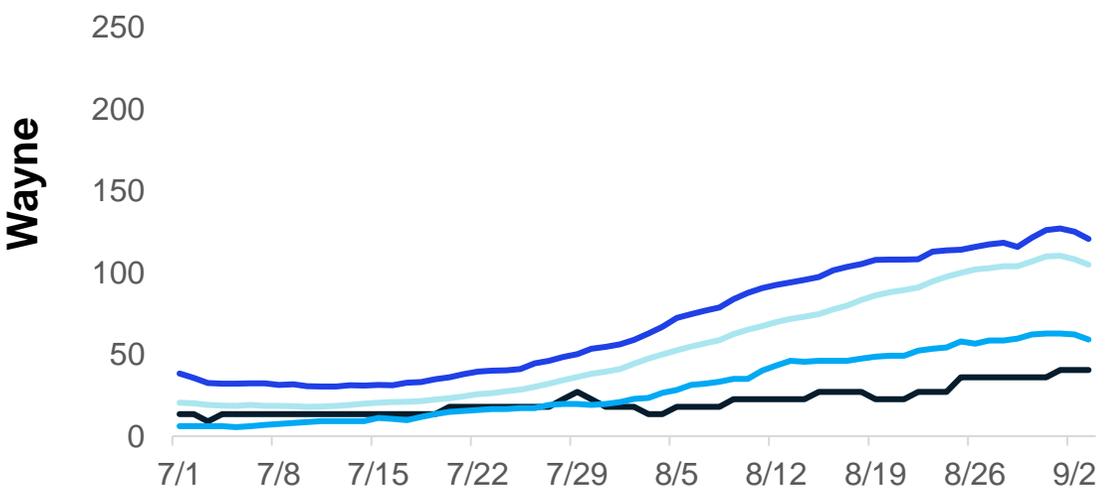
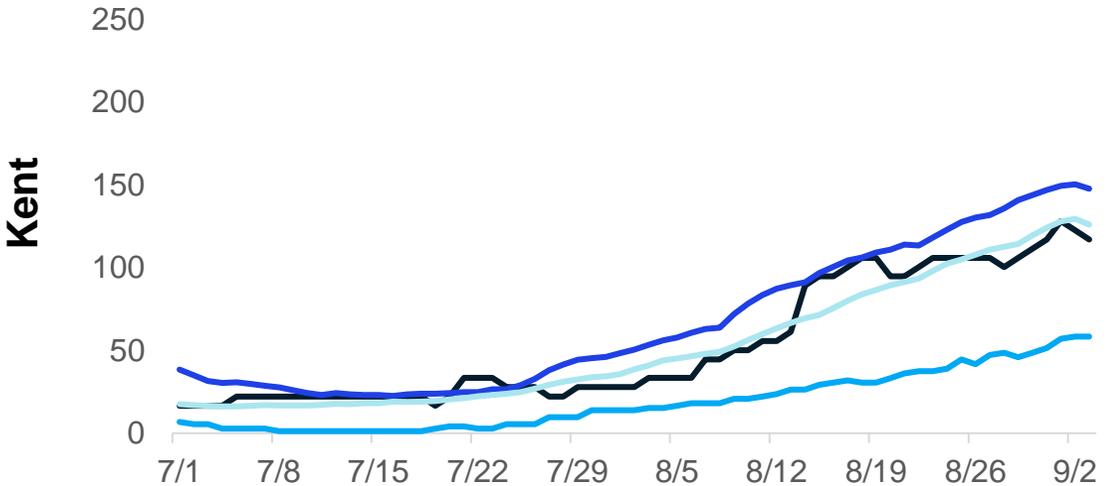


Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.
 Source: MDHHS – Michigan Disease Surveillance System

Average daily new cases per million people by race and ethnicity

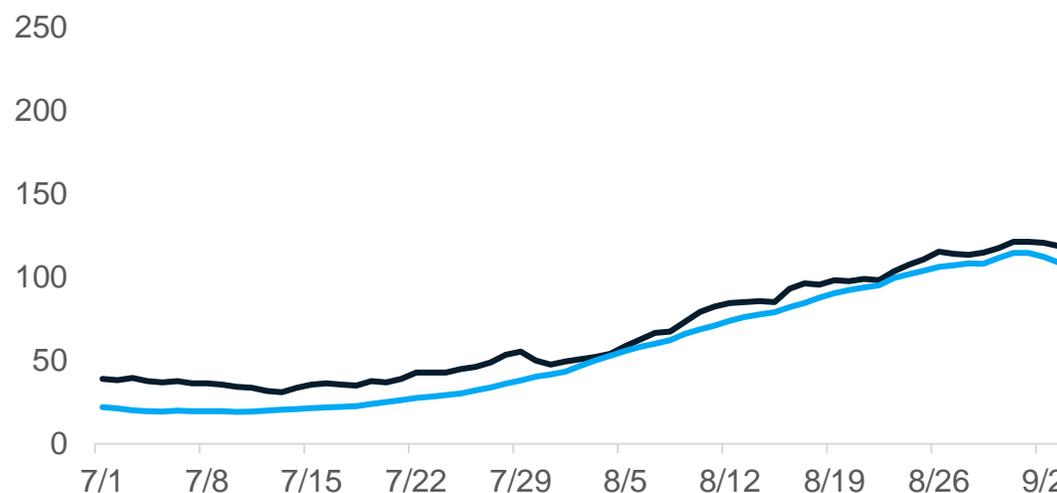
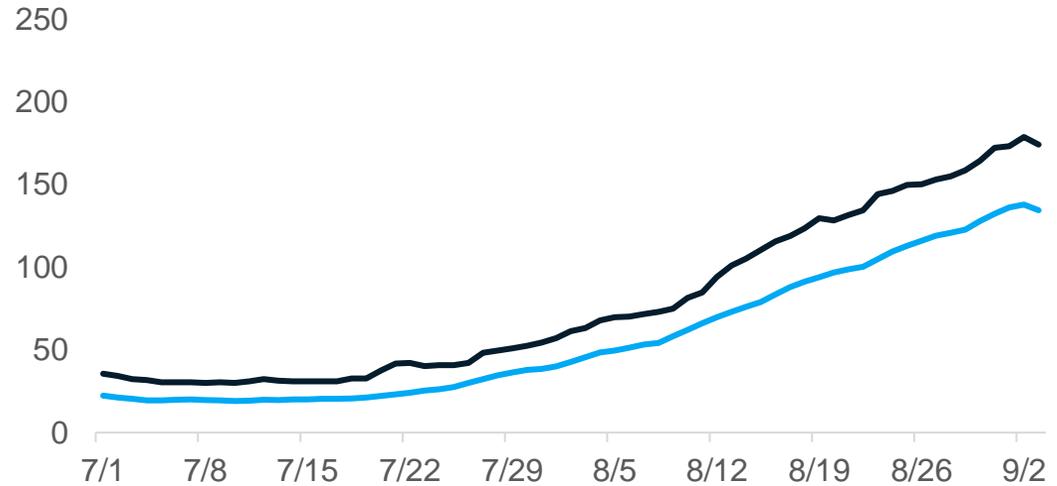
Daily new confirmed and probable cases per million (30-day rolling average) by race category

- American Indian/Alaska Native
- Black/African American
- Asian/Pacific Islander
- White



Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category

- Hispanic or Latino
- Not Hispanic or Latino



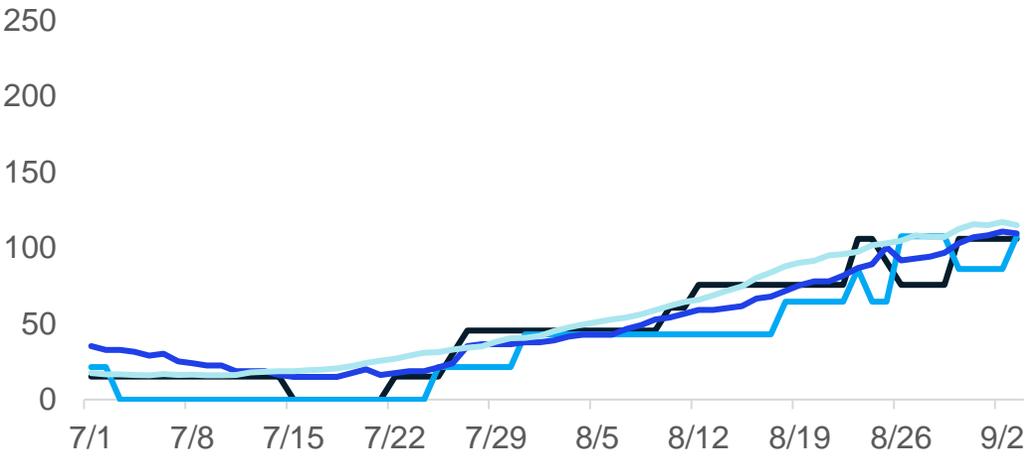
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 Source: MDHHS – Michigan Disease Surveillance System

Average daily new cases per million people by race and ethnicity

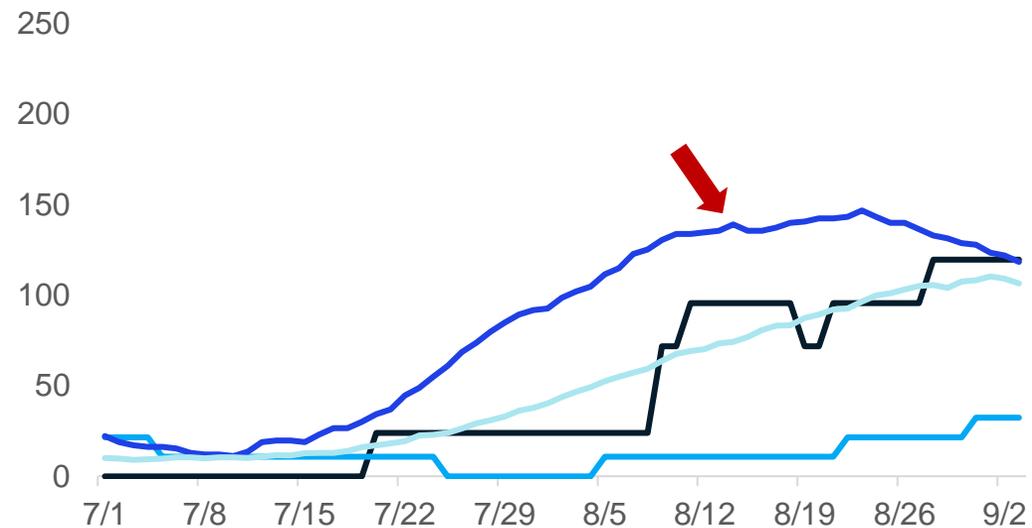
Daily new confirmed and probable cases per million (30-day rolling average) by race category

- American Indian/Alaska Native
- Black/African American
- Asian/Pacific Islander
- White

Muskegon

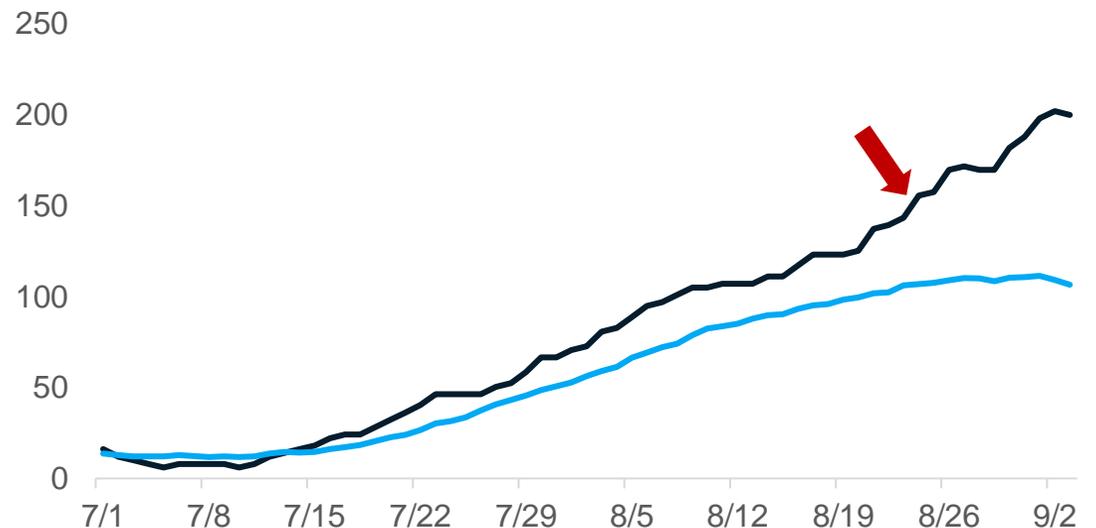
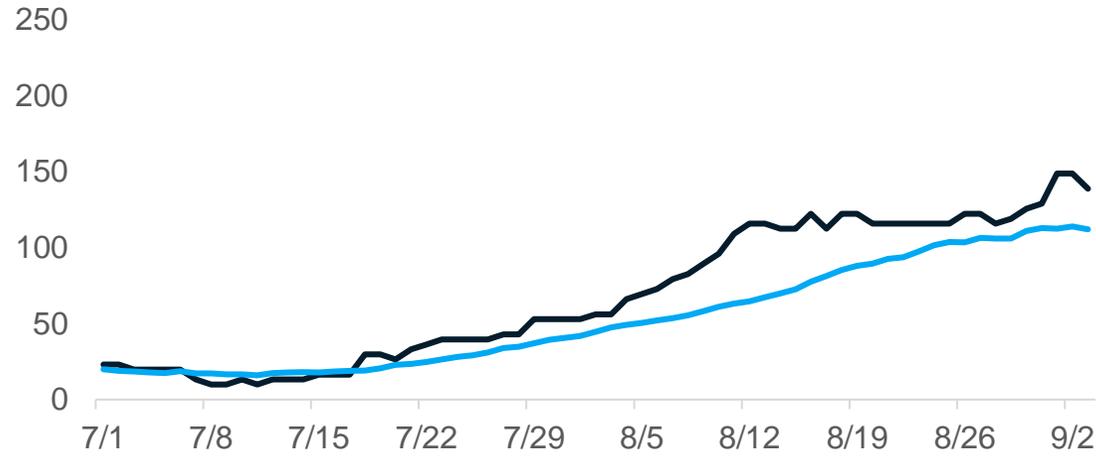


Saginaw



Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category

- Hispanic or Latino
- Not Hispanic or Latino

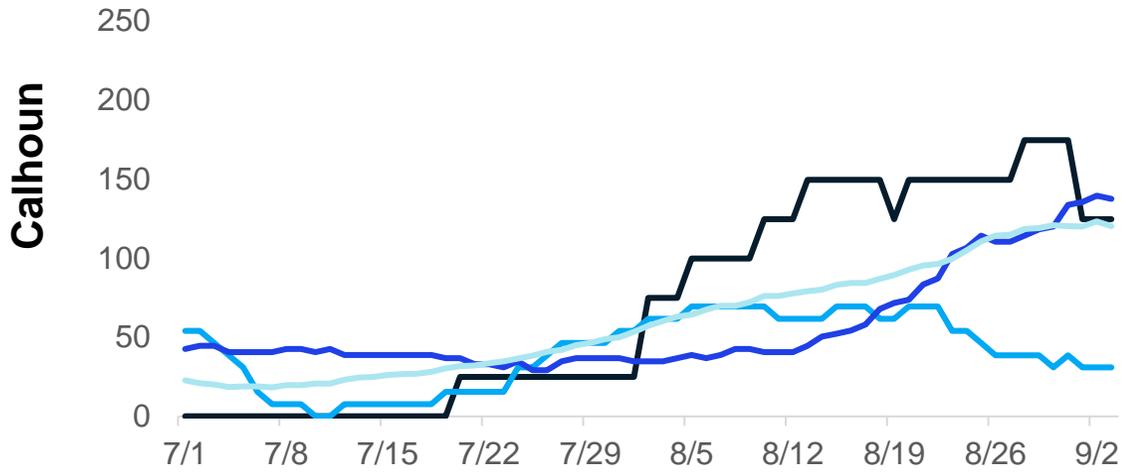


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Average daily new cases per million people by race and ethnicity

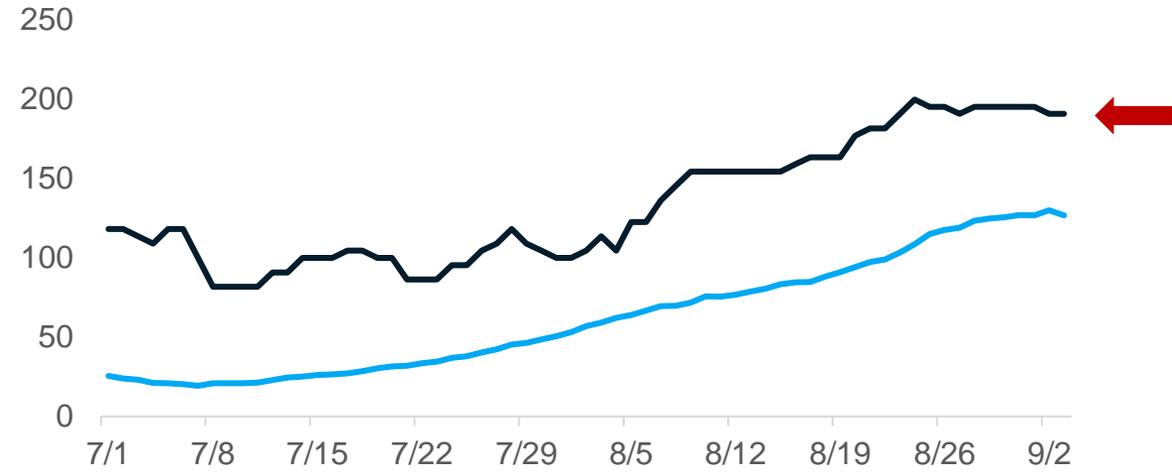
Daily new confirmed and probable cases per million (30-day rolling average) by race category

- American Indian/Alaska Native
- Black/African American
- Asian/Pacific Islander
- White



Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category

- Hispanic or Latino
- Not Hispanic or Latino



Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases. Source: MDHHS – Michigan Disease Surveillance System

Prior 28 Days Metrics By Race (Aug 3, 2021 – Aug 31, 2021)

RACE	% OF CASES	% OF DEATHS	% OF HOSPITALIZED CASES	CASES PER MIL.	DEATHS PER MIL.	HOSPITALIZED CASES PER MIL.
Known	81.8%	95.7%	92.6%	3,551.1	40.3	126.4
Unknown	18.2%	4.3%	7.4%	--	--	--
Any	--	--	--	4,343.5	42.1	136.4

KNOWN RACE ONLY	% OF POP	% OF CASES	% OF DEATHS	% OF HOSPITALIZED CASES	CASES PER MIL.	DEATHS PER MIL.	HOSPITALIZED CASES PER MIL.
American Indian / Alaskan Native	0.5%	1.1%	1.2%	0.7%	7,006.6	93.9	169.0
Asian	3.1%	1.5%	0.7%	1.0%	1,718.1	9.8	39.4
Black / African American	13.8%	10.7%	15.4%	13.5%	2,743.1	45.0	123.5
Hawaiian / Pacific Islander	< 0.1%	0.1%	--	0.1%	11,413.2	--	335.6
Multiple Race	2.8%	3.1%	3.0%	1.9%	3,813.6	42.2	84.5
Other	1.2%	5.4%	2.0%	3.7%	15,981.0	67.1	394.4
White	78.5%	78.3%	77.6%	79.1%	3,539.2	39.9	127.3

disparity present ⓘ

disparity present but based on small absolute numbers

Prior 28 Days Metrics By Ethnicity (Aug 3, 2021 – Aug 31, 2021)

ETHNICITY (HISPANIC) ⚙		% OF CASES ⚙	% OF DEATHS ⚙	% OF HOSPITALIZED CASES ⚙	CASES PER MIL. ⚙	DEATHS PER MIL. ⚙	HOSPITALIZED CASES PER MIL. ⚙
Known ⓘ		77.7%	93.8%	91.5%	3,374.6	39.5	124.9
Unknown ⓘ		22.3%	6.2%	8.5%	--	--	--
Any		--	--	--	4,343.5	42.1	136.4
KNOWN ETHNICITY ONLY ⚙	% OF POP ⚙	% OF CASES ⚙	% OF DEATHS ⚙	% OF HOSPITALIZED CASES ⚙	CASES PER MIL. ⚙	DEATHS PER MIL. ⚙	HOSPITALIZED CASES PER MIL. ⚙
Hispanic or Latino	5.0%	6.2%	2.8%	5.9%	4,157.4	22.0	148.6
Not Hispanic or Latino	95.0%	93.8%	97.2%	94.1%	3,333.4	40.4	123.6

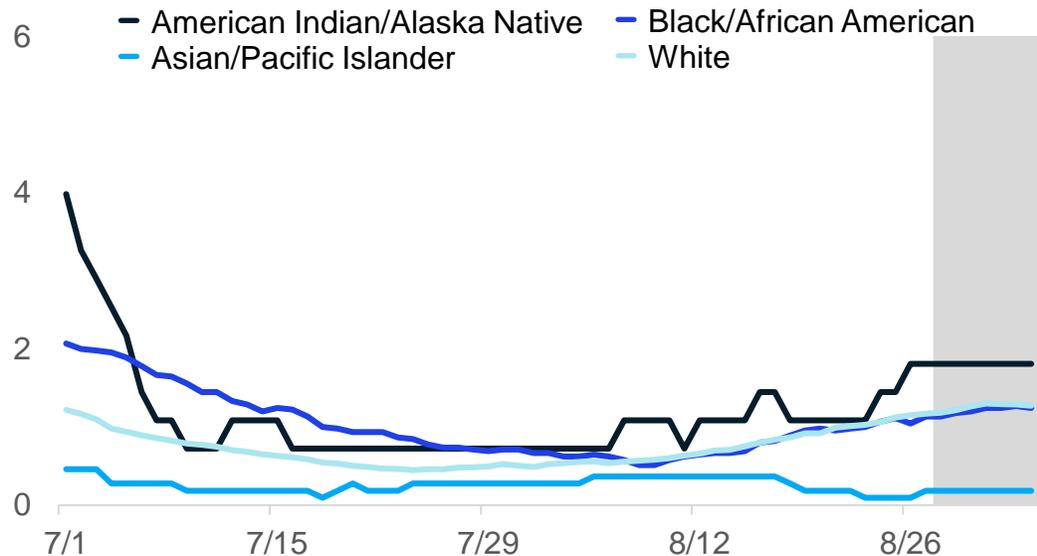
ETHNICITY (ARAB) ⚙		% OF CASES ⚙	% OF DEATHS ⚙	% OF HOSPITALIZED CASES ⚙
Known ⓘ		57.8%	55.7%	68.6%
Unknown ⓘ		42.2%	44.3%	31.4%
Any		--	--	--
KNOWN ETHNICITY ONLY ⚙		% OF CASES ⚙	% OF DEATHS ⚙	% OF HOSPITALIZED CASES ⚙
Arab Ethnicity		4.4%	3.4%	1.7%
Not Arab Ethnicity		95.6%	96.6%	98.3%

⚠ disparity present ⓘ

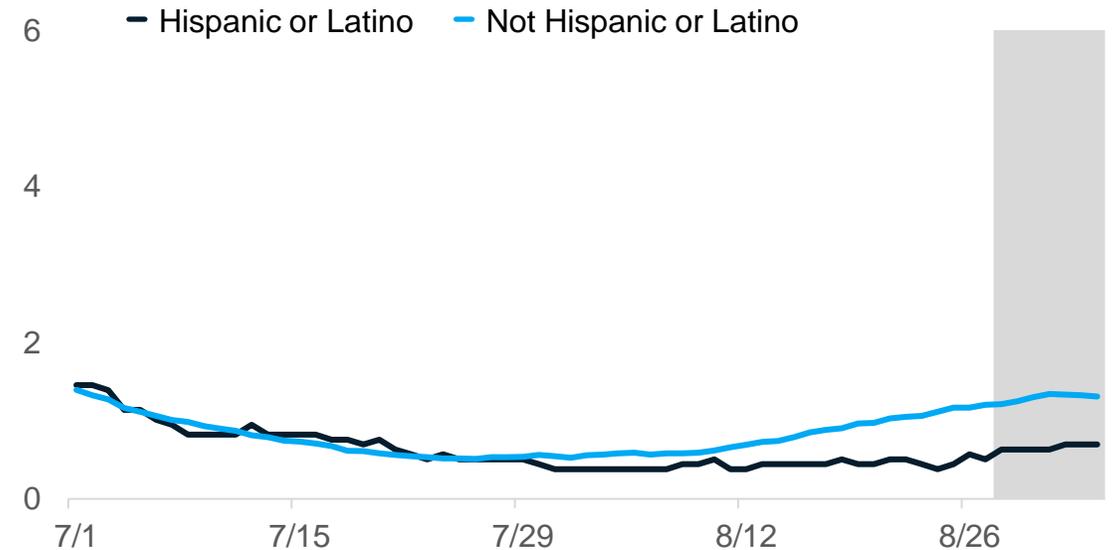
Population denominators are based on Census data, which does not include Arab ethnicity information. Because we do not have denominator data for Arab ethnicity, only a limited set of metrics can be shown.

30-day rolling average daily deaths per million people by race and ethnicity

Average daily deaths per million people by race



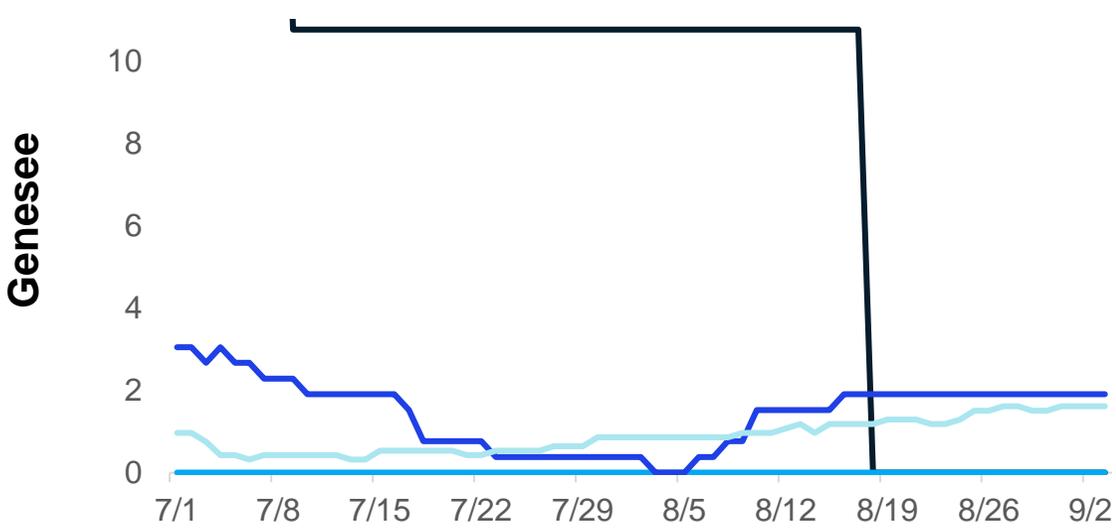
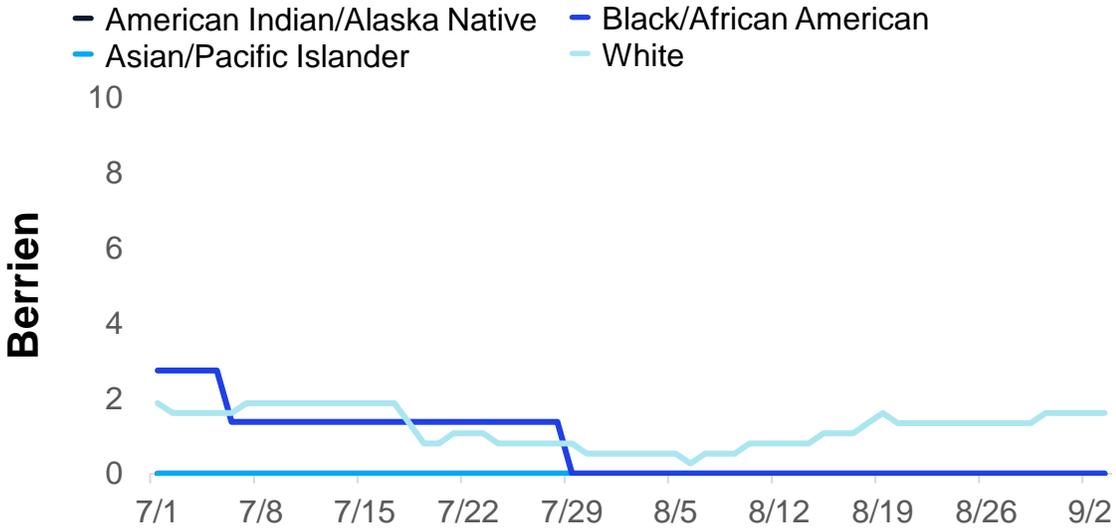
Average daily deaths per million people by ethnicity



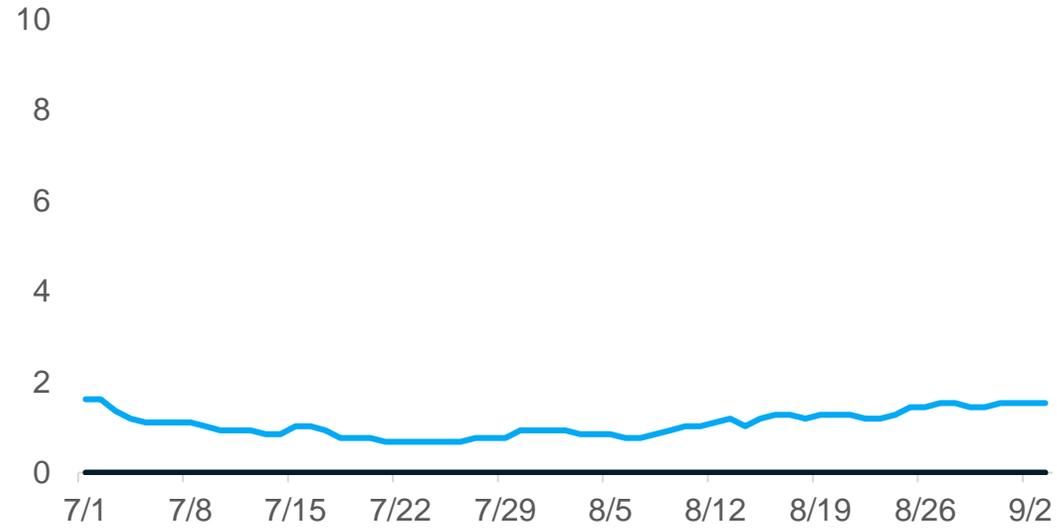
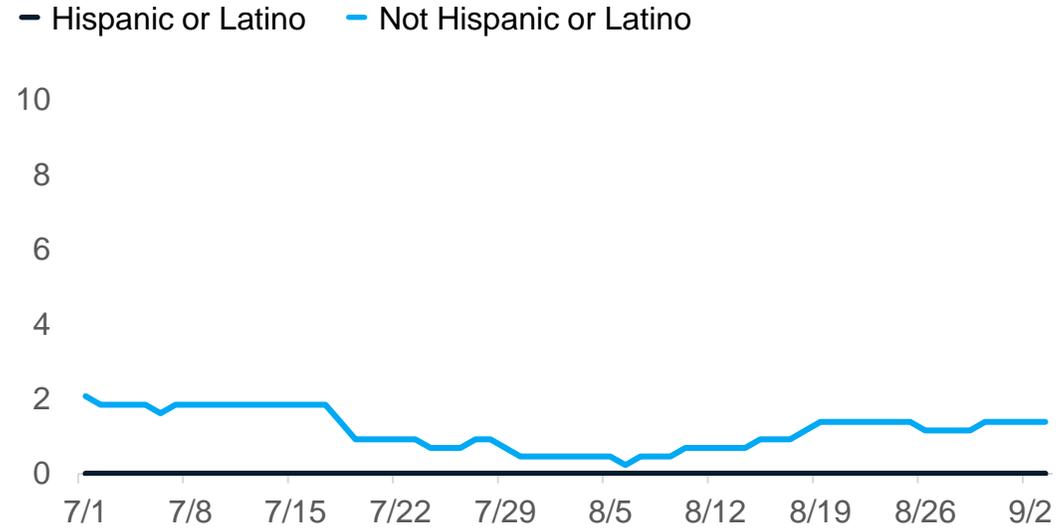
- Additional reviews of vital records death data were performed the weeks of 7/6 and 8/9 to search for race and ethnicity
- This review has resulted in an adjustment of deaths for American Indian and Alaskan Natives from previous weeks
- **Currently, American Indian/Alaskan Natives have the highest death rate**

Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race



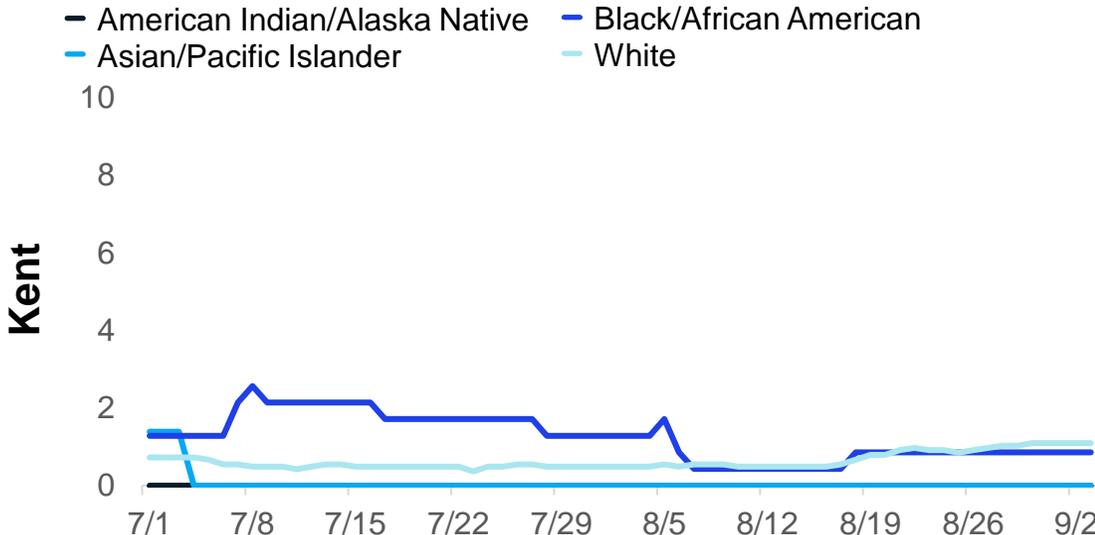
Deaths per million (30-day rolling avg) by ethnicity



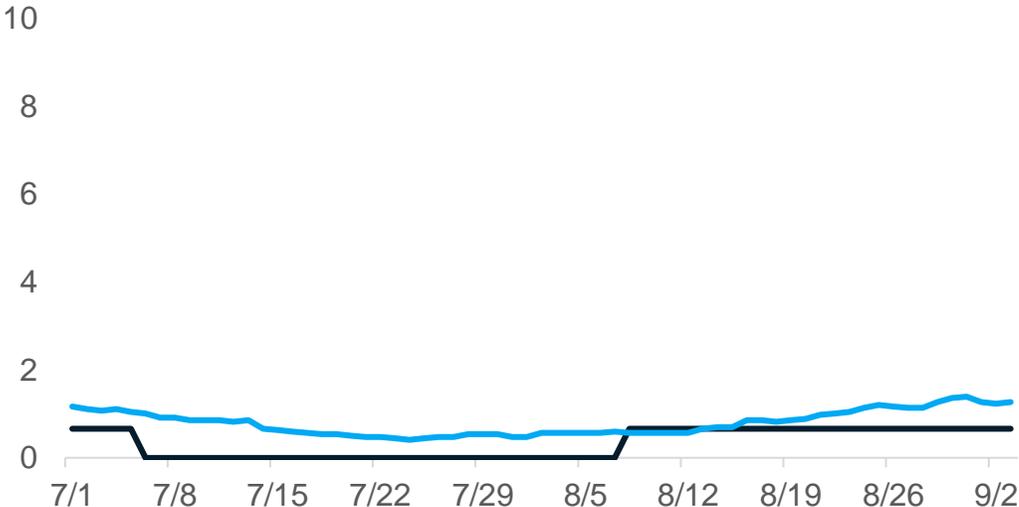
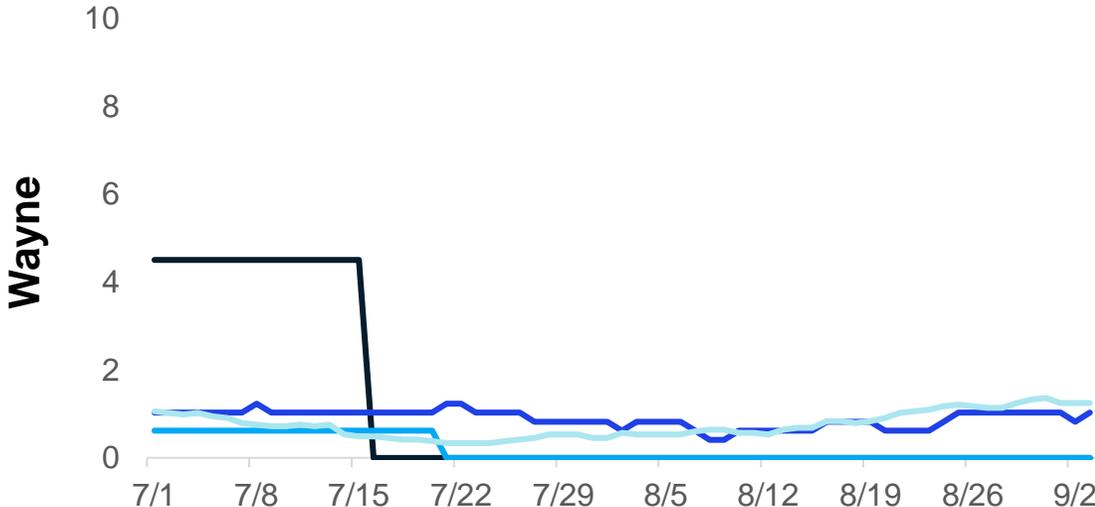
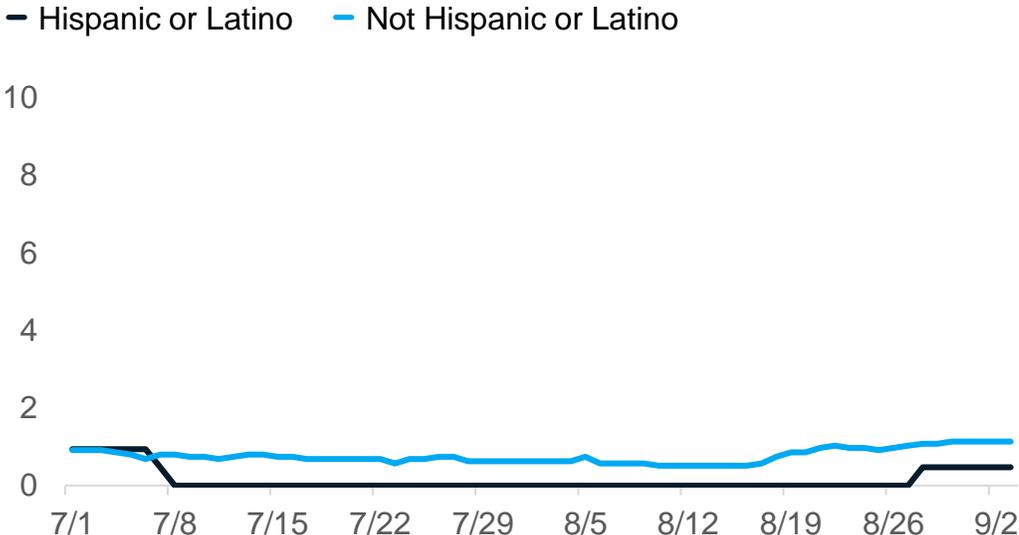
Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases. Source: MDHHS – Michigan Disease Surveillance System

Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race



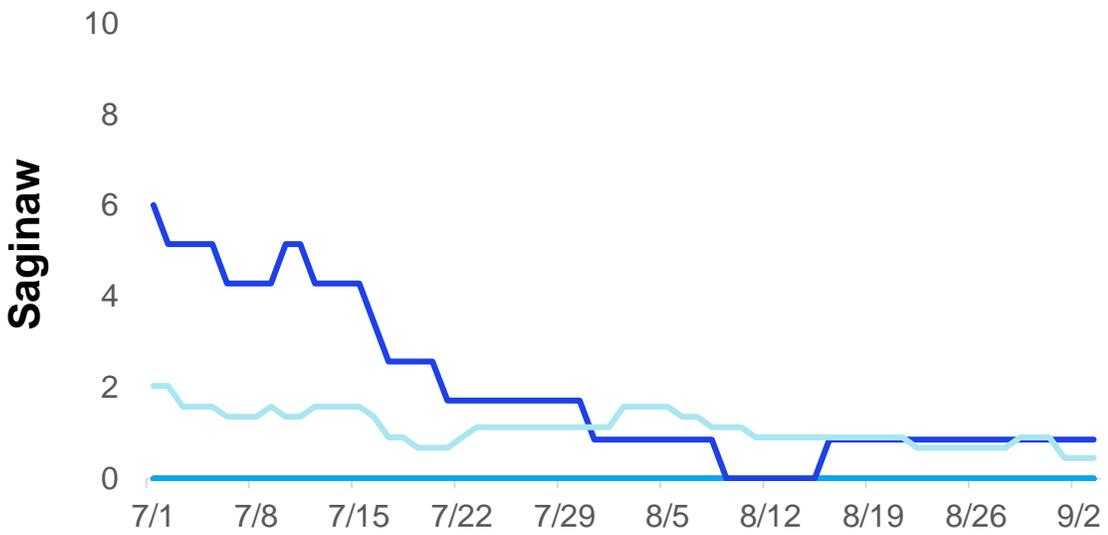
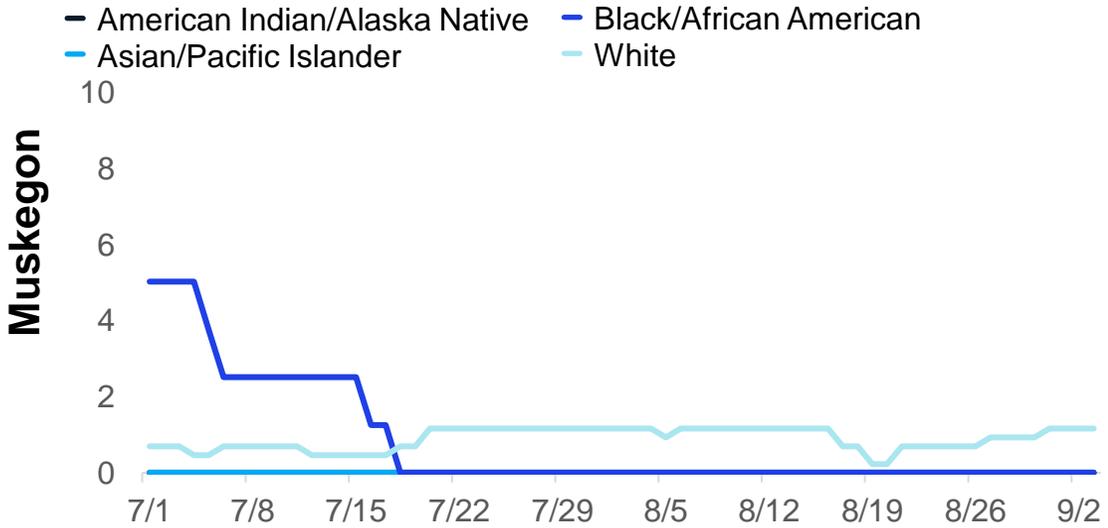
Deaths per million (30-day rolling avg) by ethnicity



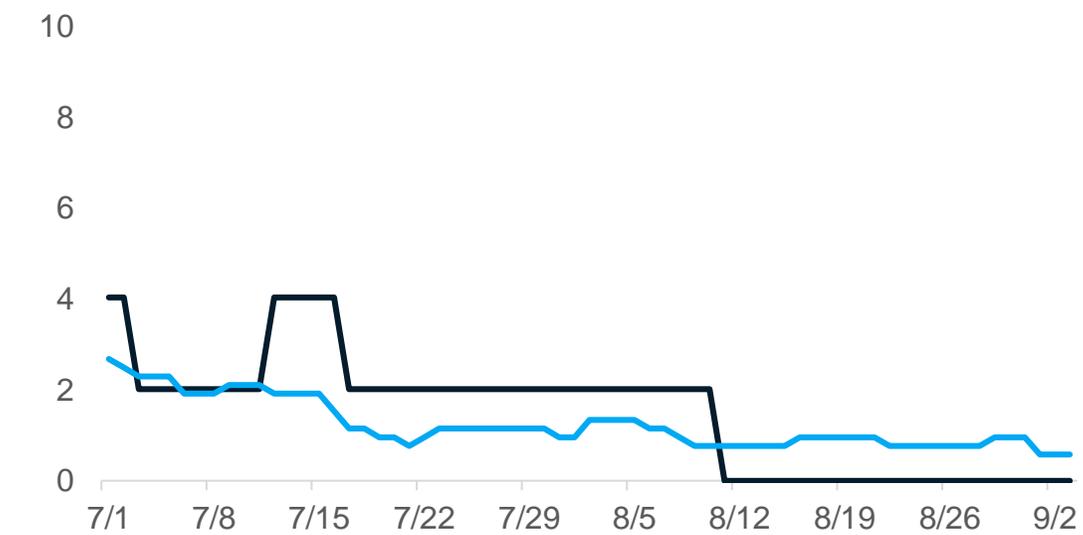
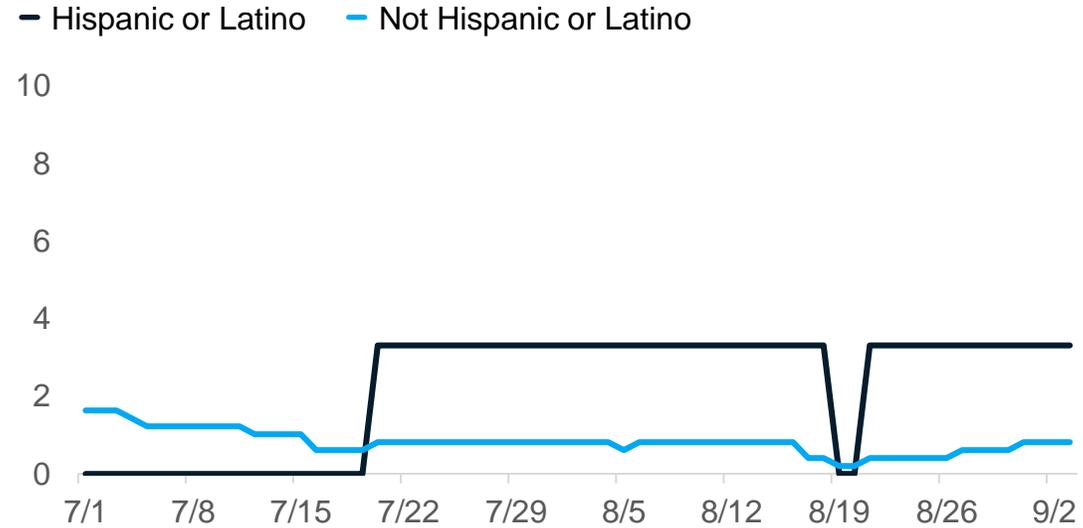
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Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race



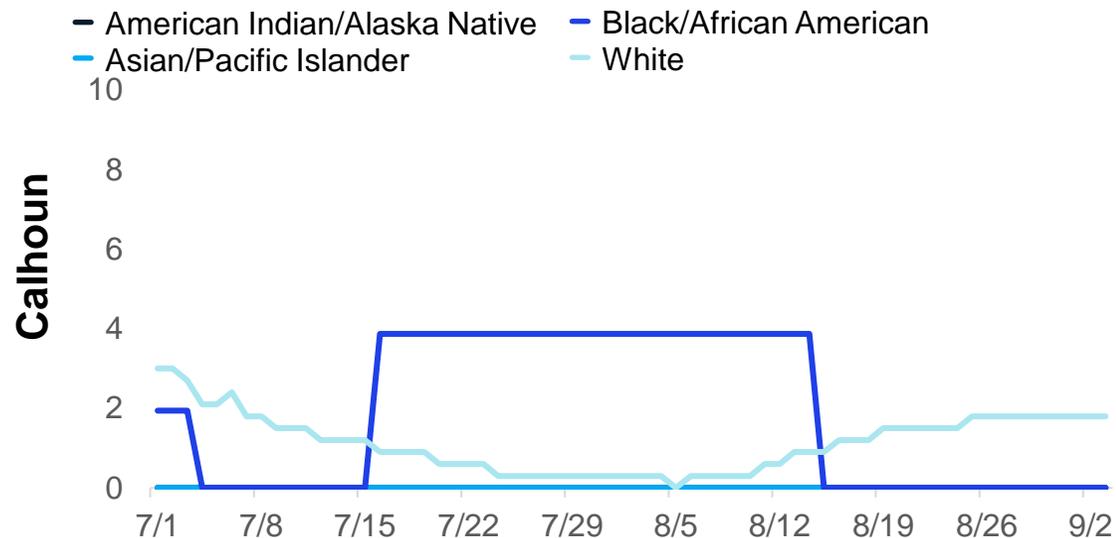
Deaths per million (30-day rolling avg) by ethnicity



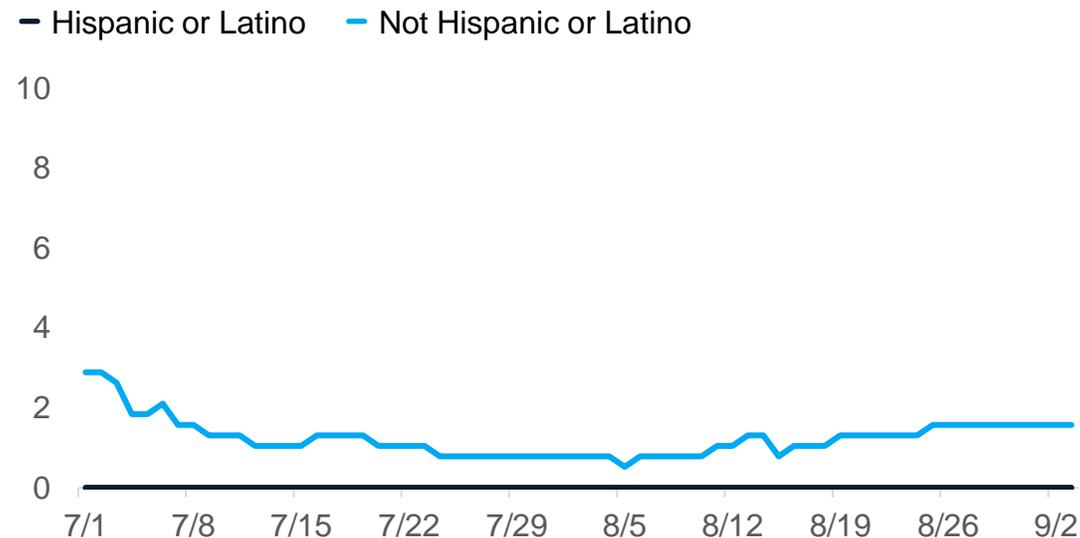
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Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race

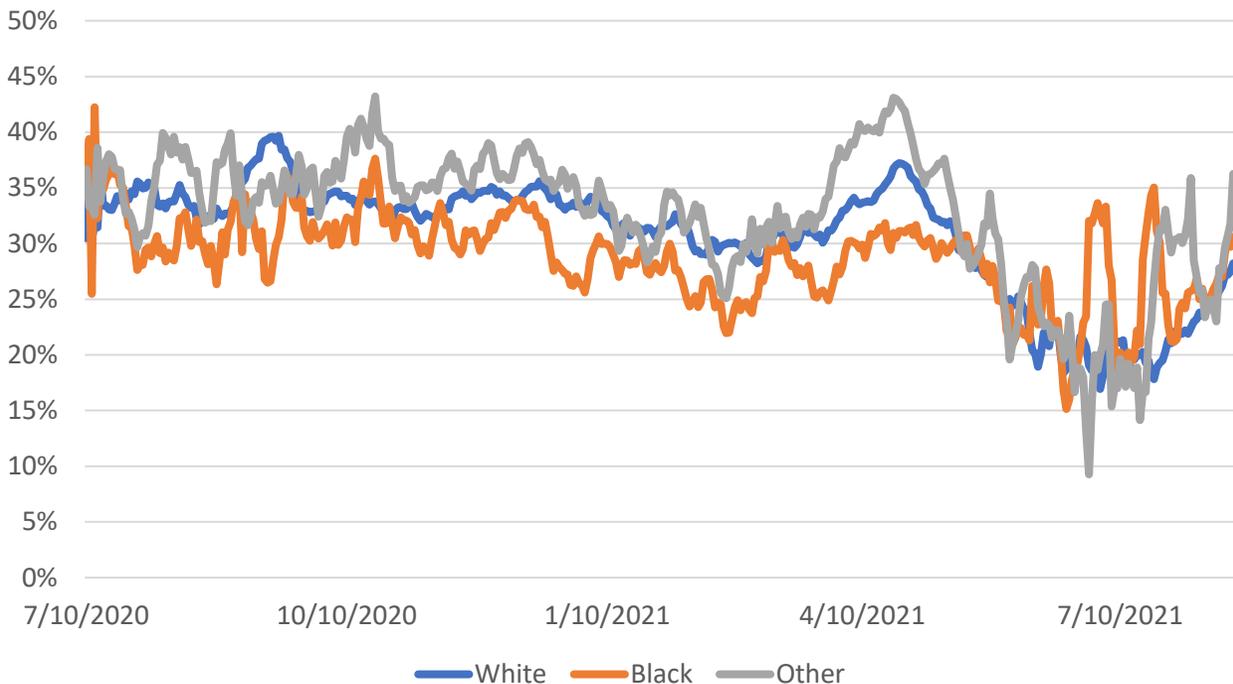


Deaths per million (30-day rolling avg) by ethnicity

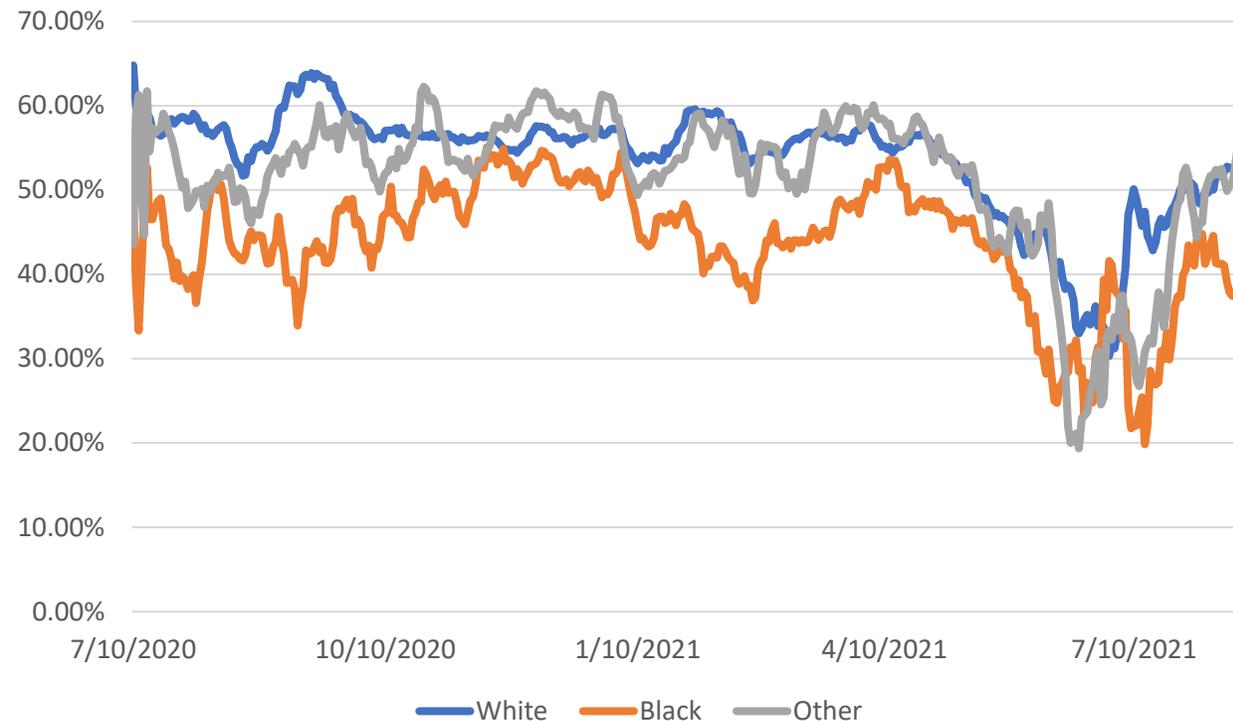


COVID-19 Case Investigation Metrics

% of Cases Quarantining at Symptom Onset by Race (7-day Moving Average)



% of Cases with Known Source of Exposure by Race (7-Day Moving Average)



Updates since last meeting:

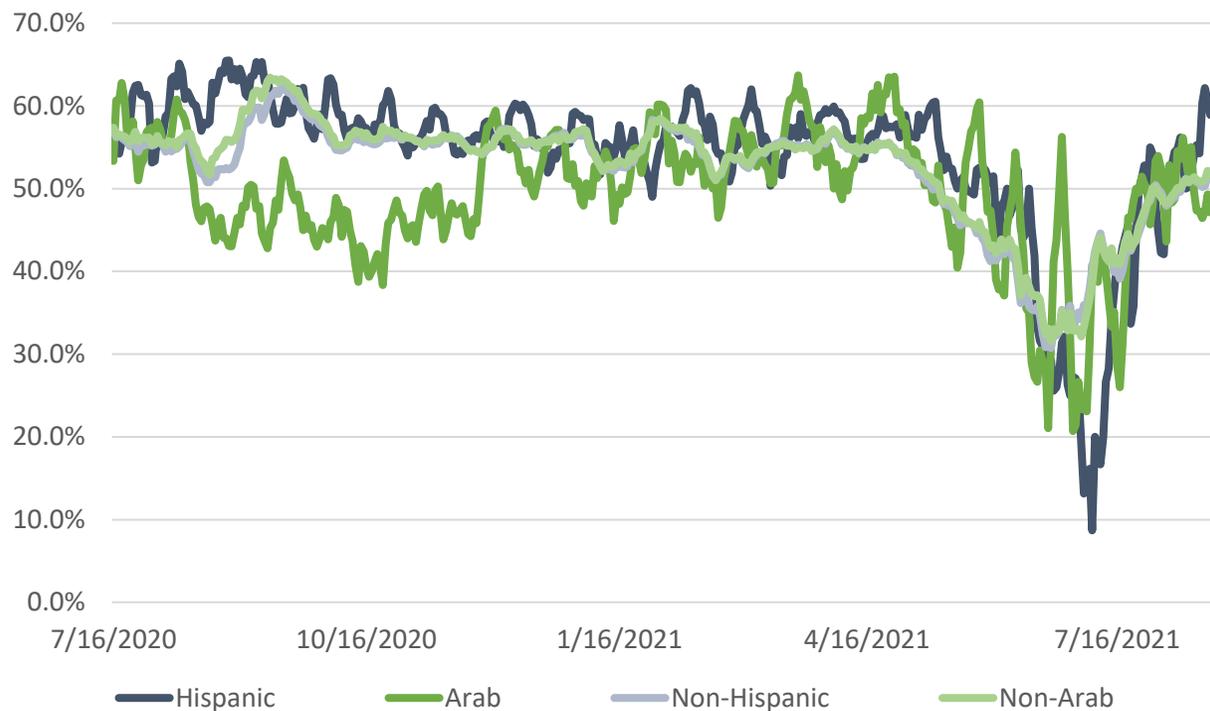
- Cases who are quarantining at symptom onset and who are aware of the source of infection are signals that case investigation and contract tracing resources are working successfully
- The sharp decline in June and July suggests the general public was no longer adhering to public health recommendations
- *Starting in August, more cases were returning to levels seen prior to June 2021*
- Data excludes those with blank or unknown race and ethnicity data

COVID-19 Case Investigation Metrics

% of Cases Quarantining at Symptom Onset by Race (7-day Moving Average)



% of Cases with Known Source of Exposure by Ethnicity (7-Day Moving Average)



Updates since last week:

- Cases who are quarantining at symptom onset and who are aware of the source of infection indicate that case investigation and contract tracing resources are working successfully
- The sharp decline in June and July suggests the general public was no longer adhering to public health recommendations
- *Starting in August, more cases were returning to levels seen prior to June 2021*
- Data excludes those with blank or unknown race and ethnicity data

Over 5 Million Michiganders fully vaccinated and 50.8% of total population fully vaccinated

5.07 million people in the state are fully vaccinated*

82.9% of people aged 65 and older have completed the series (+0.2%)*

55.5% of total population initiated (+0.3%)*

35,922 additional doses[†]

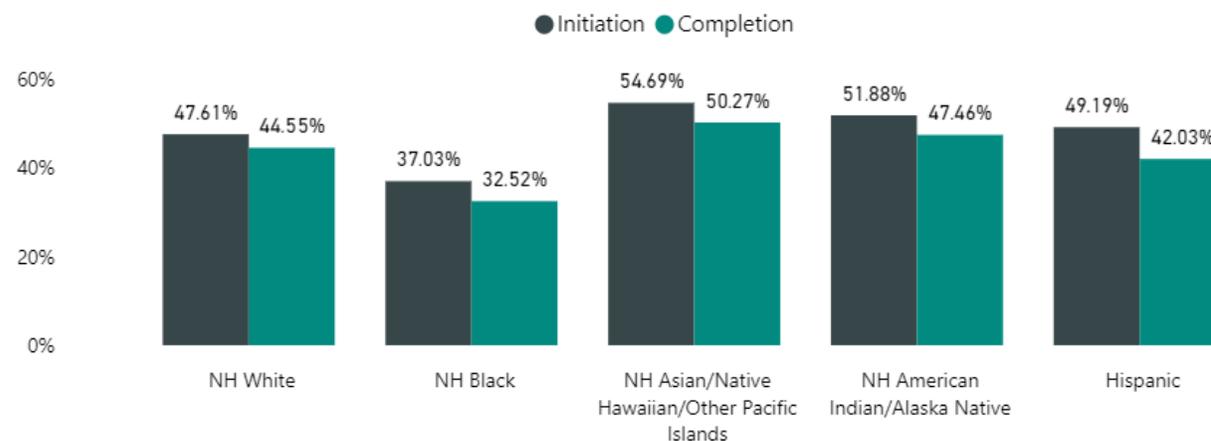
Race/Ethnicity^{††} for those 12 years and older:

- Initiation coverage highest among those of Non-Hispanic (NH) Asian, Native Hawaiian or Pacific Islander Race (54.7%), then NH American Indian (51.9%), NH White (47.6%), NH Black or African American Races (37.0%).
- Initiation is at 49.2% for those of Hispanic ethnicity
- Completion follows the same pattern
- 19.9% data missing or unknown

Vaccination Coverage in Michigan as of 9/5/21

Age Group	% At Least One Dose	% Fully Vaccinated	Number Fully Vaccinated
Total Population	55.5%	50.8%	5,070,925
≥ 12 years	64.5%	59.0%	5,070,818
≥ 18 years	66.7%	61.3%	4,808,320
≥ 65 years	87.3%	82.9%	1,463,203

Coverage by Race*



Berrien: vaccine coverage for all ages and races by census tract

COVID Vaccine Coverage

Dashboard Updated: September 7, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 5

Census Tracts

All

Preparedness Region

All

Person's County

Berrien

Person's LHD

All

Dose

Initiation

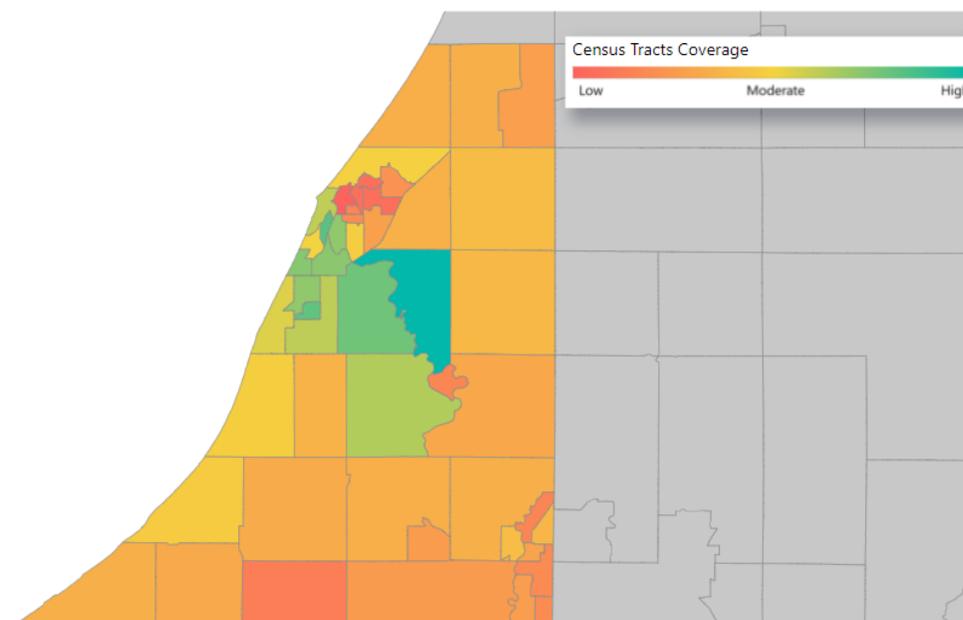
Census Tracts SVI

All

Age

18+ years

COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/11/2021

Coverage (% of Residents Vaccinated)

59%

Residents Vaccinated

70,603

MI Population*

9,957,488

*2019 US Census estimates

Calhoun County vaccine coverage by census tract

COVID Vaccine Coverage

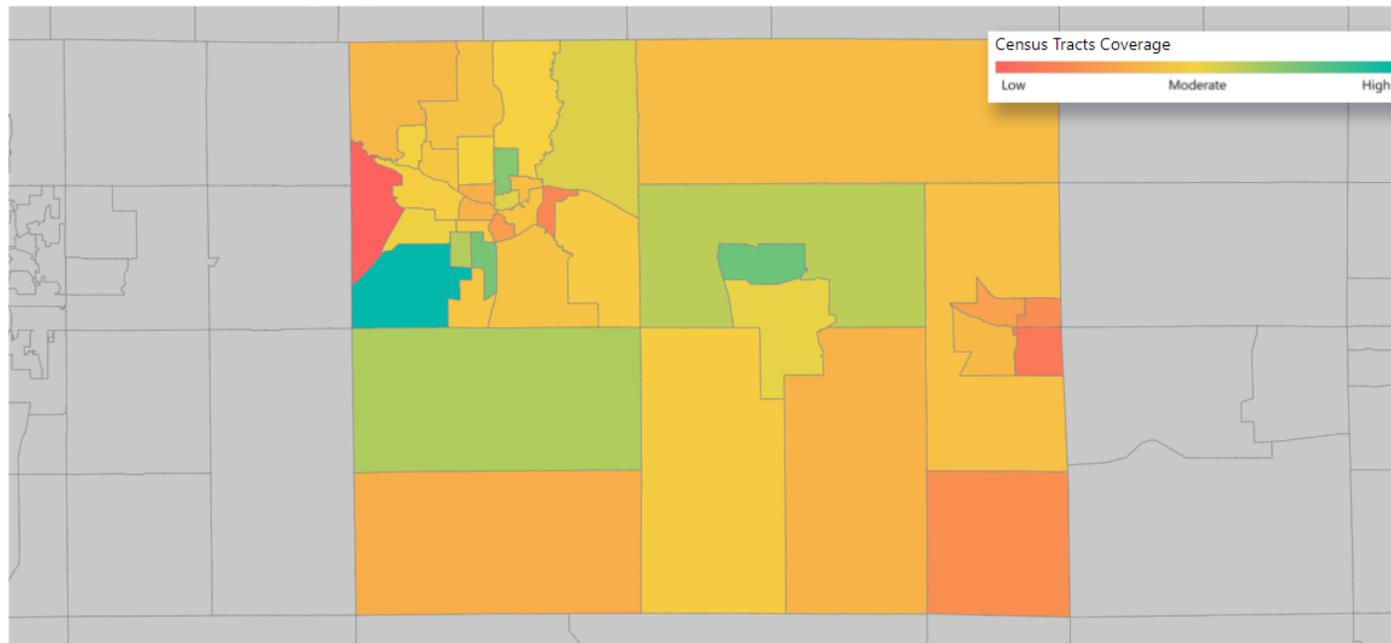
Dashboard Updated: September 7, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 5

Census Tracts: All | Preparedness Region: All | Person's County: Calhoun | Person's LHD: All | Dose: Initiation | Census Tracts SVI: All | Age: 18+ years

COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020 | 9/11/2021

Coverage (% of Residents Vaccinated)

56%

Residents Vaccinated

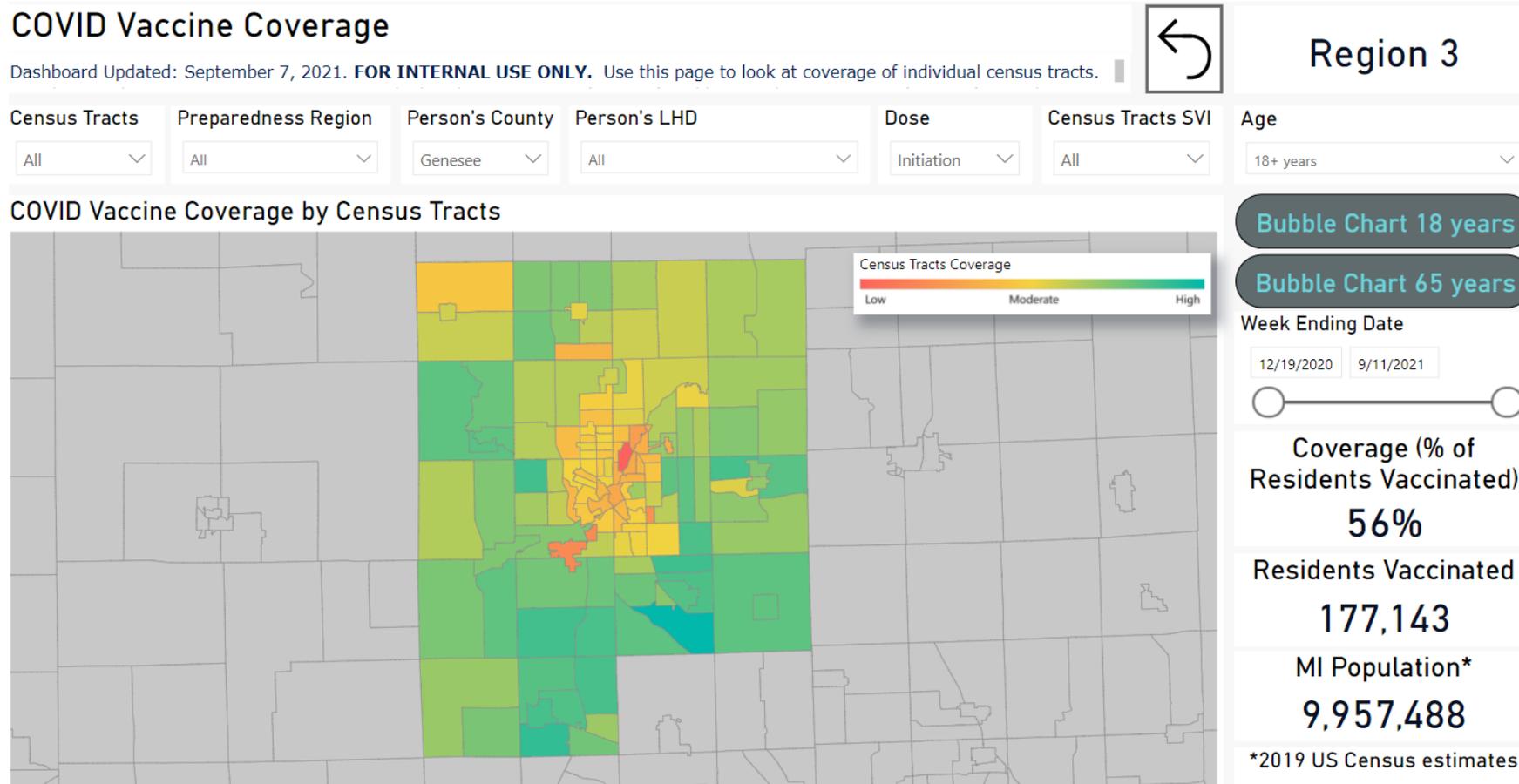
57,554

MI Population*

9,957,488

*2019 US Census estimates

Genesee County vaccine completion by census tract



Kent County vaccine coverage by census tract

COVID Vaccine Coverage

Dashboard Updated: September 7, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 6

Census Tracts

All

Preparedness Region

All

Person's County

Kent

Person's LHD

All

Dose

Initiation

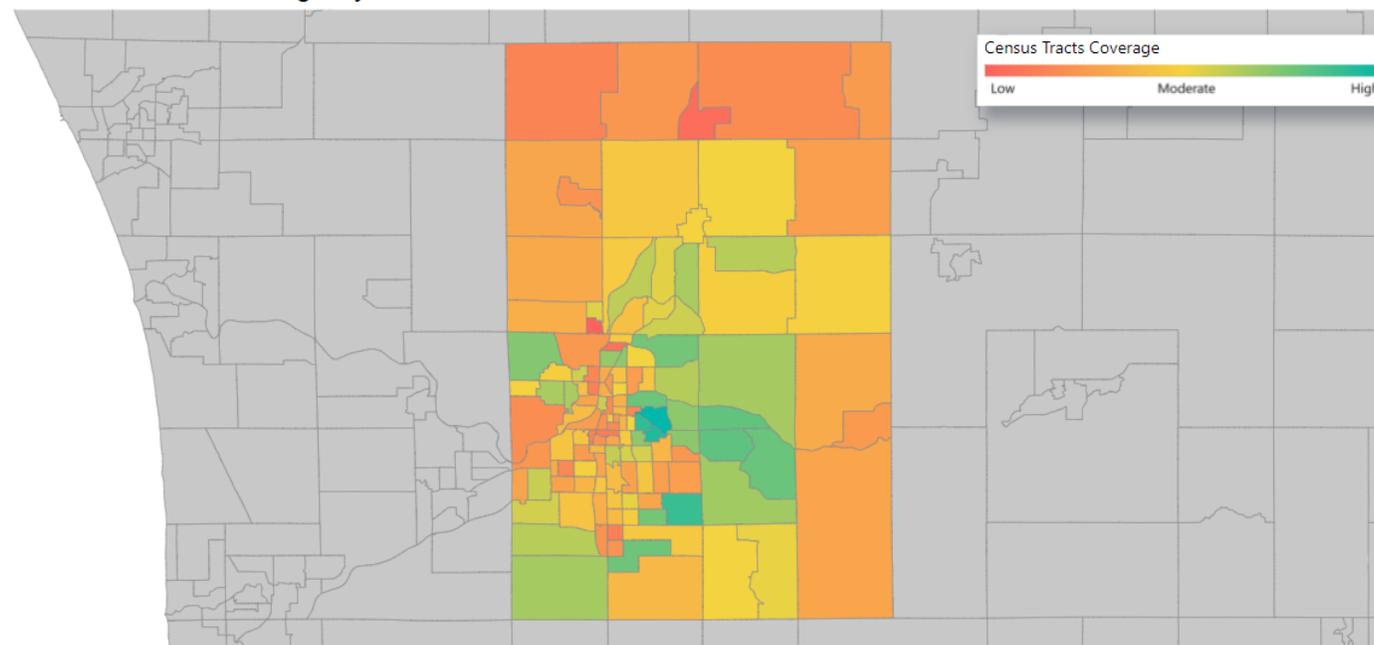
Census Tracts SVI

All

Age

18+ years

COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/11/2021

Coverage (% of Residents Vaccinated)

71%

Residents Vaccinated

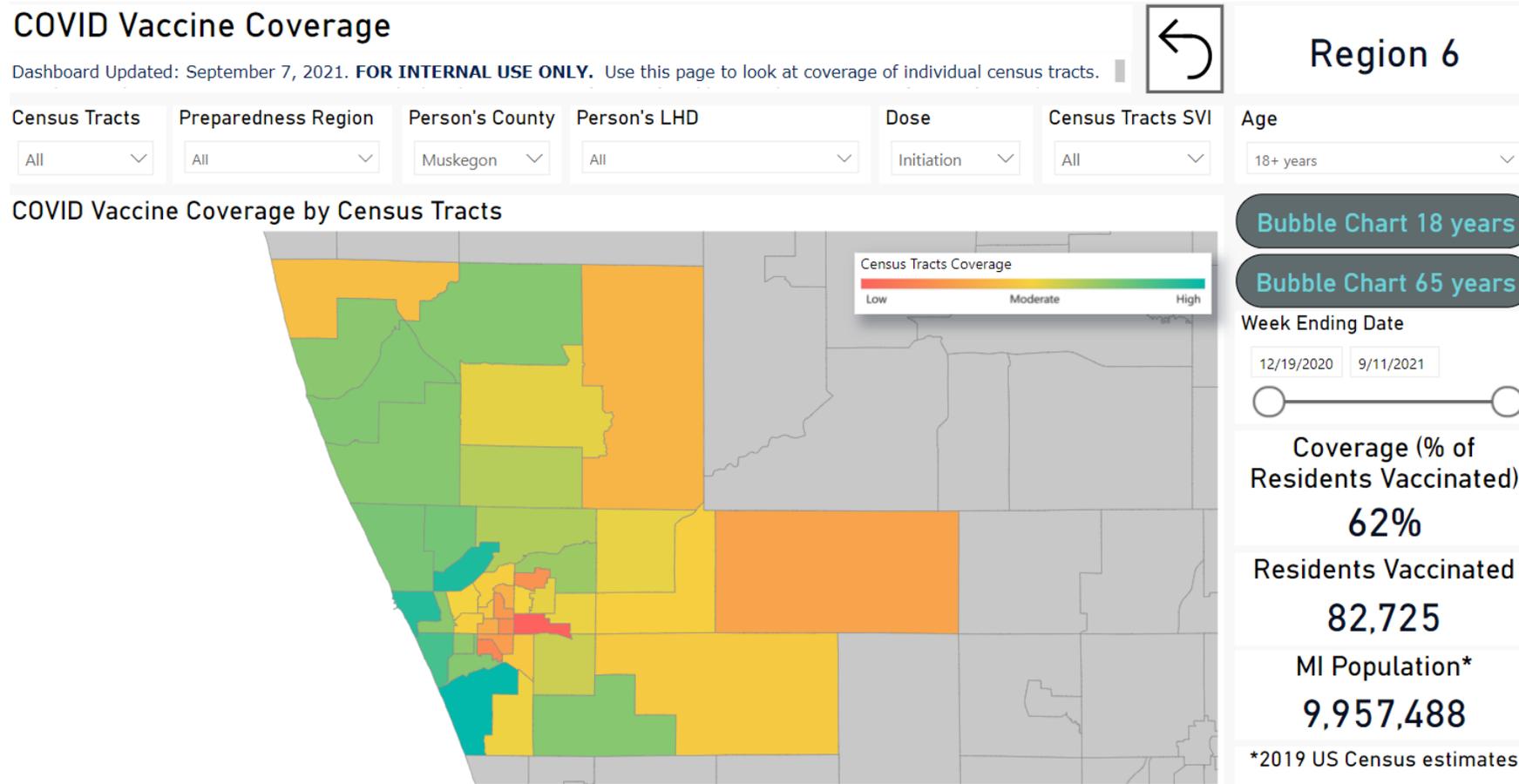
344,381

MI Population*

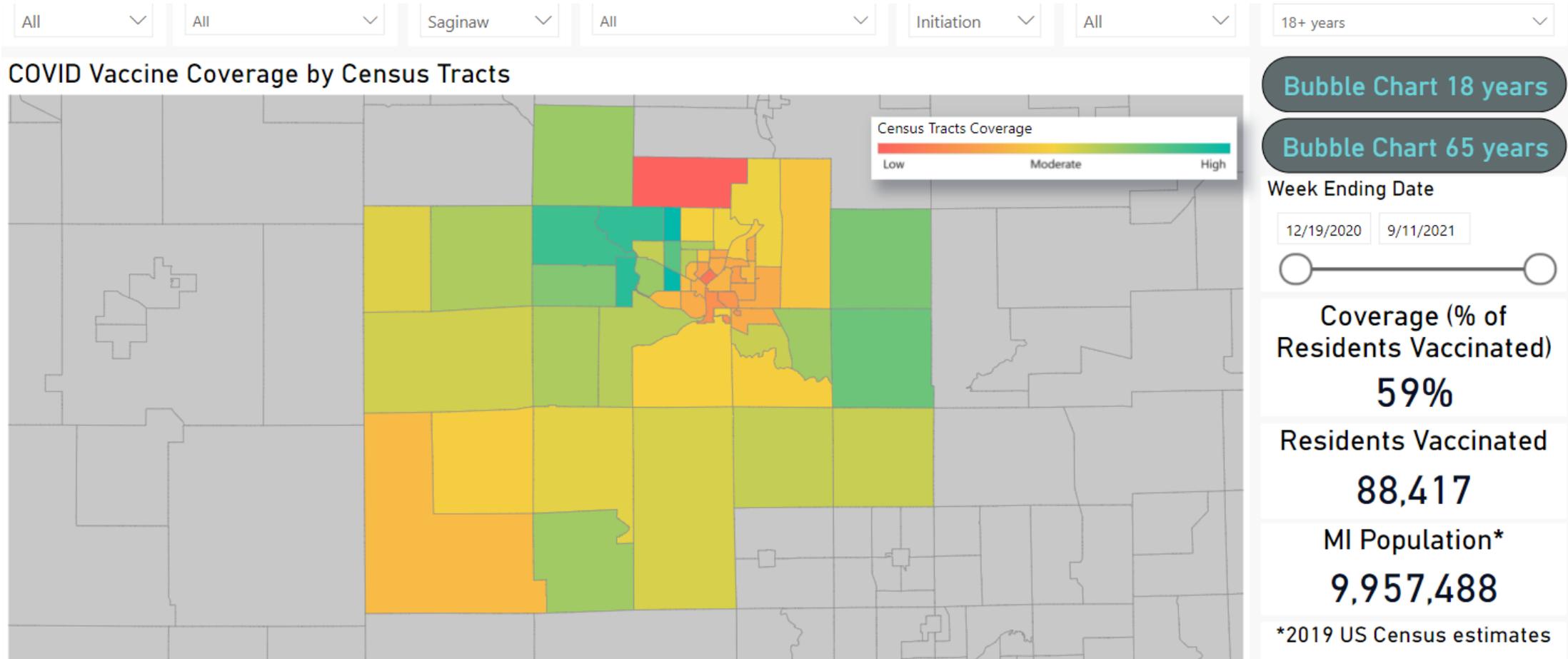
9,957,488

*2019 US Census estimates

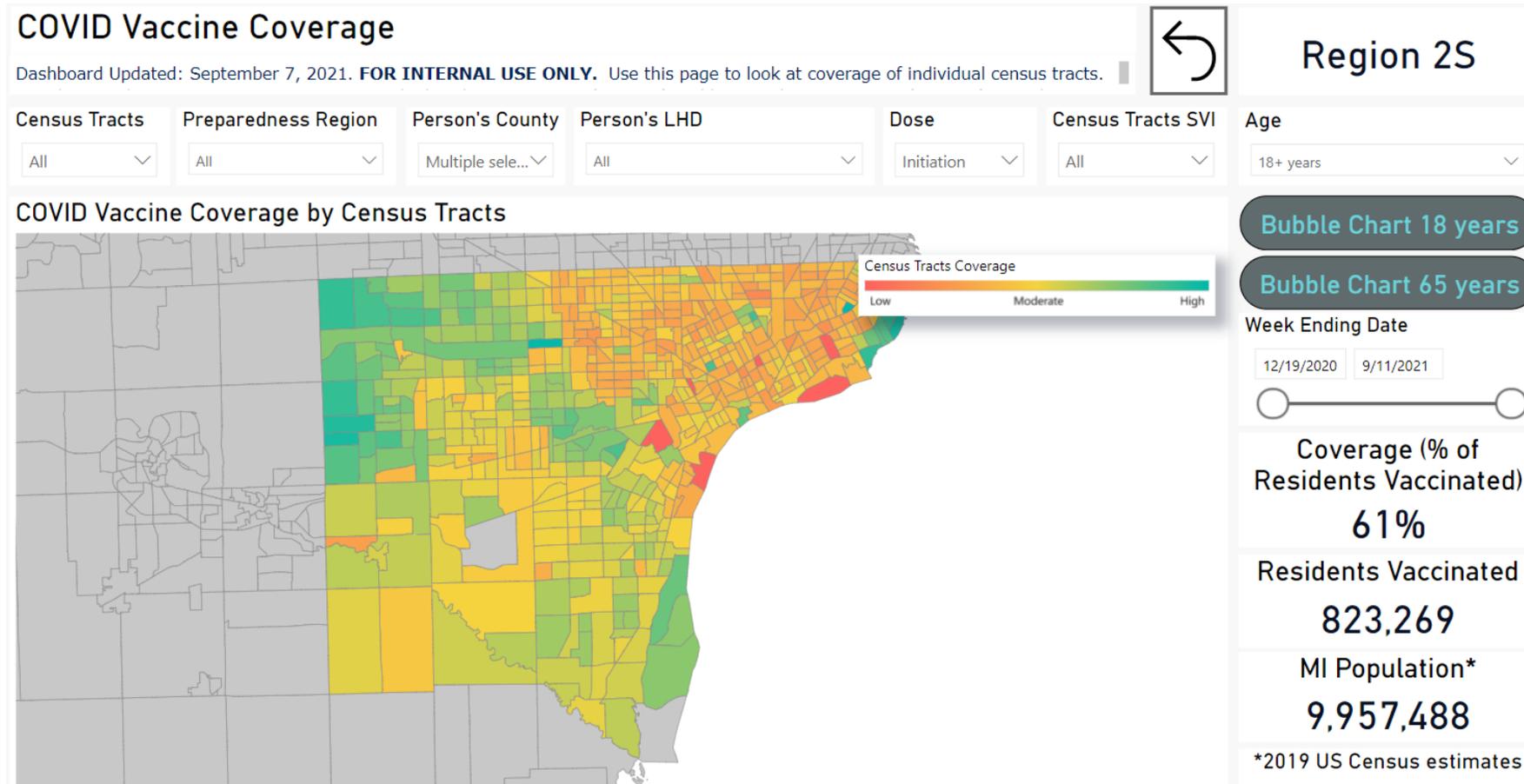
Muskegon County vaccine coverage by census tract



Saginaw County vaccine coverage by census tract



Wayne County (including Detroit) vaccine completion by census tract



Michigan: vaccine coverage for all ages and races by census tract

COVID Vaccine Coverage

Dashboard Updated: September 7, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Michigan

Census Tracts

All

Preparedness Region

All

Person's County

All

Person's LHD

All

Dose

Initiation

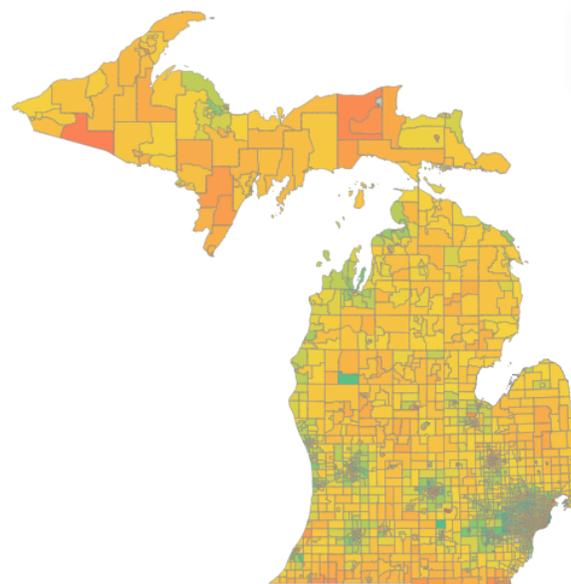
Census Tracts SVI

All

Age

18+ years

COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/11/2021

Coverage (% of Residents Vaccinated)

63%

Residents Vaccinated

4,924,983

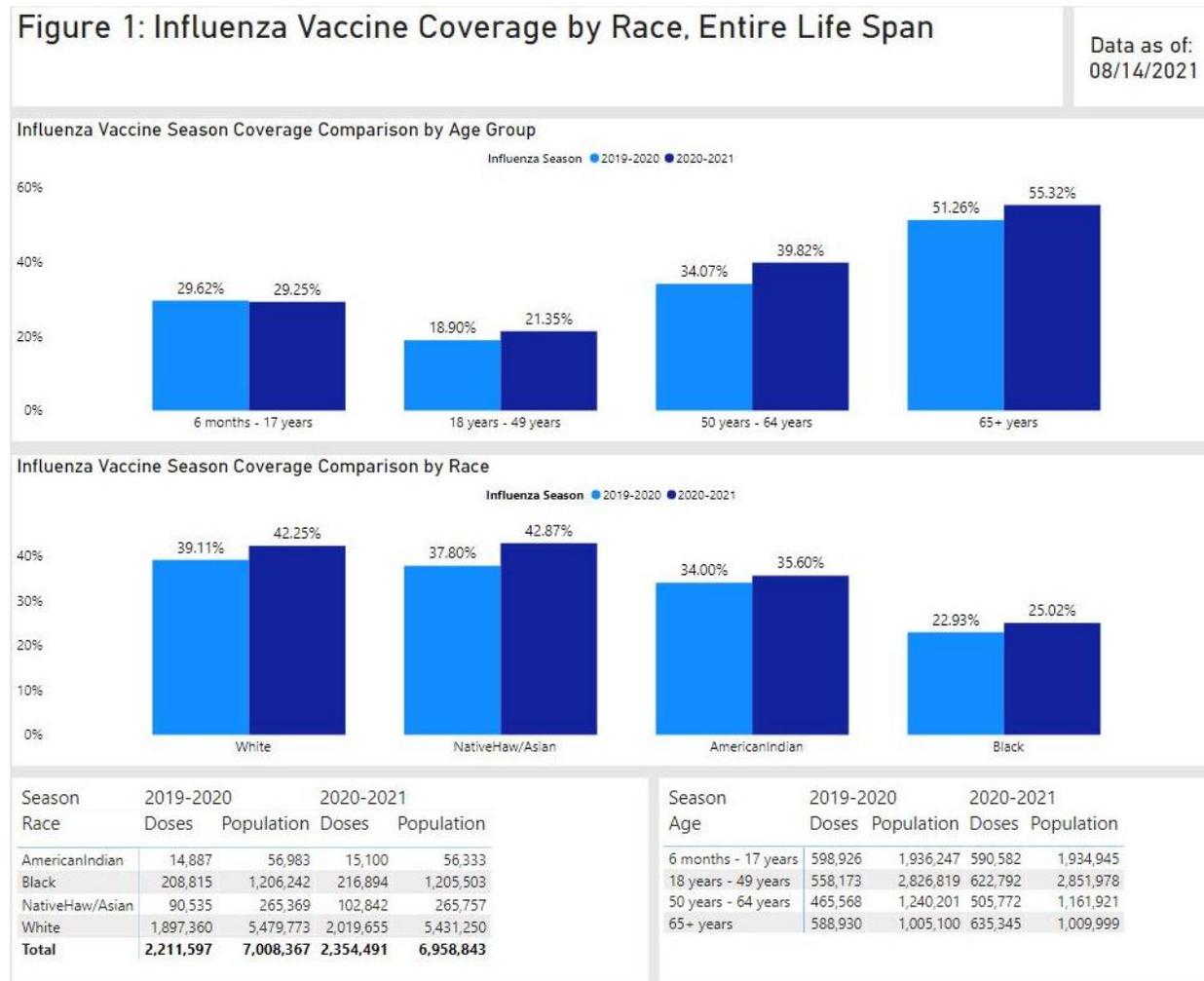
MI Population*

9,957,488

*2019 US Census estimates

Disparities in influenza vaccine coverage by race – 2020-2021 flu year

- Comparison of influenza vaccination coverage for children, adolescents, and adults in 2020-2021 season and 2019-2020 season
- There was an increase in flu vaccination coverage in 2020-2021 as compared to 2019-2020 **for all the races across all age groups**
 - Overall increase in influenza vaccine coverage across all races is in line with a statewide increase of 7%
 - Coverage rates were disproportionately lower in Blacks as compared to other races
- Most pediatric populations saw similar or slight declines in influenza vaccination coverage

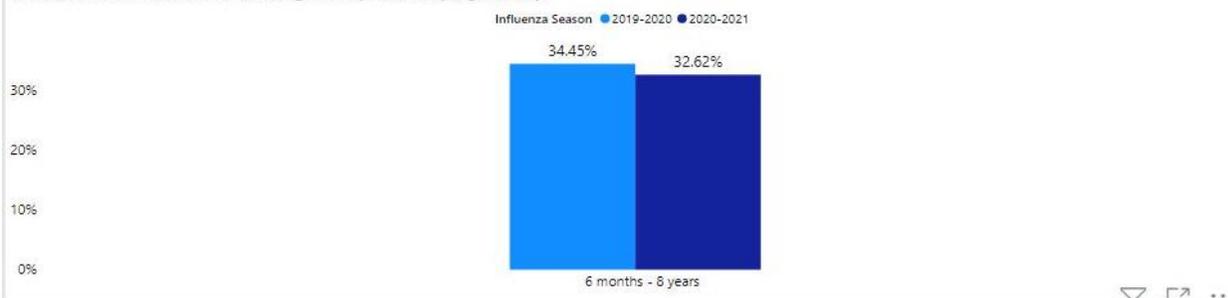


Disparities in pediatric influenza vaccine coverage by race – 2020-2021 flu year

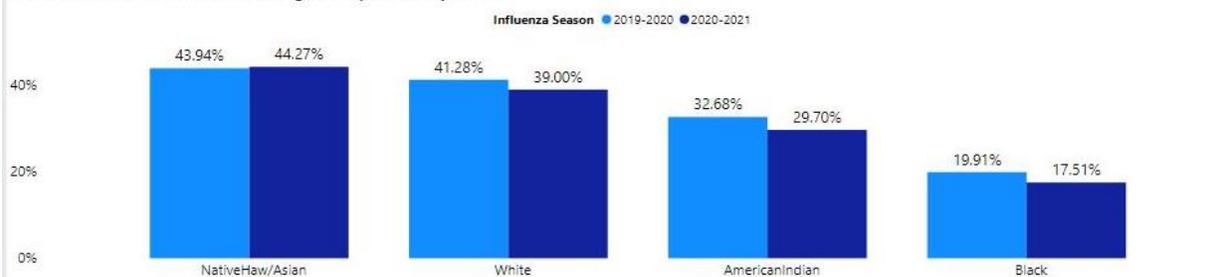
Figure 2: Influenza Vaccine Coverage, Children 6 months through 8 years of age, by Mother's Race

Data as of: 08/14/2021

Influenza Vaccine Season Coverage Comparison by Age Group



Influenza Vaccine Season Coverage Comparison by Race



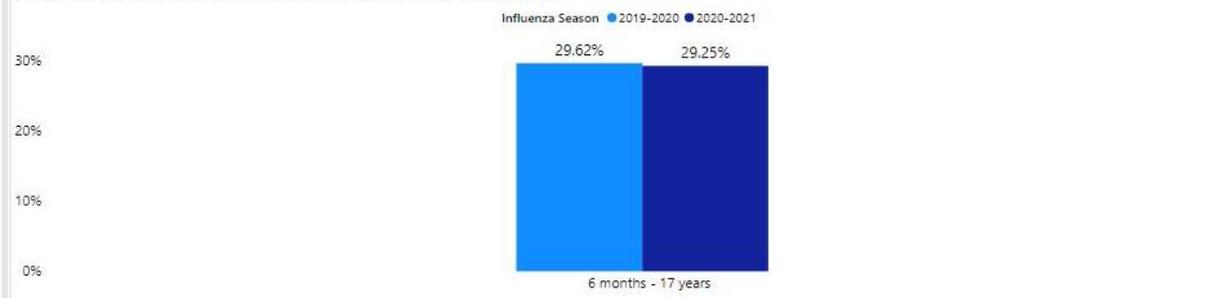
Season	2019-2020		2020-2021	
	Doses	Population	Doses	Population
AmericanIndian	1,482	4,535	1,315	4,427
Black	32,615	163,808	28,626	163,458
NativeHaw/Asian	25,294	57,564	23,959	54,115
White	256,484	621,321	240,075	615,574
Total	315,875	847,228	293,975	837,574

Season	2019-2020		2020-2021	
	Doses	Population	Doses	Population
6 months - 8 years	315,875	847,228	293,975	837,574

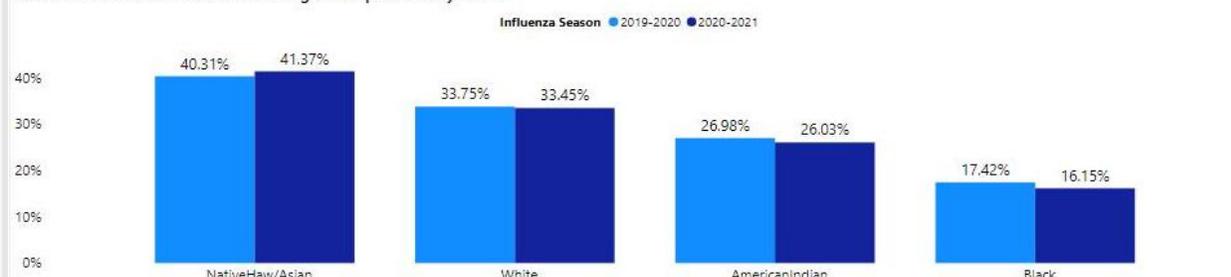
Figure 3: Influenza Vaccine Coverage by Race, Child and Adolescent Age Group

Data as of: 08/14/2021

Influenza Vaccine Season Coverage Comparison by Age Group



Influenza Vaccine Season Coverage Comparison by Race



Season	2019-2020		2020-2021	
	Doses	Population	Doses	Population
AmericanIndian	3,385	12,547	3,125	12,006
Black	64,688	371,291	59,914	371,075
NativeHaw/Asian	42,217	104,721	43,894	106,107
White	488,636	1,447,688	483,649	1,445,757
Total	598,926	1,936,247	590,582	1,934,945

Season	2019-2020		2020-2021	
	Doses	Population	Doses	Population
6 months - 17 years	598,926	1,936,247	590,582	1,934,945

Special Section: COVID-19 and pediatric populations

Number of Cases and Case Rates are Increasing for Most Age Groups

Daily new confirmed and probable cases per million by age group (7-day rolling average)

Age Group	Average [†] daily cases	Average [†] Daily Case Rate	One Week % Change (Δ #)
0-9	147.3	127.8	28% (+32)
10-19	210.9	168.0	8% (+15)
20-29	300.0	217.5	9% (+24)
30-39	278.1	229.3	7% (+18)
40-49	218.4	185.2	5% (+10)
50-59	224.9	166.5	13% (+27)
60-69	163.7	128.3	5% (+7)
70-79	97.0	126.5	14% (-12)
80+	42.1	101.7	1% (+1-5)
Total [¶]	1694.6	169.2	12% (+150)

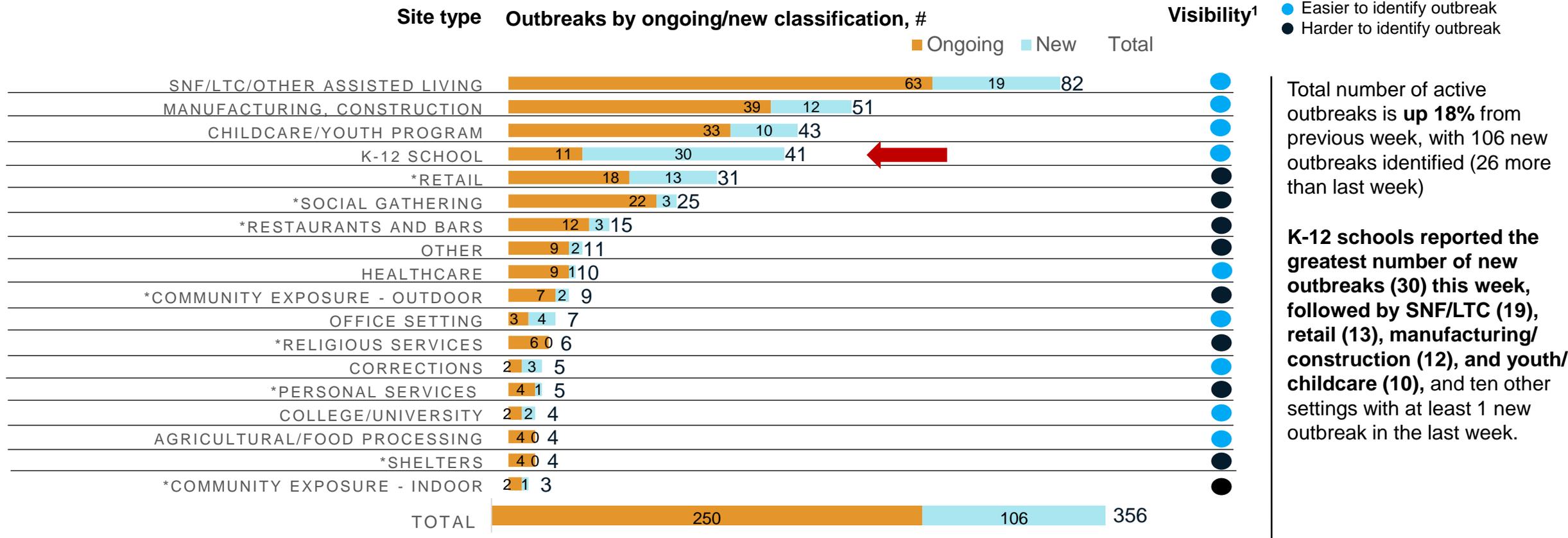
- Largest one-week growth among those under 10 years of age
- Average daily number of cases (300.0) is highest for those aged 20-29
- Avg. daily case rate (229.3 cases/mil) is currently highest for 30-39
- Case rates for all age groups are between 100-230 cases per million
- Case rate trends are increasing for all age groups
- Case rates bottomed out on June 26, 2021

[†] Rolling 7-day average; [¶] Total may not reflect state due to missing age data
 Note: Case information sourced from MDHHS and reflects date of onset of symptoms
 Source: MDHHS – Michigan Disease Surveillance System
 Data through 9/3/2020



Number of Outbreaks Reported has Increased

Number of outbreak investigations by site type, week ending Sep 2



Total number of active outbreaks is **up 18%** from previous week, with 106 new outbreaks identified (26 more than last week)

K-12 schools reported the greatest number of new outbreaks (30) this week, followed by SNF/LTC (19), retail (13), manufacturing/construction (12), and youth/childcare (10), and ten other settings with at least 1 new outbreak in the last week.

1. Based on a setting's level of control and the extent of time patrons/residents spend in the particular setting, different settings have differing levels of ability to ascertain whether a case derived from that setting

NOTE: Many factors, including the lack of ability to conduct effective contact tracing in certain settings, may result in significant underreporting of outbreaks. This chart does not provide a complete picture of outbreaks in Michigan and the absence of identified outbreaks in a particular setting in no way provides evidence that, in fact, that setting is not having outbreaks.

Source: LHD Weekly Sitreps



K-12 school outbreaks, recent and ongoing, week ending Sep 2

Number of reported outbreaks increased since last week (11 to 41), including increases in High Schools (7 to 14), Middle/Jr High (0 to 6), Pre K-Elementary (3 to 19), and Administrative (1 to 2).

Region	Number of reported cases, #	# Ongoing - Excluding New	# New	Number of outbreaks	Range of cases per outbreak
Region 1	31	45		14	2-14
Region 2n	2	9		4	2-4
Region 2s	-	11		3	2-6
Region 3	6	65		9	2-23
Region 5	6	5		4	2-4
Region 6	0	14		4	2-6
Region 7	0	0		0	0-0
Region 8	4	5		3	2-5
Total	49	154		41	2-23

Grade level	Number of reported cases, #	# Ongoing - Excluding New	# New	Number of outbreaks	Range of cases per outbreak
Pre-school - elem.	1	93		19	2-23
Jr. high/middle school	0	31		6	2-10
High school	3	25		14	2-14
Administrative	5	2		2	2-5
Total	9	151		41	2-23

Many factors, including the lack of ability to conduct effective contact tracing in certain settings, may result in significant underreporting of outbreaks. This chart does not provide a complete picture of outbreaks in Michigan and the absence of identified outbreaks in a particular setting in no way provides evidence that, in fact, that setting is not having outbreaks.

Source: LHD Weekly Sitreps

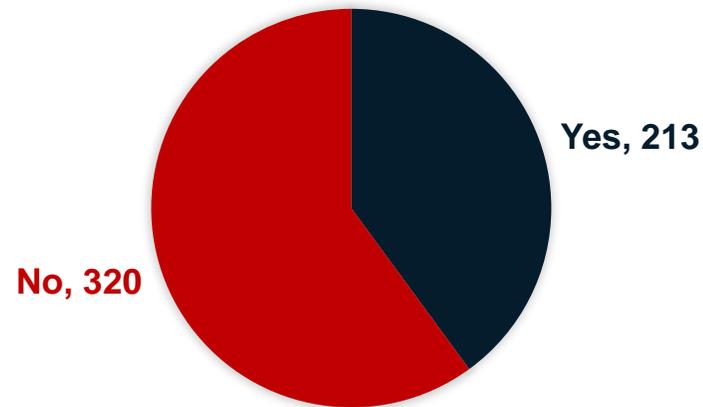


MI School Districts and Mask Policy as of August 30, 2021

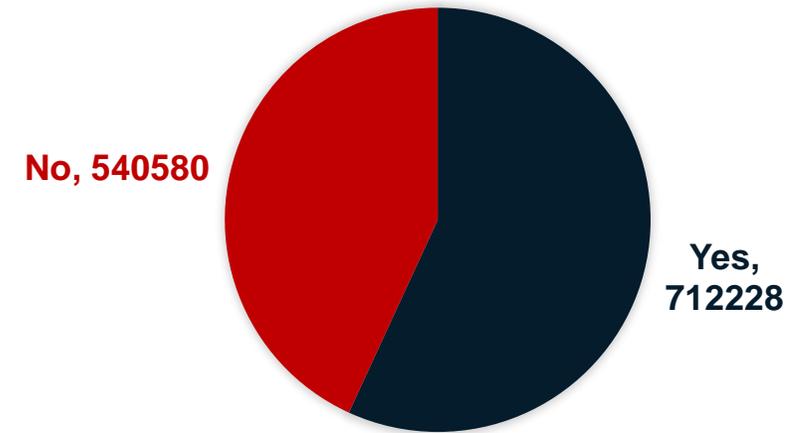
Yes – Any masking policy in some subset of school grades

No – No mask policies (includes unknown)

NUMBER OF SCHOOL DISTRICTS
WITH MASK MANDATES IN K-12
SETTING



NUMBER OF STUDENTS* IN K-12
SCHOOLS WITH MASK MANDATES



- 40% (213/533) of school districts have mandatory mask policy for students in all K-12 grades
- School districts with mandatory mask policies for all grades K-12 cover 57% (712,228/1,252,808) of all students*

* Student size based on school enrollment numbers; Buses and public transportation are federally required to enforce mask mandates

Source: Executive Office of Governor School District Mask Policy

National Comparison

Spread

Severity

Public Health
Response

Other
Indicators

Science
Round-up

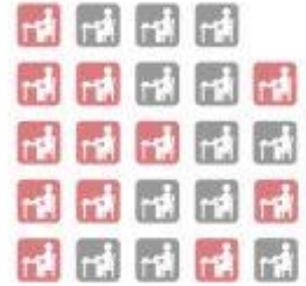
Outbreak Associated with SARS-CoV-2 B.1.617.2 (Delta) Variant in an Elementary School

The Delta variant spreads easily in indoor spaces when people are unmasked and unvaccinated

Occasionally unmasked adult infected with Delta variant worked for 2 days



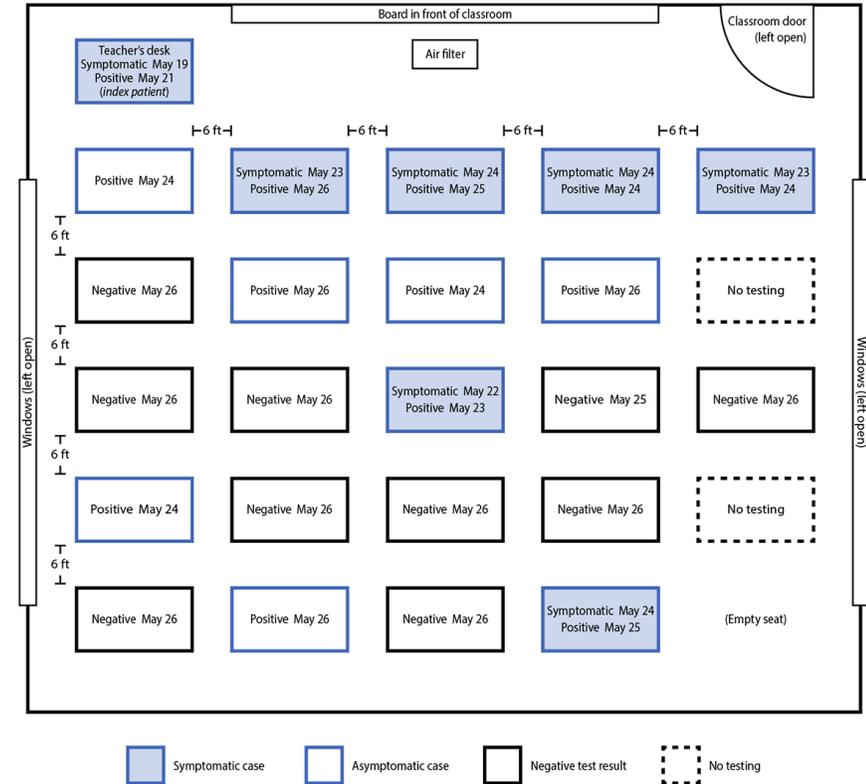
12 of 24 kids infected



Schools can help stop spread by ensuring everyone:

-  **Wears masks correctly** in indoor spaces
-  **Gets vaccinated**, if eligible
-  **Stays home** if having symptoms
-  **Tests routinely**

bit.ly/MMWR82721b **MMWR**



- 22 of the 24 students were ineligible for vaccine due to age; 12 kids infected
- Students in the first two rows were more likely be infected
- In addition to vaccination, consistent and correctly adhering to multiple nonpharmaceutical prevention strategies, including masking, are important to ensure safe school instruction

Source: [Lam-Hine \(2021\) Outbreak Associated with SARS-CoV-2 B.1.617.2 \(Delta\) Variant in an Elementary School — Marin County, California, May–June 2021](#)

August hospitalizations increased 4x in states with low vaccination levels compared to those with high vaccination levels

- Severe COVID-19 illness can occur in children and adolescents
- Between August 14 – August 27, 2021, COVID-19 related **ED visits** in the states with the lowest vaccination coverage were **3.4 times** that in the states with the highest vaccination coverage
- Between August 14 – August 27, 2021, COVID-19 related **hospital admissions** in the states with the lowest vaccination coverage were **3.7 times** that in the states with the highest vaccination coverage
- Between August 2020 and August 2021, the proportion of COVID-19 patient who were children or adolescents ranged from 10% to 25%*
- ***Broad, community-wide vaccination of all eligible persons is critical to protect pediatric populations from SARS-CoV-2 and severe COVID-19 illness***



* Select hospital included for hospital COVID-19 surveillance

Source: [MMWR, 2021](#)

National Comparison

Spread

Severity

Public Health
Response

Other
Indicators

Science
Round-up

Appendix

Sample of School related quarantine events

	Number Impacted
Counties	15
Schools	26
Students	2,654

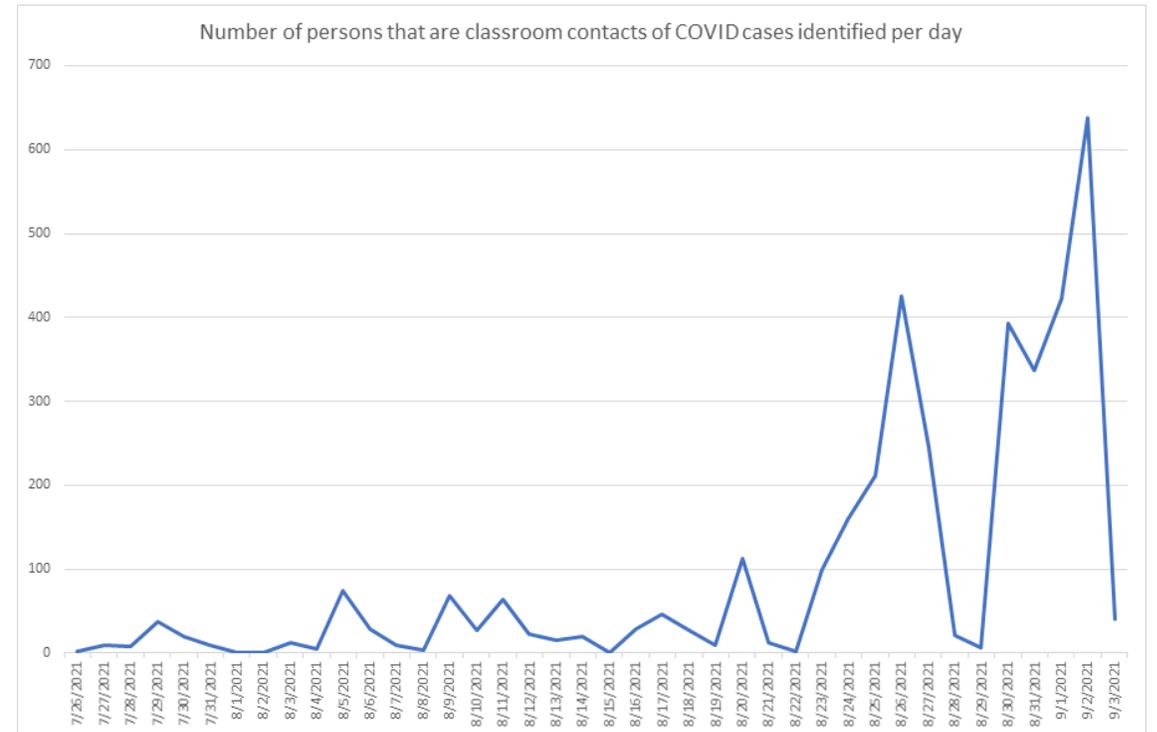
It isn't uncommon that an entire classroom is quarantined

In some cases, entire schools are closed

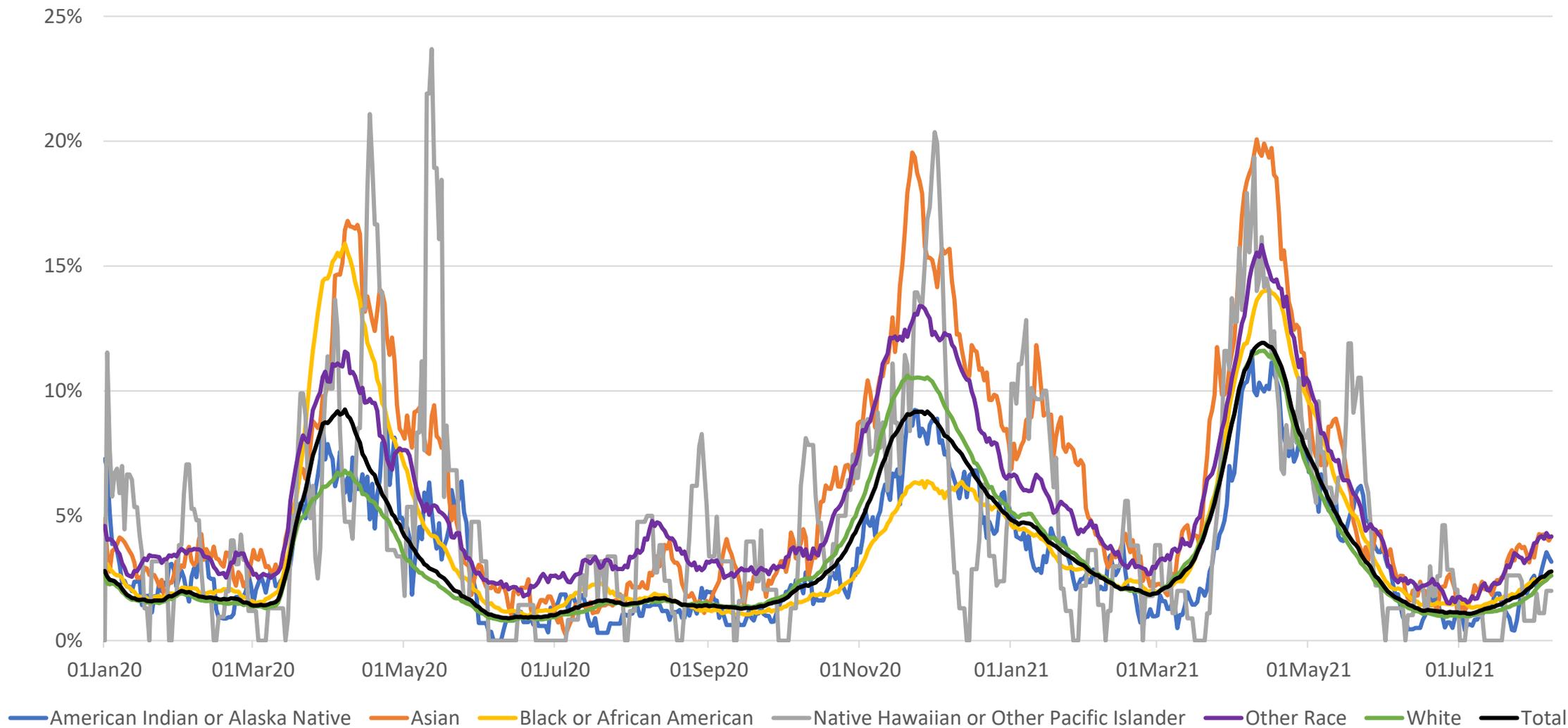
Quarantine sizes as small as 4 students and as large as 1,328 with a median of 23 students requiring quarantine.

Scenarios:

- One infected teacher delayed school start for 8 days
- Several infected students and staff resulted in an entire school shutdown
- Multiple family members can in turn expose multiple classrooms (community transmission ↔ schools)

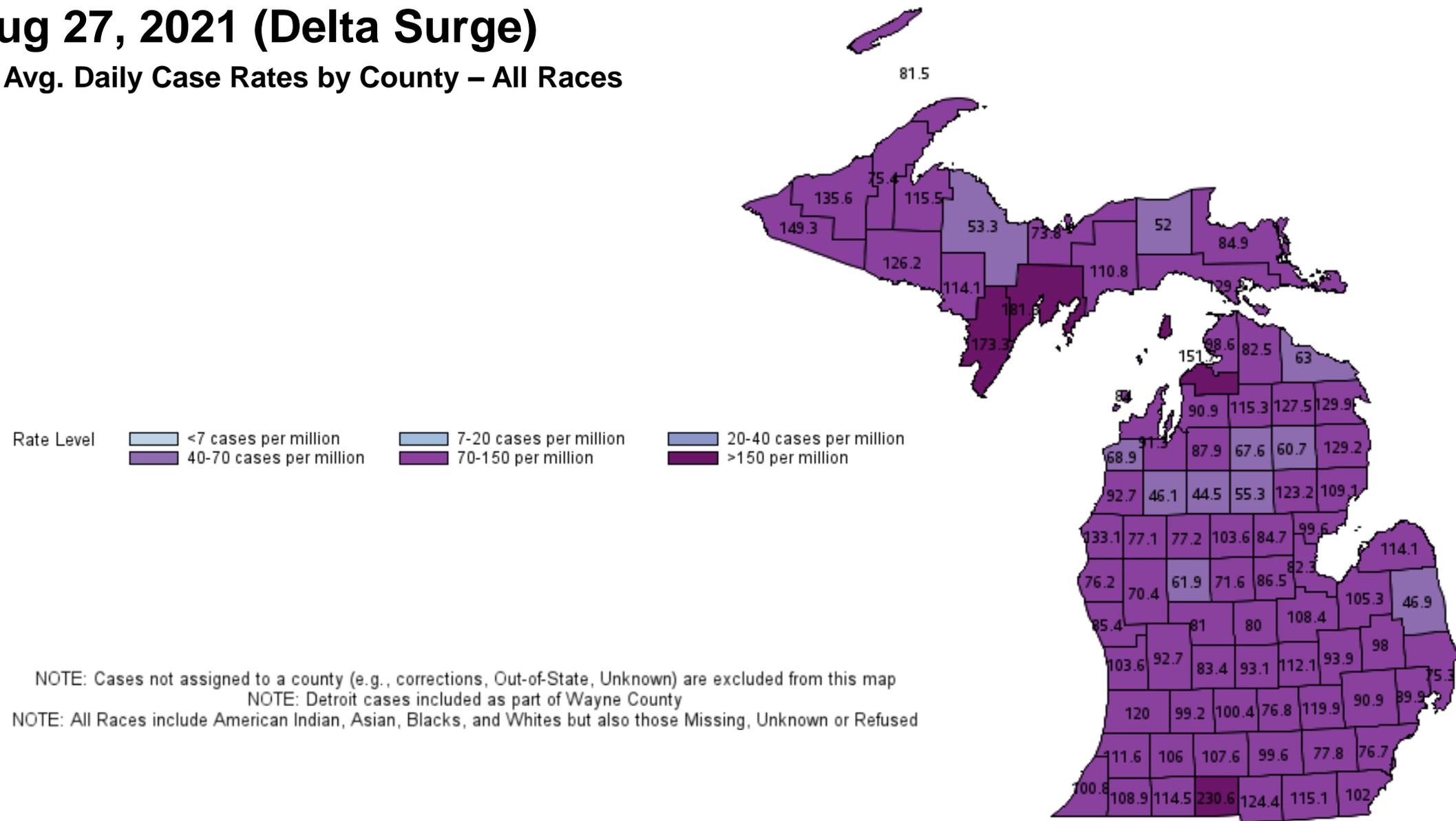


Proportion of ED Visits with Coronavirus Symptoms or a COVID-19 Diagnosis Code by Race – Michigan – NO UPDATE THIS WEEK



Average daily new cases per million people by race and county, Jul 1 – Aug 27, 2021 (Delta Surge)

Avg. Daily Case Rates by County – All Races

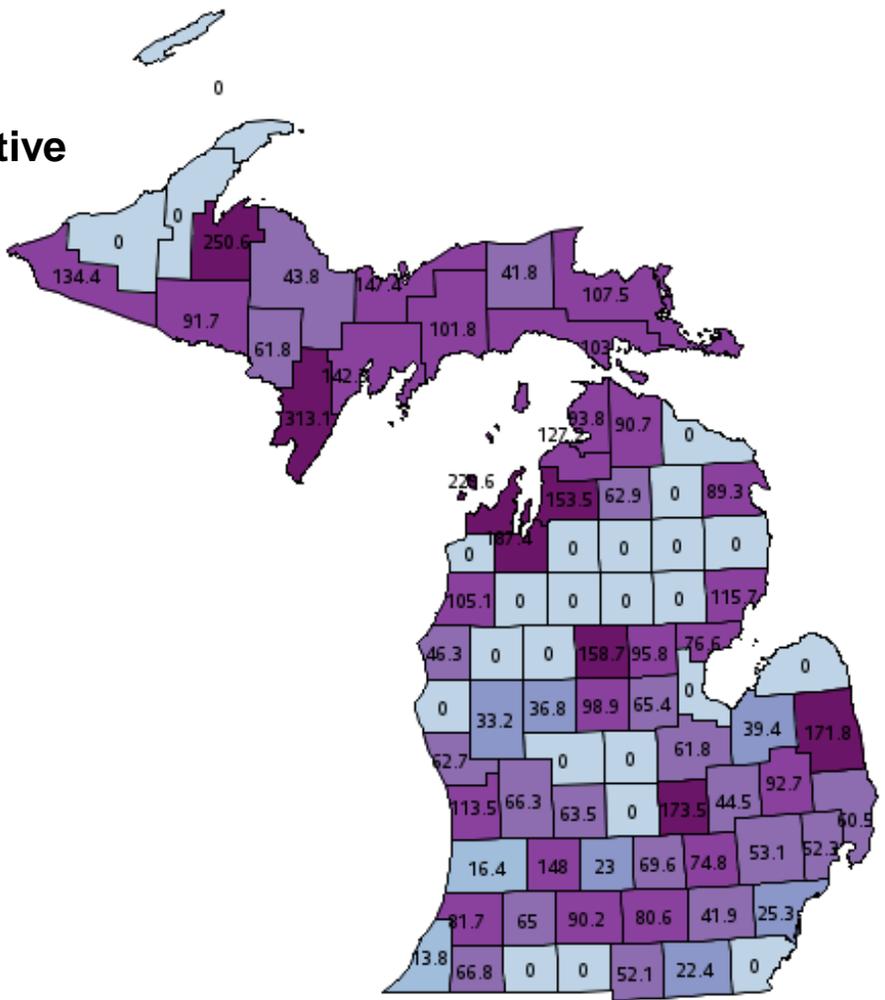


NOTE: Cases not assigned to a county (e.g., corrections, Out-of-State, Unknown) are excluded from this map
 NOTE: Detroit cases included as part of Wayne County
 NOTE: All Races include American Indian, Asian, Blacks, and Whites but also those Missing, Unknown or Refused

Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.
 Source: MDHHS – Michigan Disease Surveillance System

Average daily new cases per million people by race and county, Jul 1 – Aug 27, 2021 (Delta Surge)

Avg. Daily Case Rates by County – American Indian/Alaskan Native

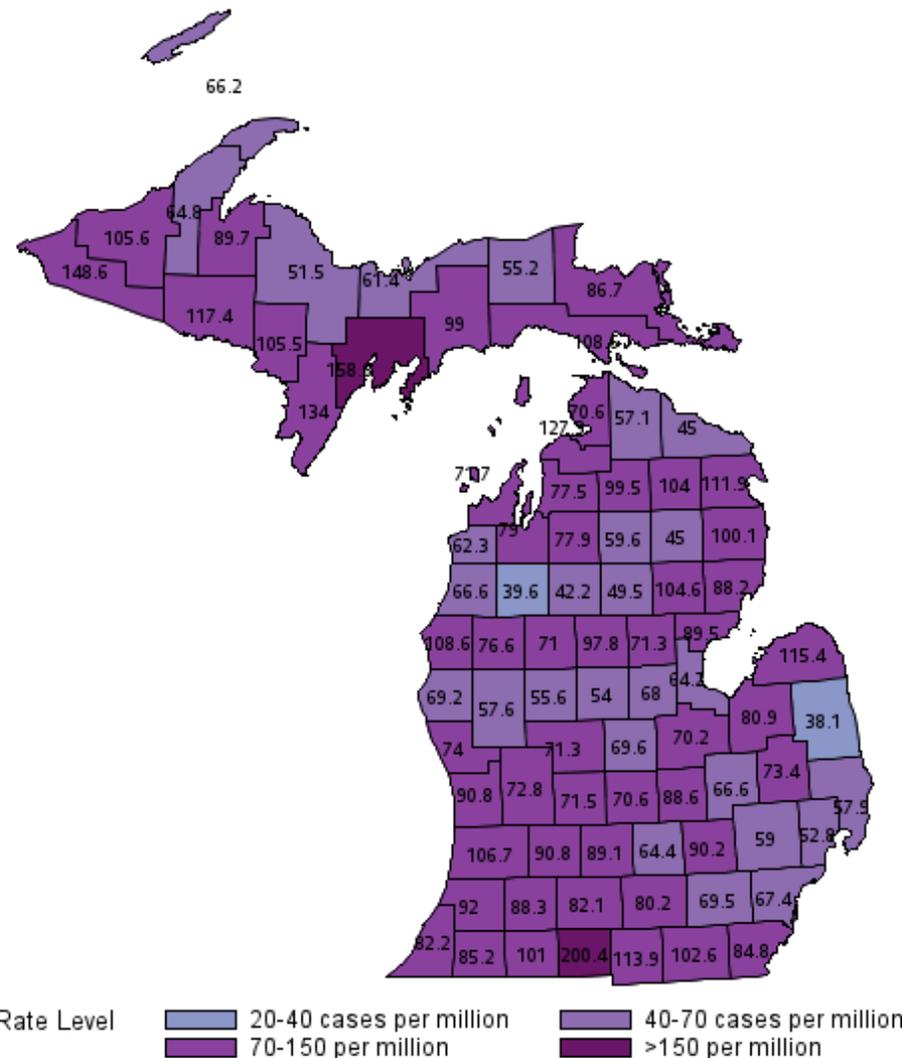


NOTE: Cases not assigned to a county (e.g., corrections, Out-of-State, Unknown) are excluded from this map
 NOTE: Detroit cases included as part of Wayne County

Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.
 Source: MDHHS – Michigan Disease Surveillance System

Average daily new cases per million people by race and county, Jul 1 – Aug 27, 2021 (Delta Surge)

Avg. Daily Case Rates by County – White



NOTE: Cases not assigned to a county (e.g., corrections, Out-of-State, Unknown) are excluded from this map

NOTE: Detroit cases included as part of Wayne County