



HEALTH
Department

COVID-19 Update

December 8, 2021



Executive Summary: COVID-19 Mass Testing and Containment Plan

MITIGATION ROADMAP



INCIDENT ACTION PLAN OBJECTIVES

1. Identify cases, isolate the sick, quarantine the exposed, and protect vulnerable populations

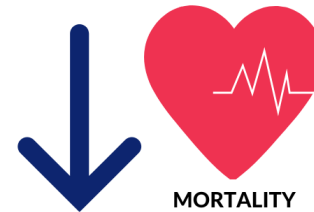
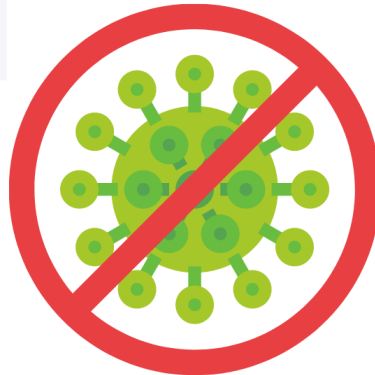
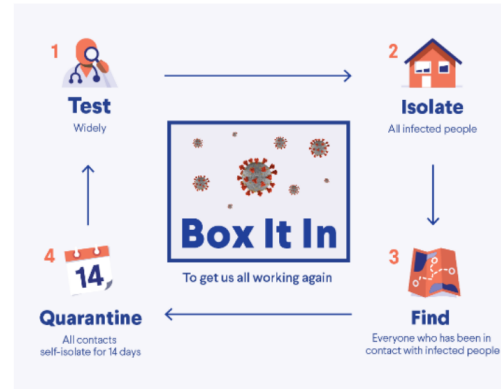
Provide information to the public, media, and County staff to increase public awareness, address misinformation, and protect the public and increase community resiliency
2. Prepare, mitigate, and recover from widespread transmission in Allegan County

STATE & LOCAL ORDERS

Michigan Public Health Code



EPIDEMIOLOGICAL MODEL



Allegan County COVID-19 Dashboard

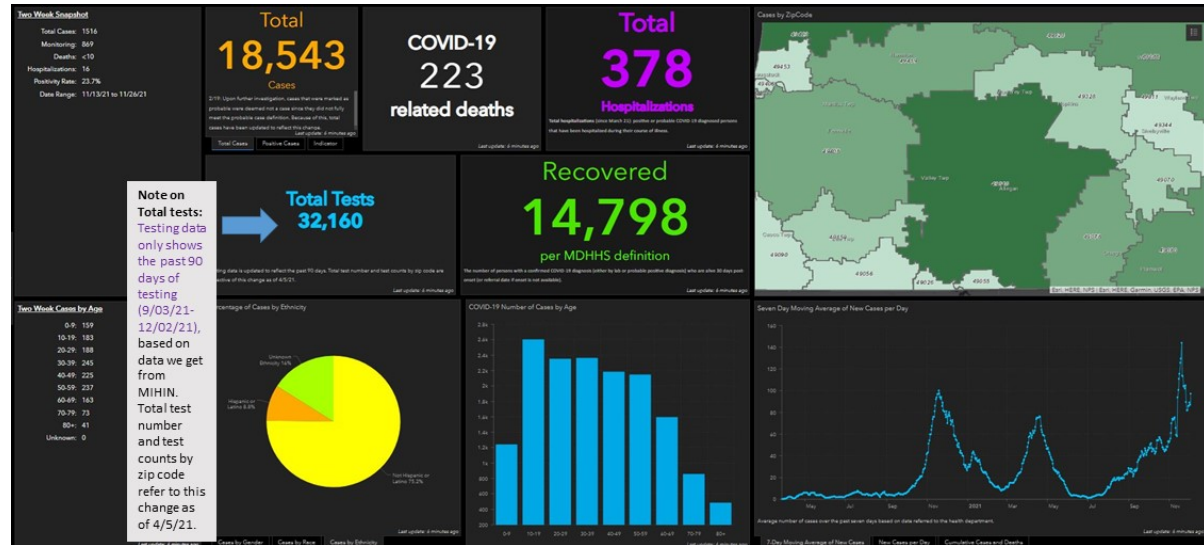
updated weekly on Fridays at 3pm.

NEW LINK:

<https://www.arcgis.com/apps/dashboard/b2c637afa8ba417683cc06ebc89e0232>

Allegan County's COVID-19 data is updated Mondays, Wednesdays, and Fridays on the MDHHS COVID-19 website. Find the state's dashboard for COVID-19 cases and trends by visiting

www.michigan.gov/coronavirus



Cases

DAILY NEW CASES

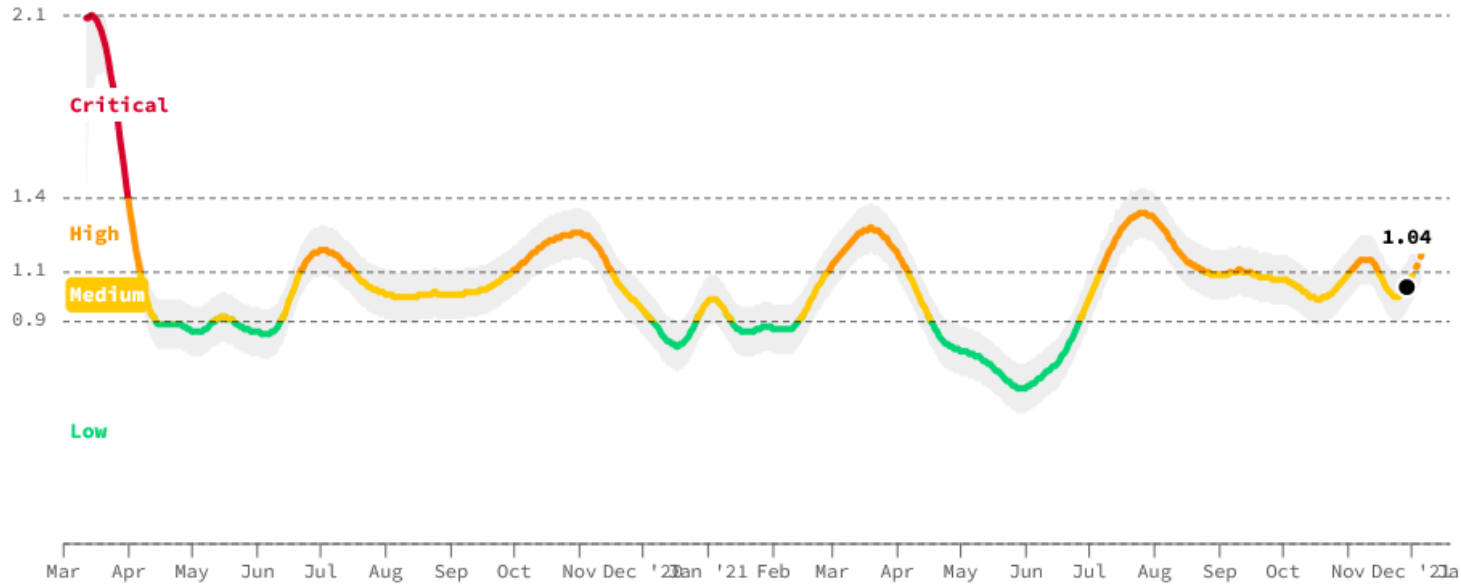
● **85.8** PER 100K

INFECTION RATE

● **1.04**

POSITIVE TEST RATE

● **18.7%**



On average, each person in Michigan with COVID is infecting 1.04 other people. Because this number is around 1.0, it means that COVID continues to spread at about a constant rate. [About this data](#)

Share

Cases

DAILY NEW CASES

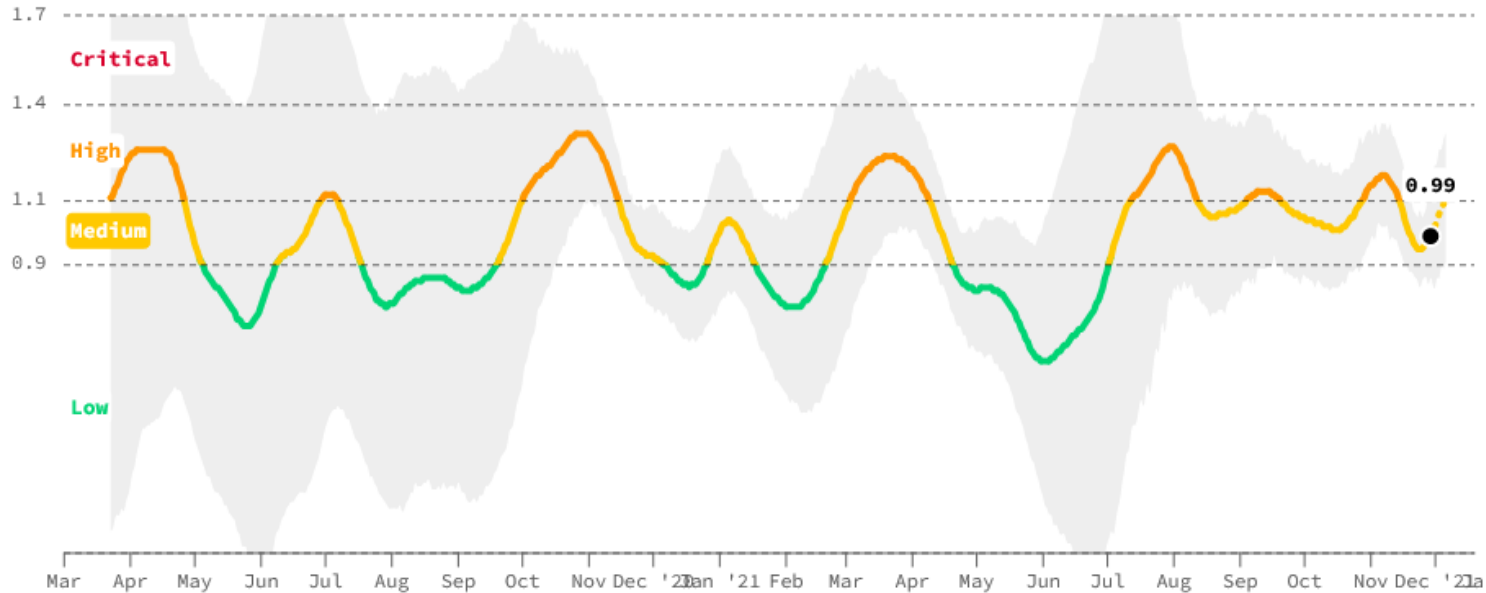
● **96.9** PER 100K

INFECTION RATE

● **0.99**

POSITIVE TEST RATE

● **23.9%**



On average, each person in Allegan County, Michigan with COVID is infecting 0.99 other people. Because this number is around 1.0, it means that COVID continues to spread at about a constant rate. [About this data](#)

Share

Updated 12/7/2021, data from 11/29/21

Enhanced Ability to Test, <https://mistartmap.info/>

Allegheny County, data as of 12/02/2021



Test Positivity

Nov 26 - Dec 02

23.4%
positive tests



3.5k

daily tests
administered
per million

↗ 2 weeks ⓘ

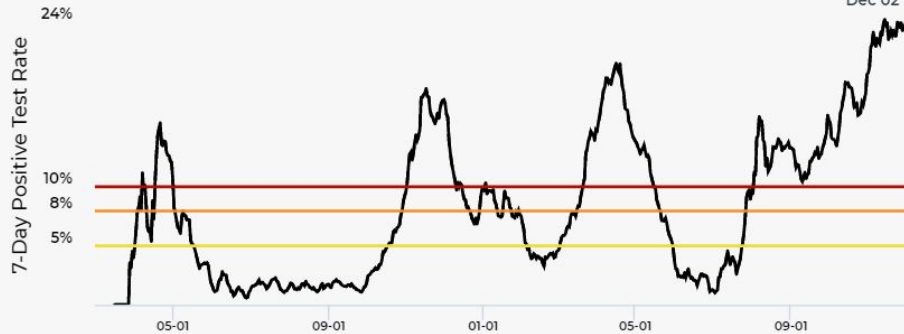
Nov 12 - Nov 26



7-Day Positive Test Rate

ALLEGHENY COUNTY

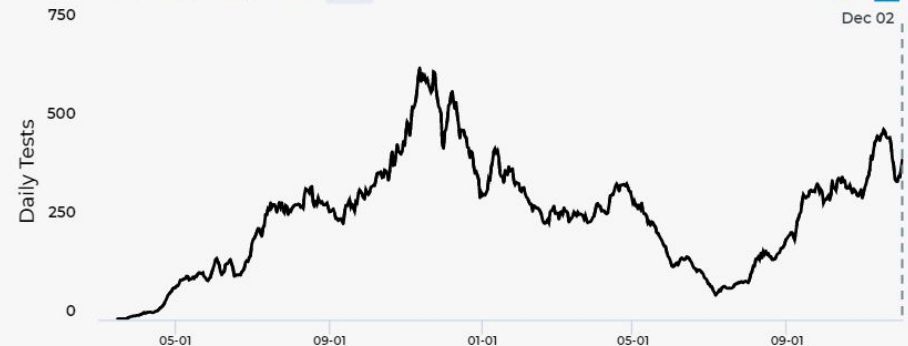
Zoom 1m 3m 6m All



Daily Tests

ALLEGHENY COUNTY

Zoom 1m 3m 6m All



Risk Thresholds (% Positive)



Low: <5%



Moderate 5-<8%



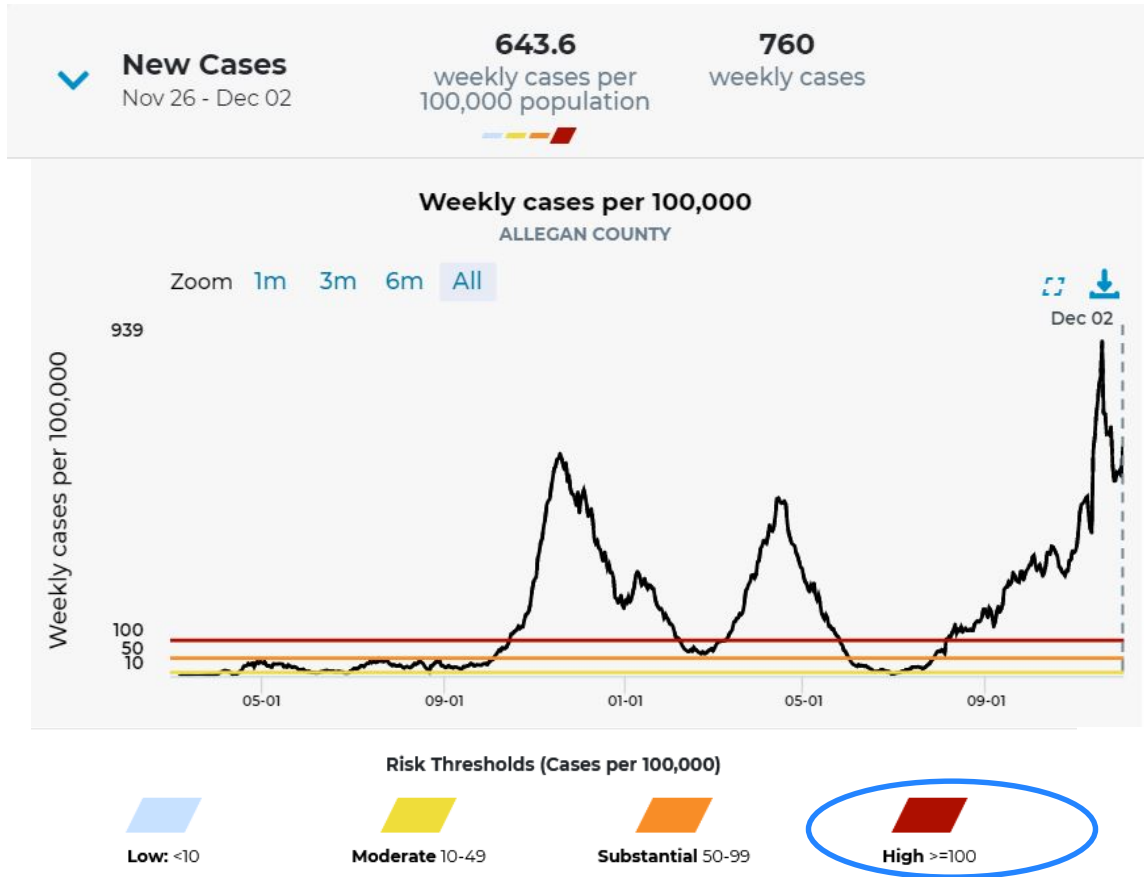
Substantial 8-<10%



High >=10%

New Cases,

<https://mistartmap.info/> Allegan County, data as of 12/02/2021



Comparison with Neighboring Counties, <https://mistartmap.info/>

Allegan County, data as of 12/02/2021

Compare Geographic Areas

AREA	CDC REGION TRANSMISSION (NOV 26 - DEC 02)	CDC COUNTY TRANSMISSION (DEC 02)	WEEKLY CASES PER 100,000 POPULATION (NOV 19 - NOV 25)	% POSITIVE TESTS * (NOV 26 - DEC 02)
Allegan	High	High	593.7	23.4%
Barry	High	High	620.6	29.3%
Kalamazoo	High	High	422.9	18.8%
Kent	High	High	614.2	23.8%
Ottawa	High	High	660.7	27.3%
Van Buren	High	High	551	26.9%

Epidemiologic Information, All Ages Allegan County

Overall	Percent
Healthcare Worker	5.3%
Live or work in high-risk/congregate facility	7.2%
First Responder	0.7%
Other Essential Worker/Critical Infrastructure	12.8%
Healthcare Contact to confirmed case	0.4%
Community Contact to confirmed case	8.4%
Household Contact to confirmed case	17.0%
Total Cases: 18,543	

Cases Reported in Past two weeks	Percent
In quarantine at time of onset/positive test	7.7%
Associated with known cluster/outbreak	1.2%
Any Contact to confirmed case	0.0%
Healthcare contact to confirmed case	0.3%
Community contact to confirmed case	2.5%
Household contact to confirmed case	9.8%
Attended Community Event/Mass Gathering	0.5%
Any Travel (international, domestic, in state)	0.0%
Source of Infection is unknown	10.5%
Number of cases reported in past 2 weeks: 1,529	

With the current surge, school age children are prioritized for case investigation, so not every case aged 19-64 will not be fully investigated and case data cannot contribute to percentages above.

Epidemiologic Information, Symptoms, All Ages Allegan County

Symptoms	Percent
Fatigue/Lethargy/ Weakness	69.9%
Cough	70.5%
Fever	52.7%
Chills	13.0%
Shortness of breath	22.3%
Muscle aches	56.6%
Headaches	67.6%
Runny Nose	52.6%
Nausea	24.2%
Congestion	63.2%
Sore throat	44.2%
Diarrhea	25.0%
Loss of Taste	43.8%
Loss of Smell	44.2%

Asymptomatic Cases: 11.2%

Total Cases: 18,543

Data as of 12/03/2021. Source: Michigan Disease Surveillance System

Allegan County Case Trends Elementary School Ages 5 to10

March 2020 through December 3, 2021

As of March 2020,

44.3% were household contact to a confirmed case

18.2% were asymptomatic cases (no symptoms but tested positive for COVID-19)

CASES REPORTED IN PAST TWO WEEKS: Data from 11/20/2021 to 12/3/2021

For this section to auto-calculate,

enter the date you exported the data here ----->

12/03/21
mm/dd/yy

Number of Cases reported in past two weeks

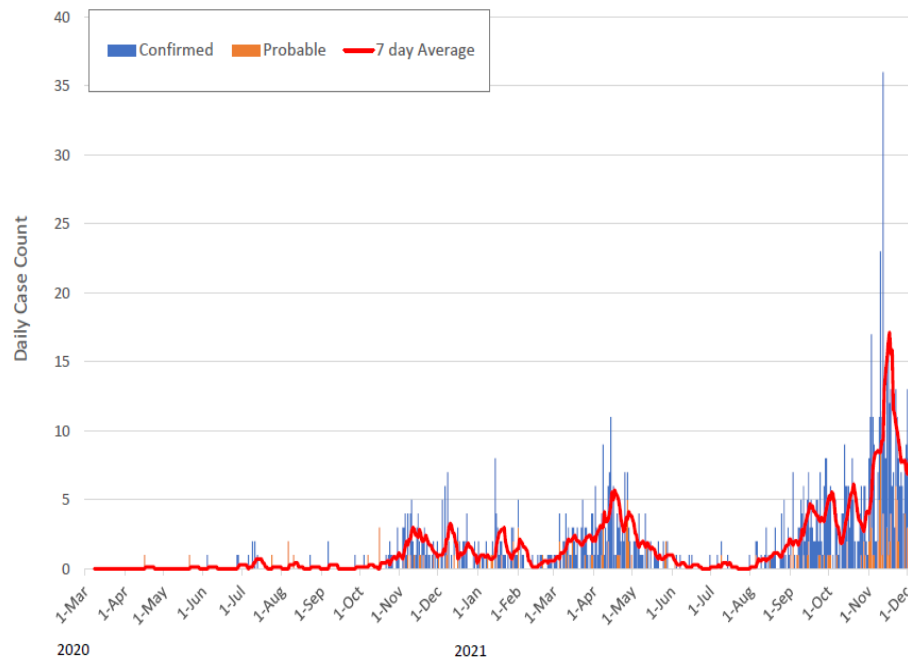
107

	<u>Count</u>	<u>% **</u>
In quarantine at time of onset/positive test	31	29.0%
Associated with known cluster/outbreak	3	2.8%
Any contact (HC, Comm, HH) to confirmed case	46	43.0%
Healthcare Contact to confirmed case	0	0.0%
Community Contact to confirmed case	5	4.7%
Household Contact to confirmed case	42	39.3%
Attended Community Event/Mass Gathering	2	1.9%
Any Travel (international, domestic, in state)	3	2.8%
Source of infection is unknown	30	28.0%

*** Denominator is the number of cases reported in past two weeks*

Total Cases : 1,022

Allegan County COVID-19 Cases Ages 5 to 10 by Referral Date



Source: Michigan Disease Surveillance System

Allegan County Case Trends Middle School Ages 11 to 13

March 2020 through December 3, 2021

As of March 2020,
 41.1% were household contact to a confirmed case
 14.1% were asymptomatic cases (no symptoms but tested positive for COVID-19)

CASES REPORTED IN PAST TWO WEEKS: Data from 11/20/2021 to 12/3/2021

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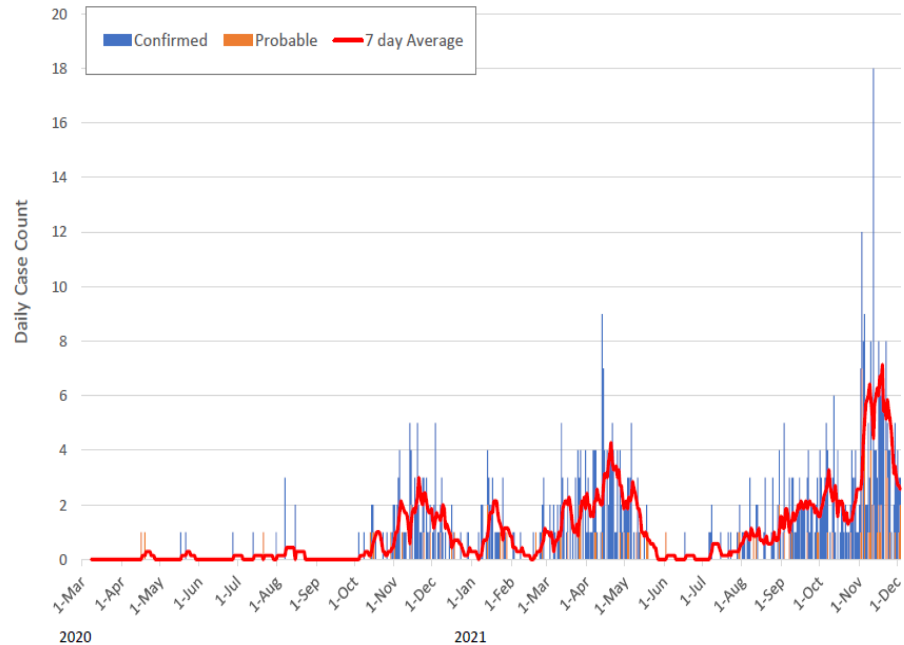
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Number of Cases reported in past two weeks	Count	% **
In quarantine at time of onset/positive test	10	20.8%
Associated with known cluster/outbreak	1	2.1%
Any contact (HC, Comm, HH) to confirmed case	22	45.8%
Healthcare Contact to confirmed case	0	0.0%
Community Contact to confirmed case	4	8.3%
Household Contact to confirmed case	20	41.7%
Attended Community Event/Mass Gathering	0	0.0%
Any Travel (international, domestic, in state)	1	2.1%
Source of infection is unknown	15	31.3%

** Denominator is the number of cases reported in past two weeks

Total Cases : 630

Allegan Count COVID-19 Cases Age 11 to 13 by Referral Date



Source: Michigan Disease Surveillance System

Allegan County Case Trends High School Ages 14 to 17

March 2020 through December 3, 2021

As of March 2020,

25.5% were household contact to a confirmed case

12% were asymptomatic cases (no symptoms but tested positive for COVID-19)

CASES REPORTED IN PAST TWO WEEKS: Data from 11/20/2021 to 12/3/2021

For this section to auto-calculate,

enter the date you exported the data here ----->

12/03/21
mm/dd/yy

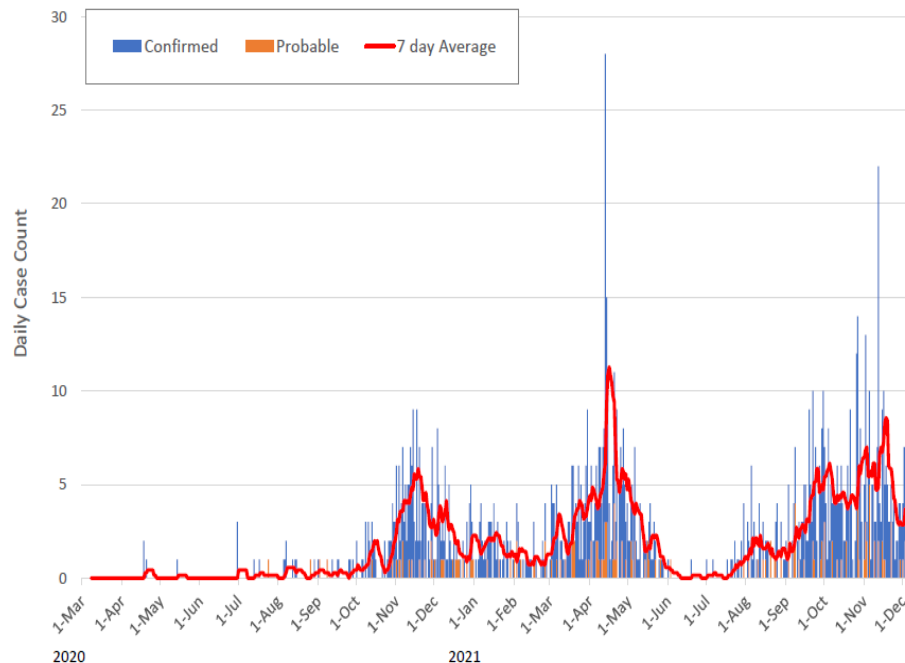
Number of Cases reported in past two weeks 52

	<u>Count</u>	<u>% **</u>
In quarantine at time of onset/positive test	11	21.2%
Associated with known cluster/outbreak	2	3.8%
Any contact (HC, Comm, HH) to confirmed case	17	32.7%
Healthcare Contact to confirmed case	1	1.9%
Community Contact to confirmed case	3	5.8%
Household Contact to confirmed case	13	25.0%
Attended Community Event/Mass Gathering	2	3.8%
Any Travel (international, domestic, in state)	0	0.0%
Source of infection is unknown	18	34.6%

** Denominator is the number of cases reported in past two weeks

Total Cases: 1,188

Allegan County COVID-19 Cases Ages 14 to 17 by Referral Date



Source: Michigan Disease Surveillance System

Allegan County Breakdown of Total COVID-19 Cases By School Age (3-17)

From March 1, 2020 to December 3, 2021

Breakdown of Cases by School Age Categories

Total Case Count	3029
Number of Cases <18 years	3029
% cases <18 years	100.0%

<u>Approximate Grade Level</u>	<u>Age</u>	<u>Case Count*</u>	<u>% total cases</u>	<u>% cases <18 years</u>
	0-2 years	0	0.0%	0.0%
Pre-K age	3-4 years	189	6.2%	6.2%
K-5th grade age	5-10 years	1022	33.7%	33.7%
6-8th grade age	11-13 years	630	20.8%	20.8%
9-12th grade age	14-17 years	1188	39.2%	39.2%

**Case counts are based on case ages, which have been grouped into approximate grade levels.*

These counts may not reflect the actual grade level of cases.

To prevent double-counting of cases, the age brackets do not overlap.

Allegan County Breakdown of COVID-19 Cases By School Age (3-17)

Past 2 Weeks , As of December 3, 2021

Breakdown of Cases by School Age Categories

Total Case Count	228
Number of Cases <18 years	228
% cases <18 years	100.0%

<u>Approximate Grade Level</u>	<u>Age</u>	<u>Case Count*</u>	<u>% total cases</u>	<u>% cases <18 years</u>
	0-2 years	0	0.0%	0.0%
Pre-K age	3-4 years	21	9.2%	9.2%
K-5th grade age	5-10 years	107	46.9%	46.9%
6-8th grade age	11-13 years	48	21.1%	21.1%
9-12th grade age	14-17 years	52	22.8%	22.8%

**Case counts are based on case ages, which have been grouped into approximate grade levels.*

These counts may not reflect the actual grade level of cases.

To prevent double-counting of cases, the age brackets do not overlap.

Household Contacts to a Confirmed Case (11/6/21-11/19/21):

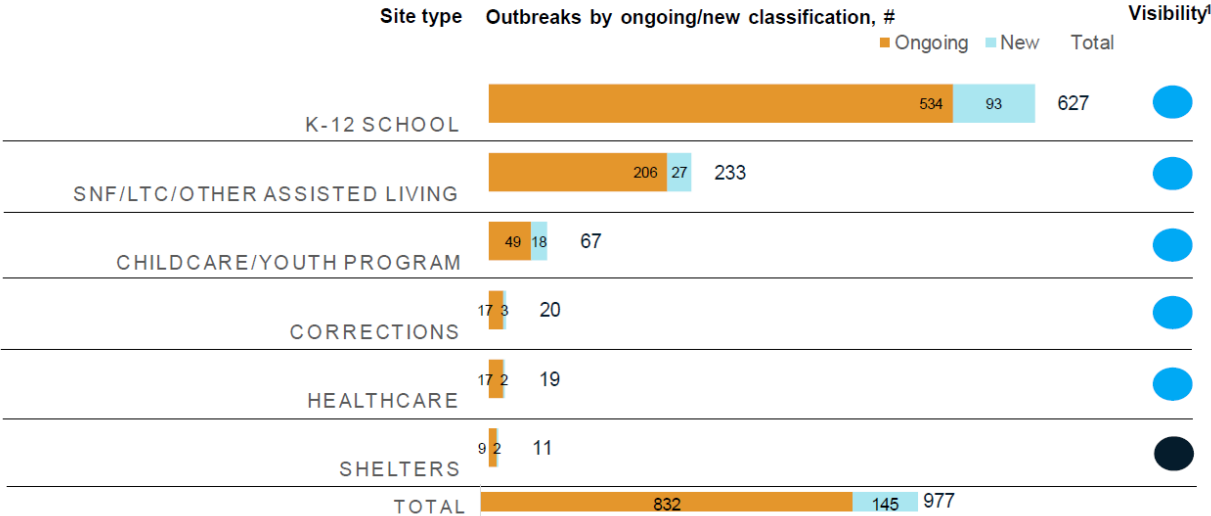
5-10 years: 39.3%

11-13 years: 31.1%

14-17 years: 25.0%

Number of Weekly Reported Outbreaks: *New Format*

Number of outbreak investigations by site type, week ending Nov 24



● Easier to identify outbreak
● Harder to identify outbreak

Total number of active outbreaks is 977 with 145 new outbreaks identified

K-12 schools reported the greatest number of new outbreaks and clusters (93) this 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.
NOTE (10/4): MDHHS adopted the new [CSTE school cluster and outbreak definition](#) which impacts how transmissions within school-sponsored settings are reported to the health department
NOTE (11/22): The local health department weekly outbreak reporting survey was streamlined to focus on congregate settings where patients/staff might be more at risk for infection and/or experience severe outcomes from infection. This was in an effort to prioritize limited local health department capacity to populations for which the biggest public health impact could be made.

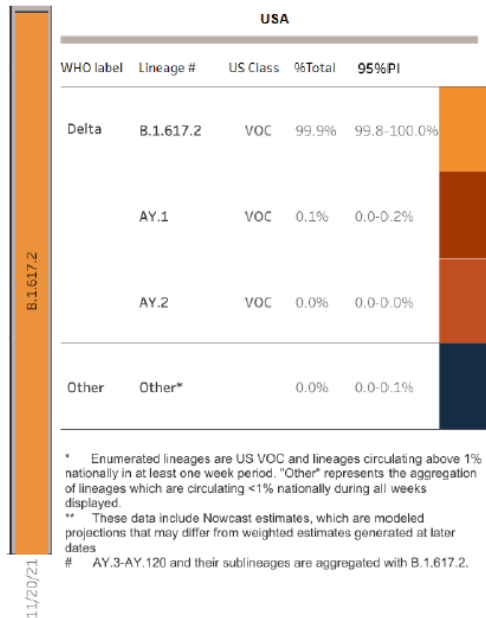
Source: LHD Weekly Sitreps

As of 12/2/21, ACHD has identified **6 ongoing** outbreaks and **2 new** outbreaks.

- 1 Other
- 5 School K-12 setting
- 2 Long term care facilities (LTCF)

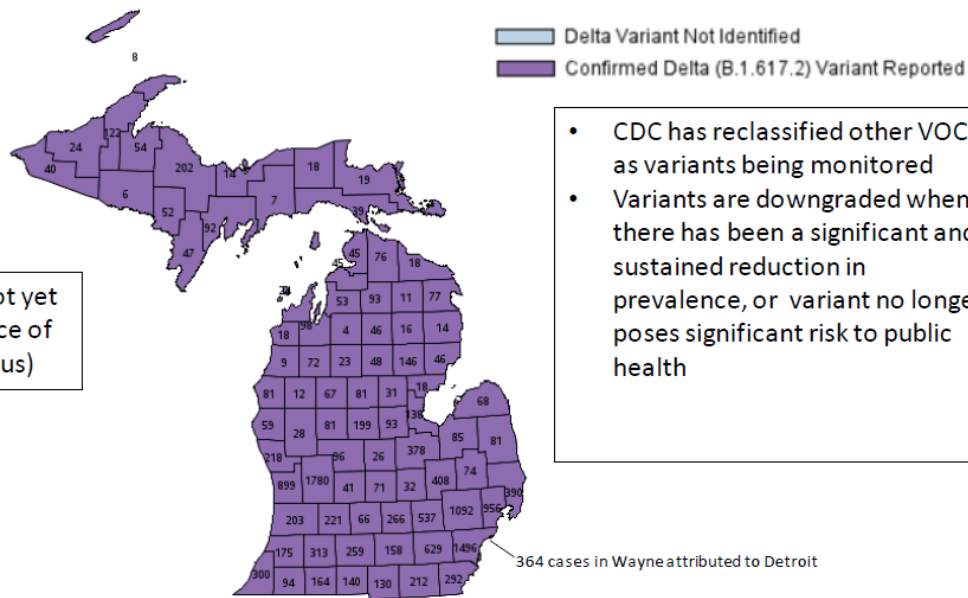
Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan

SARS-CoV-2 Variants Circulating in the United States, Nov 14 – Nov 20 (NOWCAST)



Currently, CDC is not yet reporting prevalence of AY.4.2 (i.e., Delta plus)

Variants of Concern in Michigan, Nov 29



Variant	MI Reported Cases ¹	# of Counties	MDHHS VOC Sequenced Prev.
B.1.617.2 (delta)	15,101	83	100%

Allegan County has **203** reported Delta variant cases (as of 11/29/21). Note: not every positive case is serosequenced for a variant.

Omicron Variant Information

- ▶ **November 26, 2021:** WHO declared Omicron variant a [variant of concern](#) (VOC).
- ▶ The new COVID-19 variant, Omicron, was detected in the U.S. on Wednesday, December 1, and has now been detected in at least 17 states.
- ▶ Scientists worldwide are still investigating how Omicron spreads, whether it causes more severe illness and what kind of protection vaccines will offer.
- ▶ Although the COVID-19 Omicron variant has not been detected in Michigan yet, MDHHS is monitoring for it and has emphasized the importance of getting vaccinated, and getting a booster shot to increase protection, as well as wearing masks.
 - ▶ Read [here](#)

Omicron Variant FAQ

- ▶ **Will Treatments work against Omicron?**
 - ▶ Scientists are working to determine how well existing treatments for COVID-19 work. Based on the changed genetic make-up of Omicron, some treatments are likely to remain effective while others may be less effective.
- ▶ **Will Vaccines work against Omicron?**
 - ▶ Current vaccines are expected to protect against severe illness, hospitalizations, and deaths due to infection with the Omicron variant. However, [breakthrough infections](#) in people who are fully vaccinated are likely to occur. With other variants, like Delta, vaccines have remained effective at preventing severe illness, hospitalizations, and death. The recent emergence of Omicron further emphasizes the importance of vaccination and boosters.
- ▶ **Will Omicron cause more severe illness?**
 - ▶ More data is needed in order to know if Omicron infections, reinfections, and breakthrough infections in people who are fully vaccinated, cause more severe illness or death than infection with other variants.
- ▶ **How easily does Omicron spread?**
 - ▶ The Omicron variant likely will spread more easily than the original SARS-CoV-2 virus and how easily Omicron spreads compared to Delta remains unknown.

We have the tools to fight Omicron:

- ▶ Vaccines remain the best public health measure to protect people from COVID-19, slow transmission, and reduce the likelihood of new variants emerging.
- ▶ Masks offer protection against all variants, even if you are fully vaccinated
- ▶ Testing can tell you if you are currently infected with COVID-19, so you can isolate and prevent spreading the virus to others

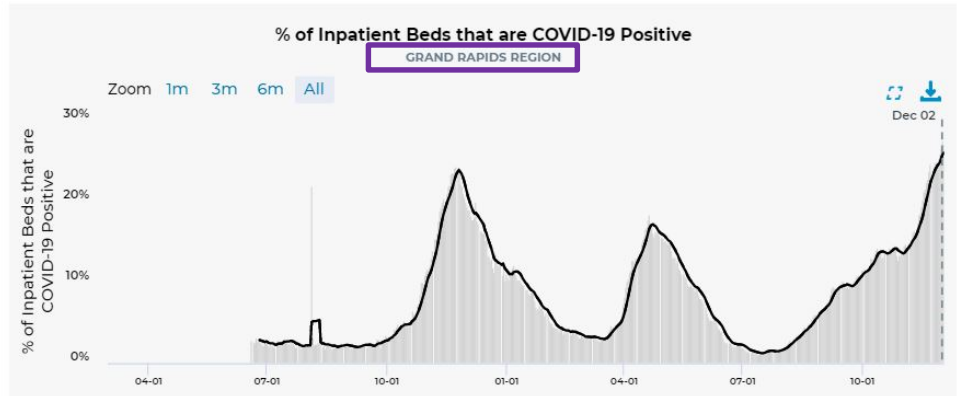
- ▶ Many Allegan County residents access hospital services in the Grand Rapids and Kalamazoo Regions.
- ▶ Grand Rapids Region (Region 6)
 - ▶ 25.9% of inpatient beds are treating COVID-19 patients
- ▶ Kalamazoo Region (Region 5)
 - ▶ 23.4% of inpatient beds are treating COVID-19 patients

✓ Hospital Capacity

Dec 02

25.9%
beds for COVID * ⓘ

1.6k
inpatient beds per
million

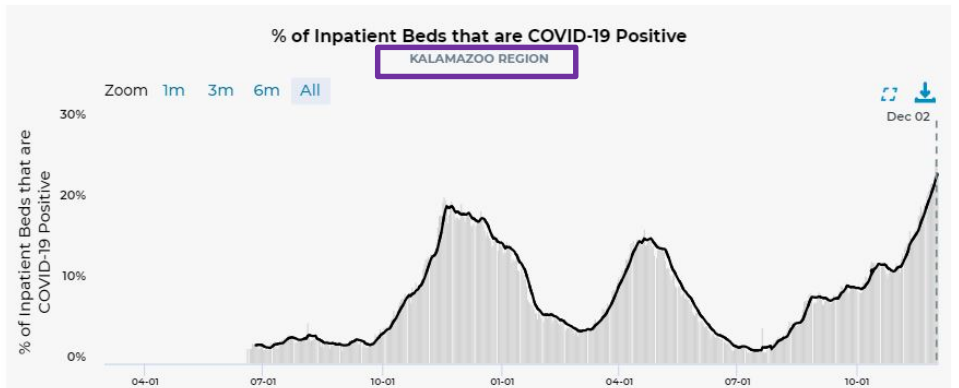


✓ Hospital Capacity

Dec 02

23.4%
beds for COVID * ⓘ

1.4k
inpatient beds per
million



Data as of 12/02/21

20 Source: <https://mistartmap.info>

Sufficient Health Care Capacity

Region 5: Allegan/Kalamazoo Hospital Systems

Region 6: Grand Rapids/Ottawa Hospital Systems

Statewide Hospital Capacity Report COVID-19 12/06/2021**

Region	All Hospital Beds	All Adult Hospital Beds	All Hospital Inpatient Beds	All Hospital Inpatient Bed Occupancy	Adult Hospital Inpatient Beds	Adult Hosp Inpatient Bed Occupancy	ICU Beds	ICU Bed Occupancy	Adult ICU Beds	Adult ICU Bed Occupancy
Region 5	1657	1611	1300	1068	1271	1050	162	140	152	136
Region 6	3194	2806	2877	2480	2528	2134	459	412	309	268

Region 5: 82.2% of inpatient beds are occupied
Region 6: 86.2% of inpatient beds are occupied

COVID-19 Metrics 12/06/2021

Region	Total Adult Suspected /Confirmed	Adult Confirmed-Positive COVID	Hospitalized Peds Confirmed /Suspected	Hospitalized Ped Confirmed-Positive	Hospitalized and Ventilated COVID	Adult ICU Confirmed/Suspected COVID	ICU Adult Confirmed-Positive COVID	Prev Day COVID Related ED Visits
Region 5	326	318	3	3	47	70	66	234
Region 6	676	659	13	11	137	180	176	214

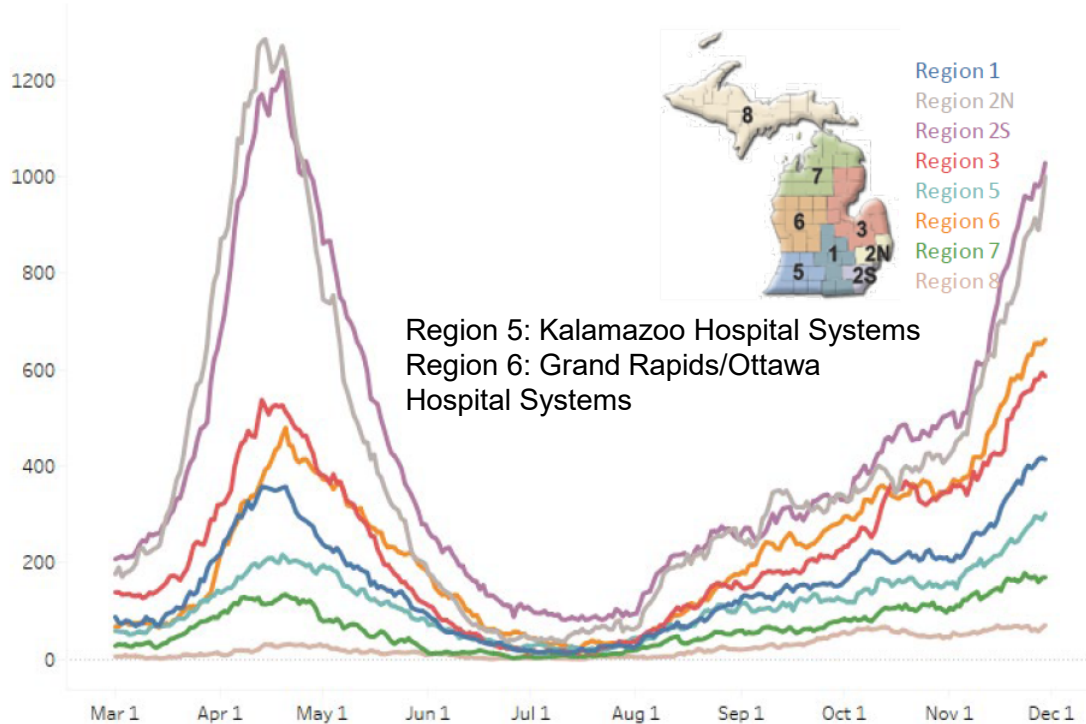
Hospitals in our Area

Hospital	COVID-19 Patients	COVID-19 Patients in ICU	Bed Occupancy %
Allegan General Hospital	2	0	44%
Ascension Borgess Hospital	52	8	73%
Ascension Borgess-Pipp Hospital	1	0	53%
Bronson Methodist Hospital	86	11	98%
Bronson South Haven	3	0	63%
Holland Community Hospital	39	4	77%
Mercy Health Mercy Campus	73	26	88%
Mercy Health St. Mary's Main Campus	80	13	94%
Metro Health Hospital	67	3	89%
Spectrum Health - Blodgett Hospital	116	29	100%
Spectrum Health - Butterworth Hospital	148	52	90%
Spectrum Health Zeeland Hospital	28	6	80%
Spectrum Helen DeVos Children's Hospital	13	0	83%
Data as of 12/3/2021			

Some smaller hospitals might not have ICU beds for COVID or non-COVID patients

Statewide Hospitalization Trends: Regional COVID+ Census

Hospitalization Trends 3/1/2021 – 11/29/2021
Confirmed Positive by Region



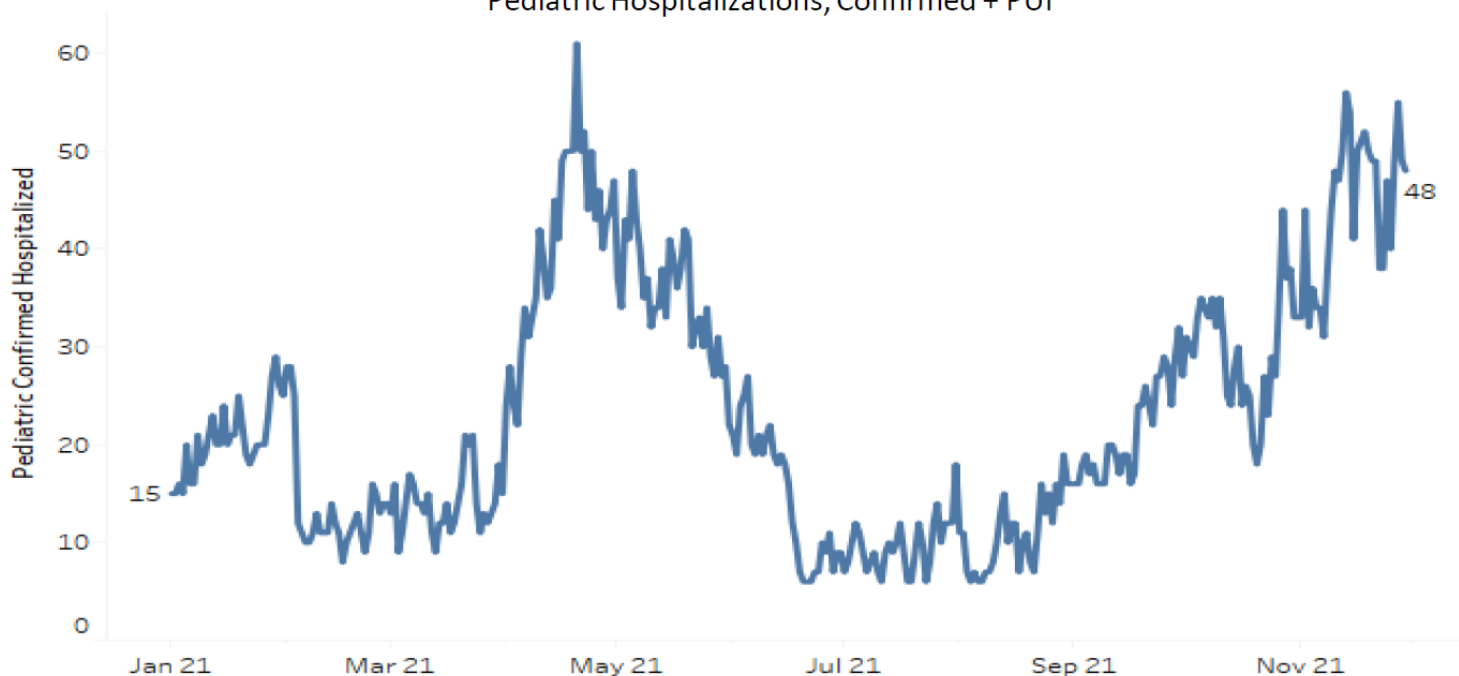
The COVID+ hospital census has increased across all regions with the fastest growth in Regions 2N and 6. Regions 1, 5, 6 and 7 currently have highest COVID+ census reported since the beginning of the pandemic.

Regions 2N, 2S, 3 and 6 now have greater than 400/M population hospitalized, and Region 3 is greater than 500/M population hospitalized.

Region	COVID+ Hospitalizations (% Δ from last week)	COVID+ Hospitalizations / MM
Region 1	414 (14%)	383/M
Region 2N	1000 (20%)	452/M
Region 2S	1028 (11%)	461/M
Region 3	586 (7%)	517/M
Region 5	301 (18%)	316/M
Region 6	662 (29%)	451/M
Region 7	169 (2%)	338/M
Region 8	70 (9%)	225/M

Statewide Hospitalization Trends: Pediatric COVID+ Census

Hospitalization Trends 1/1/2021 – 11/29/2021
Pediatric Hospitalizations, Confirmed + PUI

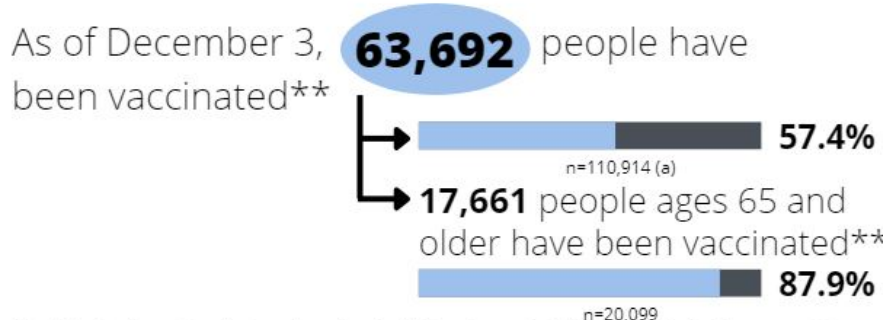
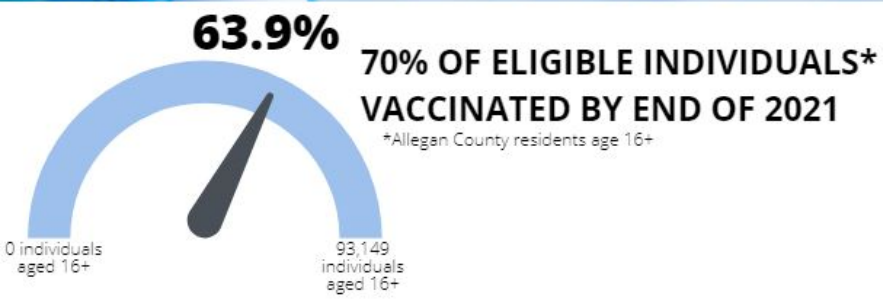


From 9/1/21 – 11/30/21, there have been 8 pediatric Allegan County residents hospitalized related to COVID-19

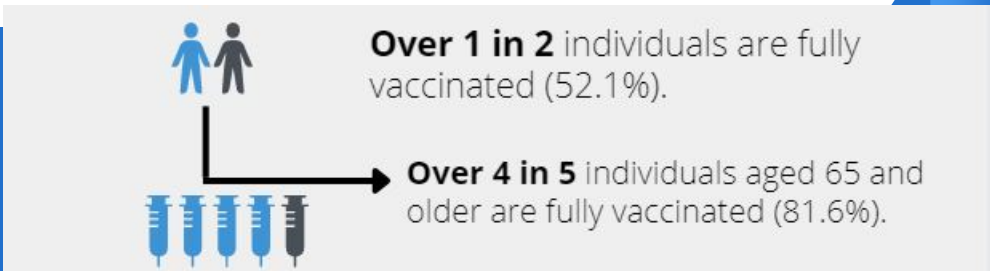


Allegan County VACCINE DATA

Updated 12/6/21
Data as of 12/3/21



**Individuals given at least 1 dose of vaccine. On 11/9, we began including the population 5 years and older.
a) MI Population estimates for Allegan County from Vital Records



Fully Vaccinated: Individuals (5 years and older) receiving 2 doses of Pfizer or Moderna or 1 dose of J&J.

Total Doses Distributed*	Primary Series Doses Administered*
116,670	115,474
	Additional/Booster Doses Administered*
	18,777

*includes Moderna, J&J, Pfizer, and Pediatric Pfizer Vaccines

*based on person's residence.


PLANNED CLINICS December 8, 2021 to December 22, 2021

4 Clinics 

300 Doses 

Note: Our goal of vaccinating 70% of the population accounted for the 16 and older population. With increasing the eligibility population, our vaccine coverage decreased. We are continuing to strive towards our goal of vaccinating 70% of residents 16 and older, which will reflect on the gauge at the top of this graphic.

6/1/2021 Update: Previous vaccine graphics included 96,451 as the population of Allegan County residents 12 years and older. After further review, 99,878 is a more accurate population estimation.



HEALTH Department

On 11/9/21, we added the 5-11 population estimates to the eligible populations for vaccine. This changed the percentage of initially vaccinated and fully vaccinated.



Allegan County UNVACCINATED CASE DATA ALL AGES

Since January 2021, there have been:

11,300
Total COVID-19
Cases

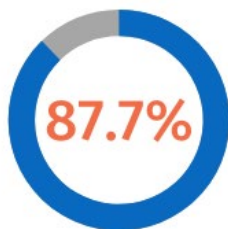
216
Total COVID-19
Hospitalizations

118
Total COVID-19
Related Deaths

Total cases not
fully vaccinated

9,911

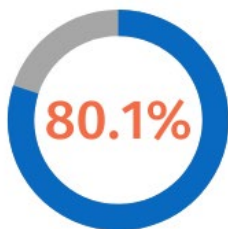
% of not fully
vaccinated cases



Total hospitalizations
not fully vaccinated

173

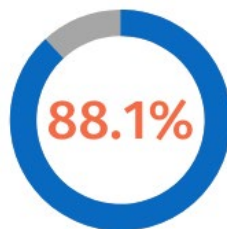
% of not fully
vaccinated
hospitalizations



Total deaths not
fully vaccinated

104

% of not fully
vaccinated deaths





Allegan County BREAKTHROUGH CASE DATA ALL AGES

As of November 19, there are **56,758** total fully vaccinated individuals in Allegan County

<p>Total breakthrough cases:</p> <p>1,389</p>	<p>Total breakthrough hospitalizations:</p> <p>43</p> <p><i>all breakthrough hospitalizations are over the age of 40</i></p>	<p>Total breakthrough COVID-19 related deaths:</p> <p>14</p> <p><i>all breakthrough deaths are over the age of 55</i></p>
<p>% of breakthrough cases:</p> <p>2.45%</p>	<p>% of breakthrough hospitalizations:</p> <p>0.08%</p>	<p>% of breakthrough deaths:</p> <p>0.02%</p>

Breakthrough cases: the number of fully vaccinated people who developed COVID-19

Breakthrough hospitalizations: the number of fully vaccinated people who were hospitalized for COVID-19

Breakthrough deaths: the number of fully vaccinated people who died related to COVID-19

This bottom section shows breakthrough data for ages 5-19 ONLY

As of November 19, there are **4,854** fully vaccinated children ages 5-19

Total breakthrough cases:

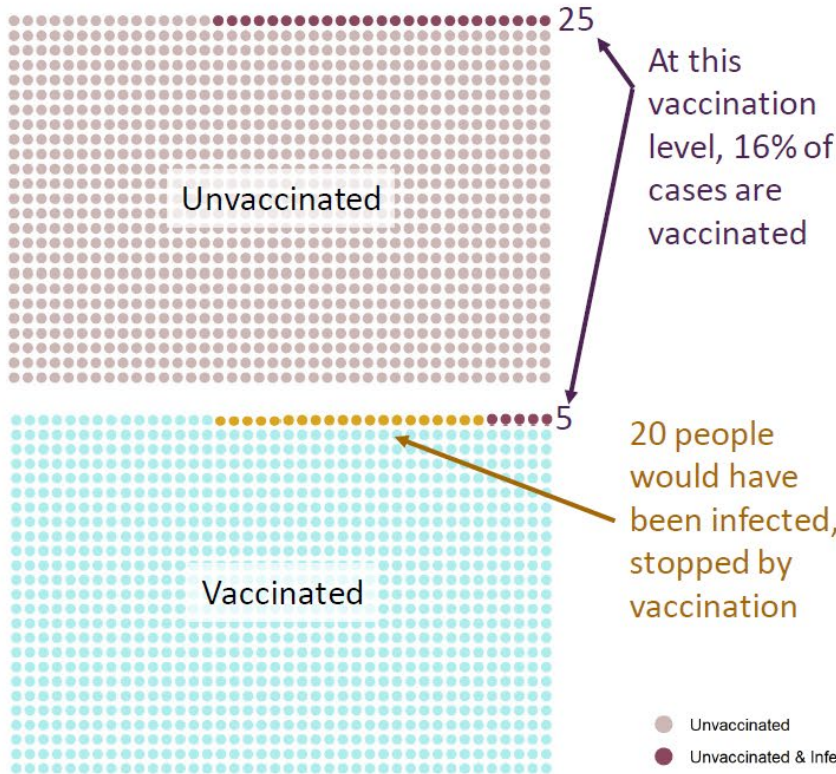
66

% of breakthrough cases:

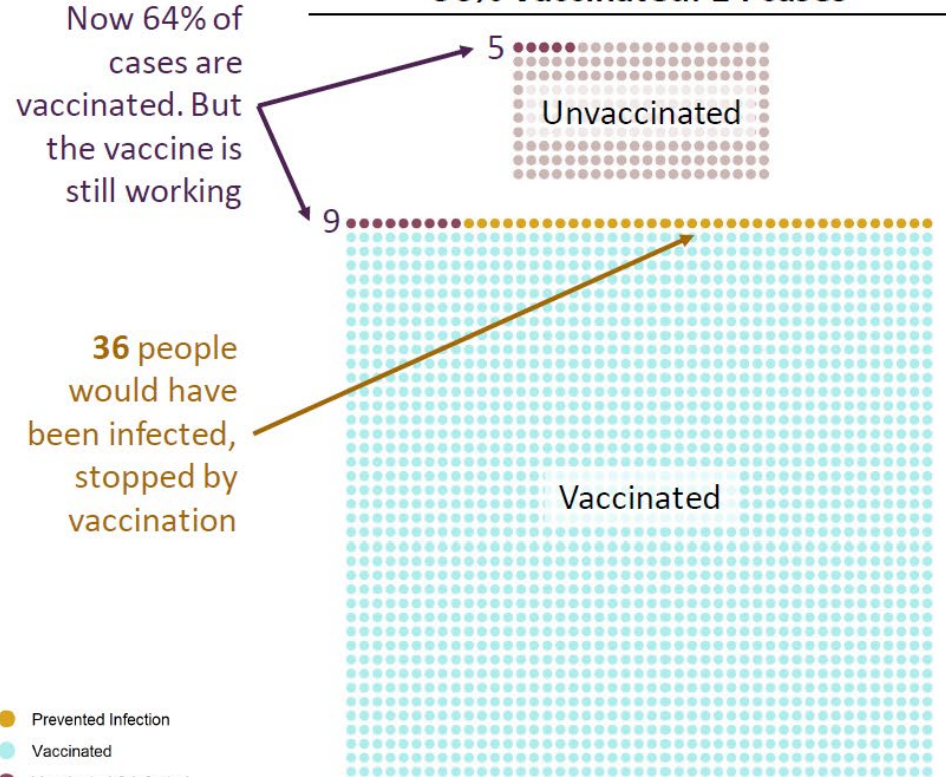
1.36%

When more people are vaccinated, more cases will come from the vaccinated population

50% Vaccinated: 30 cases



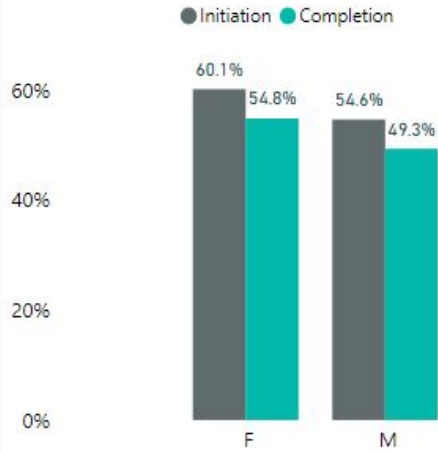
90% Vaccinated: 14 cases



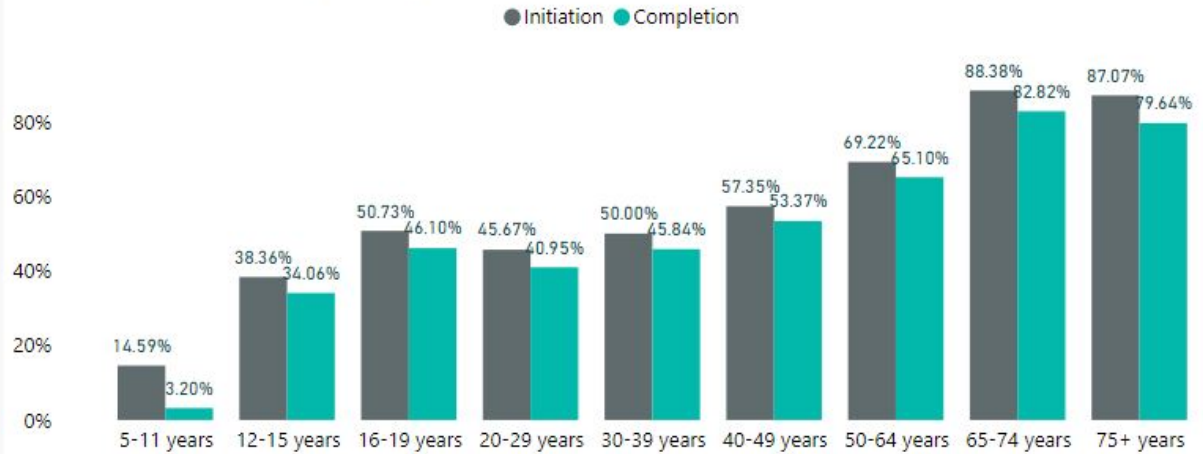
Both Scenarios: Vaccine reduces disease by 80%, 2.5% infection level, 2000 total people

Allegan County Vaccination by Gender and Age Group, As of December 4, 2021

COVID Vaccine Coverage by Sex



COVID Vaccine Coverage by Age Group



Age 5-11

Initiated: 1,610: 14.6%

Completed: <5: 3.2%

Age 12-15

Initiated: 2,581: 38.4%

Completed: 2,292: 34.1%

Age 16-19

Initiated: 2,930: 50.7%

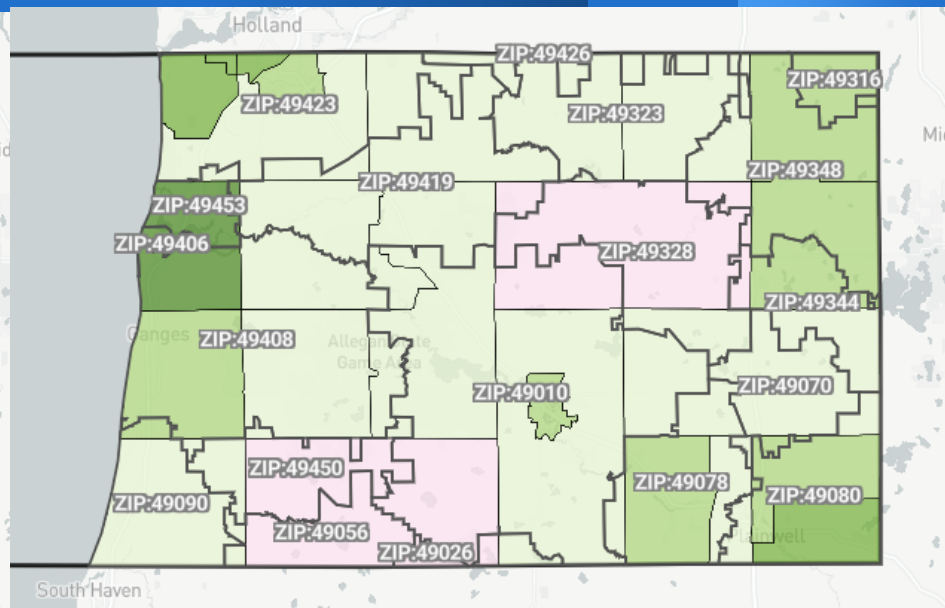
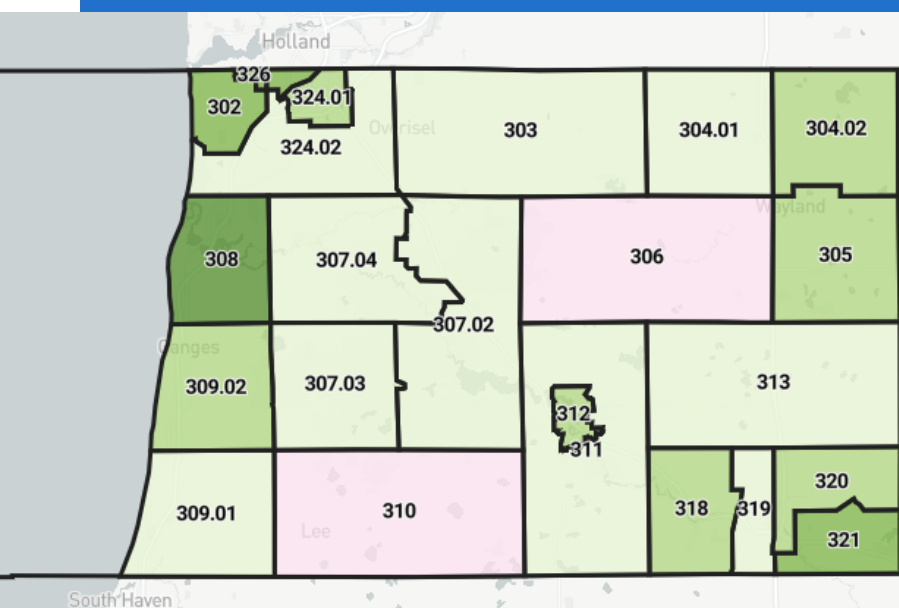
Completed: 2,663: 46.1%

Definitions:

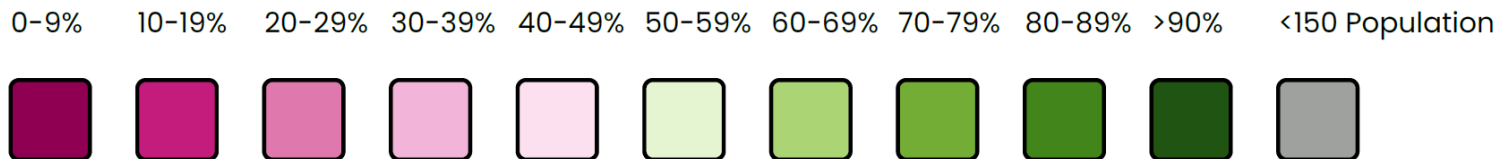
Initiation: Percentage who have received either 1 or more doses of ANY vaccine.

Completion: Percentage of Allegan County Residents receiving 2 doses of Pfizer or Moderna or 1 dose of J&J.

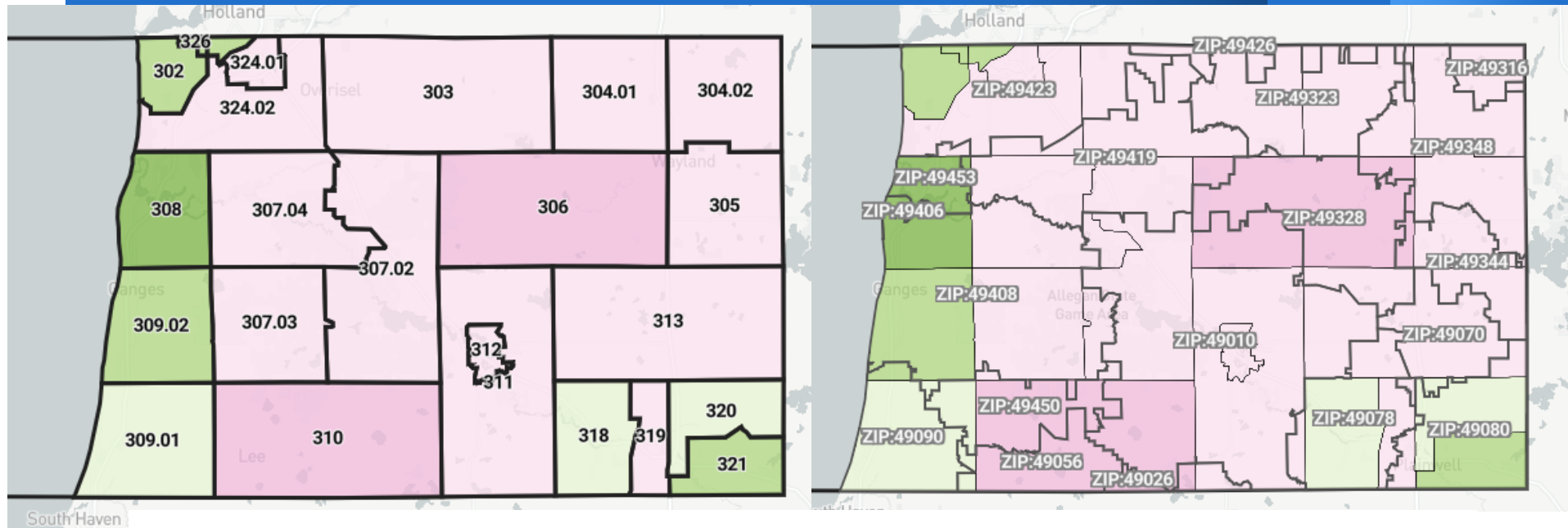
Source: Michigan Disease Surveillance System; [MI COVID-19 Vaccine Dashboard](#)



Color coded by: Fully Vaccinated (% Ages 16+)



Data as of 12/6/21



Color coded by: Fully Vaccinated (% Population)

0-9% 10-19% 20-29% 30-39% 40-49% 50-59% 60-69% 70-79% 80-89% >90% <150 Population



Public Health COVID-19 Advisory

Level of Community Transmission: High

Allegan County Health Department strongly recommends everyone to:



Wear a mask in public

In settings with a lot of people (restaurants, festivals, fairs, events, stores, etc.), wearing a mask provides you extra protection



Get a COVID-19 vaccine

This helps lessen the impact of severe illness, resulting in hospitalization or death

Actions including **social distancing, frequent handwashing, screening and testing, and isolation/quarantine** help lessen the level of transmission

#DoYourPart



HEALTH
Department

CDC Levels of Community Transmission

Allegan County Level of Community Transmission: High

Indicator - If the two indicators suggest different transmission levels, the higher level is selected	Low Transmission Blue	Moderate Transmission Yellow	Substantial Transmission Orange	High Transmission Red
Total new cases per 100,000 persons in the past 7 days	0-9.99	10-49.99	50-99.99	≥100
Percentage of NAATs ¹ that are positive during the past 7 days	0-4.99%	5-7.99%	8-9.99%	≥10.0%

Footnote:

Level of Community Transmission: This metric ** uses two indicators for categorization (1. Total number of new cases per 100,000 persons within the last 7 days and 2. Percentage of positive diagnostic and screening nucleic acid amplification tests (NAAT) during the last 7 days). INAAAT remains the "gold standard" for clinical diagnostic detection of SARS-CoV-2 and includes viral testing such as Nucleic Acid Amplification Tests (NAATs), which include reverse transcriptase-polymerase chain reaction (RT-PCR) tests. Total number of new cases per 100,000 persons within the last 7 days is calculated by adding the number of new cases in the county (or other administrative level) in the last 7 days divided by the population in the county (or other administrative level) and multiplying by 100,000. Percentage of positive diagnostic and screening NAAT during the last 7 days is calculated by dividing the number of positive tests in the county (or other administrative level) during the last 7 days by the total number of tests resulted over the last 7 days. If the two indicators suggest different transmission levels, the higher level is selected. Transmission categories include Blue (Low Transmission); Control is achieved largely through individual prevention behaviors and the public health response to identify and isolate cases or clusters. Threshold: Counties with fewer than 10 cumulative cases per 100,000 population in the past 7 days, and a cumulative NAAT percent test positivity result below 5% in the past 7 days. Yellow (Moderate Transmission); Adherence to individual and selected community level prevention strategies are needed. Threshold: Counties with 10-49 cumulative cases per 100,000 population or a cumulative NAAT test positivity result between 5.0-7.9% in the past 7 days. Orange (Substantial Transmission); Everyday activities should be limited to reduce spread and protect the health care system. Threshold: Counties with 50-99 cumulative cases per 100,000 population or a cumulative NAAT test positivity result between 8.0-9.9% in the past 7 days. Red (High Transmission); Significant measures are needed to limit contact between persons, with priority given to maintaining essential community activities and services (e.g., health care, transportation, food and agriculture, schools). Threshold: Counties with cumulative cases ≥100 per 100,000 population or a cumulative NAAT test positivity result ≥10.0% in the past 7 days. The Level of Community Transmission table displays the number of counties in each level and the change from the prior week.

TOOLS THAT HELP PREVENT COVID-19 IN SCHOOLS/BUSINESSES



What we are trying to do is to get the virus transmission level so low in the community that it can't continue to spread.

- These tools by themselves are helpful, but when paired together, we can get to our intended outcome (low to no virus transmission) quicker.
 - As community transmission increases, we need more tools to help provide protection
 - As vaccination rate within a community increases, fewer tools need to be practiced since there is a layer of protection



Mitigation to Adaptation



COVID-19 Response



Given our current state, how do we move forward with adaptation? What resources are needed to do this?

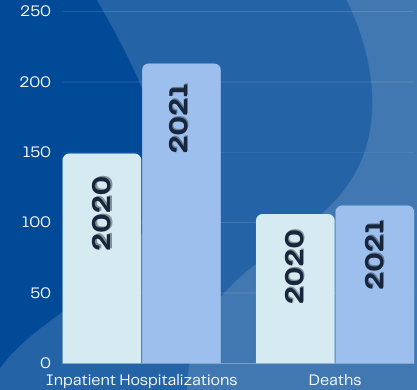
Goal: Recover from the pandemic as a community with a low amount negative impact and high amount of community resiliency

Pandemic: Event in which a disease spreads across several countries and affects a large number of people.

Endemic: The constant presence and/or usual prevalence of a disease or infectious agent in a population within a geographic area.

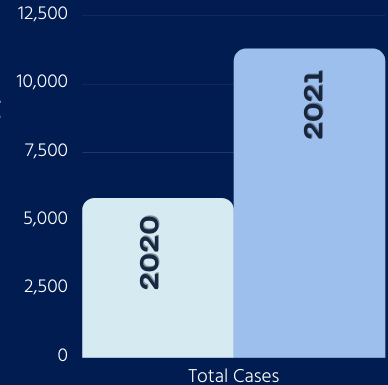
We are not yet in the endemic stage for COVID-19 and still have a response to the pandemic.

Allegan County, 2020 and 2021 data as of 11/19/21



Current State of the Pandemic (where we are at):

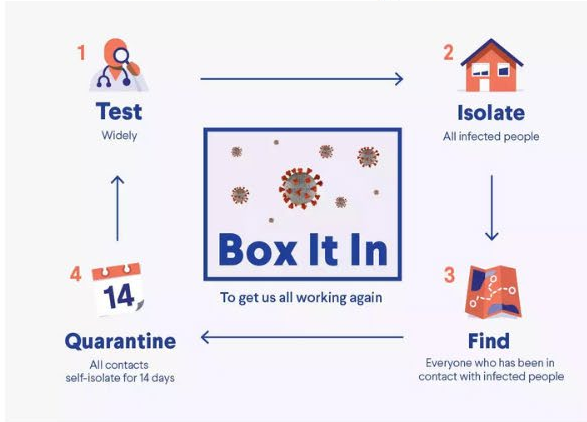
- In November 2020, Allegan County peaked in our most recent surge, the highest surge we've faced thus far.
- Pandemic Fatigue continues, with minimal mitigation strategies being used on a community level
- Politically Divisive charged environment
- Individual behaviors collectively influence community numbers and outcomes
- Allegan County's vaccine coverage rate is lower than the state's average



Enhanced Ability to Test



Ensure timely access to testing for all residents



Testing is incredibly important to quickly identify cases moving forward. **This will help minimize transmission and prevalence of virus in community.**

Home Test Kits



Pharmacy Testing

Community Pop-up Testing



Provider Testing



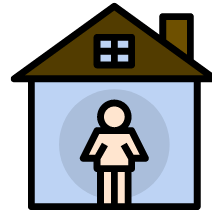
Robust Contact Tracing and Case Investigation



- Provide health education on actions to take
- Evaluate Required Quarantine practices

Local Public Health, based on resources, will only contact trace high risk environments. For non-high risk cases, positive individuals are responsible for notifying close contacts.

Letters of Exposure sent for high risk environments



Isolation when sick (required)

Cases telling close contacts



Quarantine when exposed (recommended).
Testing will allow for early detection of COVID.

Testing on day 3-5 is highly recommended for close contacts to identify asymptomatic cases.

Sufficient Health Care Capacity



- **Provide health education on actions to take**
- **Monitor capacity to include COVID and non-COVID health needs**
- **Surveillance on chronic and infectious diseases in Allegan County**

What chronic diseases in Allegan County may put people in the hospital?
(lung cancer, diabetes, obesity, etc.)

What other infectious diseases that may be circulating in our community?

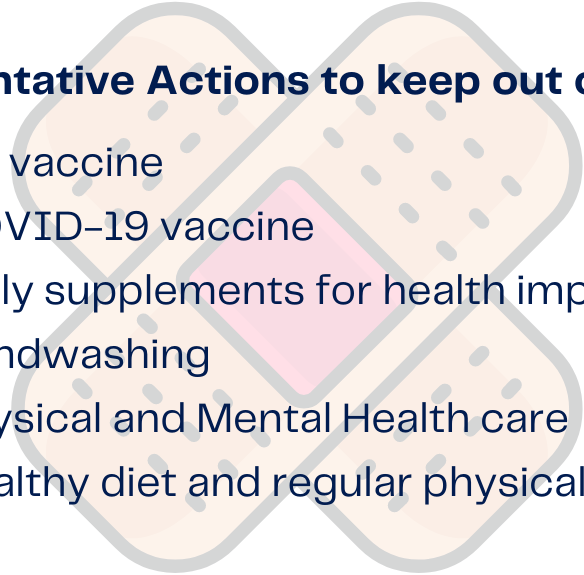


What other things should our community be monitoring?

What partnerships should be in place?

Preventative Actions to keep out of hospital

- Flu vaccine
- COVID-19 vaccine
- Daily supplements for health improvement
- Handwashing
- Physical and Mental Health care
- Healthy diet and regular physical activity



Best Practices for Organizations



- **Workplace policies that improve public health outcomes**
- **Expanding/Building relationships to improve broad public health outcomes**

Policies related to:

Diversity, Equity, Inclusion Health in All policies
Sick Leave

(ex [The Healthy Families Act](#) [Paid Sick Days](#))

Health Screenings

Enhanced Ventilation and
Cleaning

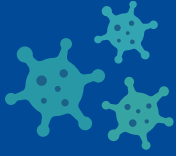
Considering social distancing or other barriers to put/keep in place when establishing work flow processes

Vaccine clinics on site (COVID-19, Flu, Hep A, Hep B, other vaccines for workforce)

Health Education to consider for Employer Wellness Programs

Consider sharing your business experiences with public health

Treatment, Community Vaccination and/or Herd Immunity



- **Determining clinic needs based on availability in the community and where people choose to get vaccinated**
 - **Is there a need for ACHD clinics?**
- **Surveillance for COVID-19 resistant variants (current challenge)**
- **Monitor vaccine rates and infection rates**
- **Implement Vaccine Plan for large vaccine events if needed (vaccine resistant variant)**
- **Ensure access to available COVID-19 treatments**

Socio-Ecological Model

The social ecological model looks at health broadly and focuses on multiple factors that might affect health (social, physical, cultural, environmental).





Evaluating Risk vs. Benefit for COVID and impact to greater community

Individual-level

- What brings value to your life/loved ones/friends?
- What are ways to be more healthy/protected to do those things?

Business/School/Organization Level

- What are your goals/objectives? What are ways to ensure a healthy workplace is in place to meet your goals/objectives?

Community Level

- How can we all work together?

Future State of Public Health Response

COVID-19 pandemic has demonstrated the intersection between health and impact on the economy.

ACHD has prioritized technical assistance to businesses, schools, and other organizations since the start of the pandemic to minimize outbreaks and absenteeism while providing services.

If businesses, schools, or other organizations would like continued technical assistance , then please consider sharing your experience with the Allegan County Board of Commissioners (BOC) at upcoming public meetings (December 9th, January 13th, or by email).

The BOC will consider allocating funding (at the January 13 BOC Meeting) to allow ACHD to continue providing technical assistance, timely case investigation/contact tracing, and other mitigation strategies (if no funding is received, the MDHHS COVID-19 grant funding will be spent by March 2022 and ACHD's response will not include technical assistance to organizations).

MDHHS issues face mask Public Health Advisory due to rising flu and COVID-19 cases

Recommends all Michiganders, regardless of vaccination status, wear a mask in indoor public settings. Face mask advisory will remain in effect until further notice.



MDHHS issues face mask Public Health Advisory due to rising flu and COVID-19 cases

All Michiganders, regardless of vaccination status, should take the following actions to protect against COVID-19 and other respiratory illnesses:

- A** All persons in indoor public settings are advised to wear a face mask, regardless of their vaccination status.
- B** Public establishments are advised to implement masking policies and encourage compliance with such policies.
- C** Individuals who are not fully vaccinated or who are immunocompromised are advised to avoid large crowds or gathering.

Learn more about masking at [Michigan.gov/MaskUp](https://www.michigan.gov/MaskUp).



https://www.michigan.gov/documents/coronavirus/Nov_19_2021_Public_Health_Advisory_741750_7.pdf

5 Tips for a Healthy Holiday Season



- 1 Get vaccinated or a booster if eligible**
- 2 Follow local and state guideline**
- 3 Take precautions indoors**
- 4 Choose outdoor spaces when possible**
- 5 Stay at home if you are feeling sick**

Children 5–11 Now Eligible for COVID-19 Vaccines

The CDC recommends that all children age 5 and older get a COVID-19 vaccine.

Vaccination is the best way to protect our children, friends, and families from COVID-19



11/3/2021

The dose for children age 5-11 is one-third of the dosage of the vaccine for older adolescents and adults.

OSHA's COVID-19 Vaccination Emergency Temporary Standard

- ▶ The Occupational Safety and Health Administration (OSHA) has released an emergency temporary standard (ETS) requiring private employers with 100 or more employees to mandate vaccination or weekly testing and masking for their unvaccinated employees. **The ETS requires covered employers to ensure all unvaccinated workers begin wearing masks by Dec. 5, 2021, and provide a negative COVID-19 test on a weekly basis beginning Jan. 4, 2022.**
- ▶ OSHA stated that it has suspended activities related to the implementation and enforcement of the ETS pending future developments in the litigation
- ▶ Find OSHA resources, including template policies for vaccinations and testing [here](#)

Testing for Employees

- ▶ To find labs that can partner for testing, click [here](#).
- ▶ To refer staff to testing at a pharmacy, click [here](#).
- ▶ To find local testing events, click [here](#).

CMS Requirements for Vaccination

- ▶ Find the Interim Final Rule [here](#)

Which staff are covered under this requirement?

- ▶ This vaccination requirement applies to eligible staff working at almost all CMS-certified facilities that participate in the Medicare and Medicaid programs, regardless of clinical responsibility or patient contact. The requirement includes all current staff as well as any new staff who provide any care, treatment, or other services for the facility and/or its patients. This includes facility employees, licensed practitioners, students, trainees, and volunteers. Additionally, this also includes individuals who provide care, treatment, or other services for the facility and/or its patients under contract or other arrangements.



DECEMBER VACCINE CLINICS



 **VACCINATING AGES 5 AND UP AT ALL CLINICS**

Make an appointment ahead of time by visiting www.allegancounty.org/covid

Saturday, December 4 | 10:00am–1:00pm

Walk-ins available from 11:00am–12:30pm
Wayland High School, 870 E. Superior St.,
Wayland

Thursday, December 9 | 5:00pm–7:30pm

Walk-ins available from 5:30pm–7:00pm
Starr Elementary School, 601 School Dr, Plainwell

Sunday, December 12 | 3:00pm–6:00pm

Walk-ins available from 4:00pm–5:30pm
Hamilton High School, 4911 136th ave, Hamilton

Tuesday, December 14 | 3:00pm–5:00pm

Walk-ins available from 3:30pm–4:30pm
Casco United Methodist Church,
880 66th St., South Haven

Tuesday, December 20 | 3:00pm–5:00pm

Walk-ins available from 3:30pm–4:30pm
Allegan High School, 1560 M-40, Allegan

Tuesday, December 28 | 3:30pm–6:30pm

Walk-ins available from 4:00pm–5:30pm
Saugatuck High School, 401 Elizabeth St.,
Saugatuck

Pfizer–BioNTech, Moderna, and J&J Booster Shots available to those 18+

(Minors ages 5 to 17 will need a parent or legal guardian to accompany them to their appointment in order to provide consent to receive the COVID-19 vaccine. The dose for children age 5–11 is one-third of the dosage of the vaccine for older adolescents and adults.)

Please schedule an appointment ahead of time by visiting www.allegancounty.org/health/covid-19

Spanish Version found in Appendices section of PowerPoint



HEALTH
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FREE

DRIVE THRU COVID-19 TESTING EVENTS



GRATIS

CONDUCE A TRAVÉS DE EVENTOS DE PRUEBA DE COVID 19



Every Wednesday: 1pm - 7pm

**Allegan County Transportation Building
750 Airway Dr., Allegan**



FREE Drive-thru Rapid COVID-19 testing

Available to individuals of any age, regardless of symptoms.

Individuals under the age of 18 will need parental/guardian consent.

No pre-registration | No insurance needed | No doctor's note needed



NOTICE: In the event of severe weather, ACHD will cancel testing events for the protection of staff and residents. Please check our Facebook page @AlleganCountyHD or call 269-686-4546 for any cancellation notices the day of the event.



**HEALTH
Department**

Cada Miércoles: 1pm - 7pm

**Allegan County Transportation Building
750 Airway Dr., Allegan**



COVID-19 rápido para conducir GRATIS

Disponible para personas de cualquier edad*, independientemente de los síntomas. Las personas menores de 18 años necesitarán el consentimiento de los padres / tutores.

Sin preinscripción | No se necesita seguro | No se necesita una nota del médico



AVISO: En caso de mal tiempo, ACHD cancelará los eventos de prueba para la protección del personal y los residentes. Consulte nuestra página de Facebook @AlleganCountyHD o llame al 269-686-4546 para recibir avisos de cancelación el día del evento.



**HEALTH
Department**

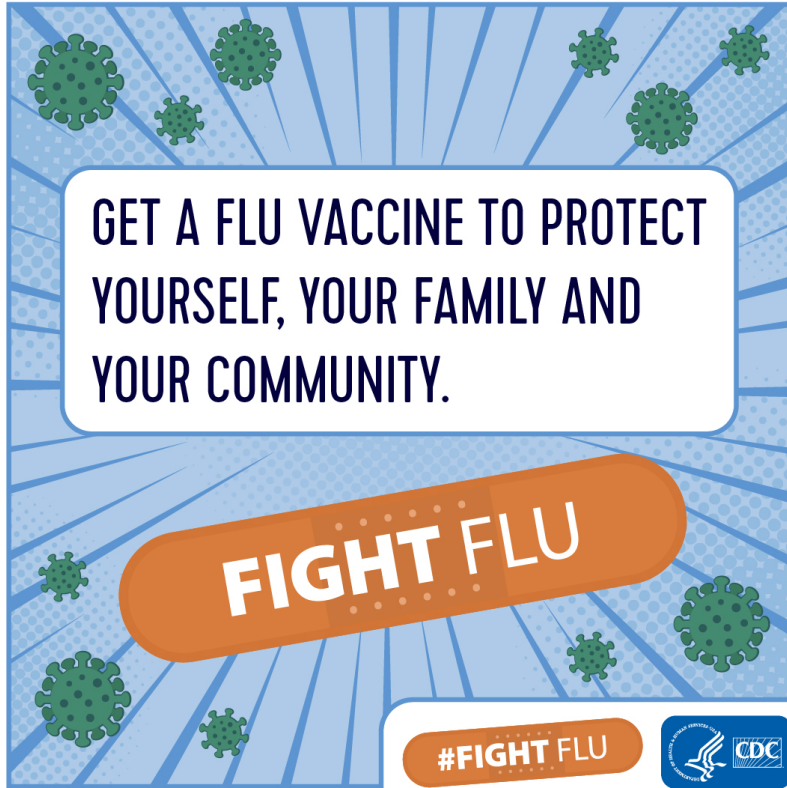
Testing Expanded:

- ▶ Thursday, December 9 from 3:30pm-7pm at [Plainwell Middle School](#)
- ▶ Sunday, December 12 from 3pm-7pm at [Hamilton High School](#)
- ▶ Tuesday, December 14 from 3pm-5pm at [Casco United Methodist Church](#)
- ▶ Monday, December 20 from 3pm - 5pm at [Allegan High School](#)

These testing events happen at the same locations as vaccine clinic events. Please follow testing signage in the parking lots upon arrival. Testing events are curbside so individuals do not need to leave their vehicles. Registration is not required, but highly encouraged.

National Influenza Vaccination Week: December 5 through December 11


- Find a flu vaccine near you visit: www.vaccines.gov



GET A FLU VACCINE TO PROTECT YOURSELF, YOUR FAMILY AND YOUR COMMUNITY.

FIGHT FLU

#FIGHT FLU



I get it
to protect
myself

It's National Influenza
Vaccination Week!
Get your flu shot today.

#FIGHT FLU



New Allegan County Website Launched 11/30/21

COVID-19 Updates & Information from Public Health >>



ALLEGAN COUNTY
• MICHIGAN •

Customer Satisfaction Survey

Find a Service

Search...



Online Services

Departments

Courts & Law Enforcement

Health

Connect



PROPERTY &
TAX



RESERVE
CAMPSITES



PAY TAXES



JOBS



GIS & MAPS

EVENTS

NEWS

SPOTLIGHT

Health Department Home:

www.allegancounty.org/health

New COVID page link:

www.allegancounty.org/health/covid-19

**ACHD will not have a
COVID-19 call on
12/22/21. We will still
send slides.**

**ACHD COVID-19 Updates
are held on the 2nd and
last Wednesday of every
month.**

Questions?

Questions, concerns, or more information needed?

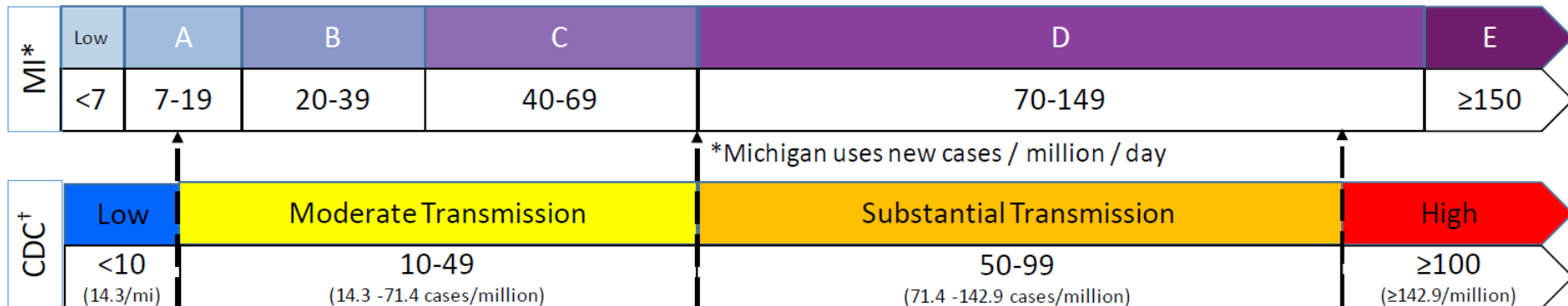
Please complete an [inquiry form](#)

Appendices

Appendix A

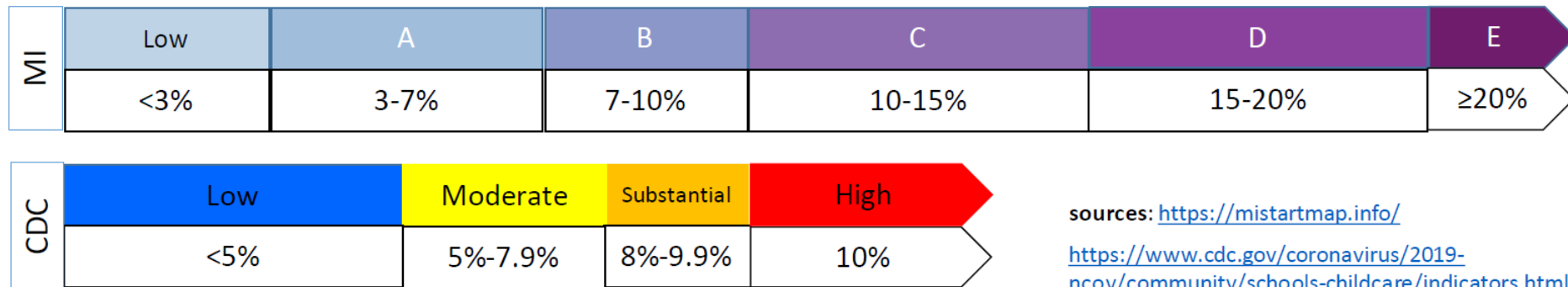
Comparing CDC community transmission thresholds to MI levels

Case Rate*†



† CDC uses cases / 100,000 / week (conversion to MI metrics in paratheses)

Percent Positivity



sources: <https://mistartmap.info/>

<https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/indicators.html>



DICIEMBRE CLÍNICAS DE VACUNACIÓN



VACUNACIÓN DE 5 AÑOS EN ADELANTE

Concierte una cita con anticipación visitando: www.allegancounty.org/covid

Sabado, Diciembre 4 | 10:00am-1:00pm

Se aceptan visitas sin cita previa: 11:00am-12:30pm

Wayland High School, 870 E. Superior St.,
Wayland

Jueves, Diciembre 9 | 5:00pm-7:30pm

Se aceptan visitas sin cita previa: 5:30pm-7:00pm

Starr Elementary School, 601 School Dr,
Plainwell

Domingo, Diciembre 12 | 3:00pm-6:00pm

Se aceptan visitas sin cita previa: 4:00pm-5:30pm

Hamilton High School, 4911 136th ave, Hamilton

Martes, Diciembre 14 | 3:00pm-5:00pm

Se aceptan visitas sin cita previa: 3:30pm-4:30pm

Casco United Methodist Church,
880 66th St., South Haven

Martes, Diciembre 20 | 3:00pm-5:00pm

Se aceptan visitas sin cita previa: 3:30pm-4:30pm

Allegan High School, 1560 M-40, Allegan

Martes, Diciembre 28 | 3:30pm-6:30pm

Se aceptan visitas sin cita previa: 4:00pm-5:30pm

Saugatuck High School, 401 Elizabeth St.,
Saugatuck

Pfizer-BioNTech, Moderna, y J&J Booster Shots disponibles para aquellos que son elegibles

(Los niños de 5 a 17 años necesitarán un padre o tutor legal que los acompañe a su cita para dar su consentimiento para la vacuna COVID-19. Los niños de 5 a 11 años pueden recibir la vacuna pediátrica de Pfizer. Los niños de 12 años en adelante pueden recibir la vacuna de Pfizer.)



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