

Ottawa County COVID-19 Epidemiology

June 02, 2022

Data as of May 28, 2022, unless otherwise indicated

www.miOttawa.org/miHealth

Our Vision Healthy People

Executive Summary

• Transmission in the US and in Michigan may be slowing

Ottawa County transmission may be slowing

- This past week positivity **decreased** slightly to 23.5%, from 23.8% seen two weeks ago.
- Weekly case counts **decreased** 20% (-1% two weeks ago), from 542 two weeks ago to 432 last week.
- Cases among children **decreased** 10% (+7% two weeks ago), from 61 two weeks ago to 55 last week.
- COVID-19 wastewater signals in Holland/Zeeland are trending down.
- Ottawa remains in the LOW CDC Community Level.

Ottawa-area and regional hospitals have adequate capacity

- In Ottawa County, 2% of all available beds and 0% of all ICU beds are occupied by COVID-19 patients.*
- Ottawa County hospitals are utilizing usual care strategies, are reporting adequate staffing, and are minimizing Ottawa County ED diversion.
- Pediatric hospitalization rates in the US and in Michigan remain relatively low
 - Regional pediatric hospitalization census fell below pandemic average last week.

• Of Ottawa County residents aged 5+, 63% are fully vaccinated

*Some hospitals in Ottawa County immediately transfer acutely ill adults or children to regional hospitals that offer a higher level of care. This practice may reduce the proportion of beds occupied by COVID-19 patients in Ottawa and increase bed occupancy in urban centers with large hospitals, such as Kent County.

Limitations

Case Counts, Case Rates, and Test Positivity

With the widescale availability of at-home antigen tests for COVID-19 which are not reported or included in public health surveillance data, the case counts and case rates in this report underestimate the true burden of disease. However, it is expected that trends reflect the relative amount of transmission in the community.

Wastewater Surveillance

Wastewater samples are collected from specific geographic sites in the county and may not reflect COVID-19 burden across the entire county population. However, detected trends generally correlate with case rates, therefore wastewater readings are displayed alongside countywide incidence rates in this report.

Ottawa County Metrics by Week

				Week Ending		
Metric	Goal	30-Apr-22	7-May-22	14-May-22	21-May-22	28-May-22
Positivity (All Ages)	NA	16.3%	20.1%	22.9%	23.8%	23.5%
Weekly Cases (All Ages)	<592	313	467	550	542	432
Weekly Cases in Children (0-17 years of age)	NA	42	51	57	61	55
Total Deaths (All Ages)	0	2	3	1	1	0
CDC COVID-19 Community Level (New)	Low	Low	Low	Low	Low	Low

Please note that with updated CDC Community Risk Transmission levels, metrics and/or metric thresholds/goals may change.

Notes: Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in an artificially deflated number of cases. Hospitalization and/or death may occur after initial infection, meaning the number of hospitalizations and deaths from recent weeks may increase

Case Trends in the USA and Michigan

Michigan **USA** Daily Trends in Number of COVID-19 Cases in Michigan Reported to CDC Daily Trends in Number of COVID-19 Cases in The United States Reported to CDC 1.21 60 Daily Cases 800 dses J dily 400 200 Nov 6, '20 Mar 30, '21 Aug 21, '21 Jan 23, '20 Jun 15, '20 Jan 12 '22 May 31 Jun 15. '20 Nov 6, '20 Mar 30, '21 Aug 21, '21 Jan 12, '22 Jan 23 May 31, '22 Jan 23, '20 May 31, '22 Jan 23, '20

Daily case counts in the US and Michigan remain lower than previous surges. Recent uptrends in the US and Michigan may have slowed.

Note: Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in an artificially deflated number of cases. **Source:** <u>https://covid.cdc.gov/covid-data-tracker/#trends_dailycases</u>

Hospitalizations



Science

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USA & MI

Spread

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Variants

Risk Levels

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Other

Case Trends in Ottawa County

COVID-19 Cases by Day, Ottawa County, March 15, 2020 – June 01, 2022



Science

Roundup

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Notes: Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in an artificially deflated number of cases. Additionally, On November 12, 2021, MDHHS updated their database resulting in a backlog of cases being reported in one day.

Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	> M
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Test Positivity in Ottawa County COVID-19 Cases by Day, Ottawa County, January 1, 2022 – May 28, 2022



Note: Testing data and can be found at the following sources: Testing Results | Ottawa County Covid-19 Case Summary Data (arcgis.com) & https://www.mistartmap.info/mism-indicators?area=county%3Aottawa. Use of at-home tests likely reduces the number of positive tests reported to Public Health, resulting in an artificially deflated number of cases.

Source: https://www.mistartmap.info/cdc-indicators?area=county%3Aottawa

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Case Rates in Ottawa County – All Ages COVID-19 Cases by Day, Ottawa County, January 1, 2022 – May 28, 2022



Ottawa County Time Trends – Annual Comparison of Case Rates



Note: Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. **Source:** Internal Data

USA & MI Spread Children Hospitalizations Vaccinations Variants Risk Levels Other Media Science Roundup

Data through June 01, 2022

Ottawa County – Cases & Deaths by Week, All Ages



Note: Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated number of cases. **Source:** Michigan Department of Health and Human Services, Michigan Disease Surveillance System

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Ottawa County - Case Rate Trends – by Age Decade

COVID-19 Case Rates by Age, November 2021 – June 01, 2022



Ottawa County - Case Rate Trends – by Age Decade

Daily new confirmed and probable cases per day per million by age group (daily average per week) Week 21 (May 22, 2022 – May 28, 2022)

Age Decade (Years)	Average Daily Cases	Average Daily Case Rate	One Week % Rate Change
0-9	4.1	112.4	-3%
10-19	5.4	122.6	0%
20-29	10.1	224.2	-32%
30-39	10.9	303.0	-1%
40-49	8.7	262.4	-22%
50-59	5.7	163.7	-39%
60-69	8.3	254.4	-17%
70-79	5.7	276.6	5%
80+	2.4	218.3	-56%

Age groups with highest average case rates last week: 1. 30-39 2. 70-79 3. 40-49

Age groups with largest week-over-week <u>increase</u> in case rates: 1. 70-79

Notes: Average daily cases is calculated by summing the weekly total number of cases and dividing by seven. Cases counted in weeks of interest reflect referral date. Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates.

Vaccinations

Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System; CDC Wonder 2020 population

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Data as June 1, 2022

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Holland-Zeeland Wastewater Surveillance

SARS-CoV-2 Virus Detected/Litre by Sample Date With COVID-19 Case Rates/Million by Referral Date (7-Day Averages)

SARS-CoV-2 Virus Detected/Litre
 Case Rates/Million



Data Interpretation: The blue line on the graph shows the 7-day average levels of SARS-CoV-2 virus (N2 markers) detected in wastewater sampled from treatment plants in Holland & Zeeland. The gray line on the graph represents the 7-day average COVID-19 case rates/million for all of Ottawa County by referral date.

Note: Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. Display of wastewater data may change as analytical methods are refined. Source: Hope College Global Water Research Institute as part of the MDHHS SEWER-Network, Aaron Best, Ph.D. (best@hope.edu)

Additional Information: Michigan COVID-19 Wastewater Surveillance Pilot Project (arcgis.com), Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project (SWEEP) (michigan.gov)

Data through May 31, 2022

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Ottawa County Weekly Case Counts and % Change, by Age

	Adult	s (18+)	Children (0-17 years)	To	otal
Week Ending	Number	% Change from Previous Week	Number	% Change from Previous Week	Number	% Change from Previous Week
26-Mar-22	137	36%	13	-35%	150	24%
2-Apr-22	108	-21%	17	31%	125	-17%
9-Apr-22	113	5%	13	-24%	126	1%
16-Apr-22	165	46%	19	46%	184	46%
23-Apr-22	240	45%	27	42%	267	45%
30-Apr-22	270	13%	42	56%	312	17%
7-May-22	415	54%	51	21%	466	49%
14-May-22	488	18%	57	12%	545	17%
21-May-22	481	-1%	61	7%	542	-1%
28-May-22	377	-22%	55	-10%	432	-20%
				Children		

Weekly case counts among children decreased 10% last week, and cases in adults decreased 22%.

Adults

Children

Note: Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case counts. Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

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Ottawa County – Cases & Deaths by Week Among Children (0-17 years)

The weekly number of cases among children **decreased 10%** from week 20 to week 21.

Ottawa County - Case Rate Trends – by Age

COVID-19 Case Rates by Age, includes School-Aged, November 2021 – June 01, 2022



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Ottawa County Cases in PreK-12 School Students



Method: Includes PreK-12 students known to attend a school in Ottawa County who are classified as a confirmed or probable case of COVID-19.

Note: Data may change as information is updated and methods are refined. Cases reported in 2022 will likely increase. The peak of 143 cases reported on November 12, 2021 is the result of a database update by MDHHS that reported a backlog of cases from the previous days. Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case counts. Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System; Internal data systems
Data through June 1, 2022

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	
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Weekly Hospital Pediatric Census – A Regional Healthcare System



Note: Data above includes persons younger than 18 years of age with confirmed COVID-19 hospitalized at a large regional healthcare system. Patients may be listed in more than one week. Data may change as information is updated. Includes patients that reside in counties across the region, including Ottawa County.

Data through May 29, 2022

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Ottawa County Hospital Capacity – All Beds



Ottawa County Hospital Capacity – ICU Beds



Overall ICU bed occupancy is below the pandemic average.

The proportion of ICU beds occupied by COVID-19 patients **is below the pandemic average.** Currently, **0%** of ICU beds are occupied by COVID-19 patients.

Data through June 01, 2022

Science

Roundup

Statewide Hospitalization Trends: Regional COVID+ Census



This week the COVID+ hospital census has increased in Regions 1 and 3 while decreasing in Regions 2N, 2S, 5, 6, 7, and 8.

Regions 2N, 2S, and 3 have greater than 100 hospitalizations/M

Region	COVID+ Hospitalizations (% Δ from last week)	COVID+ Hospitalizations / MM
Region 1	79 (16%)	73/M
Region 2N	228 (-24%)	103/M
Region 2S	322 (-2%)	145/M
Region 3	119 (3%)	105/M
Region 5	46 (-4%)	48/M
Region 6	107 (-6%)	73/M
Region 7	39 (-3%)	78/M
Region 8	20 (-9%)	64/M

Source: MDHHS Data and Modelling: MI COVID response Data and modeling update (michigan.gov)

Children

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Hospitalizations Vaccinations

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Statewide Hospitalization Trends: ICU COVID+ Census



Overall, the census of COVID+ patients in ICUs has decreased by 19% from last week. There are 100 COVID+ patients in ICU beds across the state.

COVID+ ICU census has decreased in all regions except Region 8 (total 5 patients).

Region	Region Adult COVID+ in ICU (% Δ from last week)		% of ICU beds COVID+	
Region 1	6 (-40%)	85%	3%	
Region 2N	29 (-12%)	68%	5%	
Region 2S	egion 2S 34 (-13%)		5%	
Region 3	11 (-21%)	91%	3%	
Region 5	4 (-50%)	70%	2%	
Region 6	5 (-50%)	73%	2%	
Region 7 6 (-14%)		82%	4%	
Region 8	5 (200%)	62%	8%	

Source: MDHHS Data and Modelling: <u>MI COVID response Data and modeling update (michigan.gov)</u>

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Vaccinations

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Pediatric Hospitalization Rates – USA, Michigan

MI | 0 - 17 Years

Accessed June 01, 2022

United States | 0 - 17 Years 1.5 1.5 New Admissions per 100,000 Population New Admissions per 100,000 Population 1.01.0 0.5 0.5 0.0 0.0 Jan 2021 Jul 2021 Jan 2022 Jan 2021 Jul 2021 Jan 2022

> Pediatric hospitalization rates across the US continue increasing. **Rates in Michigan recently fell.**

Source: <u>https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions</u>

USA & MI Spread Children Hospitalizations Vaccinations Variants Risk Levels Other Media Science Roundup

Pediatric Hospitalization Rates by Age Group – USA



The Coronavirus Disease 2019 (COVID-19)-Associated Hospitalization Surveillance Network (COVID-NET) hospitalization data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag. Lag for COVID-NET case identification and reporting might increase around holidays or during periods of increased hospital utilization. As data are received each week, prior case counts and rates are updated accordingly. COVID-NET conducts population-based surveillance for laboratory-confirmed COVID-19-associated hospitalizations in children (less than 18 years of age) and adults. COVID-NET covers nearly 100 counties in the 10 Emerging Infections Program (EIP) states (CA, CO, CT, GA, MD, MN, NY, OR, TN) and four Influenza Hospitalization Surveillance Project (IHSP) states (IA, MI, OH, and UT). Incidence rates (per 100,000 population) are calculated using the National Center for Health Statistics (NCHS) vintage 2020 bridged-race postcensal population estimates for the counties included in the surveillance catchment area. The rates provided are likely to be underestimated as COVID-19 hospitalizations might be missed due to test availability and provider or facility testing practices.

Starting MMWR week 48, MD data are temporarily removed from weekly rate calculations.

Source: https://covid.cdc.gov/covid-data-tracker/#covidnet-hospitalization-network



Vaccination Coverage by Age



Notes:

Completion is the percentage of people receiving at least 2 doses of Pfizer or Moderna or 1 dose of J&J.

Source: https://www.michigan.gov/coronavirus/resources/covid-19-vaccine/covid-19-dashboard

USA & MI	Children	>	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Data through June 01, 2022

Cumulative Cases by Vaccination Status, Ottawa County, January 15, 2021 – May 28, 2022

Fully Vaccinated People (172,711)						
Cases	Deaths					
Percent of Cases in People	Percent of Deaths in People					
Not Fully Vaccinated	Not Fully Vaccinated					
(37,177 / 57,494)	(292 / 449)					
64.7%	65.0%					
Total Cases Not Fully Vaccinated	Total Deaths Not Fully Vaccinated					
37,177	292					
Total Breakthrough Cases	Total Breakthrough Deaths					
20,317	157					
Percent of Fully Vaccinated People who	Percent of Fully Vaccinated People who					
Developed COVID-19	Died of COVID-19					
(20,317 / 172,711)	(157 / 172,711)					
11.8%	0.09%					
Percent of Cases who were	Percent of Deaths who were					
Fully Vaccinated	Fully Vaccinated					
(20,317 / 57,494)	(157 / 449)					
35.3%	35.0%					
Total Cases	Total Deaths					
57,494	449					

Note:

Fully vaccinated is defined as 2 or more doses of an mRNA vaccination or at least one dose of J&J.

Sources:

Michigan Department of Health and Human Services, Michigan Disease Surveillance System MDHHS COVID-19 Dashboard: <u>https://www.michigan.gov/coronavirus/resources/covid-19-vaccine/covid-19-dashboard</u>

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Ottawa County COVID-19 Vaccination Breakthrough Case Trends



Method:

Daily case counts were obtained from the MDSS and summarized by referral date. Cases were compared to data from the State of Michigan immunization database to confirm COVID-19 vaccination status. Counts of persons completely vaccinated in Ottawa County were compiled from the Michigan COVID-19 vaccination dashboard. The total population denominator was obtained from CDC Wonder; the 2019 population estimate was used. Daily COVID-19 case rates were calculated and averaged over the previous 7 days; a rate of cases per day per million population was used. Cases ineligible for vaccination are included in this data. On December 22, 2021 this figure was updated to compare fully vaccinated and unvaccinated persons, to align more closely with <u>CDC data</u>; partially vaccinated persons were excluded. Fully vaccinated is defined as 2 or more doses of an mRNA vaccination or at least one dose of J&J. **Note:** Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates.

Sources:

Michigan Department of Health and Human Services, Michigan Disease Surveillance System MDHHS COVID-19 Dashboard: <u>https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html</u>

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Ottawa County COVID-19 Vaccination Breakthrough Case Trends By Week



Breakthrough Proportions by Week

Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

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Media

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Variants – Clinical Samples from Ottawa County Residents



Variant Proportions by Week

In June of 2021, most clinical samples* submitted for variant testing were identified as the **Alpha** variant. By the end of July 2021, all clinical samples tested were identified as the **Delta** variant. From late July through early December 2021 all clinical samples submitted for variant testing were identified as the **Delta** variant. In mid-December 2021, the first **Omicron** positive samples were collected in an Ottawa County resident, and **Omicron** continues to be detected into 2022, including the BA.2 variant.

* Swabs from Ottawa County residents that tested positive for COVID-19 by PCR; only a small proportion of all COVID-19 positive tests are tested for variants.

Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

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USA & MI

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Variants – Clinical Samples from Across the USA

United States: 2/20/2022 - 5/28/2022 United States: 5/22/2022 - 5/28/2022 NOWCAST 100% 90% ă Omicron 80% BA.2 BA.2 å BA.2 3A.2 70% BA.2 Among Infectio BA.2 60% BA.2 BA.2 50% BA.2 40% Delta BA.2 30% Other 34.2 20% BA.2 10% **BA.2** 0% 2/26/22 3/5/22 3/12/22 3/19/22 3/26/22 4/2/22 4/9/22 4/16/22 4/23/22 4/30/22 5/7/22 5/14/22 5/21/22 5/28/22 with BA.2.

Collection date, week ending

age

% Viral Lir

USA WHO label Lineage # US Class %Total 95%PI BA.2.12.1 VOC 59.1% 54.7-63.3% BA.2 VOC 34.7% 30.8-38.8% B.1.1.529 VOC 6.1% 4.1-8.8% BA.1.1 VOC 0.1% 0.0-0.1% B.1.617.2 VBM 0.0% 0.0-0.0% Other* 0.1% 0.0-0.1%

* Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.

** These data include Nowcast estimates, which are modeled projections that may differ from weighted estimates generated at later dates

AY.1-AY.133 and their sublineages are aggregated with B.1.617.2. BA.1. BA.3, BA.4, BA.5 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. For regional data, BA.1.1 and its sublineages are also aggregated with B.1.1.529, as they currently cannot be reliably called in each region, Except BA.2.12.1 and its sublineages, BA.2 sublineages are aggreagated

The **Omicron** variant is estimated to account for nearly 100% of all clinical samples collected in the United States the week ending May 28, 2022.

Omicron subvariants are also circulating, with BA.2 variants predominating.



Variants – Wastewater Sampling – Holland/Zeeland

Y	= Detected
N	= Not Detected

Sample Date Site		Delta	Omicron
03/02/2022	North Holland	N	N
03/03/2022	Zeeland	N	N
03/10/2022	Zeeland	N	N
03/13/2022	North Holland	N	N
03/14/2022	Zeeland	N	N
03/17/2022	Zeeland	N	N
03/21/2022	Zeeland	N	Y
03/23/2022	North Holland	N	N
03/24/2022	Zeeland	N	N
03/27/2022	North Holland	N	Ν
04/03/2022	North Holland	N	N
04/04/2022	Zeeland	N	N
04/17/2022	North Holland	N	N
04/18/2022	Zeeland	N	N
04/20/2022	North Holland	N	N
04/21/2022	Zeeland	N	Ν
04/24/2022	North Holland	N	N
04/25/2022	Zeeland	N	N
04/27/2022	North Holland	N	Y
04/28/2022	Zeeland	N	Y
05/01/2022	North Holland	N	Y
05/02/2022	Zeeland	N	Y
05/08/2022	North Holland	N	N
05/09/2022	Zeeland	N	Y
05/11/2022	North Holland	N	N
05/12/2022	Zeeland	N	N
05/15/2022	North Holland	N	Y
05/16/2022	Zeeland	N	N
05/18/2022	North Holland	N	Y
05/19/2022	Zeeland	N	Y
05/22/2022	North Holland	N	Y
05/23/2022	Zeeland	Ν	Y
05/25/2022	North Holland	N	Y
05/26/2022	Zeeland	N	N

The **Delta** variant was consistently detected in Holland and Zeeland wastewater samples through all of November and December of 2021 (data not displayed here).

The **Omicron** variant has been detected in wastewater in Holland and Zeeland since early January 2022 (January and February not displayed here), with renewed, frequent detection in late April and May 2022.

Source: Hope College Global Water Research Institute as part of the MDHHS SEWER-Network, Aaron Best, Ph.D. (best@hope.edu)

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Variants – Wastewater Sampling – Grand Haven/Spring Lake

Ν	=Not Detected
Y	=Detected
	=Not Tested

Date	Sample Name	Delta	Epsilon	Alpha	Omicron
4/13/2022	Allendale Wastewater Treatment Plant	N	Ν	N	Y
4/20/2022	Grand Haven Spring Lake Wastewater	Ν	Ν	N	Y
4/25/2022	Grand Haven Spring Lake Wastewater				Y
4/27/2022	Allendale Wastewater Treatment Plant				Y
5/4/2022	Allendale Wastewater Treatment Plant				Y
5/4/2022	Grand Haven Spring Lake Wastewater				Y
5/9/2022	Allendale Wastewater Treatment Plant				Y
5/9/2022	Grand Haven Spring Lake Wastewater				Y
5/11/2022	Allendale Wastewater Treatment Plant				Y
5/11/2022	Grand Haven Spring Lake Wastewater				Y
5/16/2022	Allendale Wastewater Treatment Plant				Y
5/18/2022	Grand Haven Spring Lake Wastewater				Y
5/23/2022	Allendale Wastewater Treatment Plant				Y
5/25/2022	Allendale Wastewater Treatment Plant				Y
5/25/2022	Grand Haven Spring Lake Wastewater				Y
5/31/2022	Allendale Wastewater Treatment Plant				

The **Omicron** variant was consistently detected in Grand Haven, Spring Lake, and Allendale wastewater samples since January 2022.

Source: MDHHS SEWER Network grant and the Annis Water Resources Institute at GVSU

USA & MI

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COVID-19 Community Levels

COVID-19 Community Levels – Use the Highest Level that Applies to Your Community

New COVID-19 Cases Per 100,000 people in the past 7 days	Indicators	Low	Medium	High
	New COVID-19 admissions per 100,000 population (7-day total)	<10.0	10.0-19.9	≥20.0
Fewer than 200	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	<10.0%	10.0-14.9%	≥15.0%
	New COVID-19 admissions per 100,000 population (7-day total)	NA	<10.0	≥10.0
200 or more	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	NA	<10.0%	≥10.0%

Note: The COVID-19 community level is determined by the higher of the new admissions and inpatient beds metrics, based on the current level of new cases per 100,000 population in the past 7 days.

Source: https://www.cdc.gov/coronavirus/2019-ncov/science/community-levels.html

Spread

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CDC Community Levels – Ottawa County

- Current Community Level in Ottawa LOW
- Current Data:
 - Case Rate (per 100k pop 7-day total) = **136.72**
 - COVID-19 Hospital Admissions (per 100K pop 7-day total) = 2.2
 - COVID-19 Inpatient Hospital Bed Utilization (7-day average) = 2.8%



USA - This Week

COVID-19 Case Rates by County Across the US

Last Week

This Week

Accessed June 01, 2022



Case rates may be flattening across the nation.

Source: https://www.nytimes.com/interactive/2021/us/covid-cases.html

USA & MI Spread Children Hospitalizations Vaccinations Variants Risk Levels Other Media Science Round	USA & MI
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COVID-19 Hospitalization Rates by County Across the US

Current hospitalizations

COVID-19 PATIENTS PER 100,000 PEOPLE

Last Week

Hot spots

AVERAGE







Hospitalization rates remain low across the nation.

Source: https://www.nytimes.com/interactive/2021/us/covid-cases.html IOW ACTOSS LITE NALION. Accessed June 01, 2022									
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COVID-19 News Headlines

COVID outbreaks hit 69 students and staff across 16 Michigan schools

<u>COVID outbreaks hit 69 students and staff across 16 Michigan schools -</u> <u>mlive.com</u> Reported COVID-19 infection levels nearly 6 times higher than last Memorial Day

Reported COVID-19 infection levels nearly 6 times higher than last Memorial Day - ABC News (go.com)

FDA accepts Pfizer application for COVID vaccine in kids under 5, clearing way for June timeline

FDA accepts Pfizer application for COVID vaccine in kids under 5, clearing way for June timeline - ABC News (go.com)

Michigan adds 19,535 cases, 50 deaths from COVID-19 over last week

Michigan adds 19,535 cases, 50 deaths from COVID-19 over last week (detroitnews.com)

Other

Watch Out for Fake COVID-19 Claims When Investing -- Investor Alert

SEC.gov | Watch Out for Fake COVID-19 Claims When Investing -- Investor Alert

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Science Roundup

Association of Zip Code Vaccination Rate With COVID-19 Mortality in Chicago, Illinois

Association of Zip Code Vaccination Rate With COVID-19 Mortality in Chicago, Illinois | Health Disparities | JAMA Network Open | JAMA Network

Mask wearing in community settings reduces SARS-CoV-2 transmission

Mask wearing in community settings reduces SARS-CoV-2 transmission | PNAS

Impact of Gestational COVID-19 on Neonatal

Outcomes

Impact of Gestational COVID-19 on Neonatal Outcomes: Is Vert... : The Pediatric Infectious Disease Journal (Iww.com)

The prevalence of SARS-CoV-2 infection and uptake of COVID-19 antiviral treatments during the BA.2/BA.2.12.1 surge, NewYork City, April-May 2022

The prevalence of SARS-CoV-2 infection and uptake of COVID-19 antiviral treatments during the BA.2/BA.2.12.1 surge, New York City, April-May 2022 | medRxiv

A retrospective cohort study in Chicago found that low zip code–level vaccination rates were associated with more deaths during the Alpha and Delta waves compared to zip codes with higher vaccination coverage. They also concluded that inequitable vaccination coverage exacerbated existing racial and ethnic disparities in COVID-19 deaths.

Findings from a large study done across 92 regions in 6 continents found evidence that mask wearing is associated with a reduction in SARS-CoV-2 transmission.

A prospective, observational and multicentric study involving 13 Spanish hospitals found that intrauterine transmission of SARS-CoV-2 is possible, although rare, with early postnatal transmission through direct contact with infected persons occurring more frequently.

A preprint article reporting result from a cross-sectional survey of New York City (NYC) adult residents concluded that the true magnitude of NYC's Omicron (BA.2/BA.2.12.1) surge was vastly underestimated by routine SARS-CoV-2 surveillance.

USA & MI

Spread

Children Hospitalizations

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