

Ottawa County COVID-19 Epidemiology

March 10, 2022

Data as of March 5, 2022, unless otherwise indicated

www.miOttawa.org/miHealth

Our Vision Healthy People

Executive Summary

- Transmission in Michigan and the US continues to decline
 - CDC recently introduced new community risk levels (learn more here).

Ottawa community transmission levels continue to decline

- This past week positivity declined to 6.3%, lower than 9.5% seen two weeks ago.
- Weekly case counts **decreased** 43% (-36% two weeks ago), from 302 two weeks ago to 172 last week.
- Cases among children decreased 47% (-30% two weeks ago), from 62 two weeks ago to 33 last week.
- The Omicron variant remains the predominate local strain.

Ottawa-area and regional hospitals have improved capacity

- In Ottawa County, 6% of all available beds and 13% of all ICU beds are occupied by COVID-19 patients.*
- No Ottawa-area hospitals employed Emergency Department diversion over the last four weeks.**
- Most Ottawa hospitals are returning to usual care strategies and reinitiating elective procedures.
- No Ottawa-area hospitals reported critical staffing challenges over the last three weeks.

• Pediatric hospitalization rates in the US and in Michigan are improving

- Regional pediatric hospitalization census has fallen below the pandemic average.

• Of Ottawa County residents aged 5+, 62.4% have completed at least their primary vaccination series.

*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.

**Emergency Department diversion may have the following impacts: 1) delayed ambulance turnaround, 2) delayed treatment, 3) increasing short- and long-term mortality rates, 4) lost hospital revenue, 5) increased costs for more ICU care that would have been preventable with timely healthcare access.

Ottawa County Metrics by Week

				Week Ending		
Metric	Goal	5-Feb-22	12-Feb-22	19-Feb-22	26-Feb-22	5-Mar-22
Positivity (All Ages)	NA	25.3%	19.5%	14.1%	9.5%	6.3%
Weekly Cases (All Ages)	<592	1581	876	469	302	172
Weekly Cases in Children (0-17 years of age)	NA	277	183	89	62	33
Total Deaths (All Ages)	0	14	5	6	6	1
CDC COVID-19 Community Level (New)	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

USA





Daily case counts in the US and Michigan are declining.

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.

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Source: https://covid.c	dc.gov/covid-data-tracke	er/#trends_dailycases						Data t	hrough March 8, 2022	
USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	

Case Trends in Ottawa County

COVID-19 Cases by Day, Ottawa County, March 15, 2020 – March 9, 2022

Epidemiological Curve



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	Media	Science Roundup
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Test Positivity in Ottawa County

COVID-19 Cases by Day, Ottawa County, September 1, 2021 – March 5, 2022



Data (arcgis.com) & https://www.mistartmap.info/mism-indicators?area=county%3Aottawa</u>. 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

Spread

Children

Vaccinations

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Other

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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

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Science Roundup

Data through March 9, 2022

Ottawa County – Cases & Deaths by Week, All Ages

New Cases By Week of Referral



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

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Ottawa County - Case Rate Trends – by Age Decade

COVID-19 Case Rates by Age, November 2021 – March 9, 2022

Incidence Rate (7-day Average)



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

Daily new confirmed and probable cases per day per million by age group (daily average per week) Week 9 (February 27, 2022 – March 5, 2022)

Age Decade (Years)	Average Daily Cases	Average Daily Case Rate	One Week % Rate Change	
0-9	3.0	81.5	-45%	Age groups with highest average case rates last week:
10-19	2.0	45.2	-62%	1. 30-39 2. 20.20
20-29	5.0	110.6	-24%	3. 80+
30-39	4.1	115.5	-40%	Age groups with largest
40-49	2.3	69.0	-62%	week-over-week <u>decline</u> in case rates:
50-59	2.7	77.7	-39%	1. 10-19 2. 40.40
60-69	2.4	74.6	-50%	3. 60-69
70-79	1.9	90.1	18%	
80+	1.1	102.4	-33%	

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.

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

Children

Data as March 9, 2022

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Ottawa County – Reinfections by Week





Notes: *For the purposes of this slide a reinfection is considered any Ottawa County resident who was reported two or more times as a confirmed or probable case, with at least 90 days between each referral date. This definition utilizes only cases reported to public health. The gold-standard for determining reinfection includes the variant detected in each infection; comprehensive data on the variant detected are not available for most cases. 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

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Data as of March 9, 2022

Ottawa County Weekly Case Counts and % Change, by Age

	Adul	ts (18+)	Children (0-17 years)		T	otal
Week Ending	Number	% Change from Previous Week	Number	% Change from Previous Week	Number	% Change from Previous Week
2-Oct-21	608	-2%	136	-9%	744	-3%
9-Oct-21	714	17%	197	45%	907	22%
16-Oct-21	765	7%	199	1%	958	6%
23-Oct-21	685	-10%	163	- <mark>1</mark> 8%	848	-11%
30-Oct-21	716	5%	219	34%	935	10%
6-Nov-21	991	38%	351	60%	1342	44%
13-Nov-21	1463	48%	487	39%	1950	45%
20-Nov-21	1662	14%	568	17%	2230	14%
27-Nov-21	1229	-26%	341	-40%	1570	-30%
4-Dec-21	1771	44%	450	32%	2221	41%
11-Dec-21	1236	-30%	302	-33%	1538	-31%
18-Dec-21	940	-24%	214	-29%	1154	-25%
25-Dec-21	766	-19%	149	-30%	915	-21%
1-Jan-22	1525	99%	214	44%	1739	90%
8-Jan-22	2791	83%	443	107%	3234	86%
15-Jan-22	3094	11%	636	44%	3730	15%
22-Jan-22	3145	2%	923	45%	4068	9%
29-Jan-22	2412	-23%	674	-27%	3086	-24%
5-Feb-22	1304	-46%	277	-59%	1581	-49%
12-Feb-22	693	-47%	183	-34%	876	-45%
19-Feb-22	380	-45%	89	-51%	469	-46%
26-Feb-22	240	-37%	62	-30%	302	-36%
5-Mar-22	139	-42%	33	-47%	172	-43%
		Adults		Children		

Weekly case counts among children decreased 47% last week, and cases in adults decreased 42%.

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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Spread

Children

Hospitalizations Vaccinations

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Ottawa County Weekly Case Counts and % in Children (0-17)



During Week 9 in 2022, children made up **19%** of cases reported, elevated compared to other times of the pandemic, but consistent with recent weeks.

For comparison, children aged 0-17 make up about 23.5% of the population in Ottawa County.

Data through Week 9, 2022

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; CDC Wonder 2020

Number of Cases

USA & MI

Spread Children Hospitalizations Vaccinations Variants Risk Levels Other Media Science Roundup

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



USA & MI

Ottawa County - Case Rate Trends – by Age

COVID-19 Case Rates by Age, includes School-Aged, November 2021 – March 9, 2022



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

Incidence Rate (7-day Average)

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	
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Ottawa County Cases in PreK-12 School Students

160



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 March 9, 2022

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



Week Ending Date

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 March 6, 2022

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Ottawa County MIS-C* Cases by Month

Number of Cases



Notes: Includes confirmed and probable cases.

*MIS-C is a rare but serious condition affecting children, associated with recent COVID-19 infection. For more details on MIS-C please visit: https://www.cdc.gov/mis/index.html

Data through March 9, 2022

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



Total hospital bed occupancy remains slightly above the pandemic average.

Currently **6%** of all inpatient beds are occupied by COVID-19 patients. The proportion of beds occupied by COVID-19 patients is in a downtrend, after peaking in early December 2021.

Data through March 9, 2022

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Ottawa County Hospital Capacity – ICU Beds



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Ottawa County Age-Standardized Rates of COVID-19 Cases, Hospitalizations, & Deaths by Vaccination Status

Unvaccinated people aged 5 years and older had:

1.6x1.1.5xRisk of Becoming a COVID-19 CaseRisk of Dying from COVID-19ANDNote8.2 XIn January 2022, compared to people
sccinated with at least a primary series.

Notes: For comparison to the nation please see: https://covid.cdc.gov/covid-data-tracker/#rates-by-vaccine-stat Methods: Both probable and confirmed cases were included, denominators were obtained from CDC Wonder (2019), and standardized population is 2000 US population. Methods may be refined, resulting in updated data.

USA & MI Spread Children Hospitalizations Vaccinations Variants Risk Levels Other Media	Science Roundup
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Statewide Hospitalization Trends: Regional COVID+ Census



This week the COVID+ census has decreased in all regions.

All regions but region 2S are below 100/Million population hospitalized.

Region	COVID+ Hospitalizations (%∆ from last week)	COVID+ Hospitalizations / MM
Region 1	68 (-44%)	63/M
Region 2N	124 (-31%)	56/M
Region 2S	247 (-13%)	111/M
Region 3	82 (-40%)	72/M
Region 5	79 (-34%)	83/M
Region 6	144 (-16%)	98/M
Region 7	48 (-9%)	96/M
Region 8	14 (-39%)	45/M

Source: MDHHS Data and Modelling: https://www.michigan.gov/documents/coronavirus/20220308_Data_and_modeling_update_vMEDIA_749682_7.pdf

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Statewide Hospitalization Trends: ICU COVID+ Census

Hospitalization Trends 3/1/2021 – 3/7/2022 Confirmed Positive in ICUs



Overall, the census of COVID+ patients in ICUs has decreased by 22% from last week (previous week was down by 19%). All regions show decreasing trends in ICU census except Region 7, which has increased by 2 patients overall.

All regions have ICU occupancy below 85%. All regions have 15% or fewer of ICU beds filled with COVID+ patients.

Region	Adult COVID+ in ICU (%∆from last week)	ICU Occupancy	% of ICU beds COVID+
Region 1	14 (-22%)	71%	7%
Region 2N	21 (-25%)	69%	4%
Region 2S	64 (-9%)	76%	9%
Region 3	20 (-46%)	81%	7%
Region 5	11 (-39%)	55%	6%
Region 6	30 (-19%)	71%	12%
Region 7	17 (13%)	70%	13%
Region 8	1 (-83%)	47%	2%

Source: MDHHS Data and Modelling: https://www.michigan.gov/documents/coronavirus/20220308_Data_and_modeling_update_vMEDIA_749682_7.pdf

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Pediatric Hospitalization Rates – USA, Georgia, Michigan



Pediatric hospitalization rates across the US, in Georgia, and in Michigan **show continued improvement**.



Pediatric Hospitalization Rates – Select Midwest States



Ohio, Indiana, and Illinois are all showing **improving pediatric hospitalization rates**.



Pediatric Hospitalization Rates – Select Midwest States



Pediatric hospitalization rates in Minnesota, Wisconsin, and Iowa **are declining**.



Pediatric Hospitalization Rates by Age Group – USA



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/0,9753,7-406-98178_103214_103272-547150--,00.html

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	>
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Data through March 8, 2022

Vaccination Coverage by Place of Residence

Fully vaccinated: % Ages 16+ years



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

Spread

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



Vaccination rates vary across Ottawa County, but most areas have at least 50% of the population aged 16+ completely vaccinated (left).

When considering the entire population (not just those aged 16+), there are pockets of the county with much higher and much lower vaccination rates (right).

★ The vaccination rate for this census tract is likely underestimated because census estimates in this tract may be inflated by seasonal students at a large university.

Fully vaccinated: % Total Population



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



Source: MI-Lighthouse Internal Dashboard

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Vaccinations

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Other

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Media

Data as of March 8, 2022

Science Roundup

Cumulative Cases by Vaccination Status, Ottawa County, January 15, 2021 – March 5, 2022

Fully Vaccinated People (170,749)							
Cases	Deaths						
Percent of Cases in People	Percent of Deaths in People						
Not Fully Vaccinated	Not Fully Vaccinated						
(35,897 / 54,095)	(280 / 426)						
66.4%	65.7%						
Total Cases Not Fully Vaccinated 35 897	Total Deaths Not Fully Vaccinated						
	200						
Total Breakthrough Cases	Total Breakthrough Deaths						
18,198	146						
Percent of Fully Vaccinated People who	Percent of Fully Vaccinated People who						
Developed COVID-19	Died of COVID-19						
(18,198 / 170,749)	(146 / 170,749)						
10.7%	0.09%						
Percent of Cases who were	Percent of Deaths who were						
Fully Vaccinated	Fully Vaccinated						
(18,198 / 54,095)	(146 / 426)						
33.6%	34.3%						
Total Cases	Total Deaths						
54,095	426						

Sources:

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

MDHHS COVID-19 Dashboard: https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Incidence Rate (7-day Average) Recent data may be rategroup ● Fully Vaccinated ● Unvaccinated incomplete As of March 5, 2022, case rates 3.000 among the unvaccinated were 1.9x 2657 day/million higher than among those fully 2.500 vaccinated. 2076 per Average). 1687 Incidence Rate (7-day 1038 1200 702 500 353 114 0 May 2021 Sep 2021 Mar 2021 Jul 2021 Nov 2021 Jan 2022 Mar 2022 Date

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	
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Ottawa County COVID-19 Vaccination Breakthrough Case Trends By Week



Breakthrough Proportions by Week

Through the Delta wave, which was most pronounced August through early December of 2021, about 34% of all cases reported to public heath were breakthrough cases. At the end of 2021 and into 2022, the proportion of vaccine breakthrough cases increased to roughly 52% of cases reported each week. Weekly breakthrough rates observed in Ottawa County are similar to <u>other geographies reporting this same data</u>.

Source:

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

Spread

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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 came back as the **Alpha** variant. By the end of July 2021, all clinical samples tested were returned as the **Delta** variant. From late July through early December 2021 all clinical samples submitted for variant testing came back positive for 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.

* 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

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	>
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Variants – Clinical Samples from Across the USA



Collection date, week ending

United States: 11/28/2021 - 3/5/2022

USA							
WHO label	Lineage #	US Class	%Total	95%PI			
Omicron	BA.1.1	VOC	73.7%	70.1-77.0%			
	B.1.1.529	VOC	14.7%	12.4-17.4%			
	BA.2	VOC	11.6%	9.8-13.6%			
Delta	B.1.617.2	VOC	0.0%	0.0-0.0%			
Other	Other*		0.0%	0.0-0.0%			

United States: 2/27/2022 - 3/5/2022 NOWCAST

* 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 and BA.3 are aggregated with B.1.1.529. For regional data, BA.1.1 is also aggregated with B.1.1.529, as it currently cannot be reliably called in each region. The **Omicron** variant is estimated to account for close to 100% of all clinical samples collected in the United States the week ending March 5, 2022.

Omicron subvariants are also circulating, but their impact on transmission in near-term is unknown.



Variants – Wastewater Sampling – Holland/Zeeland

Sample Date	Site	Delta	Omicron	
01/09/2022	North Holland	Ν	N	
01/10/2022	Zeeland	Ν	Y	
01/12/2022	North Holland	N	Y	
01/13/2022	Zeeland	N	Y	
01/16/2022	North Holland	N	Y	
01/17/2022	Zeeland	N	Y	
01/23/2022	North Holland	N	Y	
01/30/2022	North Holland	N	Y	
01/31/2022	Zeeland	N	Y	
02/13/2022	North Holland	Ν	Y	
02/14/2022	Zeeland	N	Y	
02/16/2022	North Holland	N	Y	
02/17/2022	Zeeland	N	Y	
2/20/2022	North Holland	N	Y	
2/21/2022	Zeeland	Ν	Y	
02/23/2022	North Holland	Ν	Y	
02/24/2022	Zeeland	N	N	
02/27/2022	North Holland	N	N	
02/28/2022	Zeeland	N	N	
03/02/2022	North Holland	N	N	
03/03/2022	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 consistently detected in wastewater in Holland and Zeeland since early January 2022, with less detection over the most recent week – corresponding to reduced case rates and test positivity.

However, **Omicron** has been detected in Holland at other sampling sites in early March 2022 (not listed here).

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

USA & MI

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= Detected

= Not Detected

Children

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Risk Levels

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Other

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(NEW) CDC Community Risk Levels – Ottawa County

- Current Risk Level in Ottawa LOW
- Current Data:
 - Case Rate (per 100k pop 7-day total) = 97.32
 - COVID-19 Hospital Admissions (per 100K pop 7-day total) = 1.2
 - COVID Inpatient Hospital Bed Utilization (7-day average) = 6.9%



USA - This Week

COVID-19 Case Rates by County Across the US



Case rates continue to improve across the nation.

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

USA & MI	Spread	Children	Hospitalizations
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Accessed March 10, 2022 Science

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COVID-19 Hospitalization Rates by County Across the US



Hospitalization rates continue to improve across the nation.

Accessed March 10, 2022

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

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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Status of School Mask Rules

Place	Status	Tentative Rescind Date				
State						
California	In place	March 11, 2022				
Connecticut	Rescinded	-				
Delaware	Rescinded	-				
Hawaii	In place	-				
Illinois	Rescinded	-				
Maryland	Rescinded	-				
Massachusetts	Rescinded	-				
New Mexico	Rescinded	-				
New Jersey	Rescinded	-				
New York	Rescinded	-				
Nevada	Rescinded	-				
Oregon	In place	March 11, 2022				
Rhode Island	Rescinded	-				
Washington	In place	March 11, 2022				
Washington D.C.	In place	-				
Michigan County						
No Counties with Mask Rules in Place						
Ottawa School District						
No School Districts with Mask Rules in Place						

Note: Information is changing rapidly, list may not be comprehensive or up-to-date.

Spread

USA & MI

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As of March 10, 2022

COVID-19 News Headlines

Percentage of positive coronavirus tests hits seven-month low in Michigan

https://www.mlive.com/public-interest/2022/03/percentage-of-positive-coronavirus-testshits-eight-month-low-in-michigan.html

No outbreaks, few COVID cases for local schools

https://www.hollandsentinel.com/story/news/education/2022/03/01/no-new-outbreaks-few-new-covid-cases-local-schools-last-week/6971699001/

Under new CDC criteria, Ottawa, Allegan counties 'low risk' for COVID-19

https://www.hollandsentinel.com/story/news/coronavirus/2022/03/01/under-new-cdccriteria-ottawa-allegan-counties-low-risk-covid-19/6972744001/

USA & MI

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Science Roundup

SARS-CoV-2 Incidence in K–12 School Districts with Mask-Required Versus Mask-Optional Policies — Arkansas, August–October 2021 <u>https://www.cdc.gov/mmwr/volumes/71/wr/mm7110e1.htm?s_cid=mm7110e1_e</u>	 that public school districts with full mask requirements had lower incidences of COVID- 19 among students and staff members than did districts without mask requirements.
School Masking Policies and Secondary SARS-CoV-2 Transmission https://publications.aap.org/pediatrics/article/doi/10.1542/peds.2022-056687/185379/School- Masking-Policies-and-Secondary-SARS-CoV-2	A multi-state open cohort study of K-12 schools found that secondary transmission was modest and universal masking was associated with reduced secondary transmission compared to optional masking.
Secondary Attack Rates for Omicron and Delta Variants of SARS-CoV-2 in Norwegian Households https://jamanetwork.com/journals/jama/fullarticle/2789920	A study in Norway found that secondary attack rate of SARS-CoV-2 in Norwegian households was moderately higher when the index case had the Omicron variant rather than the Delta variant.
SARS-CoV-2 B.1.1.529 (Omicron) Variant Transmission Within Households — Four U.S. Jurisdictions, November 2021–February 2022 https://www.cdc.gov/mmwr/volumes/71/wr/mm7109e1.htm?s_cid=mm7109e1_w	 A CDC-published study found that Omicron infection resulted in high transmission among household contacts, particularly among those who lived with index patients who were not vaccinated or who did not take measures to reduce the risk of household transmission.

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A CDC-published study from Arkansas found

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