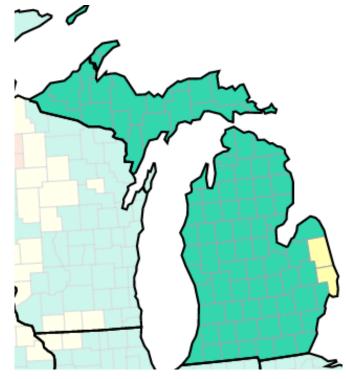
MI COVID RESPONSE DATA AND MODELING UPDATE

February 28, 2023

As of Feb 23, No Michigan Counties are at High COVID-19 Community Level



Percent of Counties This Week

	United	Percent of MI		
	States	Michigan	Population	
Low	78%	98%	98%	
Medium	20%	2%	2%	
High	2%	0%	0%	

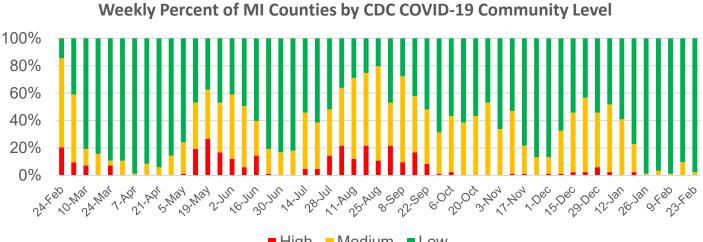
- In the US, 2% of counties are at high risk for medically significant disease and healthcare strain
- In Michigan, 0% (0/83) of counties are at high risk. This represents 0% of the population
- 2 Michigan county is currently at Medium level (2%). This represents 2% of the population
- 81 Michigan counties are currently at Low level (98%). This represents nearly 98% of the population

Low	Medium	High
 Stay <u>up to date</u> with COVID-19 vaccines <u>Get tested</u> if you have symptoms 	 If you are <u>at high risk for severe</u> <u>illness</u>, talk to your healthcare provider about whether you need to wear a mask and take other precautions Stay <u>up to date</u> with COVID-19 vaccines <u>Get tested</u> if you have symptoms 	 Wear a <u>mask</u> indoors in public Stay <u>up to date</u> with COVID-19 vaccines <u>Get tested</u> if you have symptoms Additional precautions may be needed for people <u>at high risk for severe illness</u>

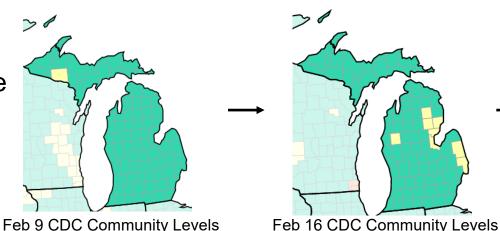
Michigan COVID-19 Community Levels Trends

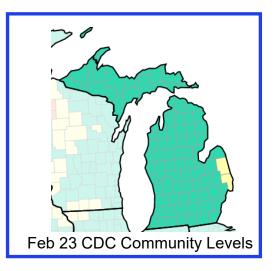
- As of Feb 23, no (0%) Michigan counties are at high COVID-19 community level and 2 Michigan county are currently at Medium level (2%). Together, these counties account for 2% of the population.
- The proportion of Michigan counties at medium and high is lower than last week
- The past 5 weeks have seen the longest streak of consecutive weeks with counties at low level over the past year

This metric uses three indicators for categorization: (1) new COVID-19 cases per 100,000 population in the last 7 days lagged 1 day behind the date the COVID-19 Community Level is calculated; (2) new COVID-19 hospital admissions per 100,000 population in the last 7 days; and (3) percent of staffed inpatient beds occupied by patients with confirmed COVID-19 (7-day average) lagged 1 day behind the 7-day case rate .



■ High ■ Medium ■ Low



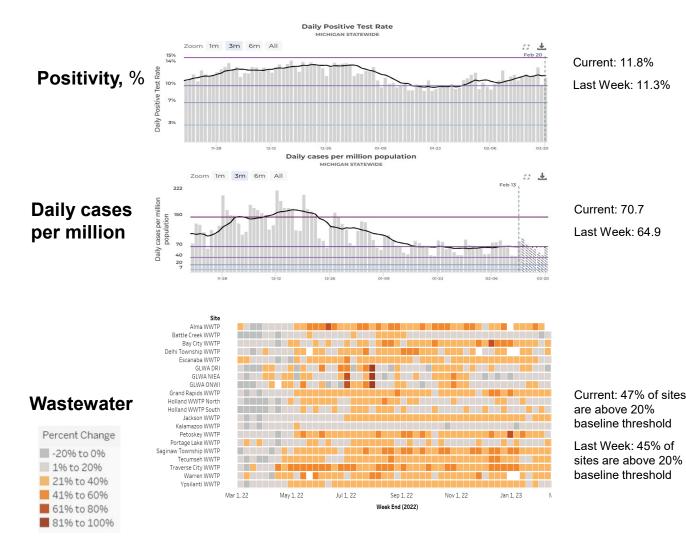


Source: CDC COVID-19 Community Levels https://covid.cdc.gov/covid-data-tracker/#county-view?list_select_state=all_states&list_select_county=all_counties&data-type=CommunityLevels

Recent statewide COVID trends are plateaued

Statewide trends

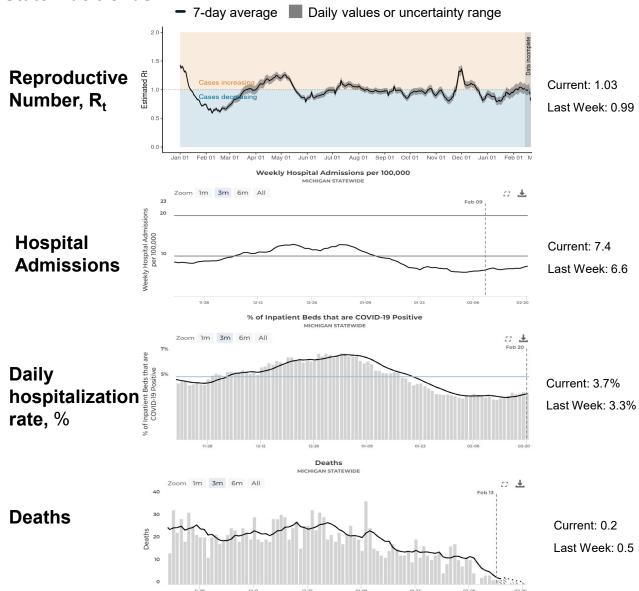
- 7-day average 📕 Daily values



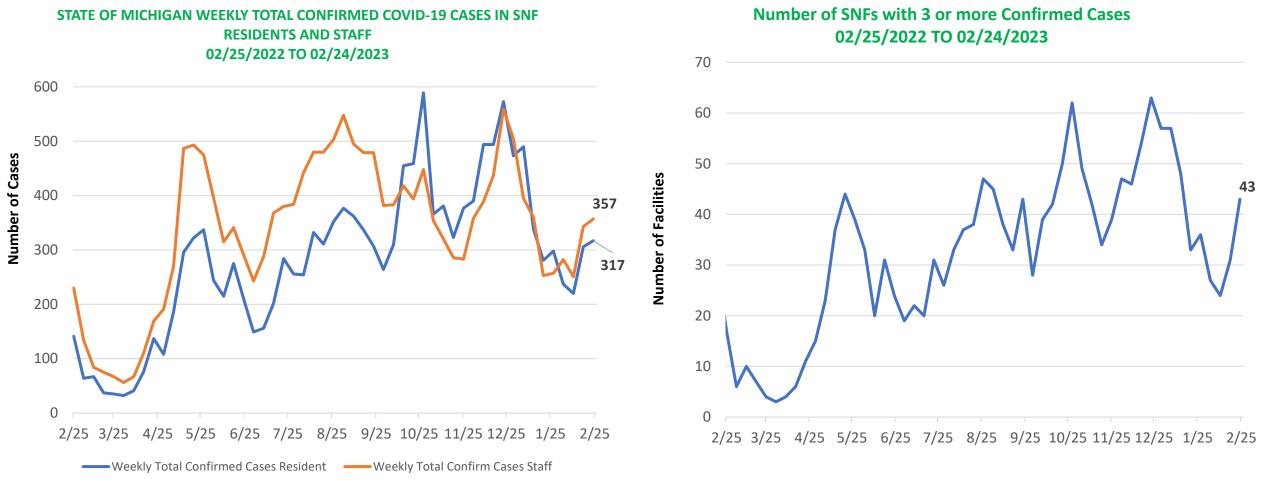
- Test percent positivity, is slightly increasing compared to last week
- Case rates are slightly increasing since last week
- Twelve counties are currently showing an increase in cases and an additional 29 reported an elevated incidence plateau in case rates (via mistartmap.info as of 2/23/23, data through 2/13/23)
- 47% (9/19) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

Recent statewide COVID trends are plateaued

Statewide trends



- The reproductive number (R_t) in Michigan is just above 1 indicating near plateau
- There are an average of 7.4 hospital admissions per 100,000 Michiganders day which is slightly increased from last week
- The percent of inpatient beds that have patients diagnosed with COVID-19 (3.7%) are slightly increased compared to last week
- Deaths are a lagging indicator but are plateaued some over the past week



COVID-19 Cases Among Staff and Residents in Long Term Care Facilities

- Case counts have increased in SNF residents (306 to 317) and in SNF staff (343 to 357) since last week [left graph]
- The number of SNF facilities reporting 3 or more cases increased since last week (31 to 43) [right graph]
- Currently, **27%** of SNFs are reporting **nursing shortages** and **28%** of SNFs are reporting **aide shortages**, which is plateaued since end of July Abbreviations: AFC: Adult Foster Care; HFAs: Homes for the Aged; and SNF: Skilled Nursing Facilities

Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: XBB.1.5 remains predominant

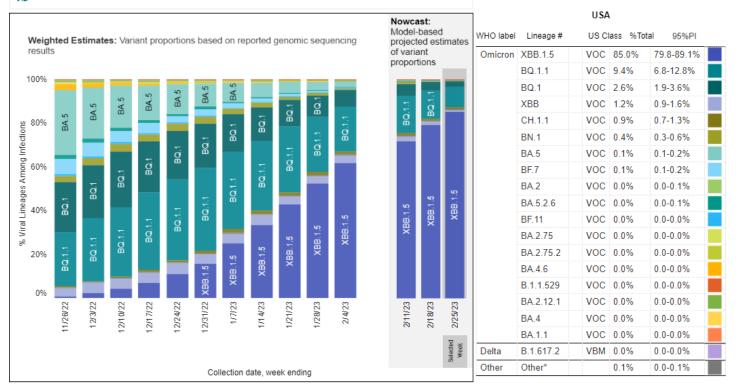
SARS-CoV-2 Variants Circulating in the United States, Nov 20 – Feb 25 (NOWCAST)

Weighted and Nowcast Estimates in United States for Weeks of 11/20/2022 – 2/25/2023

Nowcast Estimates in United States for 2/19/2023 – 2/25/2023

A Hover over (or tap in mobile) any lineage of interest to see the amount of uncertainty in that lineage's estimate.

95% P.I. = 95% prediction interval



* 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.

BA.1, BA.3 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. Except BA.2.12.1, BA.2.75, XBB and their sublineages, BA.2 sublineages are aggregated with BA.2.75. Except BA.2.12.1, BA.2.75, XBB and their sublineages, BA.2 sublineages are aggregated with BA.2.75. Except BA.4.6, sublineages of BA.4 are aggregated to BA.4. Except BF.7, BF.11, BA.5.2.6, BQ.1 and BQ.1.1, sublineages of BA.5 are aggregated to BA.5. Except XBB.1.5, sublineages of XBB are aggregated to XBB. For all the other lineages listed, their sublineages are aggregated to BA.2.75. Lineages BA.2.75.2, XBB, XBB.1.5, BN.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the spike substitution R346T.

National Distribution

- 100% of the VOCs currently circulating in the U.S. are Omicron
- Nowcast estimates project that BA.2 recombinant sublineage XBB.1.5 (85.0%, 95% P.I. 79.8-89.1%) is the most prevalent, while the BA.5 sublineages of BQ.1.1 comprises approximately 9.4% of infections (95% P.I. 6.8-12.8%) during the week ending on February 25

Distribution in Michigan

- Since January 15, there have 878 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
 - Since January 15, 54.6% of specimens sequenced and reported (n=479) have been identified as BA.5; of which 67.0% of those specimens are BQ.1.1 (n=321)
 - 405 cases of XBB.1.5 have been identified in Michigan and has been detected in all 8 preparedness regions

Over 6.2 Million Michiganders have completed the primary series equating to 62.3% of the total population

Vaccination Coverage

Over 6.2 million people in MI have completed the primary series*

91.4% of people aged 65 and older in MI have completed the primary series $\ensuremath{^{\ast}}$

69.4% of the total MI population have initiated the primary series*

Race/Ethnicity[¶] for those 6 months and older:

- Up-to-date coverage is highest among those of Non-Hispanic (NH) White (15.6%), then NH Asian, Native Hawaiian or Pacific Islander Race (14.4%), then NH American Indian (11.9%), NH Black or African American Races (8.4%).
- Up-to-date coverage is at 9.9% for Hispanics

Updated Booster Coverage

The percentage of Michiganders who have received the updated (bivalent) booster is higher than national percentages overall and for all reported age groups

45.0% of the population 65 years of age or older has received an updated (bivalent) booster

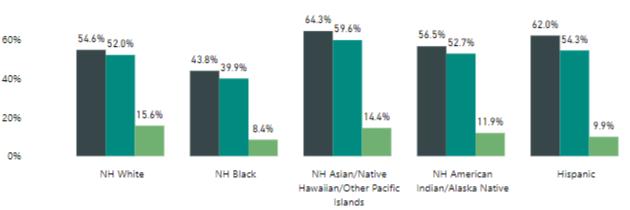
17.1% of all Michiganders have received their updated (bivalent) booster dose

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster ^{**}	U.S. % Boosted**	Primary Series Total
Total Population	69.4%	62.3%	17.1%	16.1%	6,224,317
≥ 5 years	73.3%	65.9%	18.1%	17.1%	6,209,762
≥ 12 years	77.3%	69.5%	19.4%	18.4%	5,974,325
≥ 18 years	79.5%	71.5%	20.7%	19.5%	5,606,285
≥ 65 years	95.0%	91.4%	45.0%	41.3%	1,613,104

Vaccination Coverage in Michigan as of 2/23/2023

**This shows the percentage of all residents ages 5 years and older in a jurisdiction (state, territory, national) with an updated (bivalent) booster dose. Non-residents who received vaccine are attributed to their jurisdiction of residence.

Coverage by Race*



Initiation Completion Up-To-Date

Bivalent Administration

- FDA has authorized and CDC now recommends expanding the use of the updated bivalent COVID-19 vaccines to everyone over the age of 6 months.*
- As of 2/21[¶], 1,602,612 Michiganders had received their bivalent booster
- Note: the data for the week ending 2/25 would have been incomplete on the date the dashboard was last refreshed (2/21)



Moderna Bivalent



* CDC Expands Updated COVID-19 Vaccines to Include Children Ages 6 Months through 5 Years

¶ These data are updated every Wednesday on our COVID-19 vaccination Dashboard under Additional/Booster Administration Trends and then restricting the view to just Moderna and Pfizer bivalent doses 9 Sources: Michigan Coronavirus Vaccine Dashboard

Bivalent COVID-19 Booster Doses Protected Against Infection and Death During the BA.4 and BA.5 Waves

- Staying up-to-date COVID-19 vaccine can help save lives
- Bivalent COVID-19 booster doses protected against infection and death during BA.4/BA.5 waves
 - Bivalent booster recipients in 24 U.S. jurisdictions had slightly higher protection against infection and significantly higher protection against death than was observed for monovalent booster recipients or unvaccinated persons, especially among older adults
- All eligible persons should get 1 bivalent booster dose ≥2 months after their COVID-19 primary series or last monovalent booster dose.

AN UPDATED COVID-19 VACCINE HELPS SAVE LIVES

Vaccinated people* who received an updated COVID-19 vaccine were

14X less likely to die

compared with those who received no vaccine

3X less likely to die

compared with those who received only the original COVID-19 vaccine(s)

People ages 12+ who got their last COVID-19 vaccine dose before September 2022 should get an updated vaccine

* Completed the original COVID-19 vaccine primary series and/or original booster(s)

bit.ly/mm7206a3 FEBRUARY 10, 2023

Source: Johnson AG, Linde L, Ali AR, et al. COVID-19 Incidence and Mortality Among Unvaccinated and Vaccinated Persons Aged ≥12 Years by Receipt of Bivalent Booster Doses and Time Since Vaccination — 24 U.S. Jurisdictions, October 3, 2021–December 24, 2022. MMWR Morb Mortal Wkly Rep 2023;72:145–152. DOI: http://dx.doi.org/10.15585/mmwr.mm7206a3 10