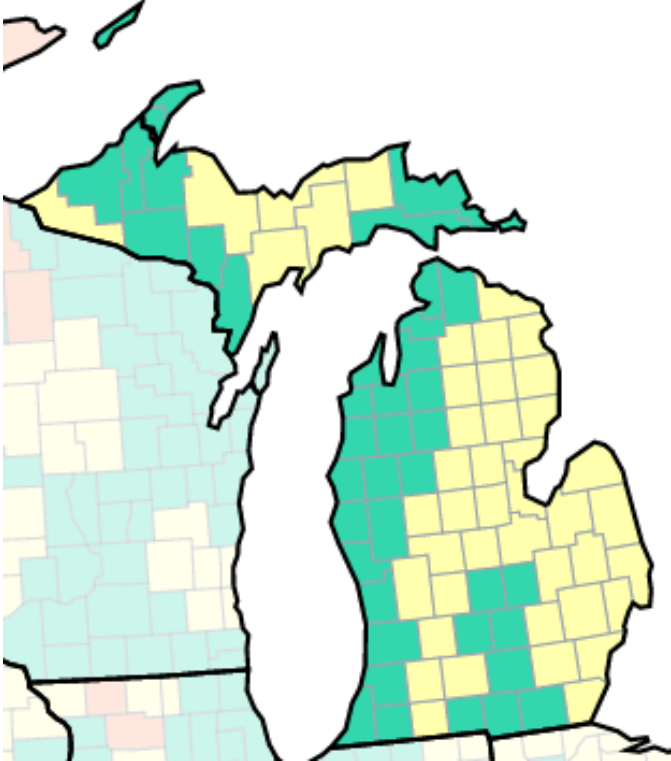


MI COVID RESPONSE DATA AND MODELING UPDATE

November 1, 2022

As of Oct 27, No Michigan Counties are at High COVID-19 Community Level



- In the US, 2% of counties have 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
- 44 Michigan counties are currently at Medium level (53%). This represents 76% of the population
- 39 Michigan counties are currently at Low level (47%). This represents 24% of the population

Percent of Counties This Week

	United States	Michigan	Percent of MI Population
Low	76%	47%	24%
Medium	22%	53%	76%
High	2%	0%	0%

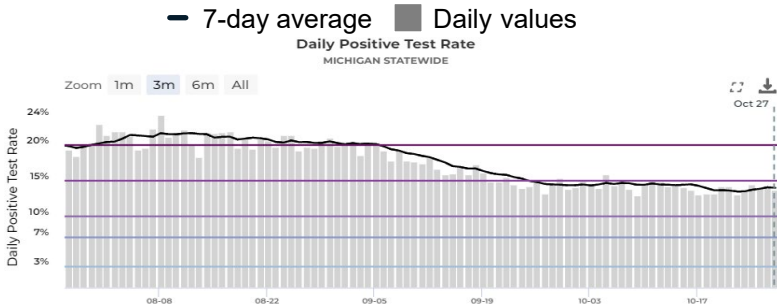
Low	Medium	High
<ul style="list-style-type: none"> • Stay up to date with COVID-19 vaccines • Get tested if you have symptoms 	<ul style="list-style-type: none"> • If you are at high risk for severe illness, talk to your healthcare provider about whether you need to wear a mask and take other precautions • Stay up to date with COVID-19 vaccines • Get tested if you have symptoms 	<ul style="list-style-type: none"> • Wear a mask indoors in public • Stay up to date with COVID-19 vaccines • Get tested if you have symptoms • Additional precautions may be needed for people at high risk for severe illness

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

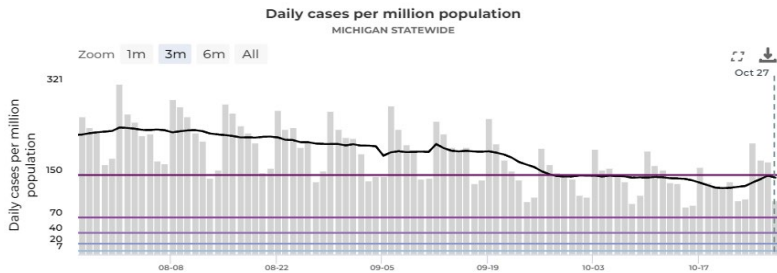
Recent statewide trends are showing slow increases

Statewide trends

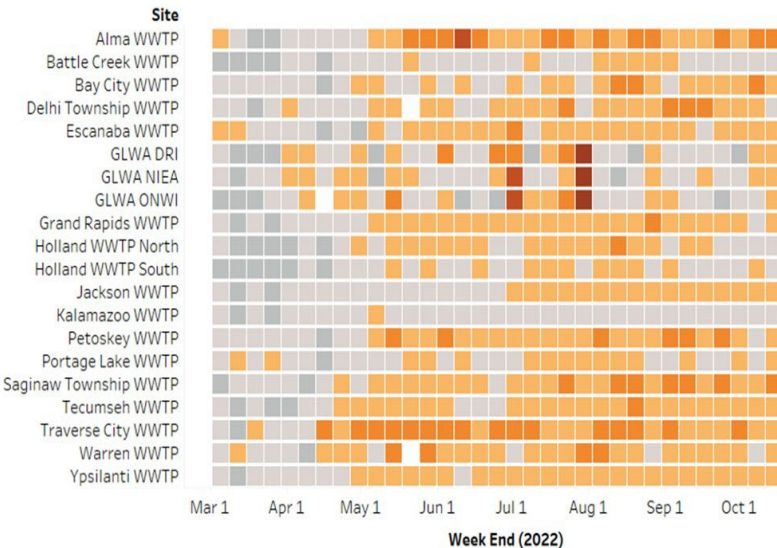
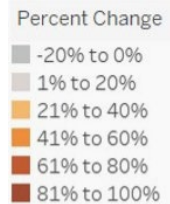
Positivity, %



Daily cases per million



Wastewater



Current: 75% of sites are above 20% baseline threshold

Last Week: 60% of sites are above 20% baseline threshold

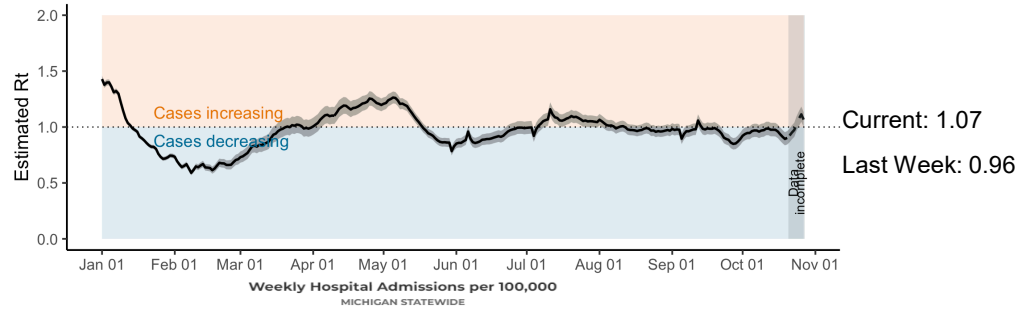
- The two core indicators, test percent positivity, and case rates, are steady over the past several weeks but up from last week
- 16 counties are currently showing increases in cases and an additional 23 reported an elevated incidence plateau in case rates, both are higher than recent weeks (via mistartmap.info as of 10/28/22, data through 10/20/22)
- 75% (15/20) of wastewater sentinel sites have reported levels that are 20% are higher than baseline threshold levels this week, the highest in 7 weeks

Recent statewide trends are showing slow increases

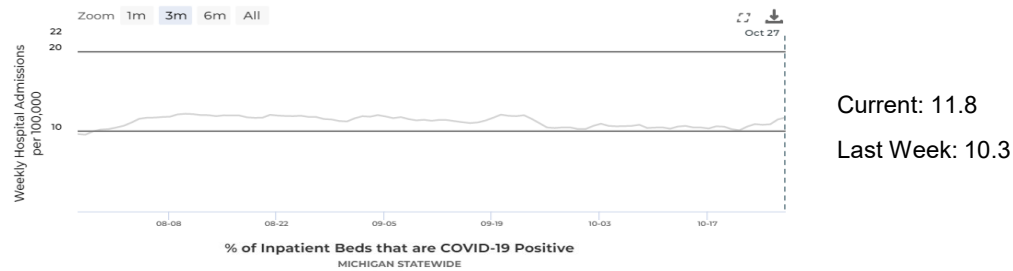
Statewide trends

— 7-day average ■ Daily values or uncertainty range

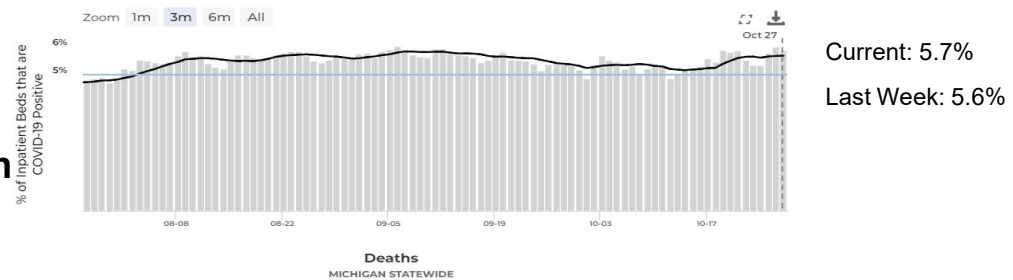
Reproductive Number, R_t



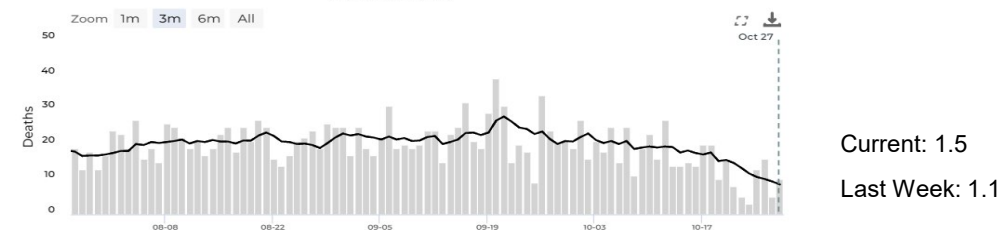
Hospital Admissions



Daily hospitalization rate, %



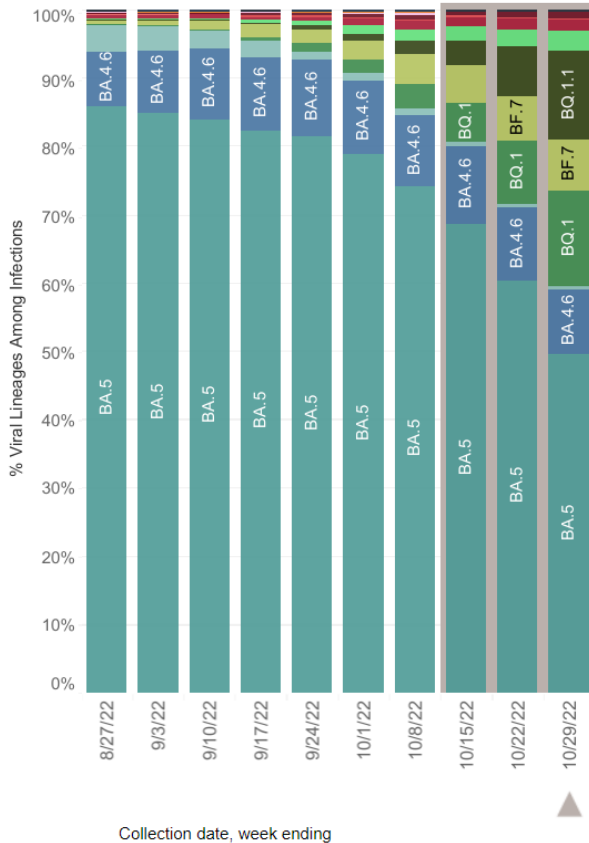
Deaths



- The other two core indicators, the percent of inpatient beds that have patients diagnosed with COVID-19 and deaths, have both seen slight increase compared to last week
- Additionally, the reproductive number (R_t) in Michigan is slightly above 1 indicating that case trends are slowly increasing
- There are an average of 11.8 hospital admissions per 100,000 Michiganders day which is slightly higher than last week

Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: Predominately BA.5 and BA.4 lineages

SARS-CoV-2 Variants Circulating in the United States, Aug 21– Oct 29 (NOWCAST)

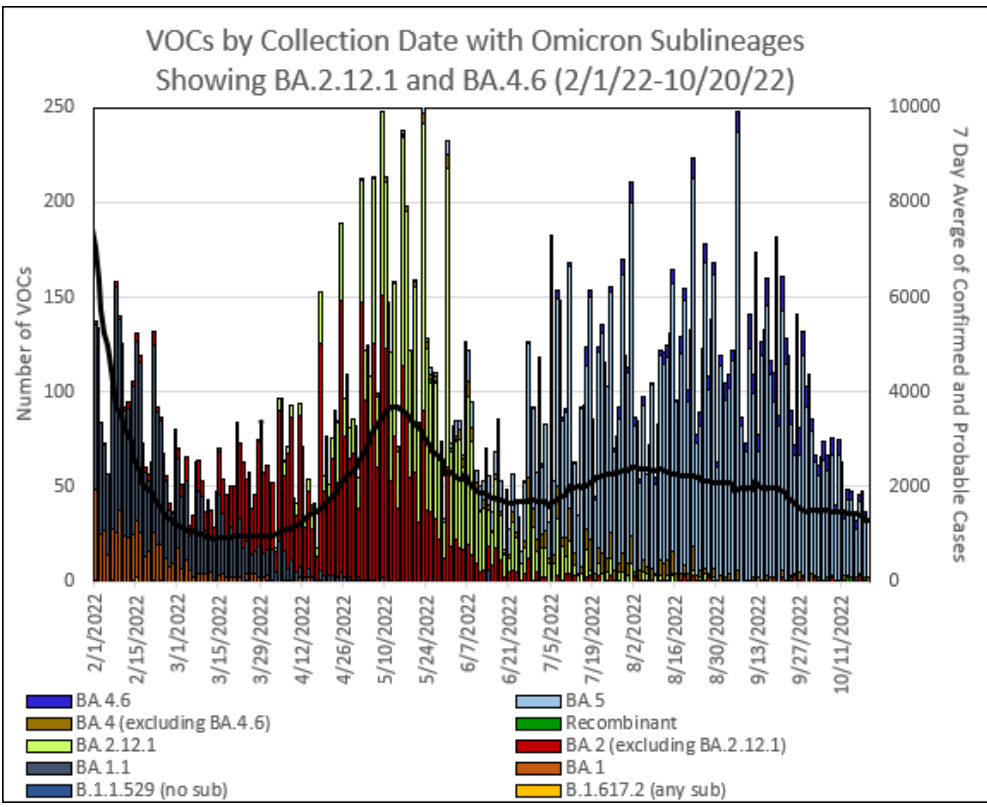


USA

WHO label	Lineage #	US Class	%Total	95%PI
Omicron	BA.5	VOC	49.6%	45.3-53.9%
	BQ.1	VOC	14.0%	11.2-17.5%
	BQ.1.1	VOC	13.1%	9.8-17.3%
	BA.4.6	VOC	9.6%	8.6-10.7%
	BF.7	VOC	7.5%	6.6-8.5%
	BA.5.2.6	VOC	2.8%	2.3-3.5%
	BA.2.75	VOC	1.8%	1.5-2.2%
	BA.2.75.2	VOC	1.2%	0.9-1.6%
	BA.4	VOC	0.2%	0.2-0.3%
	BA.2.12.1	VOC	0.0%	0.0-0.0%
	BA.1.1	VOC	0.0%	0.0-0.0%
	BA.2	VOC	0.0%	0.0-0.0%
	B.1.1.529	VOC	0.0%	0.0-0.0%
Delta	B.1.617.2	VBM	0.0%	0.0-0.0%
Other	Other*		0.0%	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
 # 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, BA.2.75.2 and their sublineages, BA.2 sublineages are aggregated with BA.2. Except BA.4.6, sublineages of BA.4 are aggregated to BA.4. Except BF.7, BA.5.2.6, BQ.1 and BQ.1.1, sublineages of BA.5 are aggregated to BA.5. For all the lineages listed in the above table, their sublineages are aggregated to the listed parental lineages respectively. Previously, BA.5.2.6 were aggregated with BA.5. Lineages BA.2.75.2, BA.4.6, BF.7, BA.5.2.6 and BQ.1.1 contain the spike substitution R346T.

VOC Distribution in Michigan



- Since September 15, there have 2,983 VOC specimens sequenced
- 100% of specimens sequenced are Omicron
 - Since September 15, 87% of specimens sequenced and reported have been identified as BA.5 (n=2,596); of which 3.9% of those specimens are BF.7 (n=101); and less than 1% of all specimens have been identified as BQ.1 or BQ.1.1

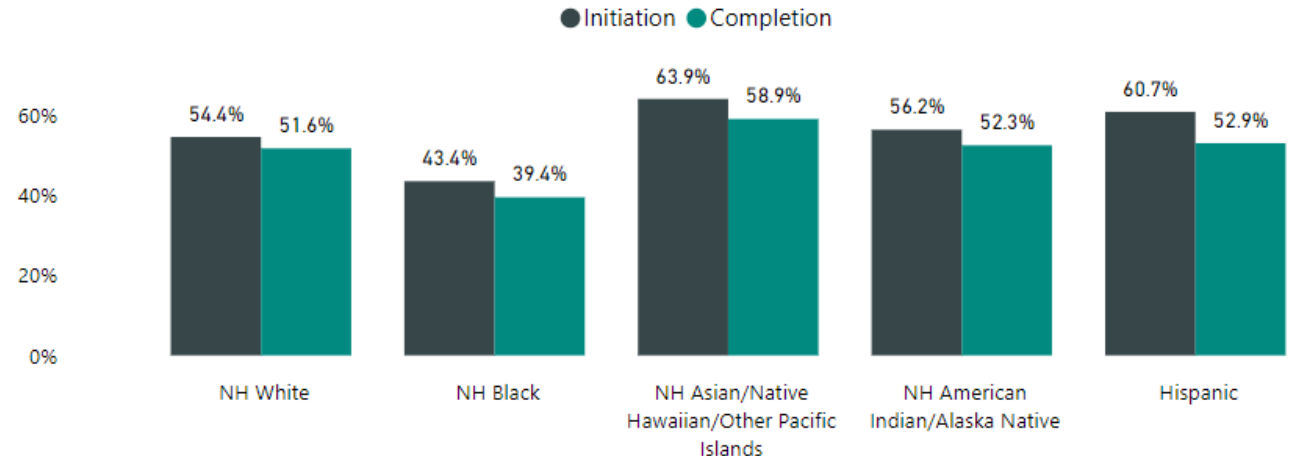
Over 6.1 Million Michiganders have completed the primary series – 61.7% of the total population

Vaccination Coverage in Michigan as of 10/27/2022

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster**	U.S. % Boosted**	Primary Series Total
Total Population	68.7%	61.7%	NA	NA	6,162,657
≥ 5 years	72.6%	65.3%	9.1%	7.3%	6,153,467
≥ 12 years	76.6%	68.9%	10.0%	8.0%	5,923,474
≥ 18 years	78.8%	70.9%	10.7%	8.6%	5,558,429
≥ 65 years	95.0%	90.5%	25.2%	20.1%	1,598,532

**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*



Vaccination Coverage

Over 6.1 million people in the state have completed the primary series*

90.5% of people aged 65 and older have completed the primary series*

68.7% of total population have initiated the primary series*

Race/Ethnicity† for those 6 months and older:

- Initiation coverage is highest among those of Non-Hispanic (NH) Asian, Native Hawaiian or Pacific Islander Race (63.9%), then NH American Indian (56.2%), NH White (54.4%), NH Black or African American Races (43.4%).
- Initiation is at 60.7% for those of Hispanic ethnicity

Updated Booster Coverage

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

25.2% of the population 65 years of age or older has received an updated (bivalent) booster

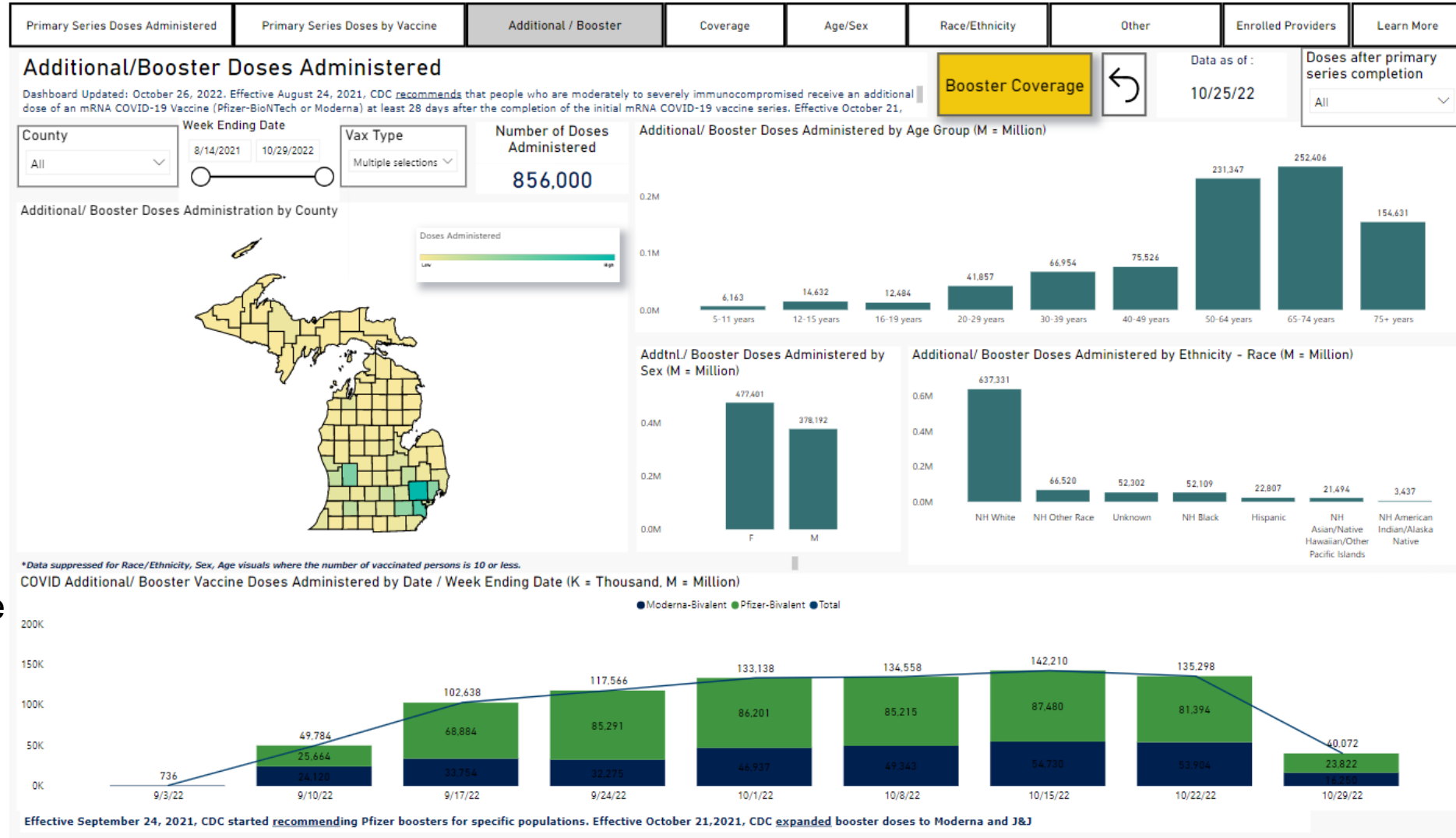
9.1% of Michiganders ages 5 years and older have received their updated (bivalent) booster dose

Bivalent Administration

- FDA has authorized and CDC now recommends expanding the use of the updated bivalent COVID-19 vaccines to children ages 5 through 11 years.*

- As of 10/25[†], 856,000 Michiganders had received their bivalent booster

- Note: the data for the week ending 10/29 would have been incomplete on the date the dashboard was last refreshed (10/25) and underreport the true administration for the week



● Moderna Bivalent

● Pfizer Bivalent

* Pfizer-BioNTech is now expanded for children ages 5 through 11 years, and Moderna is expanded for children and adolescents ages 6 through 17 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

Sources: [Michigan Coronavirus Vaccine Dashboard](#)