



HEALTH
Department
Epidemiology

COVID-19 SITUATION REPORT

01/17/2024

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Summary

- Compared to the previous report (12/21/2023), the 7-day average rate of new confirmed COVID-19 cases increased from 67.5 daily cases per million people to 120.2 daily cases per million people (Figure 1).
 - The 7-day average case rate in Detroit City is higher than the rate for the Detroit Region (96.8 daily cases per million) and that for Michigan (86.8 daily cases per million).
 - The current CDC COVID-19 Hospital Admissions Level for Detroit, Wayne County is Medium at 14.5 new COVID-19 hospital admissions per 100,000 population, 7-day total (Figure 2).
- DHD recorded 794 new cases and 0 COVID-19-related deaths over the past 14 days, compared to 769 cases and 1 deaths in the previous report (Table 1).
- Hospital capacity (Figure 8):
 - The proportion of COVID-19-positive inpatients increased from 2.0% to 2.9% since the previous report.
 - The proportion of ICU beds occupied decreased from 79.1% (363/459) to 77.9% (359/461) since the previous report, however, this figure does not account for staffing shortages/other factors that impact hospital capacity.
- Vaccine distribution in Detroit [MDHHS COVID-19 Vaccine Dashboard](#)
 - 817,230 total COVID-19 vaccine doses have been administered in the City of Detroit as of 01/02/24.
 - 49.1% of Detroit residents have received at least the first dose of their vaccination series as of 01/02/24; 4.8% of Detroit residents are up-to-date with their vaccination series per CDC recommendations for the 2023-2024 season.
- Wastewater monitoring (Figure 9):
 - Wastewater monitoring shows 86% of sampling sites have detectable levels and 45% of sites have high levels of SARS-CoV-2 markers as of 01/08/2024 in the city of Detroit.
- Variant of Concern (VOC) and Variant of Interest (VOI) estimations from [CDC Variant Monitoring](#):
 - The Omicron variant is estimated to comprise 100% [58.4% are JN.1, 14.7% are HV.1, 4.4% are JD.1.1, 4.0% are HK.3, 3.7% are JG.3, 3.2% are BA.2.86, 2.5% are EG.5, 1.4% are GE.1, 0.9% are JF.1, 0.8% are FL.1.5.1, 0.8% are BA.2, 0.8% are EG.5.1.8, 0.8% are XBB.1.16.17, 0.6% are XBB.1.16.6, 0.4% are HF.1, 0.4% are XBB.1.16.11, 0.4% are GK.1.1, 0.4% are XBB.1.5.70, 0.3% are XBB.1.16.15, 0.2% are XBB, 0.2% are XBB.1.9.1, 0.2% are XBB.2.3, 0.1% are GK.2, 0.1% are CH.1.1, and 0.1% are XBB.1.16] of new COVID-19 cases in our Health and Human Service region (HHS) (week ending 01/06/2024). All others are listed at 0.0%.

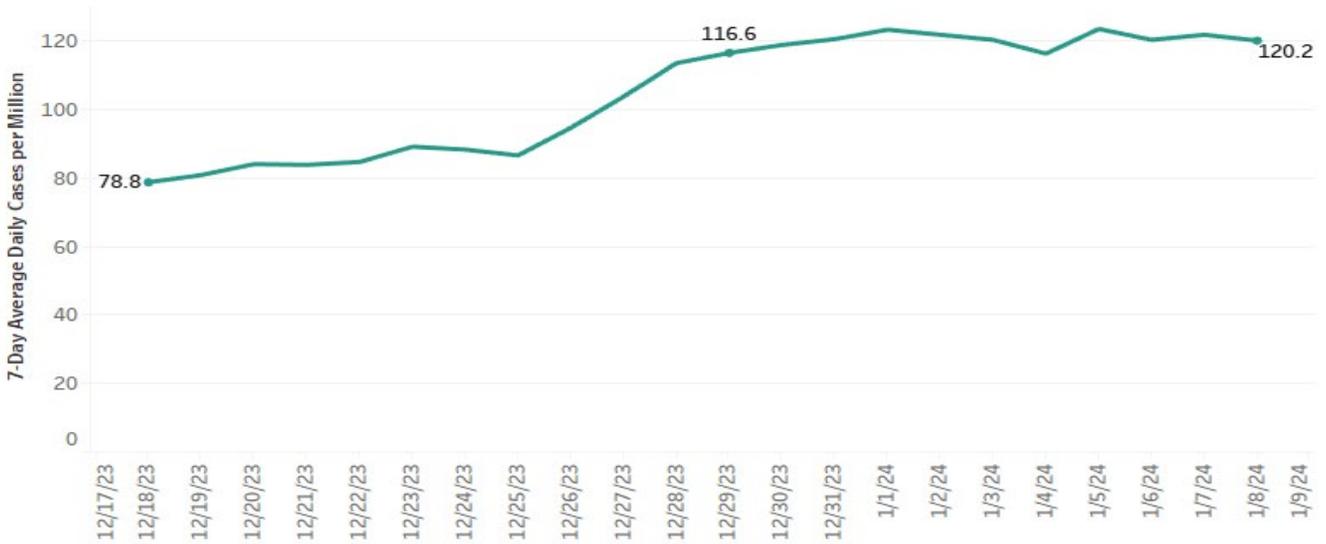
Current COVID-19 Situation

Table 1. Detroit’s confirmed case and death counts as of 01/16/2024.

Cumulative totals		Over the past 14 days	
Confirmed cases	174,109	Confirmed cases	794
Confirmed deaths	3,708	Confirmed deaths	0
Total cases*	189,057		
Total deaths*	3,936		

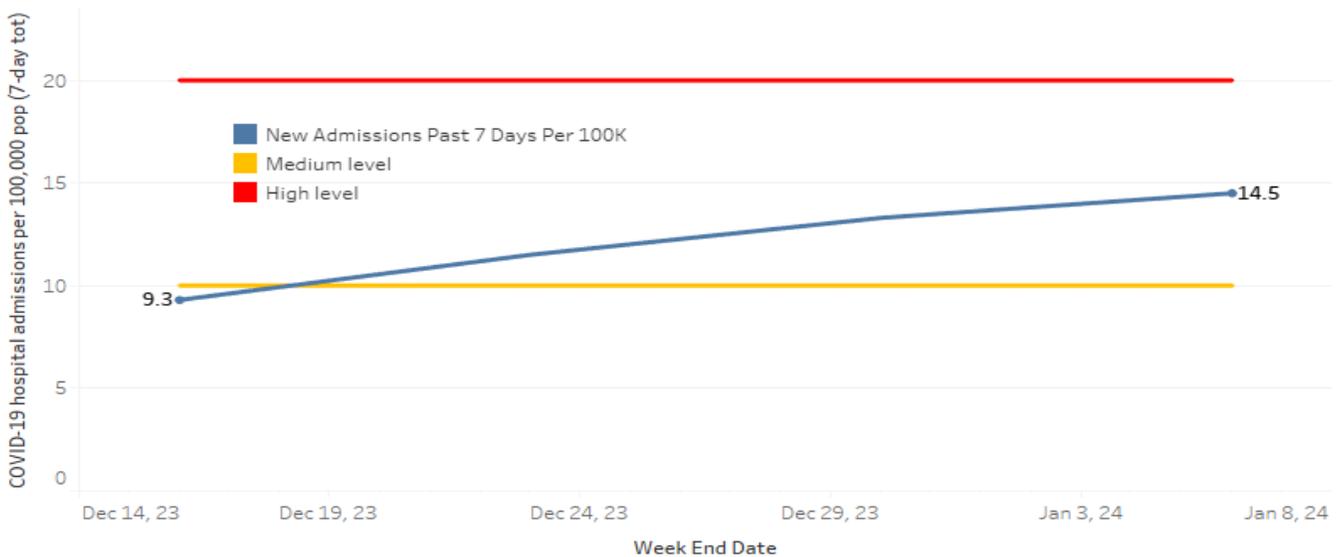
*Includes probable and confirmed cases.

Figure 1. 7-Day Average of Daily Cases per million population in Detroit City in the last four weeks.



Source: [MI Safe Start Map](#)

Figure 2. 7-Day Total new hospital admissions per 100,000 for Detroit, Wayne County in the last four weeks.



Source: [MI Safe Start Map](#)

Vaccine Information

Table 2. Breakdown of vaccination status of Detroit residents by age and sex as of 01/02/2024.

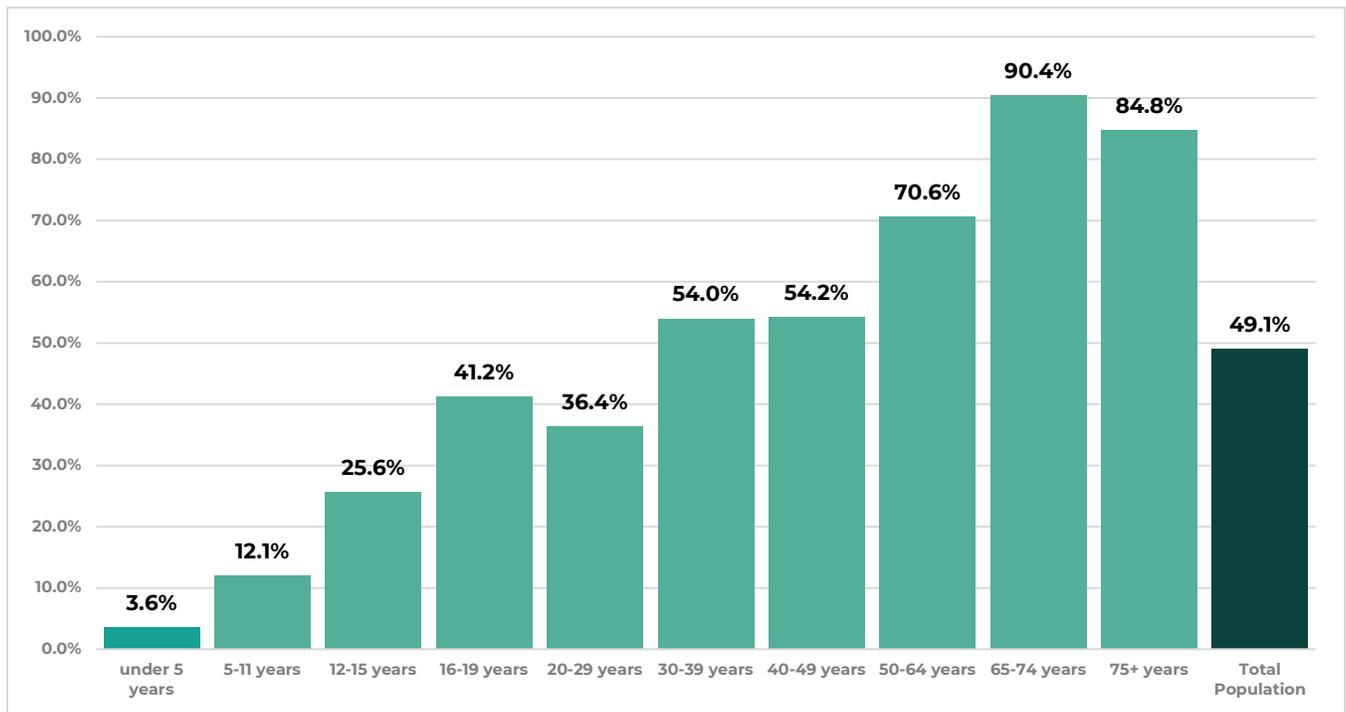
		At Least One Dose	Up-To-Date	Grand Total
Female	under 5 years	801 (0.3%)	100 (0.3%)	901 (0.3%)
	5-11 years	3,903 (1.3%)	209 (0.7%)	4,112 (1.2%)
	12-15 years	4,465 (1.4%)	164 (0.5%)	4,629 (1.4%)
	16-19 years	6,710 (2.1%)	168 (0.5%)	6,878 (2.0%)
	20-29 years	20,275 (6.5%)	723 (2.4%)	20,998 (6.1%)
	30-39 years	24,401 (7.8%)	1,105 (3.6%)	25,506 (7.4%)
	40-49 years	22,236 (7.1%)	1,069 (3.5%)	23,305 (6.8%)
	50-64 years	42,099 (13.5%)	3,864 (12.6%)	45,963 (13.4%)
	65-74 years	27,103 (8.7%)	5,486 (17.9%)	32,589 (9.5%)
	75+ years	19,914 (6.4%)	4,387 (14.3%)	24,301 (7.1%)
	Unknown	32 (0.0%)	0 (0.0%)	32 (0.0%)
Male	under 5 years	796 (0.3%)	98 (0.3%)	894 (0.3%)
	5-11 years	3,909 (1.3%)	233 (0.8%)	4,142 (1.2%)
	12-15 years	4,449 (1.4%)	174 (0.6%)	4,623 (1.3%)
	16-19 years	6,187 (2.0%)	130 (0.4%)	6,317 (1.8%)
	20-29 years	16,561 (5.3%)	404 (1.3%)	16,965 (4.9%)
	30-39 years	19,537 (6.3%)	909 (3.0%)	20,446 (6.0%)
	40-49 years	18,069 (5.8%)	858 (2.8%)	18,927 (5.5%)
	50-64 years	36,884 (11.8%)	3,189 (10.4%)	40,073 (11.7%)
	65-74 years	21,929 (7.0%)	4,333 (14.1%)	26,262 (7.7%)
	75+ years	11,724 (3.8%)	3,074 (10.0%)	14,798 (4.3%)
	Unknown	24 (0.0%)	0 (0.0%)	24 (0.0%)
Unknown	5-11 years	1 (0.0%)	0 (0.0%)	1 (0.0%)
	20-29 years	10 (0.0%)	0 (0.0%)	10 (0.0%)
	30-39 years	45 (0.0%)	4 (0.0%)	49 (0.0%)
	40-49 years	30 (0.0%)	1 (0.0%)	31 (0.0%)
	50-64 years	48 (0.0%)	0 (0.0%)	48 (0.0%)
	65-74 years	12 (0.0%)	2 (0.0%)	14 (0.0%)
	75+ years	12 (0.0%)	1 (0.0%)	13 (0.0%)
		Unknown	2 (0.0%)	0 (0.0%)
Grand Total		312,168 (100.0%)	30,685 (100.0%)	342,853 (100.0%)

Source: [MDHHS COVID-19 Vaccine Dashboard](#)

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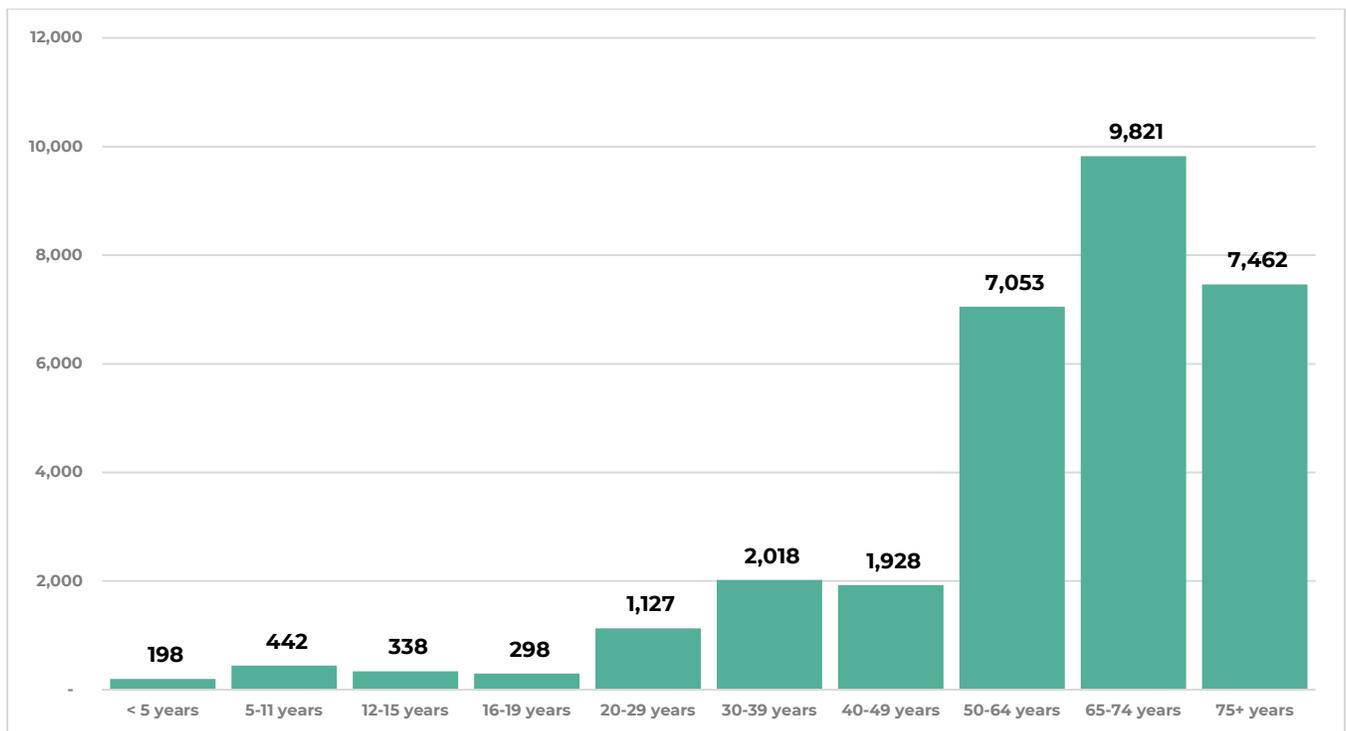
Data current as of 01/17/2024

Figure 3. Partial vaccination (at least one dose) coverage for Detroit residents as of 01/02/2024.



Source: [MDHHS COVID-19 Vaccine Dashboard](#)

Figure 4. Fully vaccinated Detroit residents who are up-to-date with recommended doses per CDC guidelines for the 2023-2024 season, by age group as of 01/02/2024.



Source: [MDHHS COVID-19 Vaccine Dashboard](#)

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Data current as of 01/17/2024

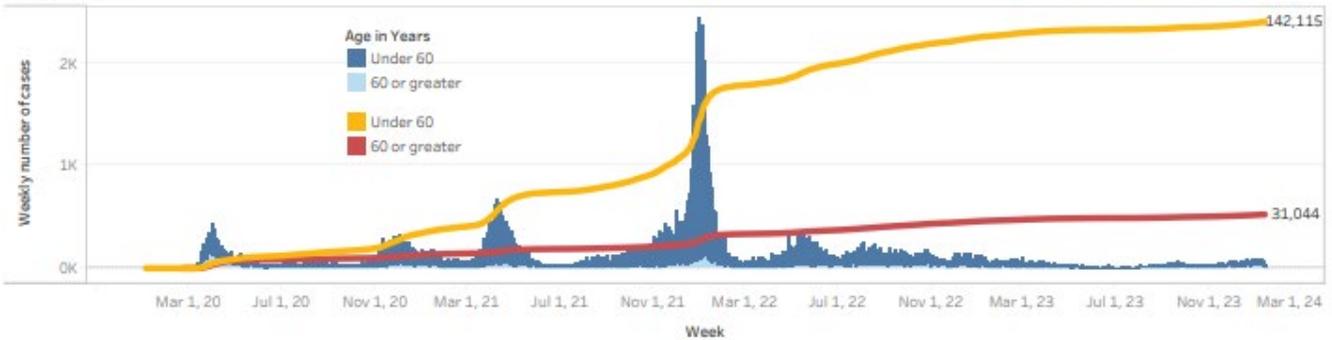
Case and Death Characteristics

Figure 5. Number of confirmed cases by week and age group since March 2020 and for the past 14 days (bottom)

Total cases by Onset/Specimen Collection/Referral Date in weeks, with cumulative total lines.

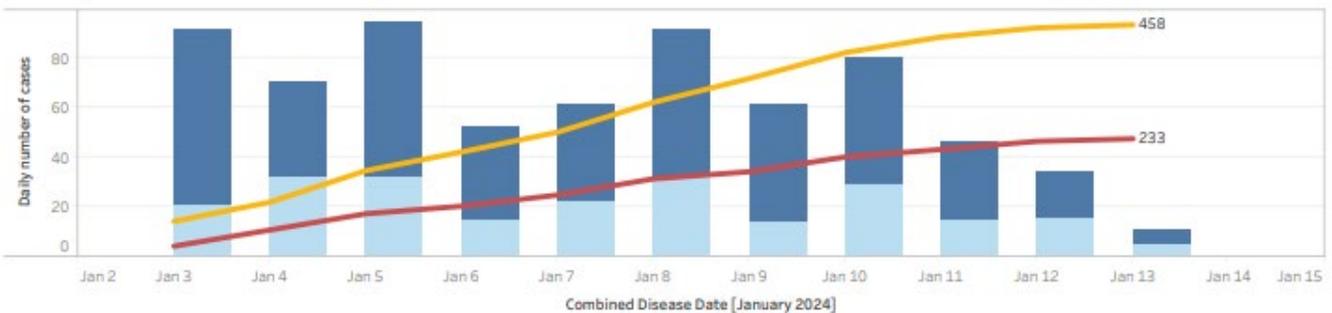
(Broken up by age groups of <60yrs and 60+yrs)

Total n = 173,221



Past 14 Day cases by Onset/Specimen Collection/Referral Date, with cumulative total lines.

Total n = 691



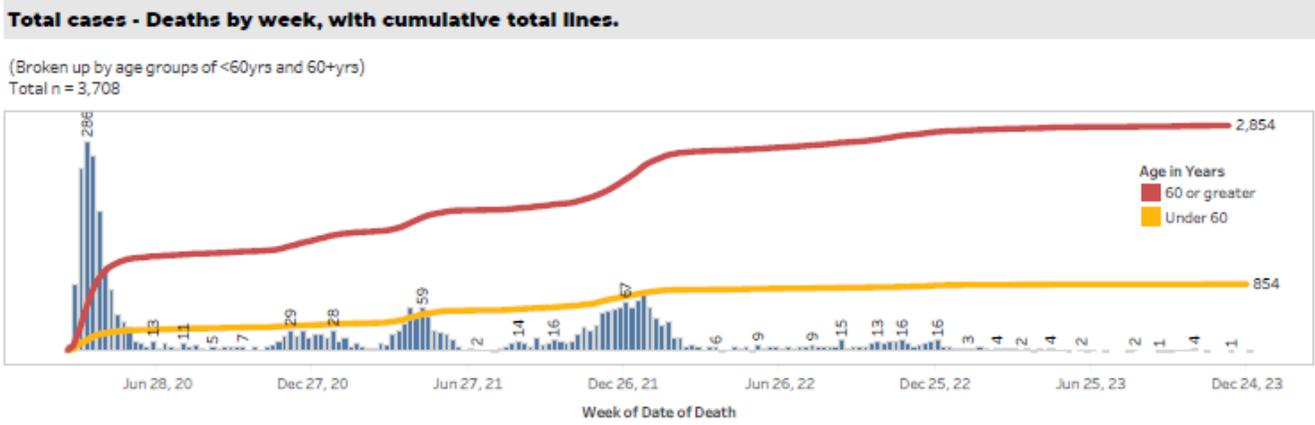
Only confirmed cases are shown. The bars displayed are colored according to the number of cases with an age in years under 60 (dark blue) or 60+ (light blue). The "Age in Years" variable is created during analysis by using the "Age," and "Age Units" variables from MDSS. Cases are assigned to dates in the curve based on the "Combined Disease Date" of the case, which takes MDSS "Onset Date" as first preference, specimen collection date of the first positive test as second preference (calculated in analysis), and MDSS referral date as third preference. The lines show a running cumulative total of cases for under 60 years of age (yellow) and 60+ years of age (red). All numbers are preliminary and subject to change. Due to reporting delays, the past 4 days of referral dates are not shown.

* Combined Disease Date is created during analysis using MDSS Onset Date as first preference, specimen collection date of the first positive test as second preference (calculated in analysis), and MDSS referral date as third preference.

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Data current as of 01/17/2024

Figure 6. Number of COVID-19 deaths by week since March 2020 (top) and by date for the past 14 days (bottom).



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Data current as of 01/17/2024

Figure 7. Age and sex distribution of confirmed cases since March 2020 (top) and for the past 14 days (bottom).



Cases are broken into categories using the Age range variable (calculated in analysis using Age and Age Units) and filtered for confirmed cases only. The percentage shown is the percentage out of all total cases, and the number shown is the total number of cases in that category. The past 14 days are filtered based on a Combined Disease Date* within the past 14 days. Due to reporting delays, the past 4 days of referral dates are not shown. This is filtered using MDSS Referral_Date.
* Combined Disease Date is created during analysis using MDSS Onset Date as first preference, specimen collection date of the first positive test as second preference (calculated in analysis), and MDSS referral date as third preference.

Detroit Hospital Capacity

Figure 8. Proportion of COVID-19 occupied beds (A) and number of occupied ICU beds (B) for Detroit hospitals in the past 14 days.

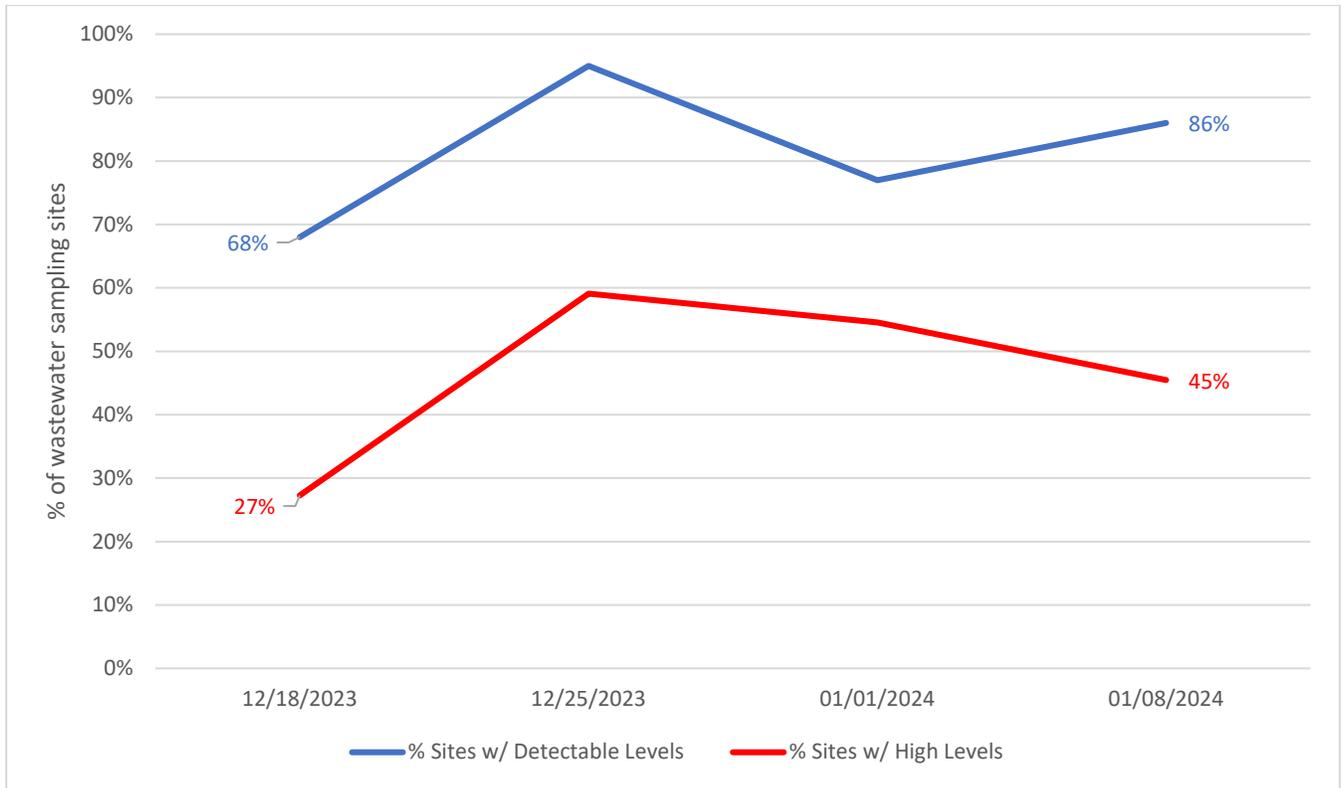


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Data current as of 01/17/2024

Wastewater Monitoring

Figure 9. Proportion of Detroit wastewater sampling sites with detectable or high levels of SARS-CoV-2 markers in the past 4 weeks.



The proportions are out of 22 sites across the city of Detroit from which wastewater samples are taken and tested for SARS-CoV-2 markers. Each sampling site represents a specific population based on the area its sewer shed covers, such as long-term care facilities, college dormitories, and entire ZIP code areas. Detectable levels are over 1000 copies/100mL; high levels are over 5000 copies/100mL.

Source: [RamLab WSU](#)