



# Back to School 2021-2022 With COVID-19 December 16, 2021

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Medical Director

CMDHD/MMDHD/DHD#10

# This meeting is for School and Health Department Staff

We have limited time to cover all our topics. The slides and recordings will be available on our websites within 1-3 days.

<https://www.dhd10.org/coronavirus/school-guidance/>

<https://www.mmdhd.org/covid-schools/>

<https://www.cmdhd.org/novelschools>

If you have questions, please send them to:

For Roscommon, Osceola, Clare, Gladwin, Arenac, Isabella Counties:

[info@cmdhd.org](mailto:info@cmdhd.org)

For Missaukee, Crawford, Kalkaska, Wexford, Lake, Mason, Manistee, Oceana, Newaygo, Mecosta Counties:

[info@dhd10.org](mailto:info@dhd10.org)

For Montcalm, Gratiot, Clinton Counties:

<https://www.mmdhd.org/contact/>



Please make sure the information shared today is passed along to others who may need it, such as school COVID-19 liaisons, school secretaries, school nurses, etc.

*Thank you!*

Due to the holidays and breaks:

**NO WEEKLY MEETINGS THE NEXT TWO WEEKS:**

- THURSDAY DECEMBER 23<sup>RD</sup>
- THURSDAY DECEMBER 30<sup>TH</sup>

# MDHHS MI Safe School Antigen Testing Update 12/13/2021

Emailed to school point of contact- and is available here

<https://www.dhd10.org/wp-content/uploads/2021/12/MDHHS-MI-Safe-School-Antigen-Testing.pdf>

The Michigan Department of Health and Human Services (MDHHS) is implementing a new antigen test ordering process to support testing in schools, beginning December 13<sup>th</sup>, 2021. This process is outlined below. **For questions** regarding the new ordering process, please **email [MDHHS-COVIDTestingSupport@michigan.gov](mailto:MDHHS-COVIDTestingSupport@michigan.gov)**.

## Ordering Process

1. Schools will continue to submit order request through the [School ordering form](#). When submitting antigen supply request through the ordering from this will allow your school district to order from MDHHS.
2. Local school districts will view the [Dashboard provided by MDHHS to review number of test request submitted from schools in their district](#).
3. School Districts will then submit request through the [School District ordering form](#).
4. Shipments will be sent directly to the school district point of contact and address for distribution within their district.
5. Shipments to school districts will only occur twice per month. Shipments will occur on xx and xx, *dates TBD*.

## Note\*

- ▶ **All MDHHS supported facilities are to request only one month's supply to allow MDHHS to support all vulnerable population.**
- ▶ **Allow up to two weeks for order fulfillment. If experiencing an outbreak, shipments will be expedited.**

## Reporting

Antigen test for COVID-19 must be reported to the Department in a manner directed by the Department within 4 hours of completion of the test if the results is positive to the [Antigen Reporting Form On a day when testing occurs the total number of negative antigen test completed must be reported within 24 hours. Facilities that wish to may continue to provide individual negative results..](#) Reporting guidance can be found here- [MI COVID Antigen Reporting](#)

## Frequent Questions

### **Have reporting requirements also changed?**

No, reporting requirements remain the same. All results must be reported through the Michigan Antigen Testing Results Portal found here: [Antigen Reporting Form](#). Individual positive results must be reported within 4 hours and aggregate negative results must be reported within 24 hours.

- **Utilization of the Abbott BinaxNOW Navica application does not circumvent the requirement to report results through the Antigen reporting form.**

**We are a Charter school, Parochial school, Private school, and/or other- How do I order?** All non-public schools will order through their local districts. If you are not sure which district your school is within you can visit <https://cepi.state.mi.us/eem/>

### **What is my school building code?**

Your school building code is a 5-digit code. This code can be found on the <https://cepi.state.mi.us/eem/> website.

### **How often can I test?**

Student testing can be conducted twice a week unless your school participates in test to stay. Staff testing can be conducted once a week.

### **Can I order for staff testing only?**

Currently MDHHS is prioritizing request and supplies due to an increase in positivity sites testing under state and local mandates and vulnerable populations. These sites are ramping up testing and utilization rates have increased significantly. Therefore, testing only staff will not be supported at this time. Please send your inquiries to [MDHHS-COVIDtestingsupport@michigan.gov](mailto:MDHHS-COVIDtestingsupport@michigan.gov).

To learn more about school testing please visit [Coronavirus - K-12 School Opening Guidance \(michigan.gov\)](#)

For questions about antigen testing [MDHHS-COVIDTestingSupport@michigan.gov](mailto:MDHHS-COVIDTestingSupport@michigan.gov).

# Unofficial Test to Stay Data

- ▶ Six schools doing “Test to Stay” have provided very rough data
- ▶ About 1-3% of close contacts end up testing positive by day 7
- ▶ Rarely will a close contact to one of those kids will end up positive
- ▶ No known school-based outbreaks due to this program

# Letter from The Pediatricians of Grand Traverse Children's Clinic, Kids Creek Children's Clinic, and Traverse Area Pediatric and Adolescent Clinic. December 15

Dear School Board Members and Area Superintendents,

As your local pediatric physicians and frontline healthcare workers we continue to advise you to promote universal masking for all students for indoor activities. Community metrics show as of this past week (12/9/21) the COVID-19 positivity rate continues to be above 20%. For the first time in Munson Healthcare's history our hospital has elevated their pandemic response to "code red", defined as an overwhelming number of local COVID cases beyond capacity of the healthcare system. We have also seen the highest number of recorded deaths for Grand Traverse County this past month since the start of the pandemic.

<https://www.munsonhealthcare.org/services/community-health/covid19/pandemic-status>

Vaccines continue to be our best and most effective tool for preventing infection, hospitalization, and mortality. On November 3rd, the COVID-19 vaccine was approved for our pediatric population ages 5-11 year olds. Currently of the eligible children in Grand Traverse County, only 29% have initiated vaccination and only 14% have received both doses at this time. These numbers are nowhere near the percentage needed for herd immunity to protect this population. We must maintain our current mitigation measures such as encouraging masking and improved contact tracing until our community vaccination numbers improve and our local infection rates decline.

[https://www.michigan.gov/coronavirus/0,9753,7-406-98178\\_103214\\_103272-547150--,00.html](https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html)

Overall, we are relieved that children do continue to show a trend of generally faring well with Covid infections. However, we do know that a subset of children do have more severe cases. While underlying risk factors can help us identify those most likely to have a difficult course, many of the children who have severe disease were previously healthy.

<https://labblog.uofmhealth.org/rounds/rare-covid-related-inflammatory-disease-affecting-children>.

Locally, contact tracing continues to be delayed, often notifying patients after the effective quarantine period is over. Masks remain the only other mitigation measure that we have readily available.

We are eager to help our pediatric population "return to normalcy" and reward our vaccinated population with less restrictions, but in the face of high positivity rates in our community, a stressed healthcare system, and a variant causing breakthrough disease, now is not the time to remove masks. Masking our students remains an important measure to continue in-person school, support our community healthcare system, and show we care for our children.

<https://www.healthychildren.org/English/health-issues/conditions/COVID-19/Pages/Mask-Mythbusters.aspx>

Sincerely,

The Pediatricians of Grand Traverse Children's Clinic, Kids Creek Children's Clinic, and Traverse Area Pediatric and Adolescent Clinic

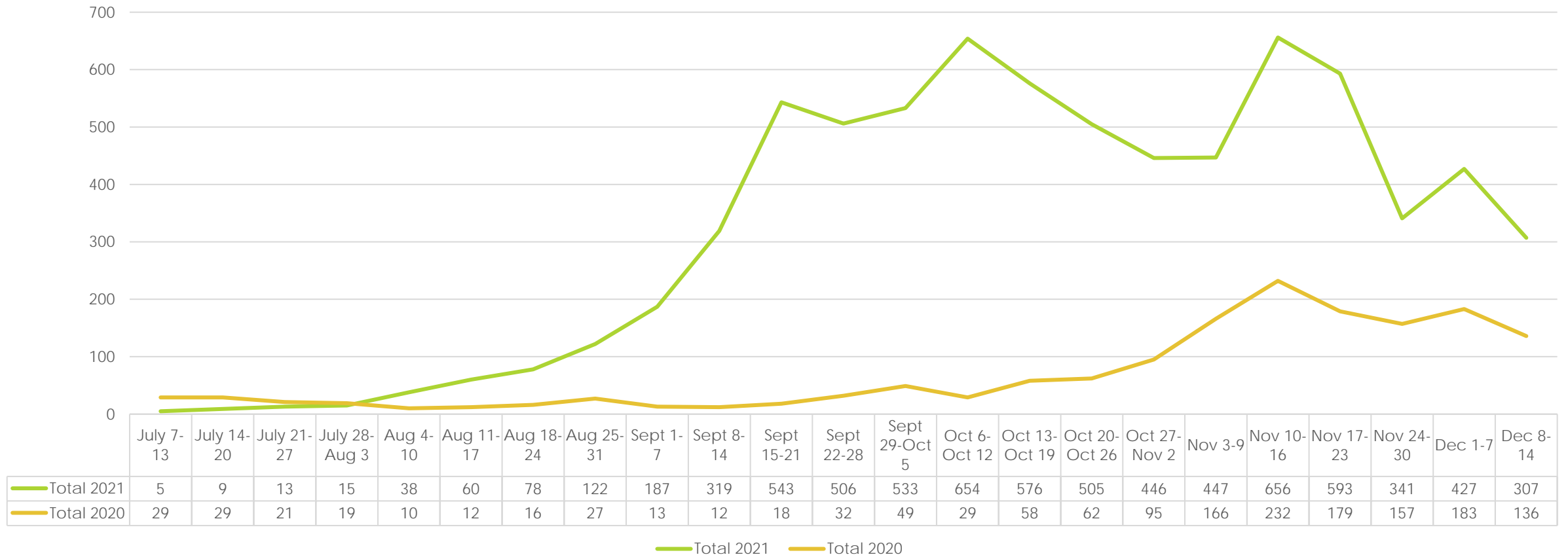
David Olson, M.D. Lisa Chimner, M.D. Andrew Tursman, M.D. Jelanie Bush, M.D. Katie Elms, M.D. Tuan Bui, M.D. Sara Mulder, M.D. Karla Smith, M.D. Elayna Dush-Bryant, M.D. LuAnn Labian, M.D. James Robertson, M.D. Stephanie Galdes, D.O. Kimberly Hegewald, M.D. Kristina Lishawa, M.D. Rachel Newman, M.D. Mark Israel, M.D.



See the most up to date data at  
<https://www.mistartmap.info/>



# 19 Counties of MMDHD/DHD#10/CMDHD COVID Cases 5-18 yrs. of age, weekly, 2020 compared to 2021



## County by County Comparisons COVID Cases 5-18 yrs. of age, weekly, 2020 compared to 2021

NOTE: The values on the vertical (y) axis are different for each county due to different numbers of cases

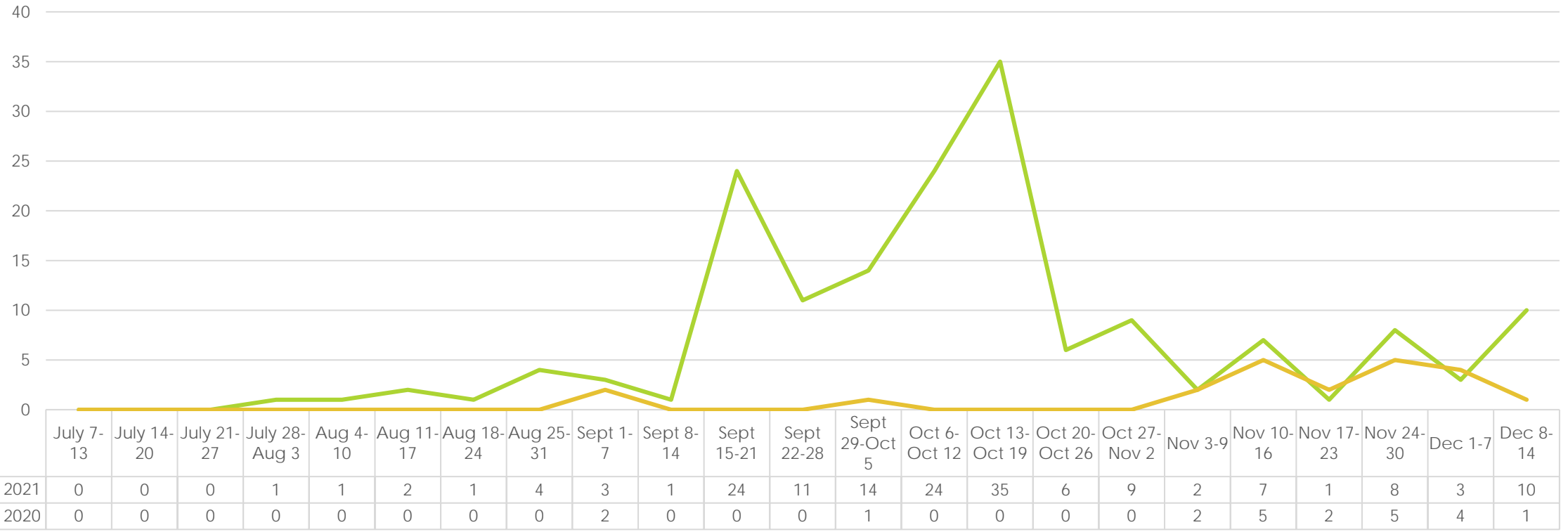
— IS 2021

— IS 2020

CMDHD

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

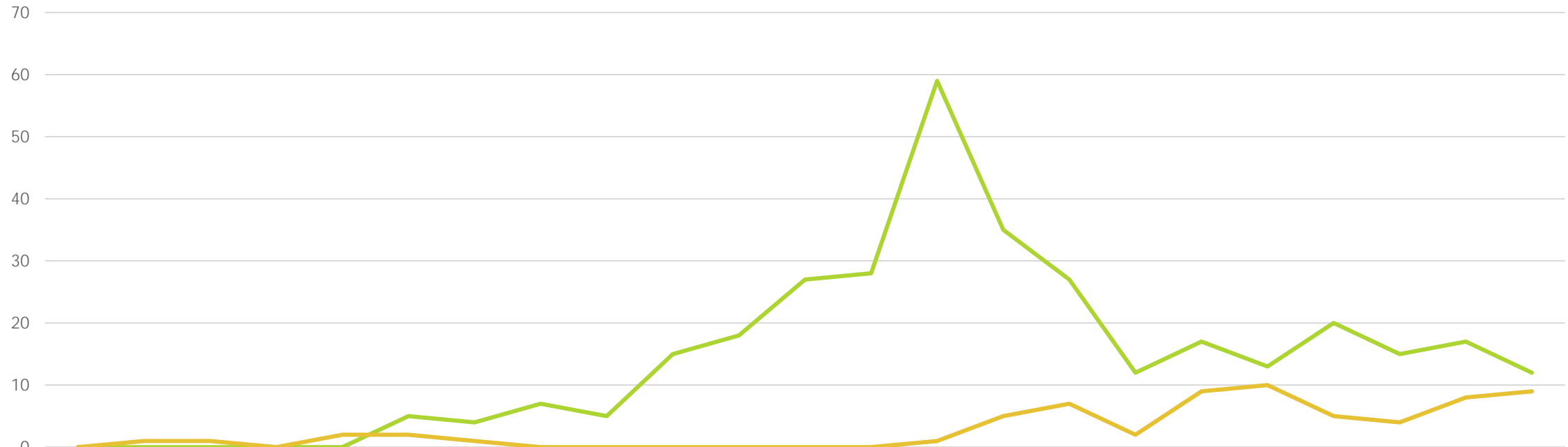
Arenac



— Arenac 2021 — Arenac 2020

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Clare

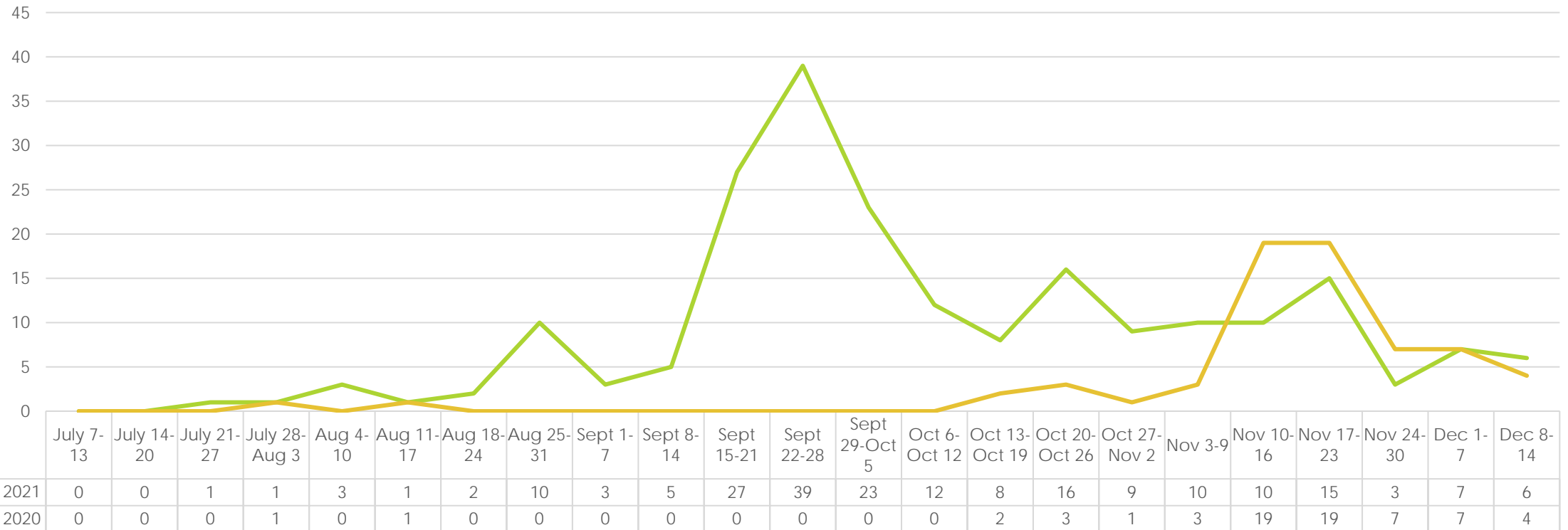


	July 7-13	July 14-20	July 21-27	July 28-Aug 3	Aug 4-10	Aug 11-17	Aug 18-24	Aug 25-31	Sept 1-7	Sept 8-14	Sept 15-21	Sept 22-28	Sept 29-Oct 5	Oct 6-12	Oct 13-19	Oct 20-26	Oct 27-Nov 2	Nov 3-9	Nov 10-16	Nov 17-23	Nov 24-30	Dec 1-7	Dec 8-14
Clare 2021	0	0	0	0	0	5	4	7	5	15	18	27	28	59	35	27	12	17	13	20	15	17	12
Clare 2020	0	1	1	0	2	2	1	0	0	0	0	0	0	1	5	7	2	9	10	5	4	8	9

Clare 2021 Clare 2020

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

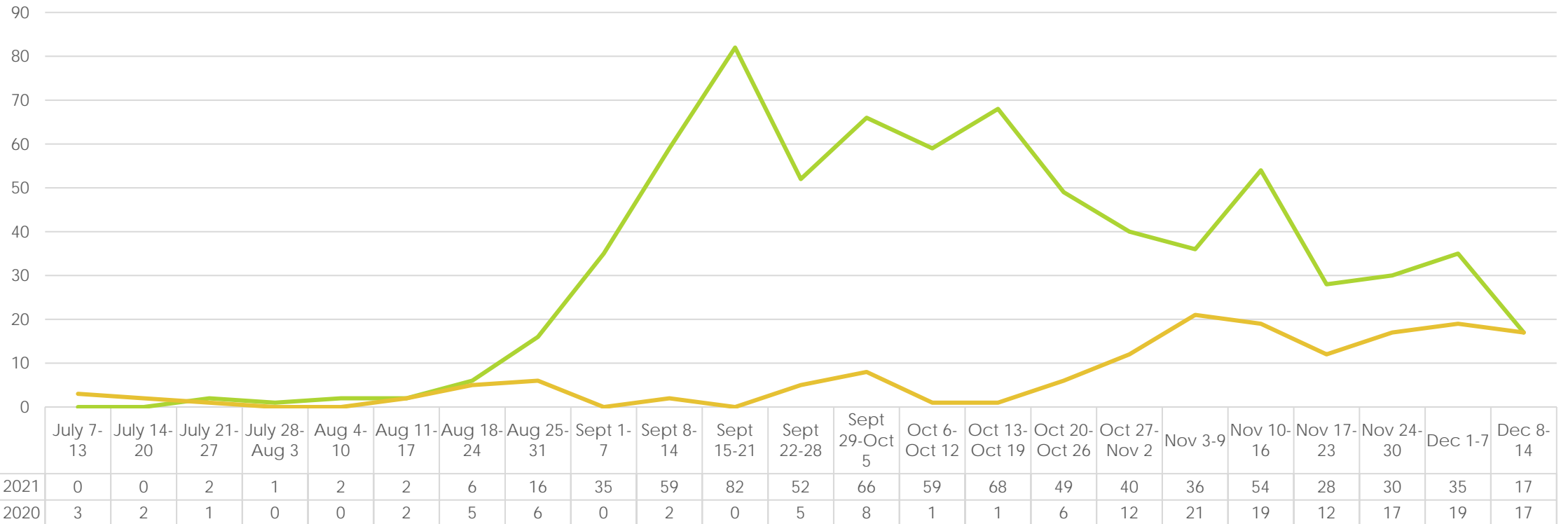
Gladwin



— Gladwin 2021 — Gladwin 2020

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

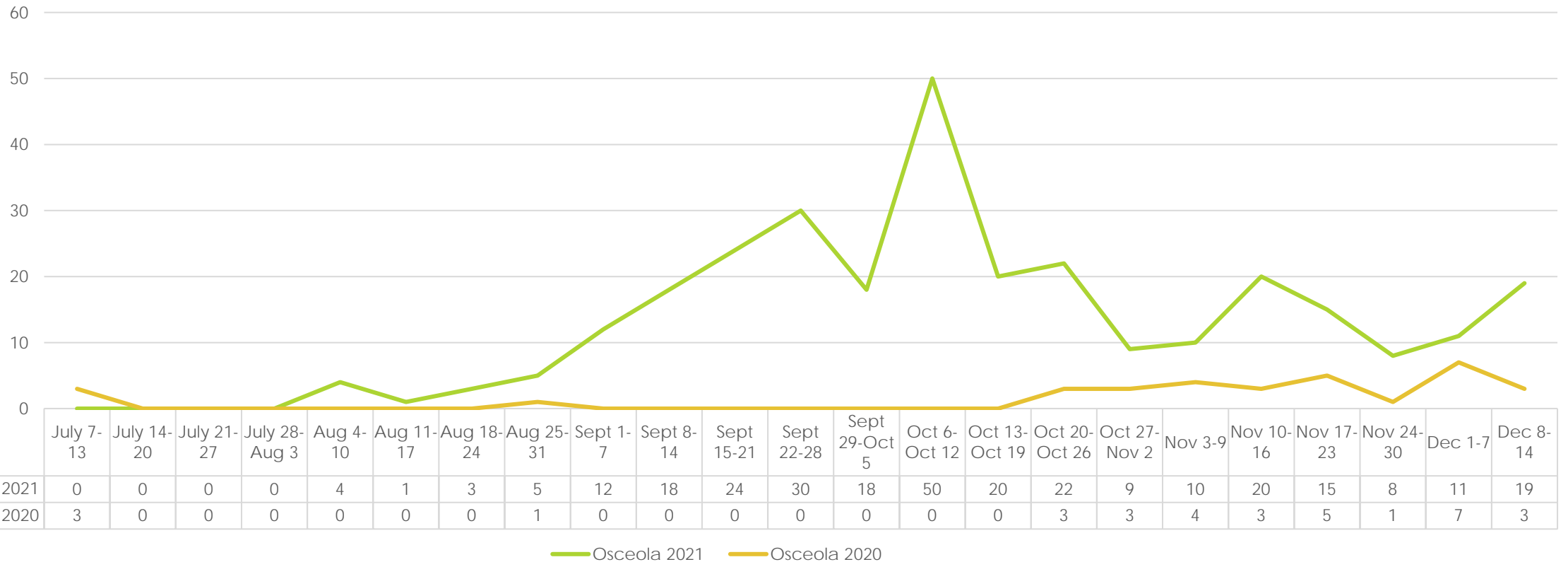
Isabella



Isabella 2021 Isabella 2020

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

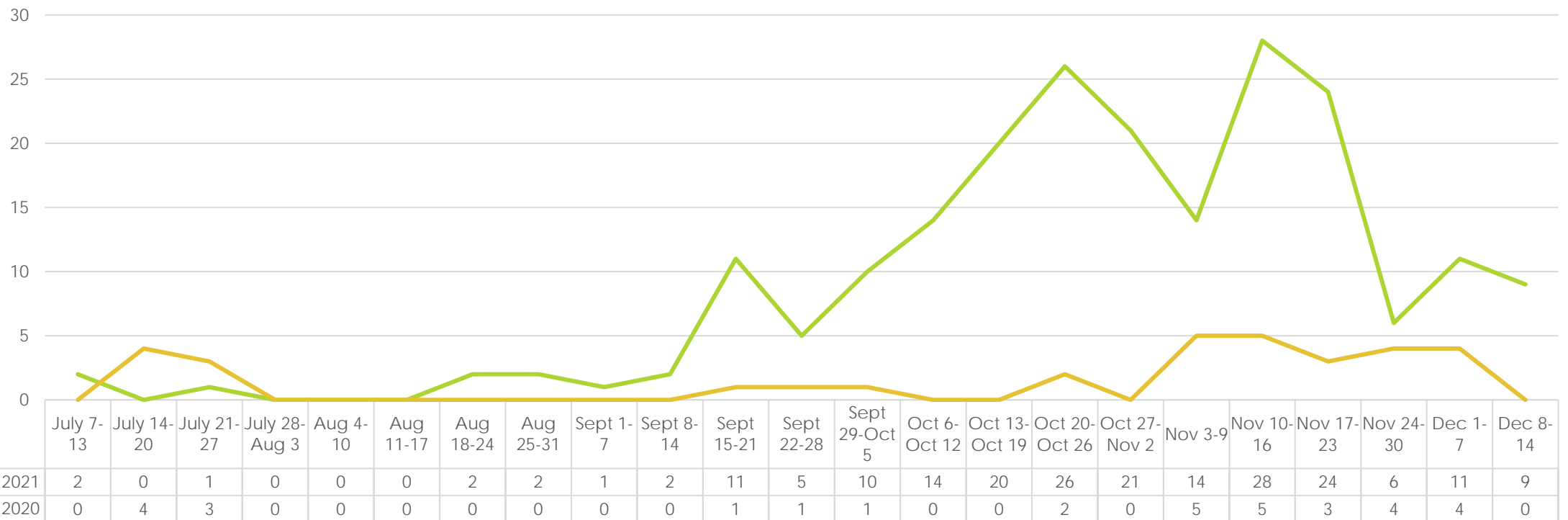
## Osceola





# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

## Roscommon

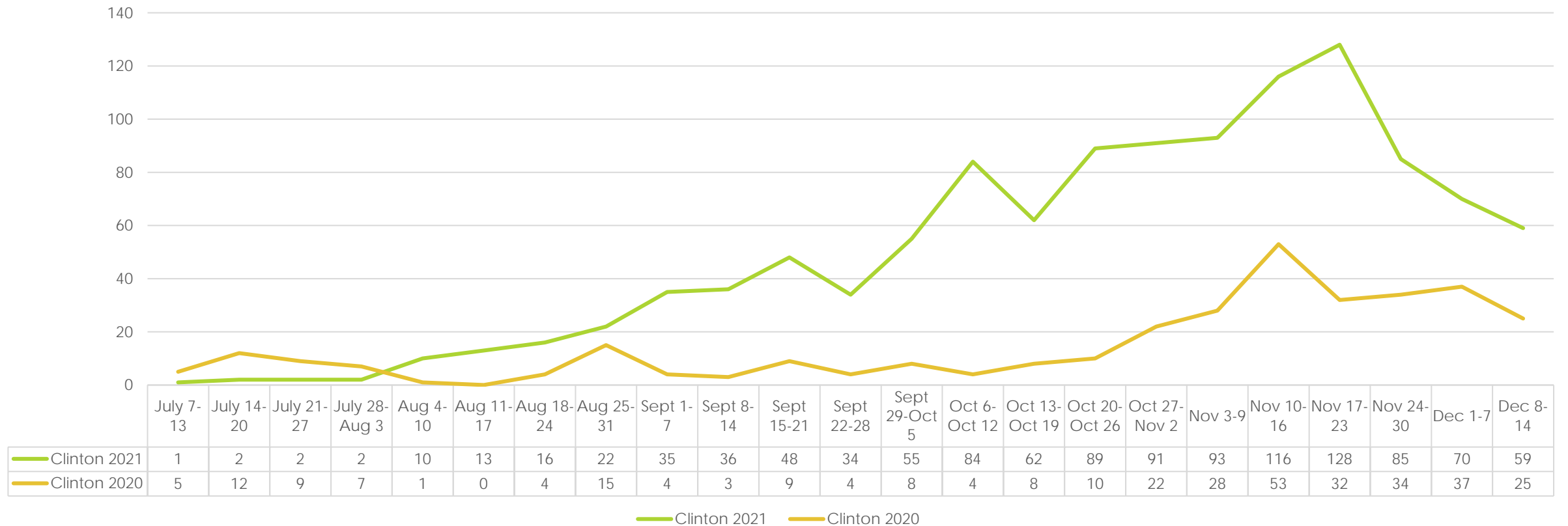


— Roscommon 2021    — Roscommon 2020

MMDHD

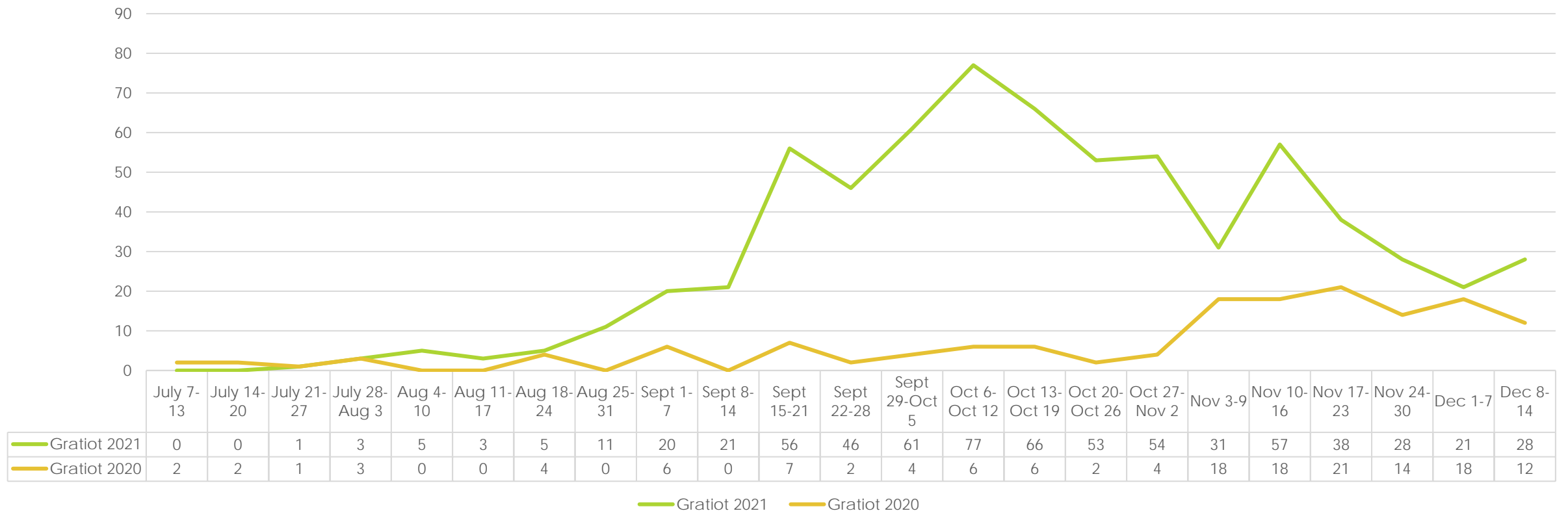
# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Clinton



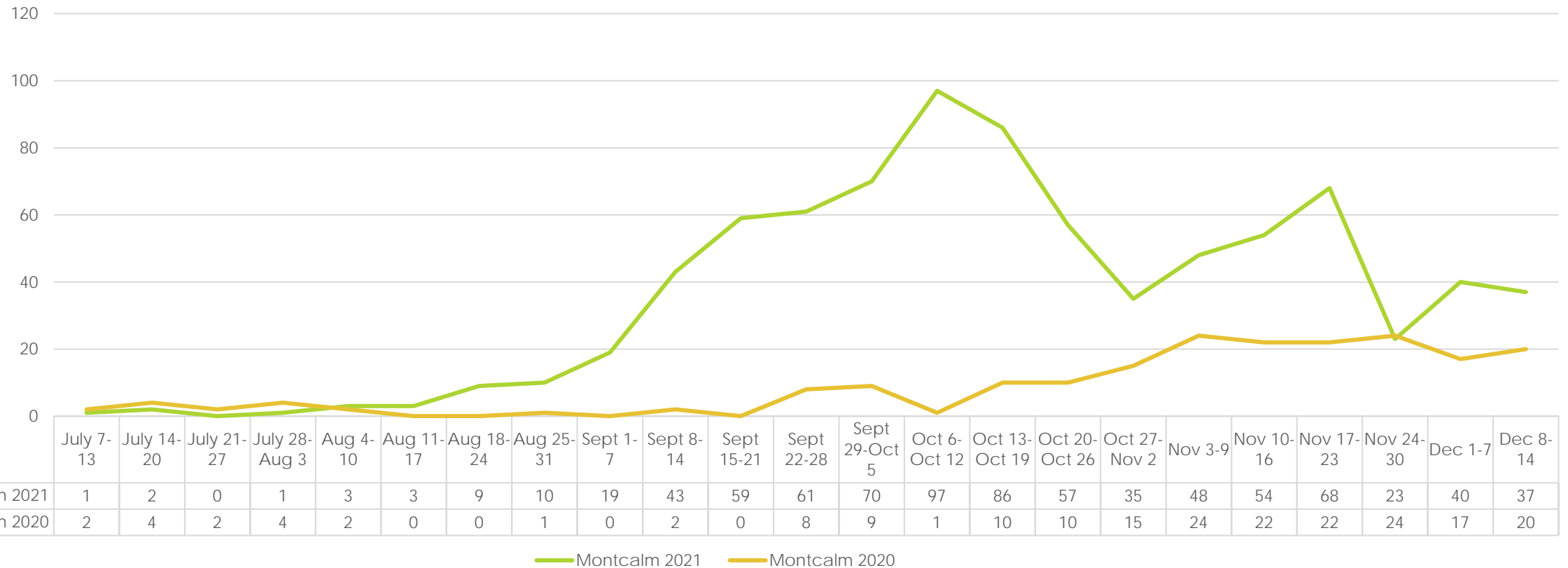
# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Gratiot



# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Montcalm



DHD10

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Crawford

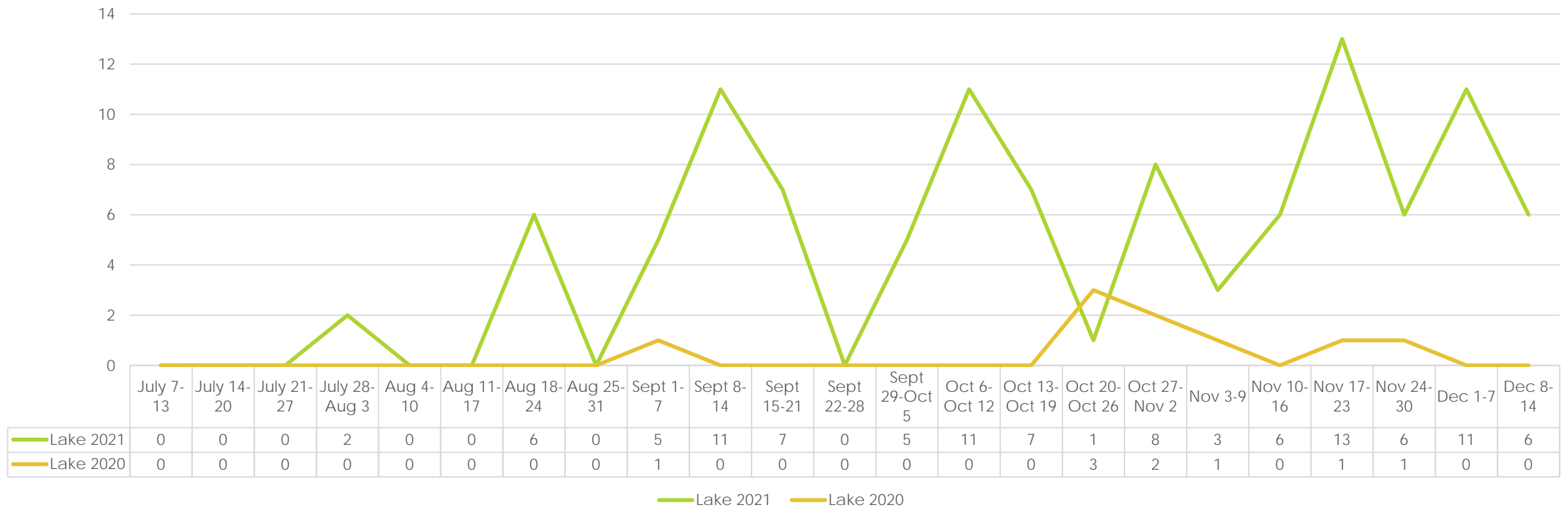


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Crawford 2021	0	0	0	1	0	1	1	2	0	3	7	11	3	13	11	12	10	16	13	24	20	6	2
Crawford 2020	0	0	0	4	0	0	0	0	0	0	0	0	1	1	0	0	1	1	5	6	4	2	0

— Crawford 2021 — Crawford 2020

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

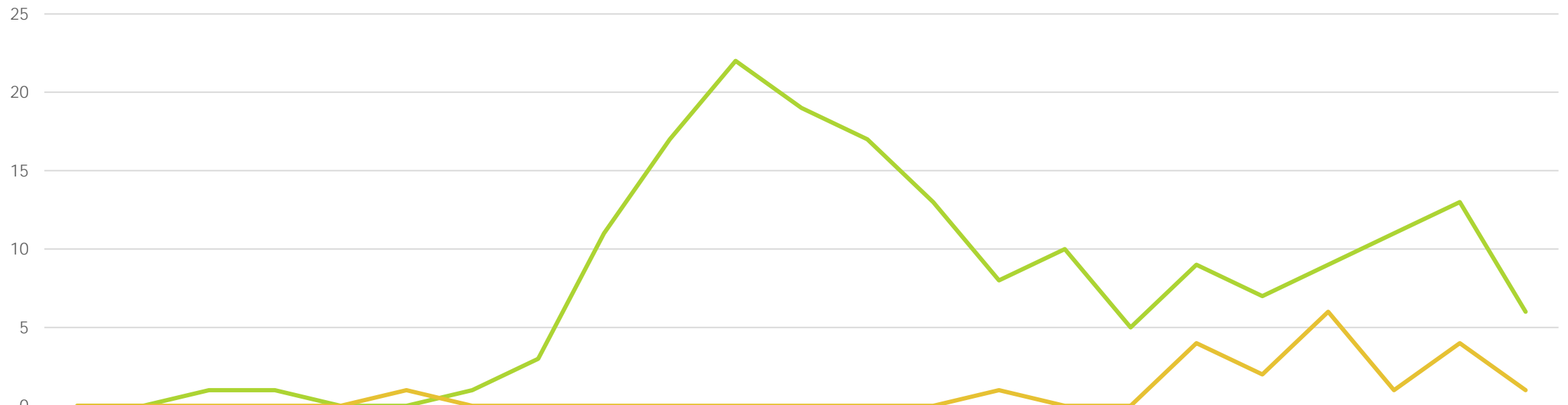
Lake





# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Kalkaska

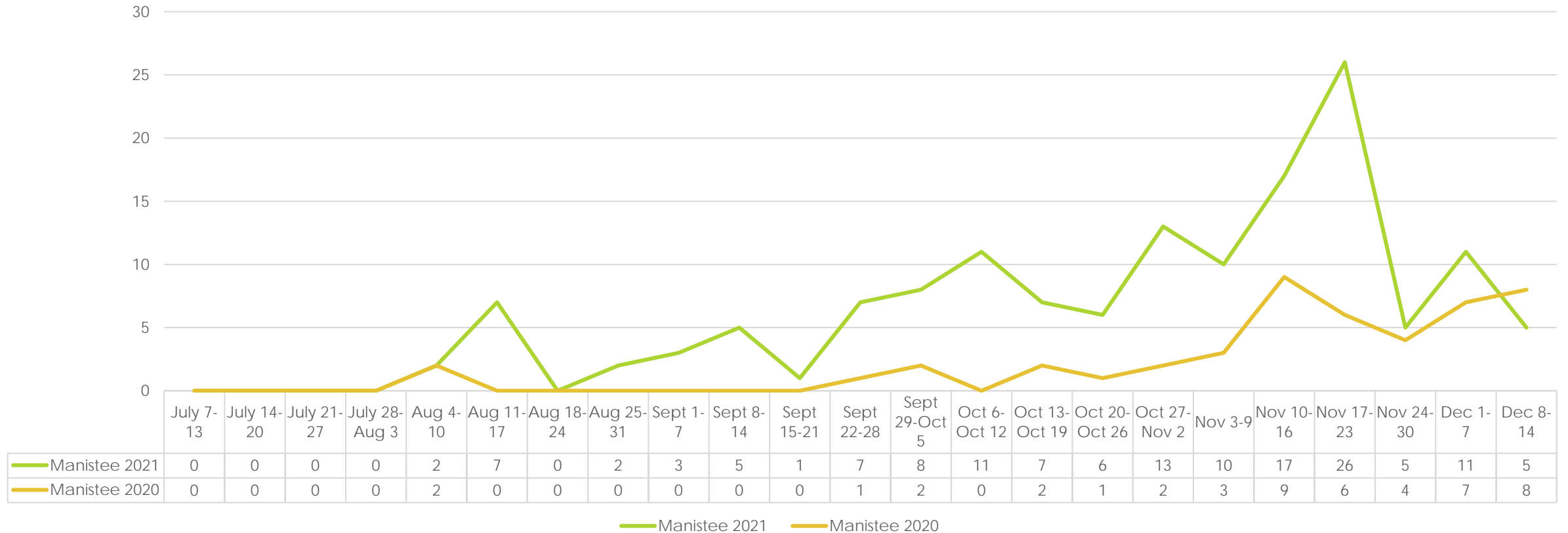


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Kalkaska 2021	0	0	1	1	0	0	1	3	11	17	22	19	17	13	8	10	5	9	7	9	11	13	6
Kalkaska 2020	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	4	2	6	1	4	1

— Kalkaska 2021 — Kalkaska 2020

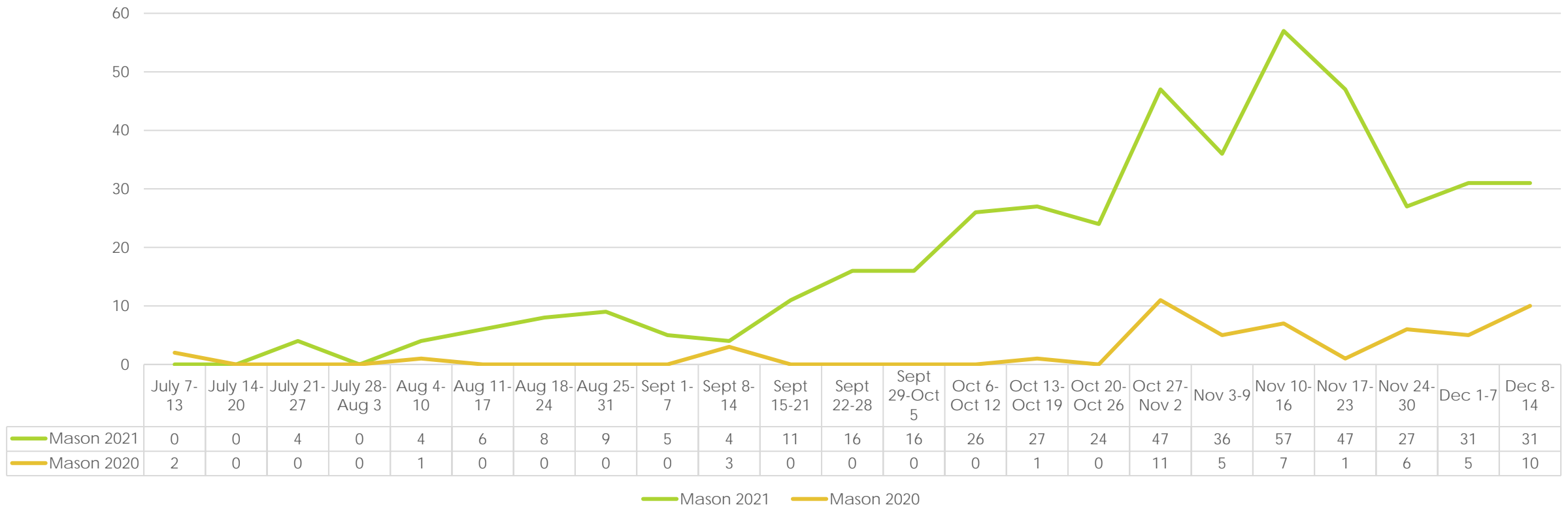
# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Manistee



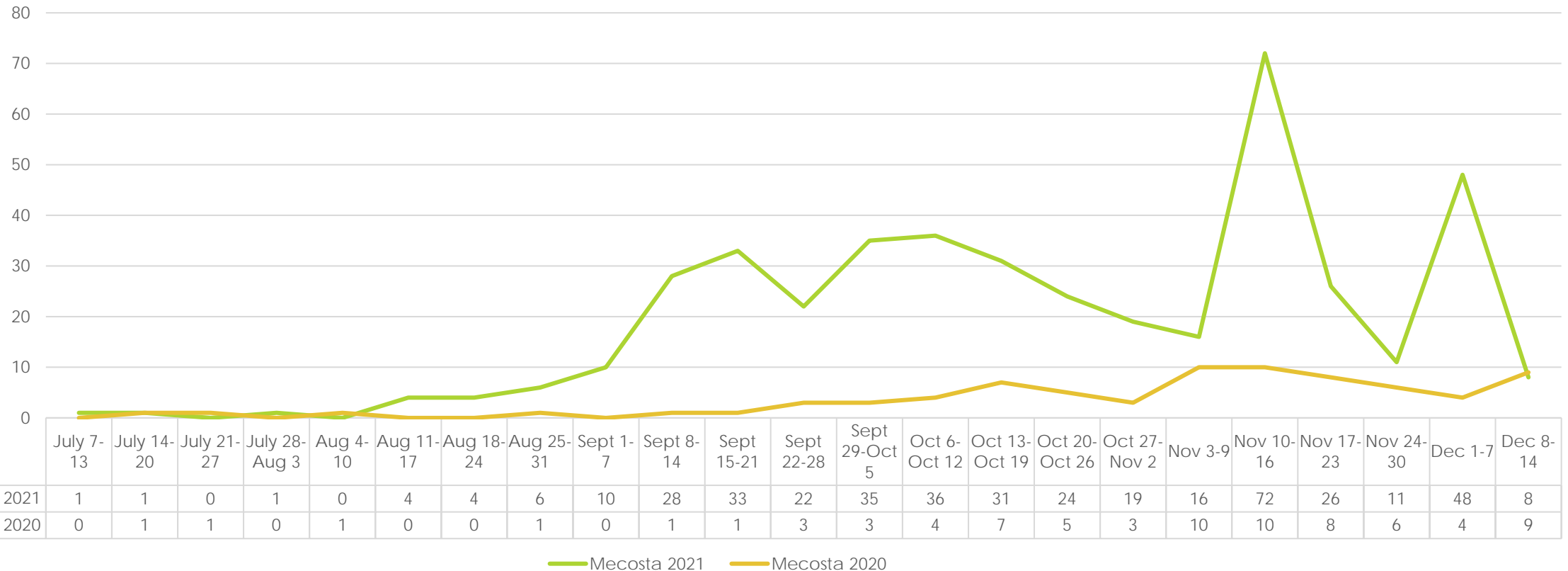
# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Mason



# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Mecosta



# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Missaukee

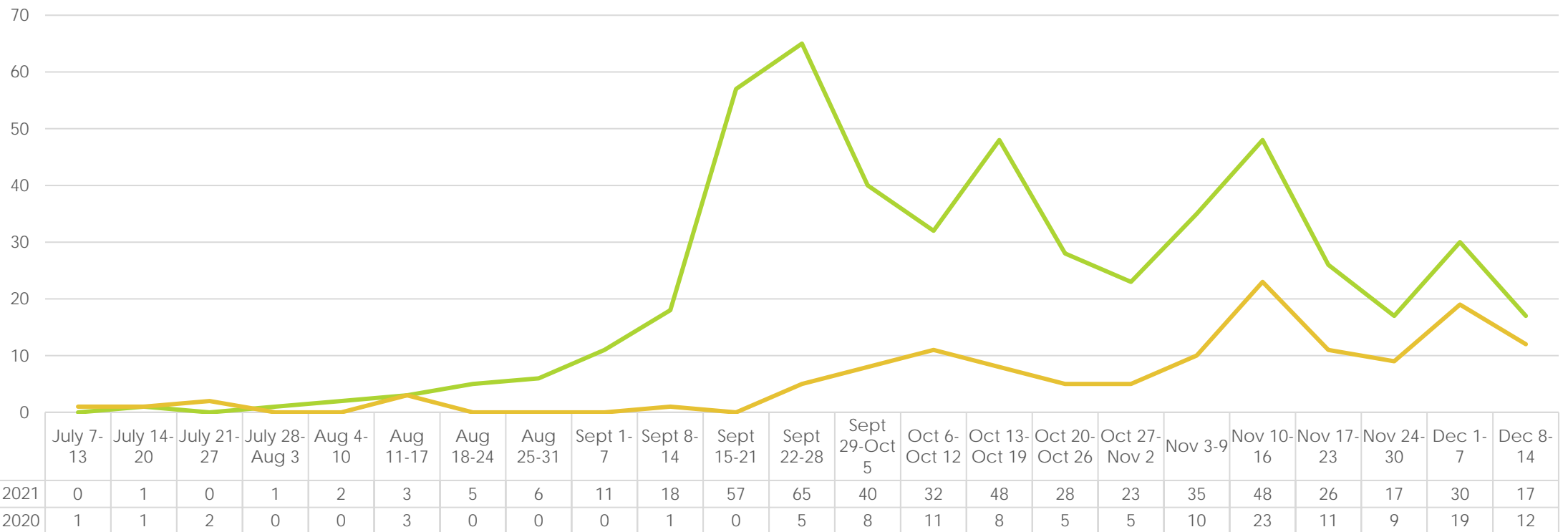


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Missaukee 2021	0	1	0	0	0	0	1	2	3	14	12	11	8	7	3	7	7	5	5	3	4	5	3
Missaukee 2020	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	5	2	2	2	2	1	0

Missaukee 2021 Missaukee 2020

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

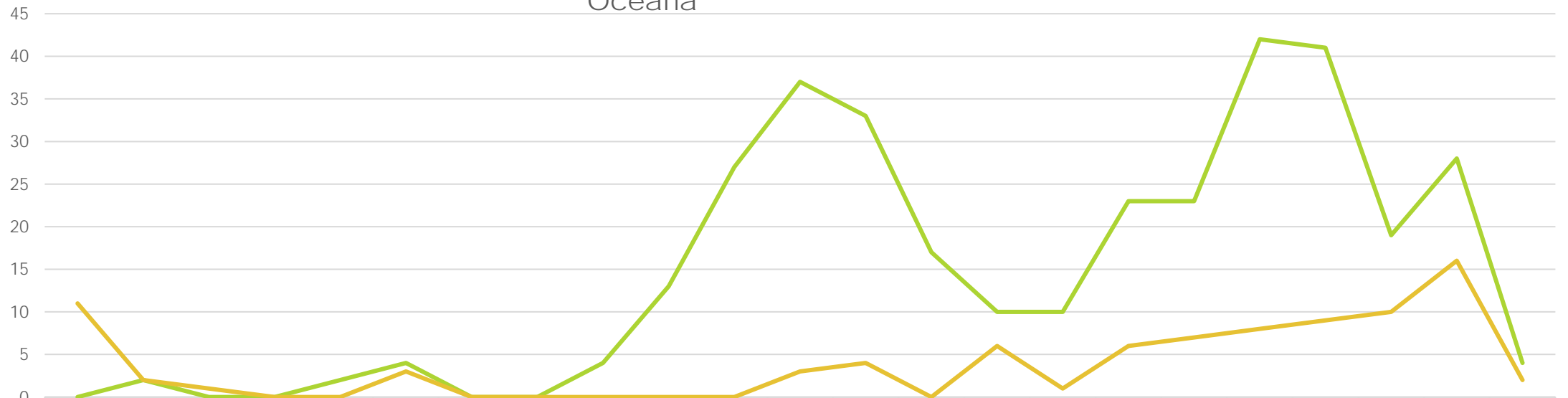
Newaygo



— Newaygo 2021 — Newaygo 2020

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

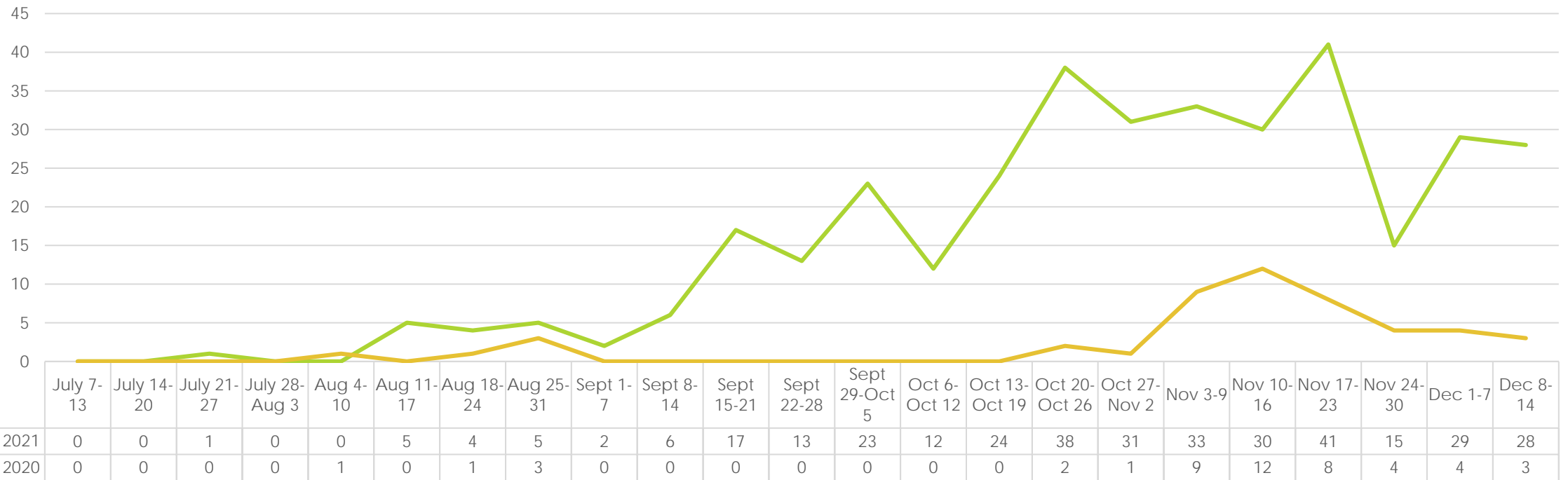
Oceana



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Oceana 2021	0	2	0	0	2	4	0	0	4	13	27	37	33	17	10	10	23	23	42	41	19	28	4
Oceana 2020	11	2	1	0	0	3	0	0	0	0	0	3	4	0	6	1	6	7	8	9	10	16	2

# COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Wexford



Wexford 2021 Wexford 2020





# MI COVID Response Data and Modeling Update-December 14<sup>th</sup>

[https://www.michigan.gov/coronavirus/0,9753,7-406-98163\\_98173\\_105123---,00.html](https://www.michigan.gov/coronavirus/0,9753,7-406-98163_98173_105123---,00.html)

# Michigan Summary

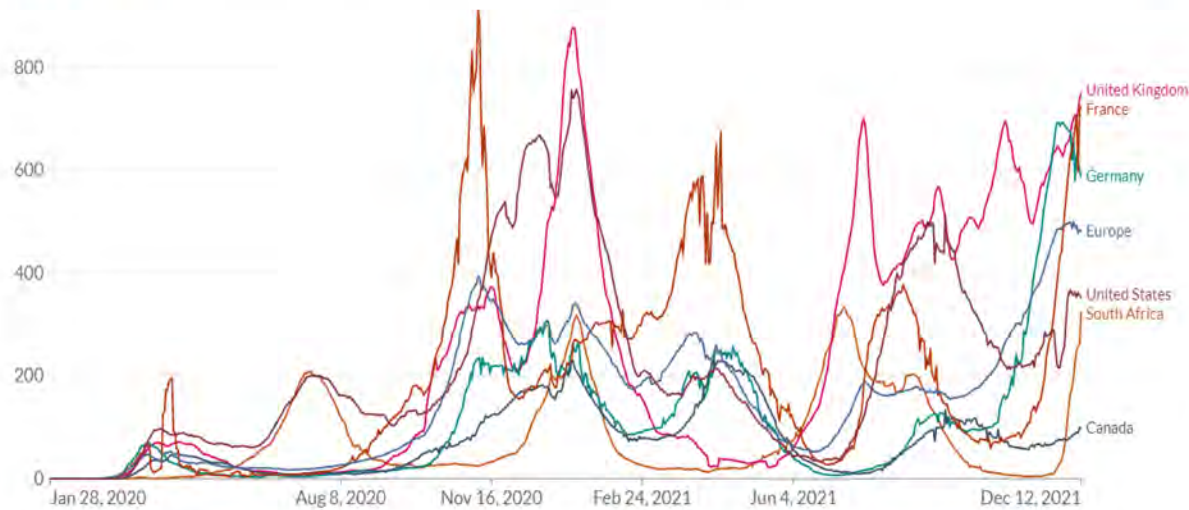
- ▶ Michigan remains at High Transmission
- ▶ Percent positivity (16.9%) is decreasing (last week: 19.5%)
- ▶ Case rate (593.0 cases /million) is increasing (522.9 cases/million prior week) but is down from a recent peak of over 650 (12/3)
  - ▶ In the last 7 days, Michigan reported the 3<sup>rd</sup> most cases (last week's rank: highest) and the 6<sup>th</sup> highest case rate (last week's rank: 2<sup>nd</sup> highest)
- ▶ Percent of inpatient beds occupied by individuals with COVID (22.4%) is increasing for 18 weeks (up from 21.3% last week)
  - ▶ In the last 7 days, no other state or territory has reported a higher inpatient bed utilization than Michigan and 2<sup>nd</sup> highest adult ICU bed utilization (3<sup>rd</sup> highest last week)
- ▶ Daily pediatric hospital census have plateaued but remain near 2021 highs
- ▶ Death rate (9.7 deaths/million) is increasing for one week (8.5 last week). There were 675 COVID deaths between Nov 30 Dec 6
  - ▶ Michigan has the 6<sup>th</sup> most deaths (4<sup>th</sup> highest last week), and 16<sup>th</sup> highest death rate (8<sup>th</sup> highest last week) in the last 7 days

# Global and National Trends

## Daily new confirmed COVID-19 cases per million people

7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.

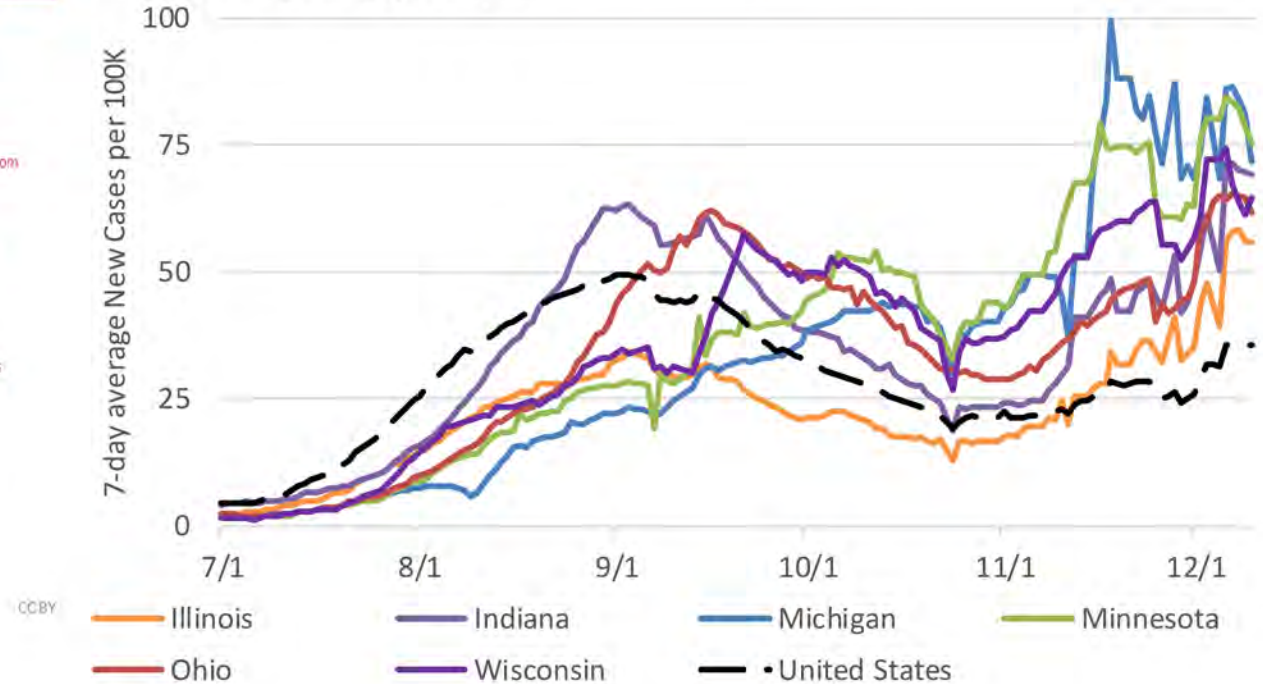
[LINEAR](#) [LOG](#)



Source: Johns Hopkins University CSSE COVID-19 Data

Our World in Data

## Daily new cases of COVID-19, reported to CDC in Region 5 States Seven-day moving average **per 100,000**



CC BY

— Illinois      — Indiana      — Michigan      — Minnesota  
— Ohio      — Wisconsin      - - - United States

**Globally, 270,299,784 cases and 5,308,864 deaths** (Data\* through 12/13/2021)

- European case rates recently plateaued but are levels of  $\geq 500$  cases/million; & cases in South Africa are increasing rapidly with identification of the Omicron

**United States: Nearly all US jurisdictions have High or Substantial community transmission<sup>†</sup>**

- The U.S. is at High transmission level (250 cases/100,000 in last 7 days)

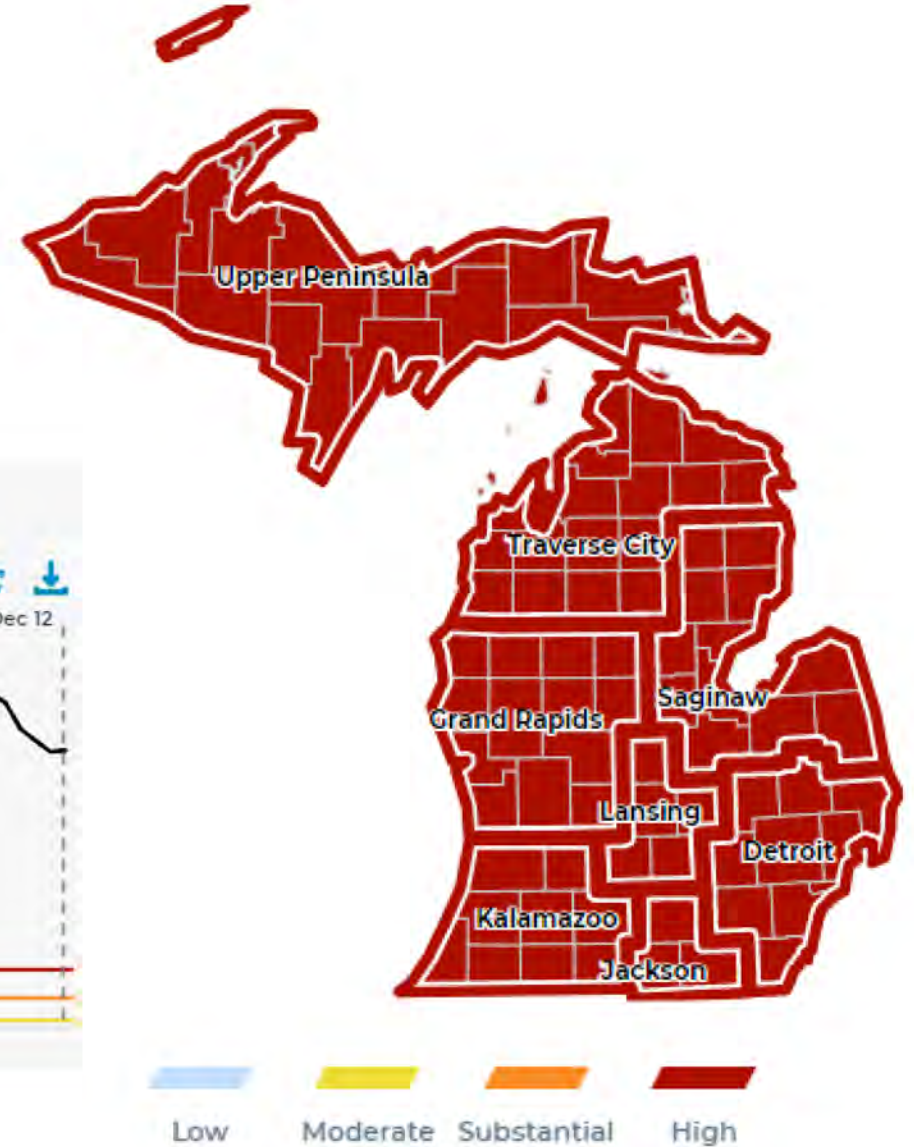
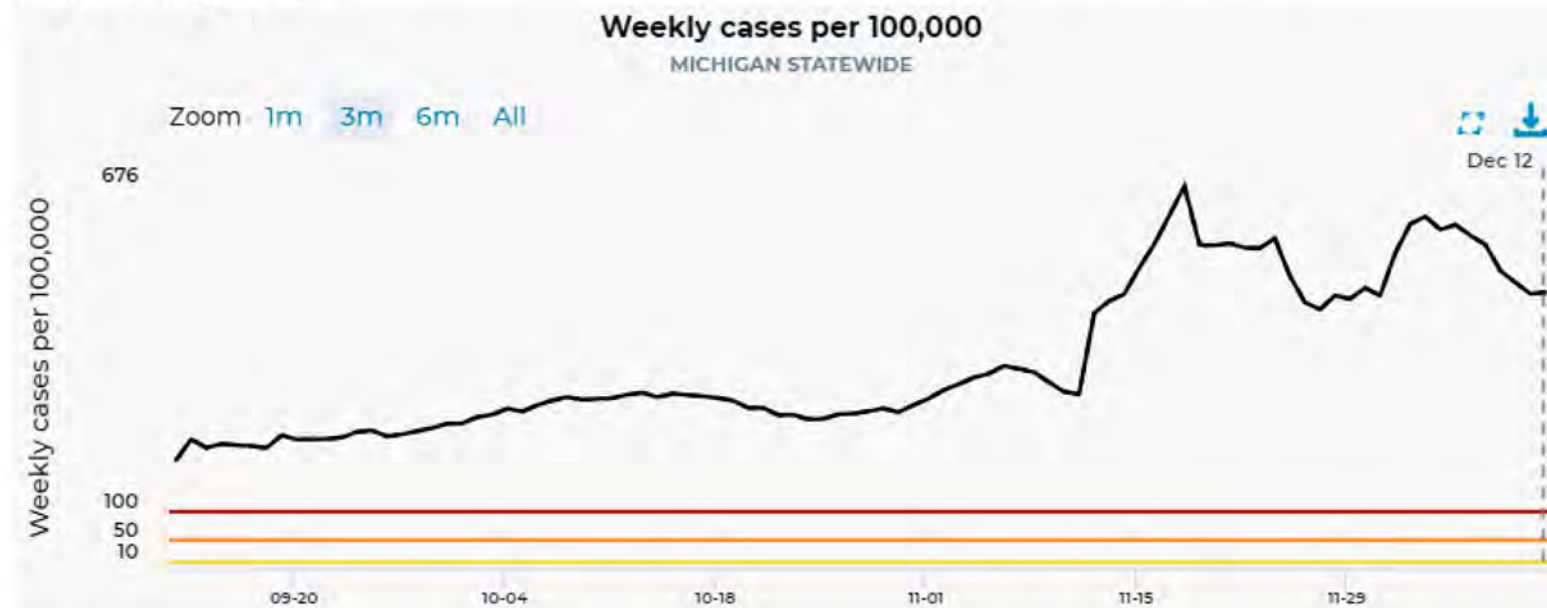
**Midwest states maintain High transmission levels<sup>†</sup> and are increasing**

- Michigan and Minnesota have the highest case rates *in Midwest*

Source: \* [Johns Hopkins Coronavirus Resource Center](#); <sup>†</sup> CDC [COVID Data Tracker Weekly Review](#); <sup>†</sup> CDC [COVID Data Tracker](#) – CDC recently updated their methodology for reporting case rates

# Michigan continuing to experience high daily case count during the pandemic

[Dashboard](#) | [CDC](#) | [MI Start Map](#) for most recent data by reporting date



- Referrals declined since December 4

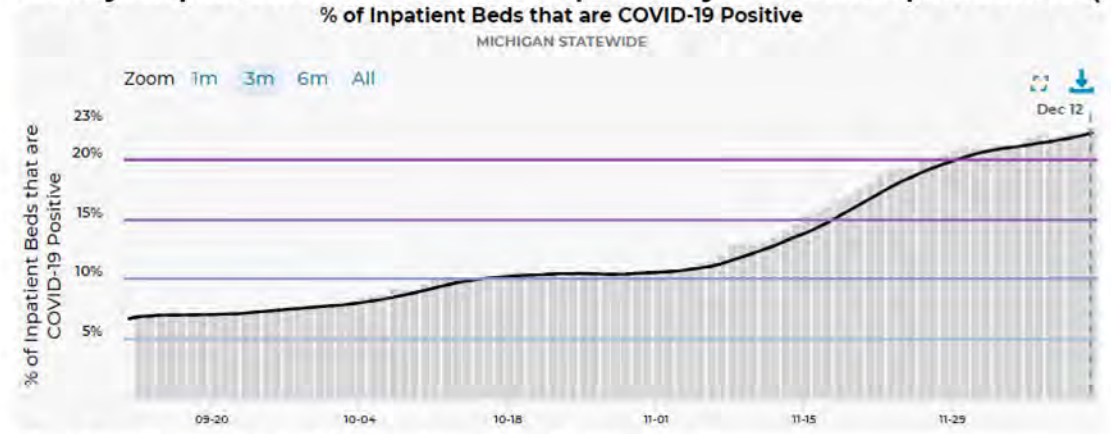
# Time Trends – Positivity, Case Rates, Hospitalizations, Deaths

- Some COVID-19 indicators are plateauing, but burden remains high in MI

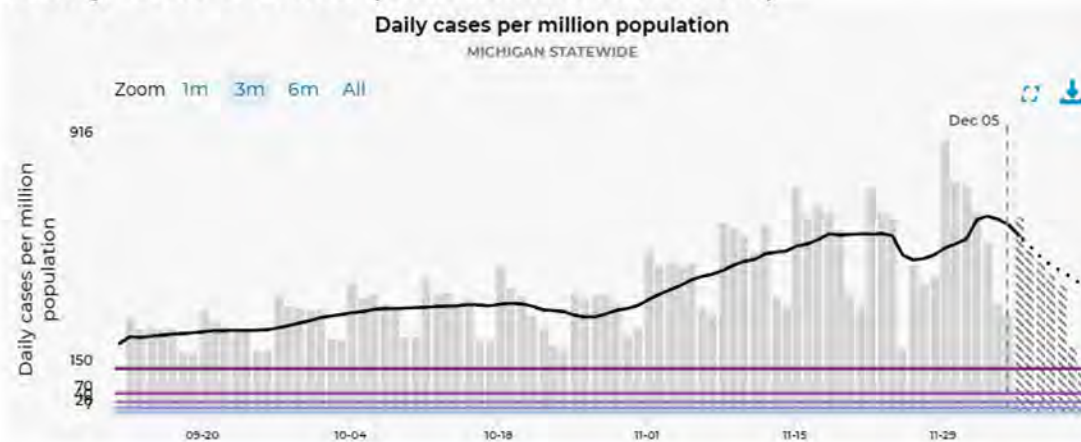
## Daily Positive Test Rate (16.9%)



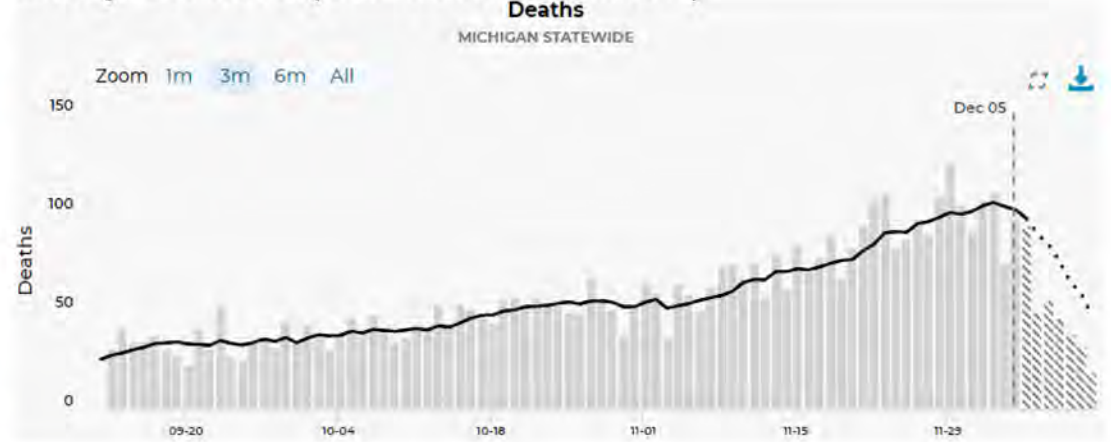
## Daily Inpatient Beds Occupied by COVID patients (22.4%)



## Daily Case Rate (593.0 case/million)



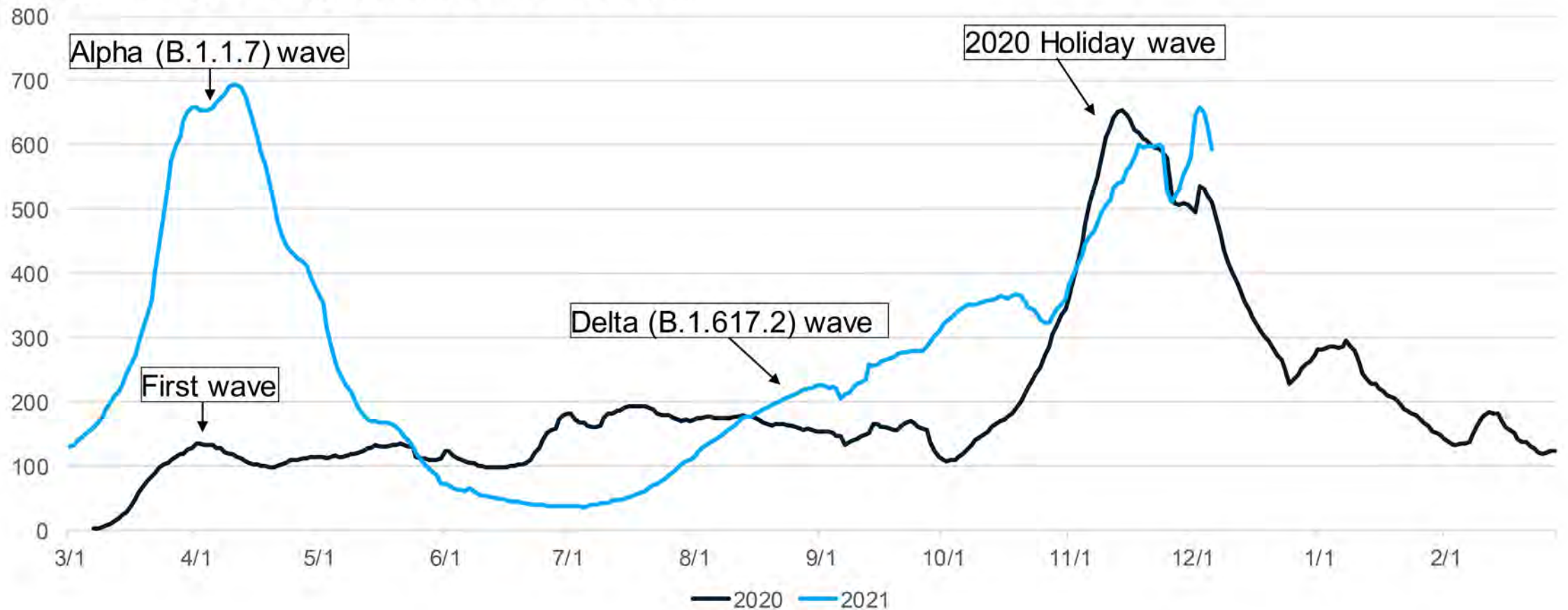
## Daily Deaths (9.7 deaths/million)



# Time Trends – Annual Comparison

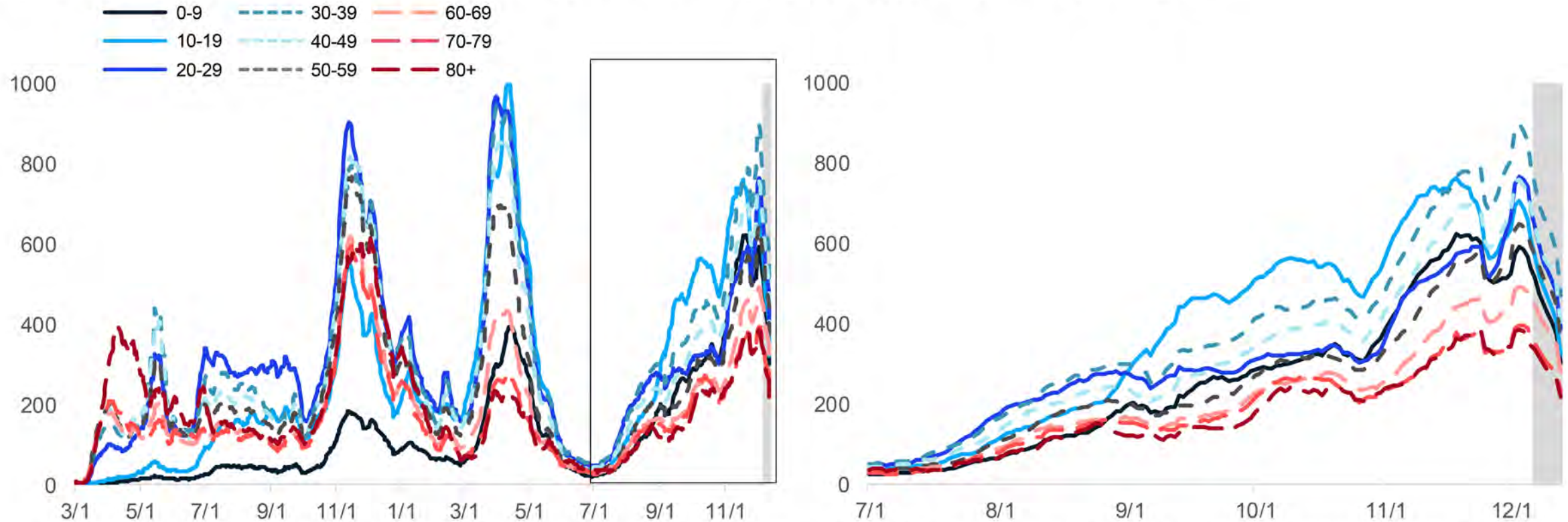
- Case rates are higher than this time last year (by onset date)

## 7- day rolling average of Rates 2020 vs 2021



# Case Rate Trends by Age Group

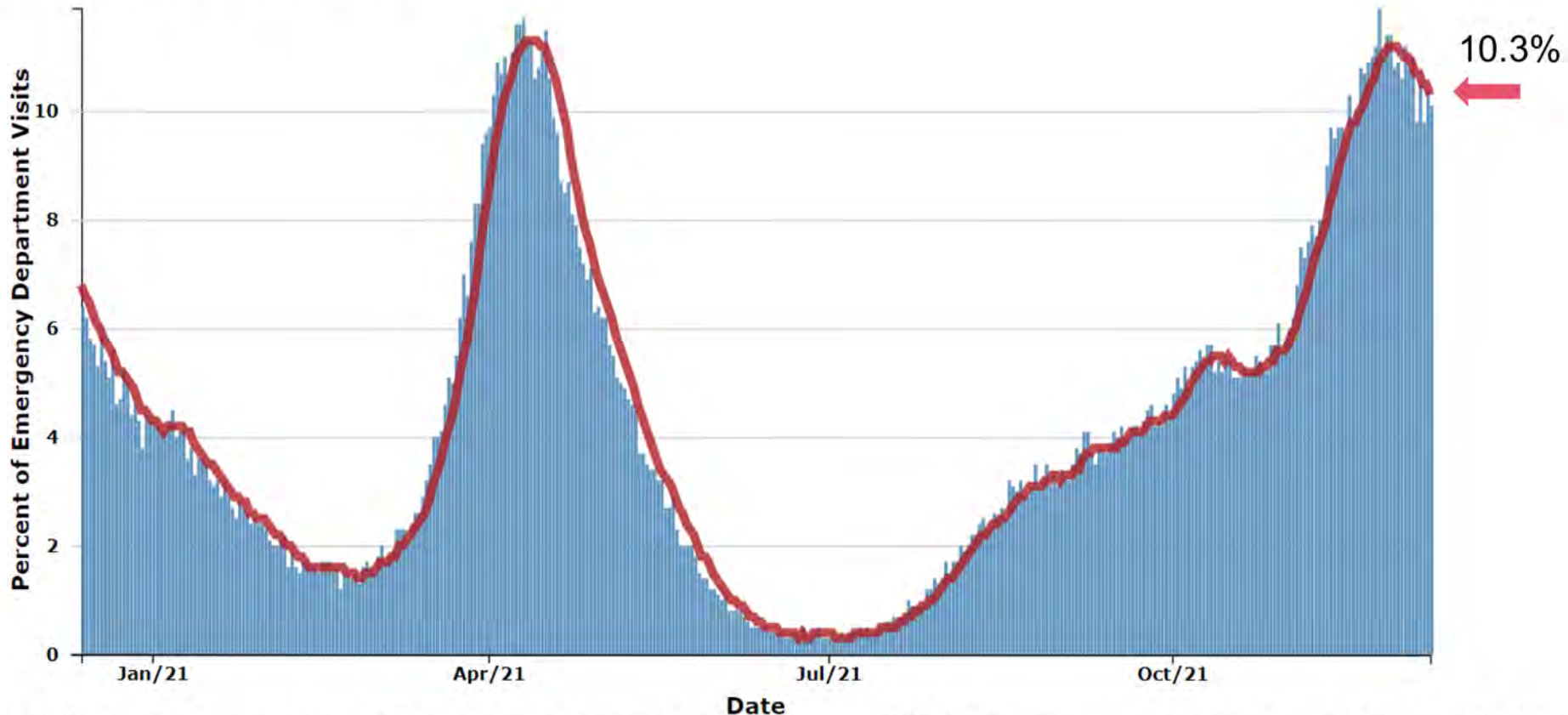
Daily new confirmed and probable cases per million by age group (7-day rolling average)



- Case rate trends for most age groups saw increases following the Thanksgiving holiday but are decreasing again
- Case rates by onset date for all age groups are between 345 and 792 cases per million (through 12/6)
- Case counts and case rates are highest for 30-39-year-olds this week

Note: Case information sourced from MDHHS and reflects date of onset of symptoms  
Source: MDHHS – Michigan Disease Surveillance System

# Michigan Trends in Emergency Department (ED) Visits for Diagnosed COVID-19

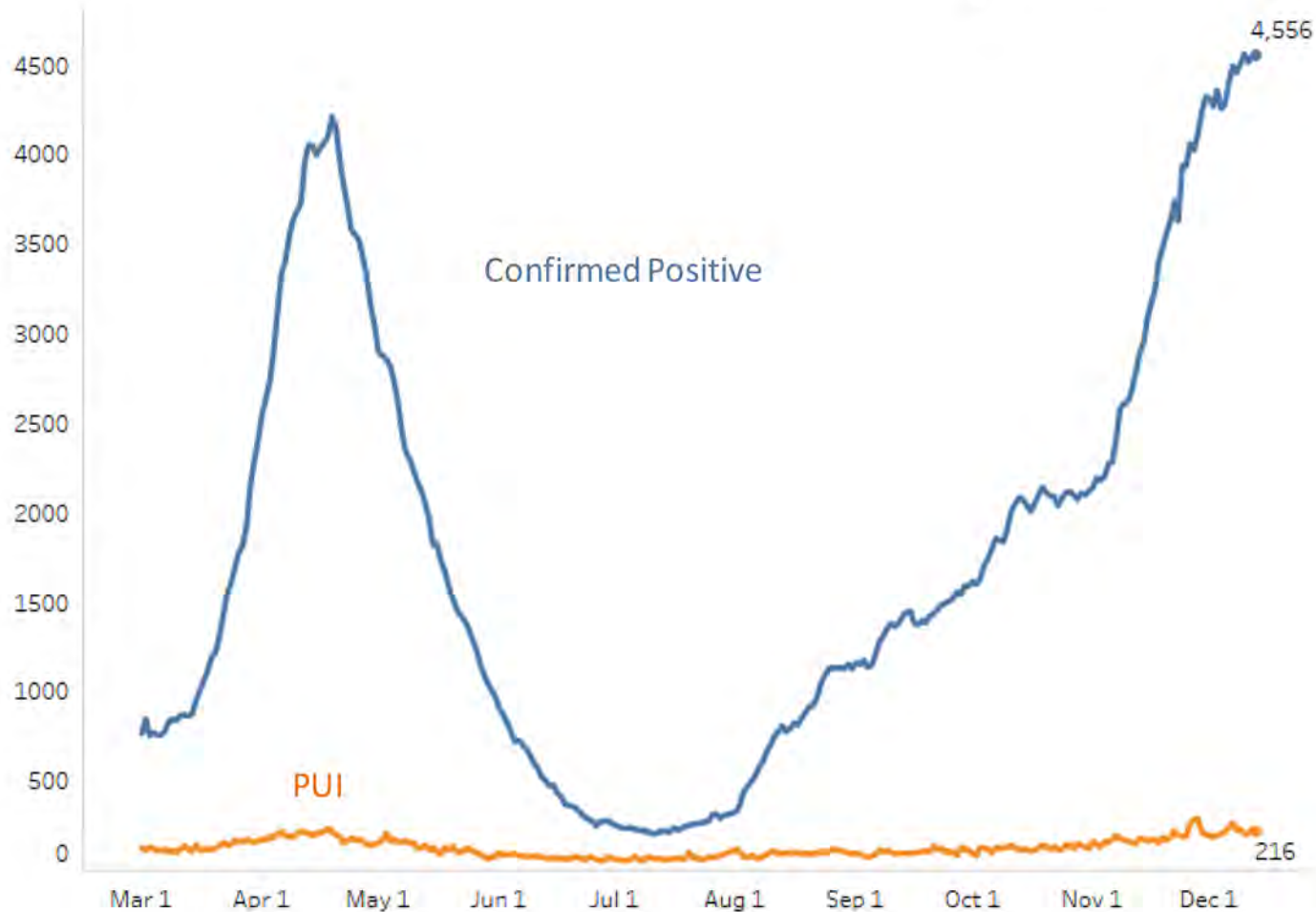


- Trends for ED visits have decreased to 10.3% since last week (down from 10.6% last week, and down from 11% on 11/29), but near Alpha surge high of 11.3%
- Over past week, those 50-64 years saw highest number of avg. daily ED CLI visits (14.3%), but those between 40+ all above state average



# Statewide Hospitalization Trends: Total COVID+ Census

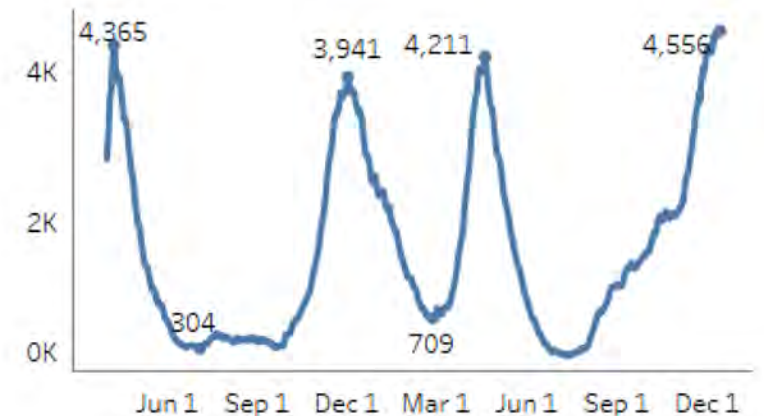
Hospitalization Trends 3/1/2021 – 12/13/2021  
Confirmed Positive & Persons Under Investigation (PUI)



The COVID+ census in hospitals has increased by 3% in the past week (previous week was 4% growth). *This marks the 2<sup>nd</sup> week of slower week over week growth.*

**The current wave's hospitalizations continue to be at the highest point since the beginning of the pandemic.**

Hospitalized COVID Positive Long Term Trend (beginning March 2020)



# Statewide Hospitalization Trends: ICU COVID+ Census

Hospitalization Trends 3/1/2021 – 12/13/2021  
Confirmed Positive in ICUs



The census of COVID+ patients in ICUs has increased only 2% from last week. ICU census continues to exceed the spring 2021 peak.

Regions 1, 2S, 3, 6, and 7 have overall adult ICU occupancy greater than or equal to 85%, with Regions 1, 3, 6, 7 at or above 90% occupancy. All Regions outside the SE have >40% of adult ICU beds occupied with COVID+ patients.

Region	Adult COVID+ in ICU (% Δ from last week)	Adult ICU Occupancy	% of Adult ICU beds COVID+
Region 1	96 (-4%)	90%	46%
Region 2N	175 (-12%)	81%	30%
Region 2S	256 (16%)	88%	36%
Region 3	160 (27%)	95%	45%
Region 5	67 (2%)	80%	43%
Region 6	170 (-3%)	92%	55%
Region 7	68 (-16%)	92%	47%
Region 8	25 (0%)	75%	40%

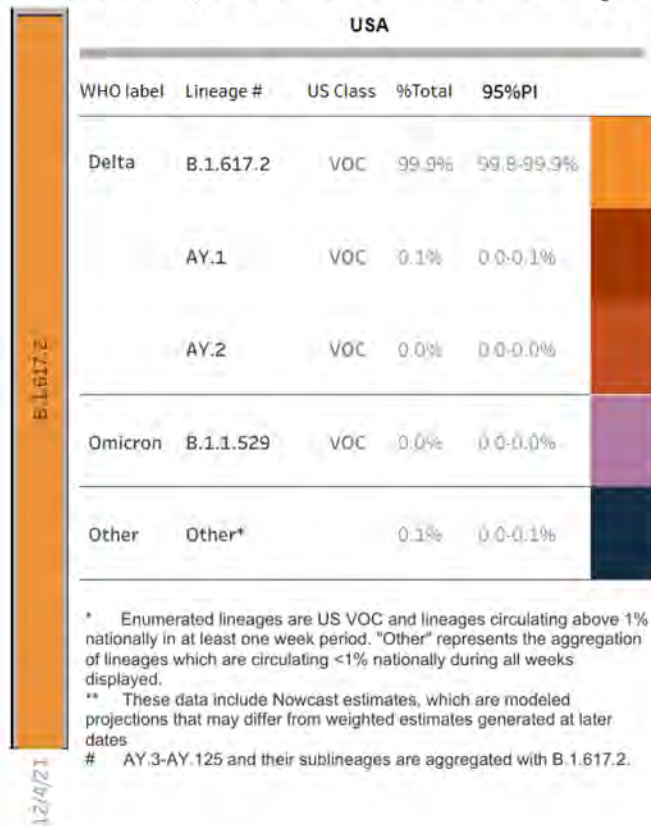
# Statewide Hospitalization Trends: Pediatric COVID+ Census

Hospitalization Trends 1/1/2021 – 12/13/2021  
Pediatric Hospitalizations, Confirmed



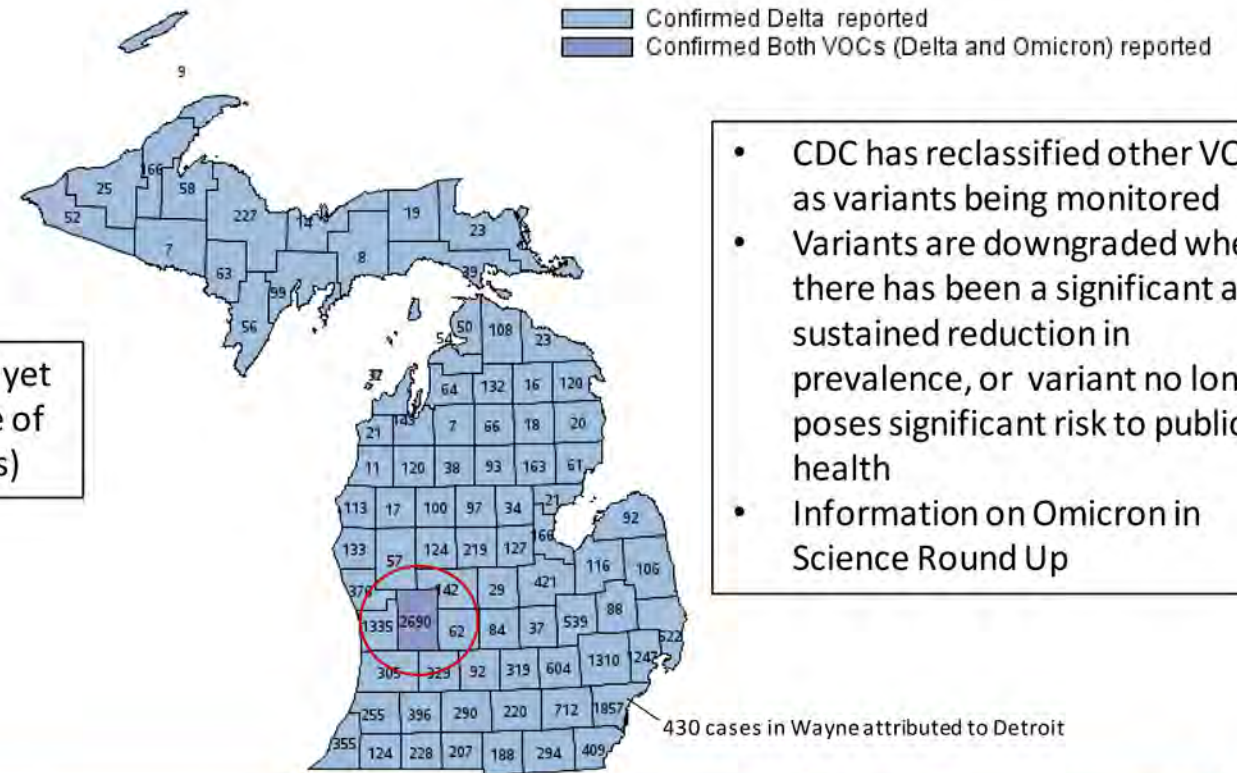
# Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan

## SARS-CoV-2 Variants Circulating in the United States, Nov 27 – Dec 4 (NOWCAST)



Currently, CDC is not yet reporting prevalence of AY.4.2 (i.e., Delta plus)

## Variants of Concern in Michigan, Dec 13



- CDC has reclassified other VOCs as variants being monitored
- Variants are downgraded when there has been a significant and sustained reduction in prevalence, or variant no longer poses significant risk to public health
- Information on Omicron in Science Round Up

Variant	MI Reported Cases <sup>1</sup>	# of Counties	MDHHS VOC Sequenced Prev.
B.1.617.2 (delta)	19,954	83	>99%
B.1.1.529 (omicron)	1	1	<1%

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MICHIGAN

## Michigan identifies two more cases of omicron variant of COVID-19

**Craig Mauger** The Detroit News

Published 5:02 p.m. ET Dec. 15, 2021

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As of Wednesday afternoon, the state had identified two additional omicron cases in Genesee County...



# Key Messages: Science Round Up

## **Omicron: A new variant identified**

- 29 states and territories in the United States have reported identification of the omicron variant
- Vaccines, in combination with other mitigation measures like masking, and avoiding large indoor crowded settings, remain effective public health measure to protect people from COVID-19, slow transmission, and reduce the likelihood of new variants emerging
- Non-pharmaceutical interventions (e.g., masking, testing, physical distancing, and quarantine and isolation) remain effective against all variants of SARS-COV-2
- Despite the increased attention of Omicron, Delta continues to be the main variant circulating in the United States

**Importance of masking in indoor spaces - to address widespread community spread that's impacting school age children**

**States with lower vaccine coverage have had higher case and death rates since July 2021**

**Vaccine coverage remains highly heterogeneous and varies widely within counties**

**Nationally, vaccination intent corresponds with surveilled vaccine coverage**

# Omicron – Update December 14, 2021

**How easily does Omicron spread?** Omicron variant likely will spread more easily

**Will Omicron cause more severe illness?** More data are needed

**Will vaccines work against Omicron?** Current vaccines, especially with booster, are expected to protect against severe illness, hospitalizations, and deaths

**Will treatments work against Omicron?** More data needed, but some treatments are likely to remain effective while others may be less effective

## We have the Tools to Fight Omicron

- Vaccines especially with booster
- Masking
- Avoiding large indoor crowded settings
- Testing for COVID-19
- Using multiple levels of mitigation are more effective to prevent transmission



Territories AS GU PR VI MP FM PW MH



- As of Dec 14, 2021, 31 states and territories have reported identification of the Omicron variant
- As of Dec 13, 2021, at least one county in Michigan has identified a case with the Omicron variant

# K-12 school clusters and outbreaks, recent and ongoing, week ending Dec 9

Number of reported outbreaks/clusters decreased since last week (557 to 523), with decreases in Pre K-Elementary (323 to 305), Middle/Jr High (115 to 103), and High Schools (119 to 115). No Administration outbreaks reported this week

Region	Number of reported cases, #	# Ongoing - Excluding New	# New	Number of outbreaks	Range of cases per outbreak
Region 1	1,538	19		109	2-77
Region 2n	430	7		50	2-45
Region 2s	442	61		45	3-44
Region 3	3,151	54		149	2-98
Region 5	183	40		37	3-21
Region 6	547	35		90	3-51
Region 7	202	7		16	3-47
Region 8	528	5		27	4-51
<b>Total</b>	<b>7,021</b>	<b>228</b>		<b>523</b>	<b>2-98</b>

Grade level	Number of reported cases, #	# Ongoing - Excluding New	# New	Number of outbreaks	Range of cases per outbreak
Pre-school - elem.	3,080	117		305	2-59
Jr. high/middle school	1,547	34		103	2-77
High school	2,394	77		115	3-98
Administrative	0	0		0	4
<b>Total</b>	<b>7,021</b>	<b>228</b>		<b>523</b>	<b>2-98</b>

Many factors, including the lack of ability to conduct effective contact tracing in certain settings, may result in significant underreporting of outbreaks. This chart does not provide a complete picture of outbreaks in Michigan and the absence of identified outbreaks in a particular setting in no way provides evidence that, in fact, that setting is not having outbreaks.

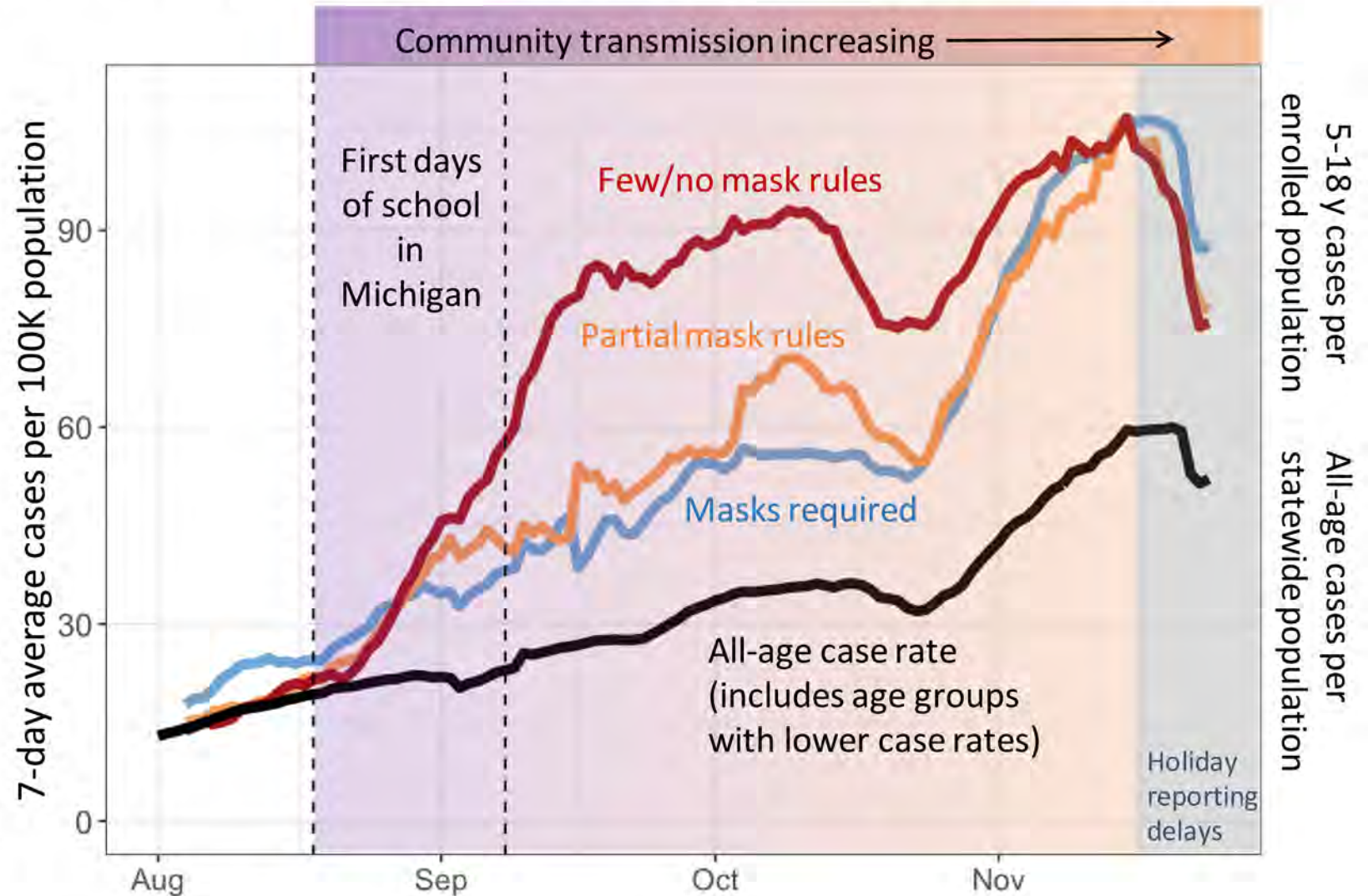
NOTE (10/4): MDHHS adopted the new [CSTE school cluster and outbreak definition](#) which impacts how transmissions within school-sponsored settings are reported to the health department



# School-aged case rates have become more similar across mask rules as community transmission has increased

- Case rates are now highest in non-school-aged age groups (30–39-year-olds)
- Case rates in 5–18-year-olds have become more similar across mask rule types
- Differences due to masking potentially being washed out by transmission in other settings
- **It remains important to mask up in indoor settings (schools and otherwise) to prevent transmission**

Data Sources: MDSS/MDHHS case data through as of 12/3/21 geocoded to school district, EOG School District Mask Policy Tracker data. Note: Cases are among all 5-18 year olds, population is the school-enrolled population.



# Cumulative COVID-19 Cases by Vaccination Status, Michigan, Jan 15 – Dec 3

Fully Vaccinated People (5,154,846)		
Cases	Hospitalization	Deaths
Percent of Cases In People Not Fully Vaccinated (711,227 / 835,960) <b>85.1%</b>	Percent of Hospitalizations In People Not Fully Vaccinated (17,706 / 20,101) <b>88.1%</b>	Percent of Deaths In People Not Fully Vaccinated (8,733 / 10,216) <b>85.5%</b>
<b>711,227</b> Total Cases Not Fully Vaccinated	<b>17,706</b> Total Hospitalized Not Fully Vaccinated	<b>8,733</b> Total Deaths Not Fully Vaccinated
Total Breakthrough Cases <b>124,733</b>	Total Breakthrough Hospitalizations <b>2,395</b>	Total Breakthrough Deaths <b>1,483</b>
<b>2.420%</b> Percent of Fully Vaccinated People who Developed COVID-19 (124,733 / 5,154,846)	<b>0.046%</b> Percent of Fully Vaccinated People Who Were Hospitalized for COVID-19 (2,395 / 5,154,846)	<b>0.029%</b> Percent of Fully Vaccinated People Who Died of COVID-19 (1,483 / 5,154,846)
<b>14.9%</b> Percent of Cases Who Were Fully Vaccinated (124,733 / 835,960)	<b>11.9%</b> Percent of Hospitalizations Who Were Fully Vaccinated (2,395 / 20,101)	<b>14.5%</b> Percent of Deaths Who Were Fully Vaccinated (1,483 / 10,216)
<b>Total Cases: 835,960</b>	<b>Total Hospitalizations: 20,101</b>	<b>Total Deaths: 10,216</b>

Michigan Disease Surveillance System may underestimate the frequency of COVID-19 hospitalizations:

- Case investigation and follow-up is more difficult for individuals who get hospitalized (e.g., they are too ill to speak to investigators, don't answer their phone, or otherwise).
- These hospitalizations include individuals who are hospitalized for issues other than COVID-19 (the same as breakthrough COVID-19).
- Individuals who get hospitalization will lag after infection and may occur after case investigation.

# Over 5.5 Million Michiganders fully vaccinated and 55.8% of total population fully vaccinated

## Vaccination Coverage in Michigan as of 12/12/21

### Vaccination Coverage

5.57 million people in the state are fully vaccinated\*

86.0% of people aged 65 and older have completed the series\*

62.3% of total population initiated\*

### Booster Coverage

61% of fully vaccinated people aged 65 and older have received a booster dose

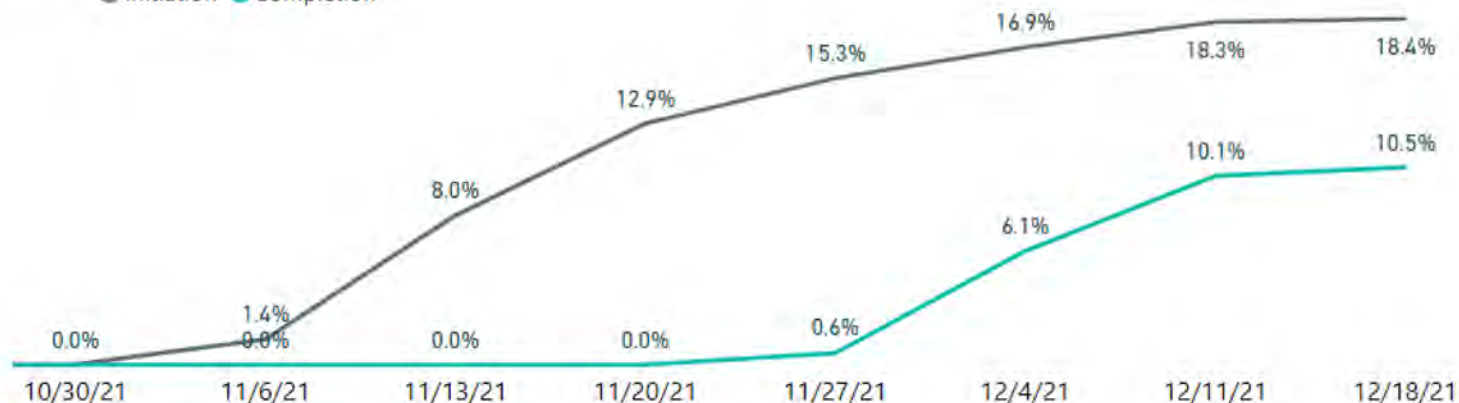
35% of Michiganders in the state who are fully vaccinated have received their booster dose

Age Group	% At Least One Dose	% Fully Vaccinated	% Boosted**	Number Fully Vaccinated
Total Population	62.3%	<b>55.8%</b>	<b>35.0%</b>	5,570,795
≥ 5 years	66.0%	59.1%	N/A	5,570,747
≥ 12 years	70.6%	63.9%	N/A	5,494,220
≥ 18 years	72.8%	66.0%	37.6%	5,175,680
≥ 65 years	93.8%	86.0%	60.8%	1,518,381

\*\*Percentage of the fully vaccinated population

5-11 years

● Initiation ● Completion



As of Date	County	% At Least One Dose, 12 yrs and older	% Fully Vaccinated, 12 yrs and older	% At Least One Dose, 18 yrs and older	% Fully Vaccinated, 18 yrs and older	% At Least One Dose, 65 yrs and older	% Fully Vaccinated, 65 yrs and older
12/12/2021	<b>MICHIGAN</b>	70.6	59.1	72.8	66	93.8	86
12/12/2021	Arenac County	58.6	55.3	62.1	58.2	86.2	82.4
12/12/2021	Clare County	53.1	50.6	55.8	53	80.9	77.3
12/12/2021	Clinton County	65	62.2	67.2	64	86.1	83.3
12/12/2021	Crawford County	58.5	55.1	60.6	56.7	75.4	72.4
12/12/2021	Gladwin County	55.2	52	58	54.4	80.7	76.7
12/12/2021	Gratiot County	51.5	49.4	53.9	51.5	87	83.9
12/12/2021	Isabella County	50.2	47.4	51.1	48	86.6	82.2
12/12/2021	Kalkaska County	54	51.4	56.7	53.9	85	81.8
12/12/2021	Lake County	64.5	61.8	67.5	64.6	69.8	67
12/12/2021	Manistee County	66.3	63.6	68.8	65.7	89.6	85.9
12/12/2021	Mason County	68.7	66	71.5	68.3	92.4	88.8
12/12/2021	Mecosta County	46.3	44.7	48.3	46.4	79.8	76.3
12/12/2021	Missaukee County	56.2	54.2	60.1	57.9	85.4	82.5
12/12/2021	Montcalm County	48	46.4	50.8	48.9	78.7	76.1
12/12/2021	Newaygo County	50.6	49.1	53.7	51.8	79.1	76.4
12/12/2021	Oceana County	61.7	59.6	65.1	62.4	86.7	83.1
12/12/2021	Osceola County	48.2	46.1	51.7	49.4	77.1	74.5
12/12/2021	Roscommon County	62.9	59.4	65.6	61.8	83.6	79.3
12/12/2021	Wexford County	59.6	57.3	62.7	60.1	87.6	84.7



Due to the holidays and breaks:  
NO weekly meetings the NEXT TWO WEEKS:

- ❖ Thursday December 23<sup>rd</sup>
- ❖ Thursday December 30<sup>th</sup>

*Happy  
Holidays From All  
of Us at the Health  
Department!*