



Back to School 2021-2022 With COVID-19 October 14, 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

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

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!

For Testing and Vaccination Options:

Major Leonard D. Uller
ullerL@michigan.gov
Mobile: (313) 600-7621



<https://www.mlive.com/coronavirus/2020/12/michigan-national-guard-covid-19-help-extended-through-march-2021.html>



<https://www.army.mil/article/243568/michigan-national-guard-supports-vaccination-clinic>

Vaccine Clinics: Other options if interested in influenza or COVID-19 booster clinics:

- ▶ For DHD#10 (Missaukee, Crawford, Kalkaska, Wexford, Lake, Mason, Manistee, Oceana, Newaygo, Mecosta Counties):
 - ▶ Bethanie Dean, RN
Immunization Coordinator
bdean@dhd10.org
Office: 231-309-8944
- ▶ For CMDHD (Roscommon, Osceola, Clare, Gladwin, Arenac, Isabella Counties):
 - ▶ Call your COVID contact person, they or their supervisor can help you
- ▶ For MMDHD (Montcalm, Gratiot, Clinton Counties):
 - ▶ Call your COVID contact person, they or their supervisor can help you
- ▶ **NOTE: Health Dept. nursing staff may not be available for off-site clinics due to current load of COVID case. Local pharmacies can be contacted as an alternative.**

Vaccine Updates

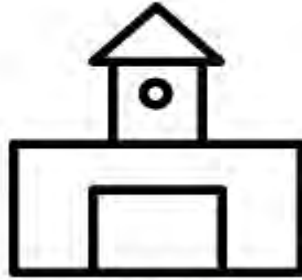
- ▶ **On Oct. 14 and 15:** the U.S. Food and Drug Administration Vaccines and Related Biological Products Advisory Committee (VRBPAC) will meet to:
 - ▶ Discuss the use of booster doses of the Moderna COVID-19 Vaccine and the Janssen COVID-19 Vaccine.
 - ▶ Discuss use of a booster of a different vaccine than the one used for the primary series of an authorized or approved COVID-19 vaccine (heterologous or “mix and match” booster).
- ▶ The FDA anticipates receiving a request from Pfizer to amend its emergency use authorization to allow the use of its COVID-19 vaccine in children 5 through 11 years of age.
 - ▶ In anticipation of the request, the FDA is moving forward with scheduling an advisory committee meeting on **Oct. 26** to inform the agency’s decision-making.
- ▶ Advisory Committee on Immunization Practices (ACIP) has meetings scheduled **October 20-21** and **November 2-3** (no agenda released yet)



Clinical trial and/or real-world data



Vaccines and Related Biological Products Advisory Committee (VRBPAC)



FDA



Advisory Committee on Immunization Practices (ACIP)



CDC



Public



VRBPAC is an external scientific committee of the FDA that review the results of studies on safety and effectiveness of the vaccine and give their opinion about the safety and effectiveness of the vaccine.

The U.S. Food and Drug Administration (FDA) approve a vaccine before it can be used in the United States. This is to ensure their safety, purity, potency, and effectiveness. Approval is based on the results of studies on safety and effectiveness of the vaccine. FDA also inspects the vaccine manufacturing sites to make sure they comply with current Good Manufacturing Practice (cGMP) regulations.

ACIP is an external scientific committee of the CDC that reviews the results of studies on safety and effectiveness of the vaccine and give their opinion about the safety and effectiveness of the vaccine. They also play a key role in policy (who, what, where gets the vaccine; global equity considerations; etc). Their recommendations may/may not align with FDA approval.

The Centers for Disease Control and Prevention (CDC) sets the U.S. adult and childhood immunization schedules based on recommendations from the Advisory Committee on Immunization Practices (ACIP). Their final decisions may/may not align with FDA approval.

Vaccine Resources

- ▶ How Schools Can Support COVID-19 Vaccination
https://www.cdc.gov/vaccines/covid-19/planning/school-located-clinics/how-schools-can-support.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fvaccines%2Ftoolkits%2Fschools-childcare.html
- ▶ Influenza vaccine resource center <https://www.cdc.gov/flu/resource-center/index.htm>

Some Clarifications

- ▶ General Guidance for Isolation
 - ▶ You can be around others after:
 - ▶ **10 days** since symptoms first appeared **and**
 - ▶ 24 hours with no fever without the use of fever-reducing medications **and**
 - ▶ Other symptoms of COVID-19 are improving*
- *Loss of taste and smell may persist for weeks or months after recovery and need not delay the end of isolation
- ▶ Someone who has been fully vaccinated and shows no symptoms of COVID-19 does not need to quarantine.
- ▶ Someone who tested positive for COVID-19 with a viral test within the previous 90 days and has subsequently recovered and remains without COVID-19 symptoms does not need to quarantine.
- ▶ Relying on a symptom-based rather than test-based strategy for ending isolation is recommended for most people (i.e., **you DO NOT need a negative test to leave isolation**).
- ▶ For people who are severely ill or severely immunocompromised: A test-based strategy can be considered in consultation with infectious disease experts.

Test To Stay Examples

- ▶ Need to test negative by rapid antigen testing each school day prior to attending class for 7 days past the date of their last exposure. Testing only has to be done prior to school, in other words, it does not have to be done on weekends or holidays. (also test if symptoms develop)

Example One:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 WEEKEND	2	3	4	5	6 Last day exposed to contagious person	7 WEEKEND No school (day 1)
8 WEEKEND No school (day 2)	9 TEST (Day 3)	10 TEST (Day 4)	11 TEST (Day 5)	12 TEST (Day 6)	13 TEST (Day 7)	14 WEEKEND
ONLY 5 TESTS NEEDED IN THIS SCENARIO						

Example Two:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 WEEKEND	2 Last day exposed to contagious person (but not yet diagnosed with COVID)	3 Sick student stayed home (day 1)	4 Learned today of sick student's positive test result (so just became aware of exposure) (day 2)	5 TEST (Day 3)	6 TEST (Day 4)	7 WEEKEND No school (day 5)
8 WEEKEND No school (day 6)	9 TEST (Day 7)	10	11	12	13	14 WEEKEND
ONLY 3 Tests needed in this scenario						



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

(we will not be doing data table any longer)

	AREA	DAILY CASES PER MIL.* (OCT 04)
1	<u>Schoolcraft</u>	1,115.0
2	<u>Ogemaw</u>	1,024.0
3	<u>Mackinac</u>	858.0
4	<u>Menominee</u>	805.0
5	<u>Gratiot</u>	737.0
6	<u>Luce</u>	696.0
7	<u>Oscoda</u>	690.0
8	<u>Osceola</u>	689.0
9	<u>Dickinson</u>	687.0
10	<u>Ionia</u>	686.0
11	<u>Clare</u>	658.0
12	<u>Montcalm</u>	658.0
13	<u>Otsego</u>	650.0
14	<u>Oceana</u>	649.0
15	<u>Keweenaw</u>	604.0
16	<u>Chippewa</u>	593.0
17	<u>Antrim</u>	573.0
18	<u>Bay</u>	571.0
19	<u>Charlevoix</u>	550.0
20	<u>Gladwin</u>	531.0

21	<u>Emmet</u>	519.0
22	<u>Delta</u>	517.0
23	<u>Alger</u>	513.0
24	<u>Kalkaska</u>	507.0
25	<u>Marquette</u>	506.0
26	<u>Clinton</u>	504.0
27	<u>Tuscola</u>	504.0
28	<u>Hillsdale</u>	499.0
29	<u>Isabella</u>	488.0
30	<u>Newaygo</u>	487.0
31	<u>Livingston</u>	477.0
32	<u>Gogebic</u>	473.0
33	<u>Lenawee</u>	473.0
34	<u>Midland</u>	473.0
35	<u>Mecosta</u>	472.0
36	<u>Alcona</u>	455.0
37	<u>Monroe</u>	454.0
38	<u>Iron</u>	433.0
39	<u>St. Joseph</u>	432.0
40	<u>Mason</u>	430.0

41	<u>Cheboygan</u>	426.0
42	<u>Iosco</u>	419.0
43	<u>Lapeer</u>	418.0
45	<u>Arenac</u>	405.0
46	<u>Montmorency</u>	401.0
47	<u>Wexford</u>	397.0
48	<u>Calhoun</u>	396.0
49	<u>Van Buren</u>	385.0
50	<u>Shiawassee</u>	380.0
51	<u>Eaton</u>	369.0
52	<u>Houghton</u>	346.0
53	<u>Muskegon</u>	346.0
54	<u>Saginaw</u>	342.0
55	<u>Allegan</u>	328.0
56	<u>Sanilac</u>	328.0
57	<u>Barry</u>	319.0
58	<u>Cass</u>	319.0
59	<u>Grand Traverse</u>	319.0
60	<u>St. Clair</u>	316.0

61	<u>Kent</u>	315.0
62	<u>Michigan</u>	312.0
63	<u>Genesee</u>	310.0
64	<u>Benzie</u>	309.0
65	<u>Lake</u>	304.0
66	<u>Ottawa</u>	303.0
67	<u>Roscommon</u>	299.0
68	<u>Branch</u>	298.0
69	<u>Missaukee</u>	295.0
70	<u>Baraga</u>	285.0
71	<u>Leelanau</u>	277.0
72	<u>Macomb</u>	274.0
73	<u>Jackson</u>	272.0
74	<u>Kalamazoo</u>	264.0
75	<u>Presque Isle</u>	257.0
76	<u>Huron</u>	245.0
77	<u>Alpena</u>	240.0
78	<u>Ontonagon</u>	239.0
79	<u>Ingham</u>	229.0
80	<u>Berrien</u>	219.0

81	<u>Oakland</u>	219.0
82	<u>Washtenaw</u>	217.0
83	<u>Manistee</u>	216.0
84	<u>Wayne</u>	202.0
85	<u>Crawford</u>	196.0

<https://www.mistartmap.info/compare/geographic-area>



	AREA	AT LEAST ONE DOSE (OCT 11)	FULLY VACCINATED (OCT 11)
1	<u>Cass</u>	36.0%	33.0%
2	<u>Hillsdale</u>	37.0%	34.0%
3	<u>Detroit City</u>	39.0%	32.0%
4	<u>Branch</u>	41.0%	38.0%
5	<u>Mecosta</u>	41.0%	38.0%
6	<u>Montcalm</u>	41.0%	39.0%
7	<u>Osceola</u>	41.0%	38.0%
8	<u>Luce</u>	42.0%	39.0%
9	<u>Oscoda</u>	42.0%	39.0%
10	<u>Sanilac</u>	42.0%	39.0%
11	<u>St. Joseph</u>	42.0%	39.0%
12	<u>Gratiot</u>	43.0%	40.0%
13	<u>Isabella</u>	43.0%	40.0%
14	<u>Monroe</u>	43.0%	40.0%
15	<u>Newaygo</u>	44.0%	41.0%
16	<u>Ogemaw</u>	44.0%	41.0%
17	<u>Tuscola</u>	44.0%	41.0%
18	<u>Baraga</u>	45.0%	43.0%
19	<u>Clare</u>	45.0%	42.0%
20	<u>Lapeer</u>	45.0%	42.0%

21	<u>Ionia</u>	46.0%	43.0%
22	<u>Menominee</u>	46.0%	42.0%
23	<u>Missaukee</u>	46.0%	43.0%
24	<u>Calhoun</u>	47.0%	44.0%
25	<u>Houghton</u>	47.0%	44.0%
26	<u>Kalkaska</u>	47.0%	44.0%
27	<u>Lenawee</u>	47.0%	44.0%
28	<u>Barry</u>	48.0%	46.0%
29	<u>Genesee</u>	48.0%	44.0%
30	<u>Gladwin</u>	48.0%	44.0%
31	<u>Gogebic</u>	48.0%	46.0%
32	<u>St. Clair</u>	48.0%	45.0%
33	<u>Dickinson</u>	49.0%	46.0%
34	<u>Iron</u>	49.0%	47.0%
35	<u>Arenac</u>	50.0%	46.0%
36	<u>Berrien</u>	50.0%	47.0%
37	<u>Huron</u>	50.0%	48.0%
38	<u>Jackson</u>	50.0%	47.0%
39	<u>Saginaw</u>	50.0%	47.0%
40	<u>Shiawassee</u>	50.0%	46.0%

41	<u>Wexford</u>	50.0%	47.0%
42	<u>Allegan</u>	51.0%	48.0%
43	<u>Chippewa</u>	51.0%	47.0%
45	<u>Delta</u>	51.0%	48.0%
46	<u>Alpena</u>	52.0%	50.0%
47	<u>Cheboygan</u>	52.0%	49.0%
48	<u>Muskegon</u>	52.0%	49.0%
49	<u>Otsego</u>	52.0%	49.0%
50	<u>Crawford</u>	53.0%	50.0%
51	<u>Oceana</u>	53.0%	50.0%
52	<u>Michigan</u>	54.0%	50.0%
53	<u>Bay</u>	54.0%	50.0%
54	<u>Iosco</u>	54.0%	51.0%
55	<u>Montmorency</u>	54.0%	51.0%
56	<u>Roscommon</u>	54.0%	50.0%
57	<u>Schoolcraft</u>	54.0%	52.0%
58	<u>Van Buren</u>	54.0%	50.0%
59	<u>Alger</u>	55.0%	52.0%
60	<u>Eaton</u>	55.0%	52.0%

61	<u>Lake</u>	55.0%	53.0%
62	<u>Macomb</u>	55.0%	51.0%
63	<u>Ingham</u>	56.0%	52.0%
64	<u>Keweenaw</u>	56.0%	52.0%
65	<u>Ontonagon</u>	56.0%	54.0%
66	<u>Ottawa</u>	56.0%	53.0%
67	<u>Alcona</u>	57.0%	54.0%
68	<u>Midland</u>	57.0%	53.0%
69	<u>Antrim</u>	58.0%	55.0%
70	<u>Clinton</u>	58.0%	55.0%
71	<u>Livingston</u>	58.0%	54.0%
72	<u>Manistee</u>	58.0%	55.0%
73	<u>Mason</u>	58.0%	55.0%
74	<u>Presque Isle</u>	58.0%	55.0%
75	<u>Kent</u>	59.0%	56.0%
76	<u>Marquette</u>	59.0%	56.0%
77	<u>Charlevoix</u>	60.0%	56.0%
78	<u>Kalamazoo</u>	60.0%	56.0%
79	<u>Wayne</u>	61.0%	56.0%
80	<u>Benzie</u>	63.0%	59.0%

81	<u>Mackinac</u>	64.0%	59.0%
82	<u>Grand Traverse</u>	65.0%	61.0%
83	<u>Oakland</u>	65.0%	60.0%
84	<u>Washtenaw</u>	65.0%	61.0%
85	<u>Emmet</u>	66.0%	62.0%
86	<u>Leelanau</u>	71.0%	67.0%

COVID-19 Pediatric Hospitalizations 10/6/2021

Updated Monday, Wednesday & Friday

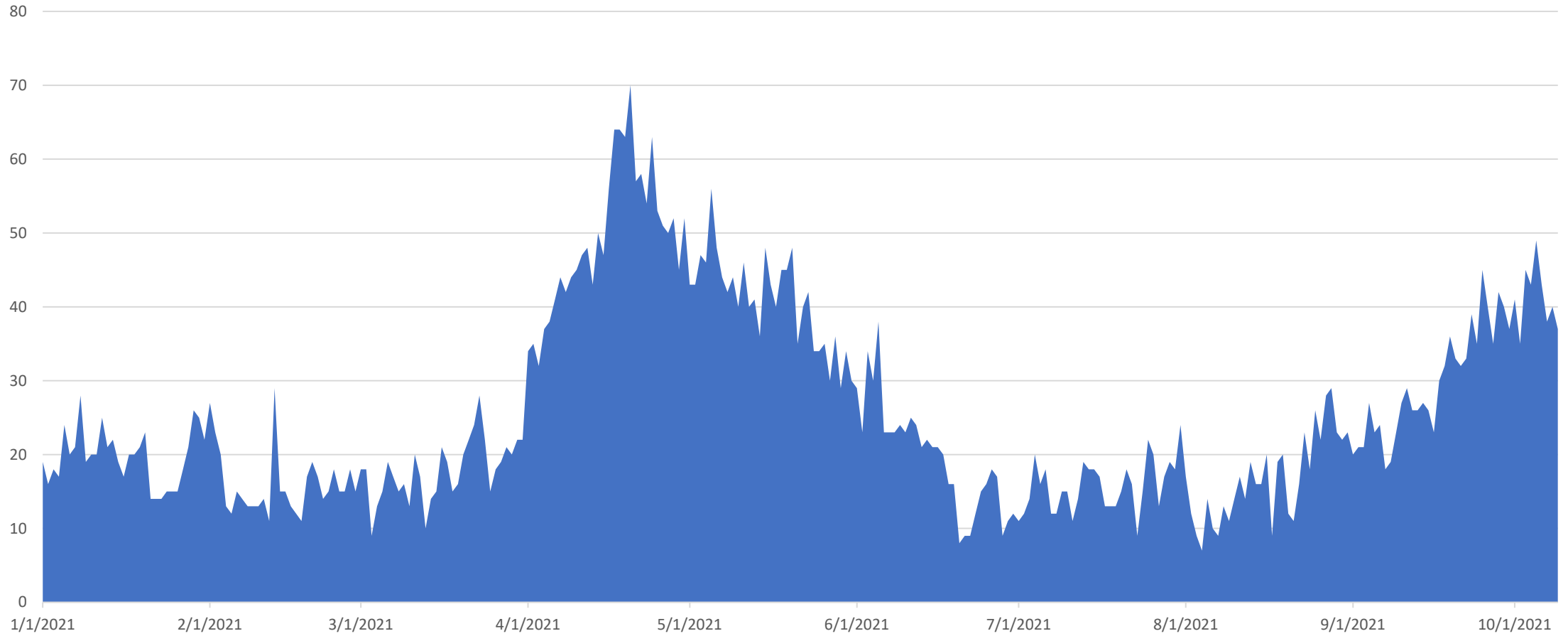
HCC Region	Region 1	Region 3	Region 6	Region 7
Hospitalized Peds Confirmed/Suspected	3 (was 7)	4 (was 2)	6 (was 11)	1 (was 1)
Hospitalized Ped Confirmed-Positive	3 (was 5)	4 (was 2)	6 (was 9)	1 (was 1)



Still working to find county by county data that is more reliable...

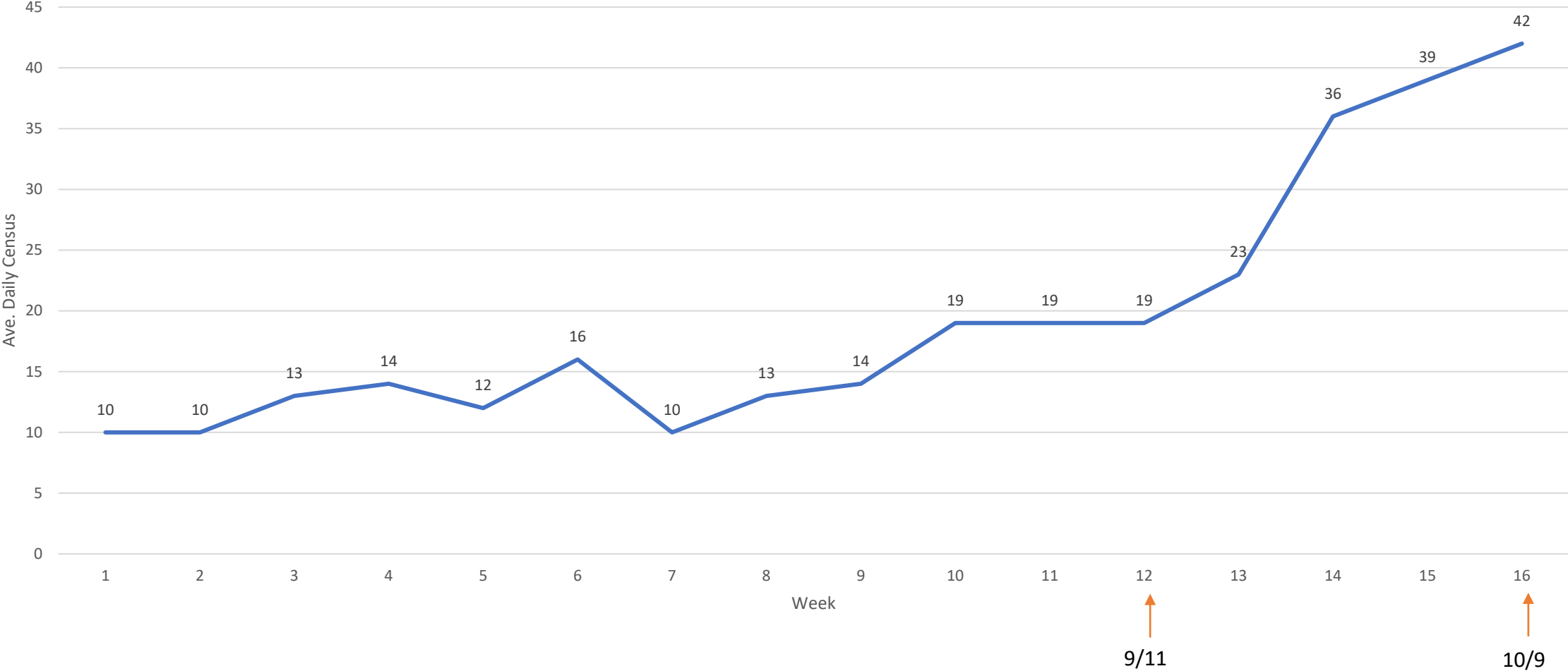
<https://www.michigan.gov/coronavirus/0,9753,7-406-98159-523641--,00.html>

Pediatric COVID-19* Daily Inpatient Census Year to Date – 1/1/21-10/9/21



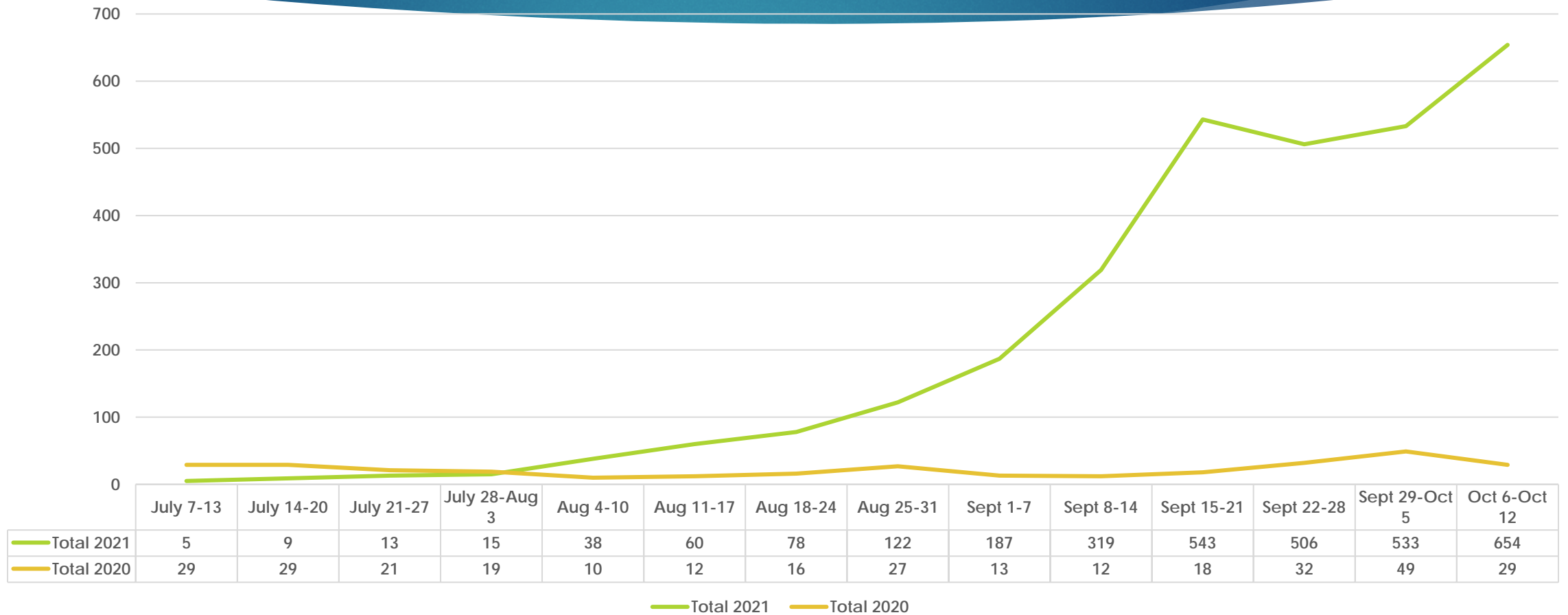
*Suspected or confirmed
Source: Michigan Health and Hospital Association

Pediatric COVID 7-Day Average Inpatient Census Last 16 Weeks– 6/20/21-10/9/21



Source: Michigan Health and Hospital Association

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

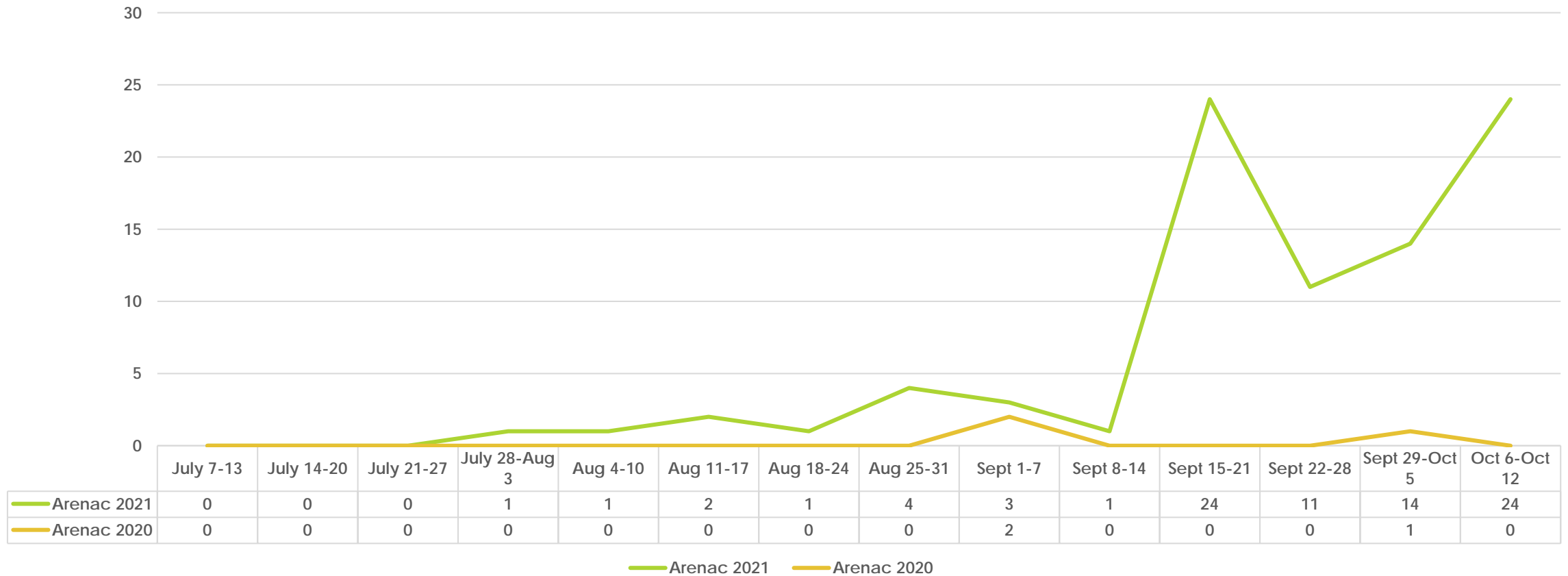
NOTE: The values on the vertical (y) axis are different for each county due to different numbers of cases

— IS 2021

— IS 2020

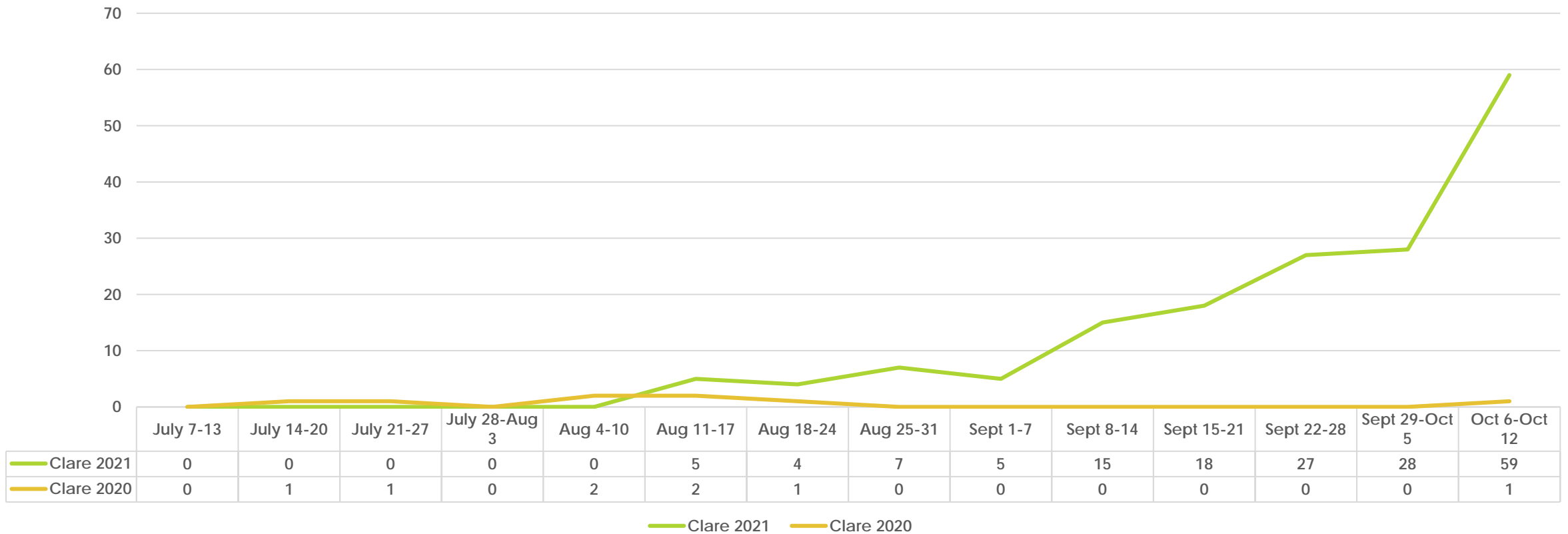
COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Arenac



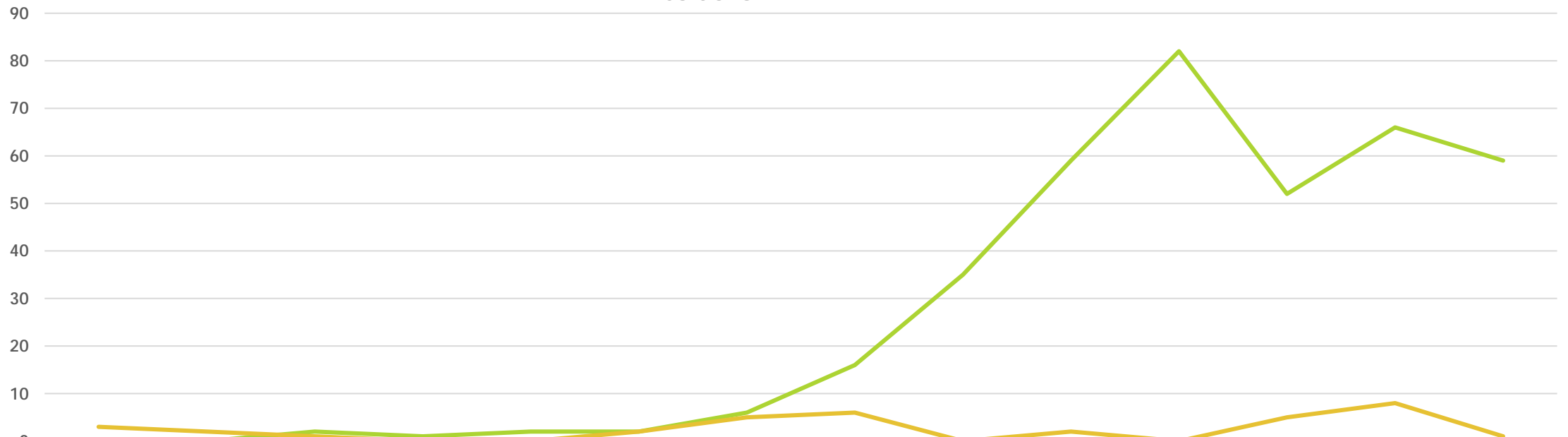
COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Clare



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

Isabella

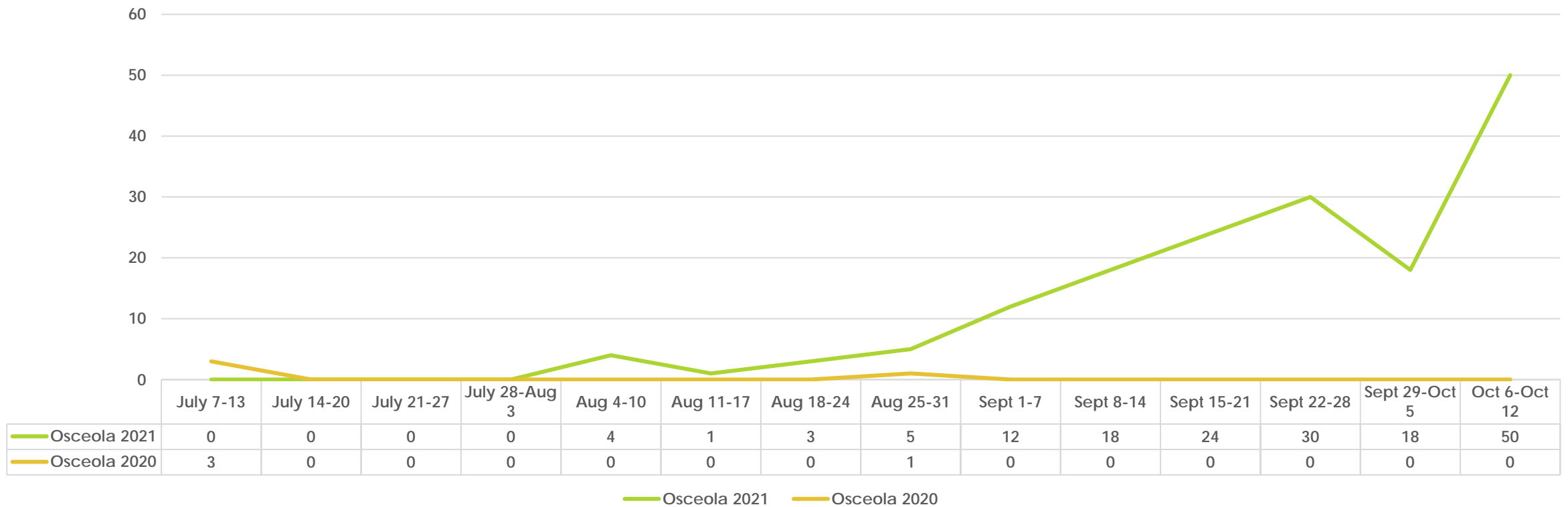


	July 7-13	July 14-20	July 21-27	July 28-Aug 3	Aug 4-10	Aug 11-17	Aug 18-24	Aug 25-31	Sept 1-7	Sept 8-14	Sept 15-21	Sept 22-28	Sept 29-Oct 5	Oct 6-Oct 12
Isabella 2021	0	0	2	1	2	2	6	16	35	59	82	52	66	59
Isabella 2020	3	2	1	0	0	2	5	6	0	2	0	5	8	1

— Isabella 2021 — Isabella 2020

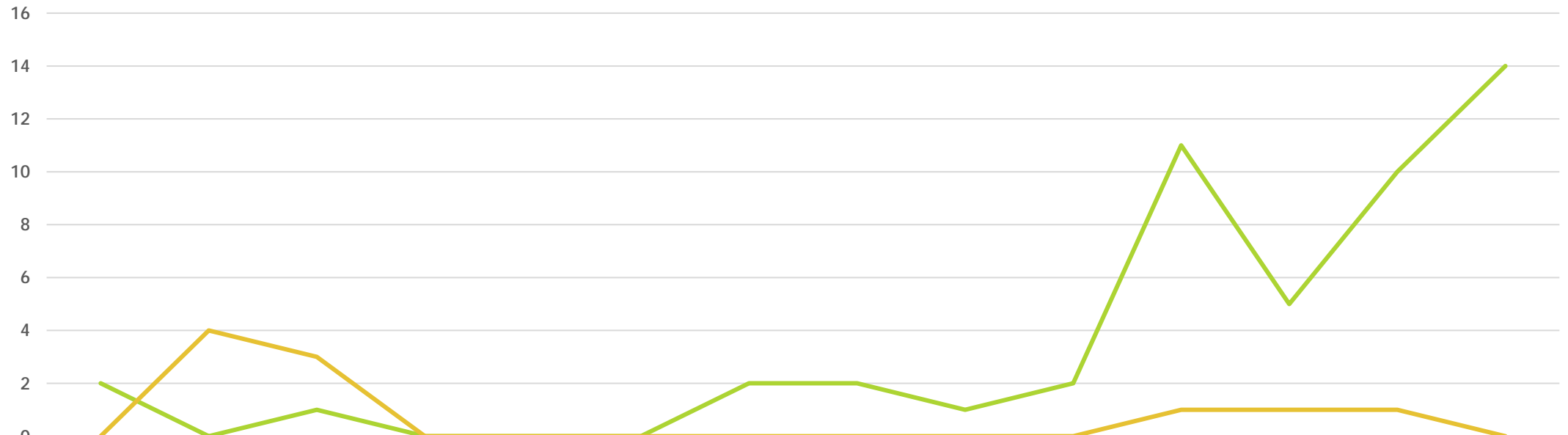
COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Osceola



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

Roscommon

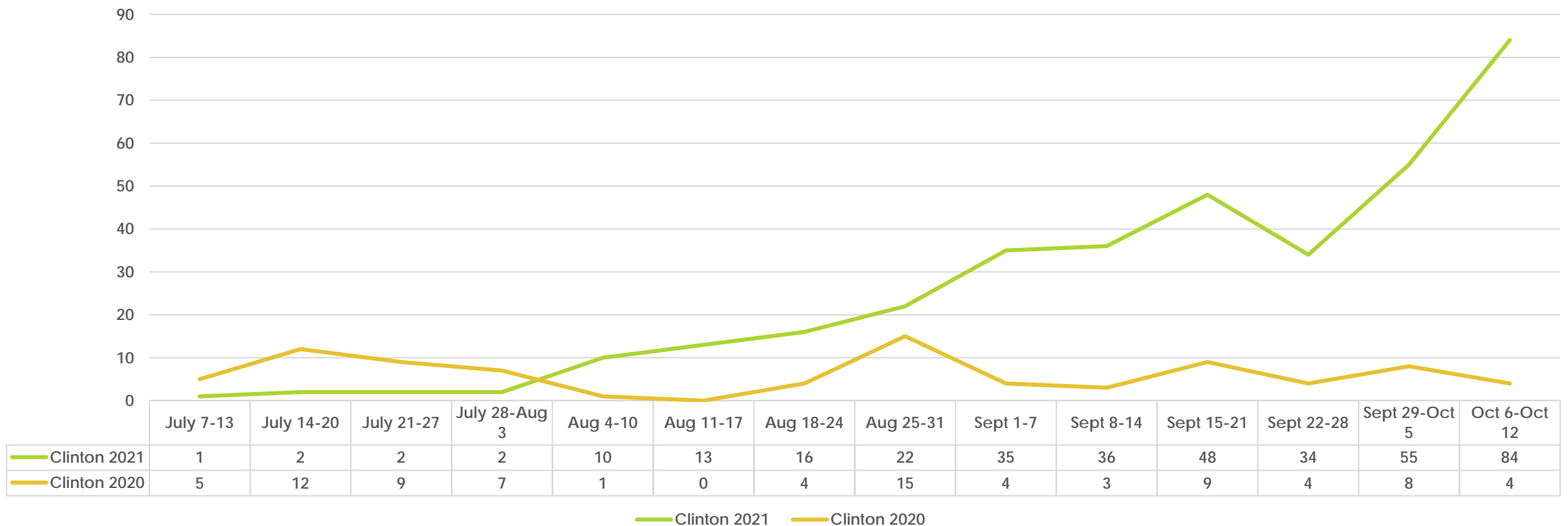


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Roscommon 2021	2	0	1	0	0	0	2	2	1	2	11	5	10	14
Roscommon 2020	0	4	3	0	0	0	0	0	0	0	1	1	1	0

— Roscommon 2021 — Roscommon 2020

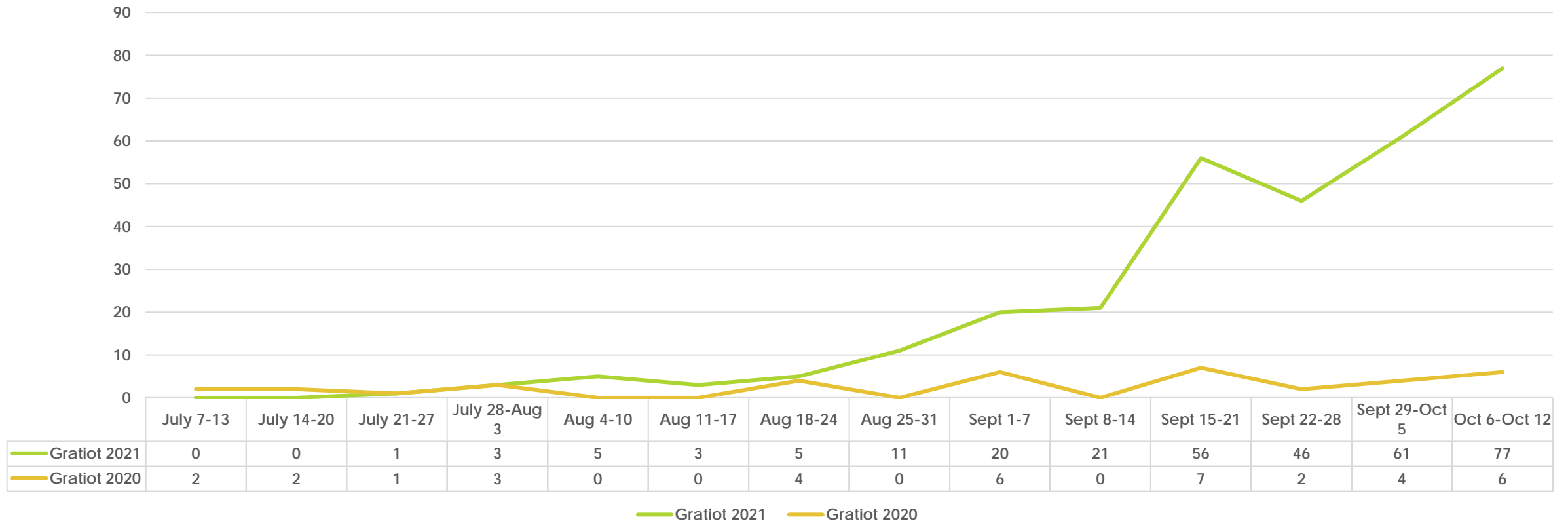
COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Clinton



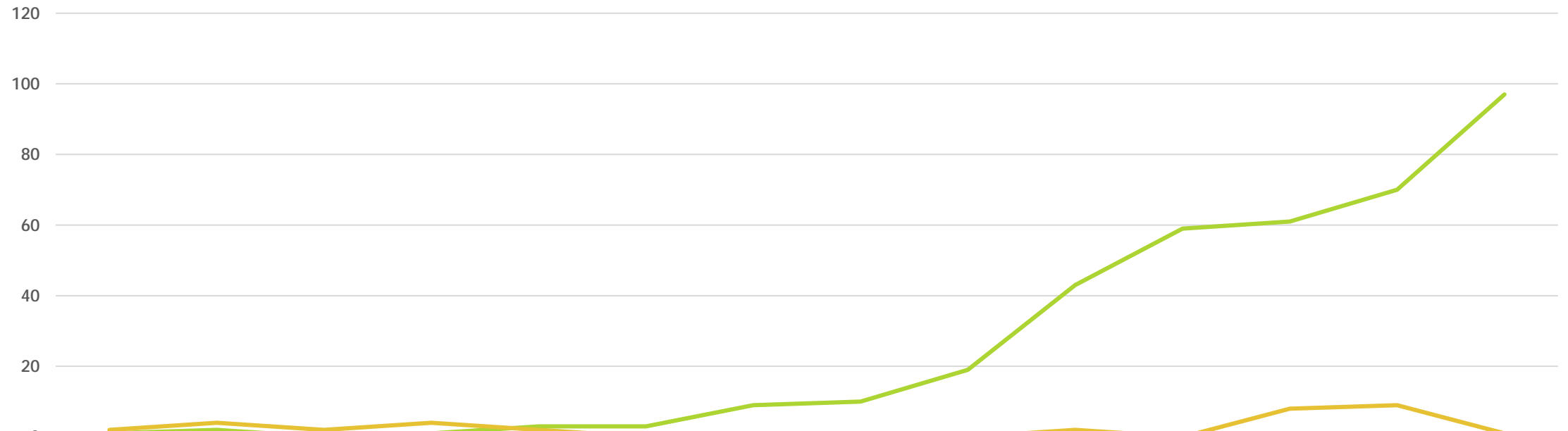
COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Gratiot



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

Montcalm

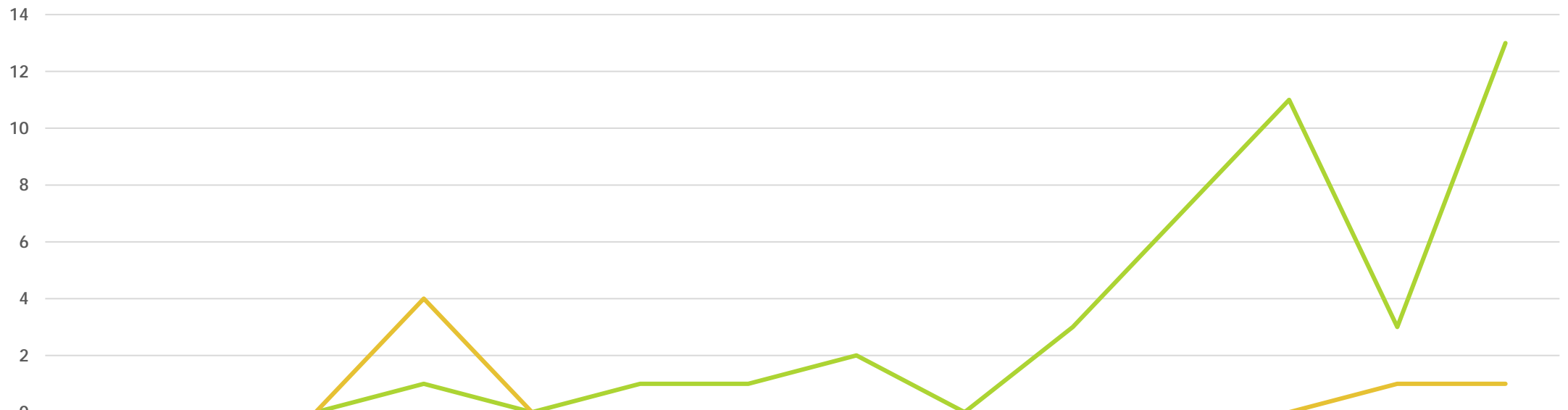


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Montcalm 2021	1	2	0	1	3	3	9	10	19	43	59	61	70	97
Montcalm 2020	2	4	2	4	2	0	0	1	0	2	0	8	9	1

Montcalm 2021 Montcalm 2020

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

Crawford

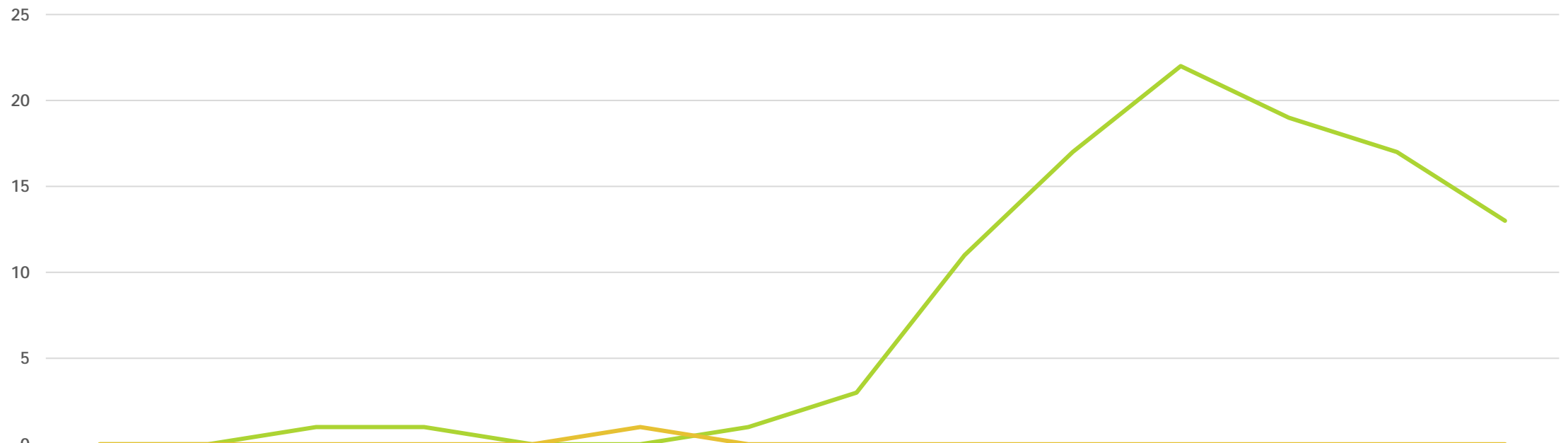


	July 7-13	July 14-20	July 21-27	July 28-Aug 3	Aug 4-10	Aug 11-17	Aug 18-24	Aug 25-31	Sept 1-7	Sept 8-14	Sept 15-21	Sept 22-28	Sept 29-Oct 5	Oct 6-Oct 12
Crawford 2021	0	0	0	1	0	1	1	2	0	3	7	11	3	13
Crawford 2020	0	0	0	4	0	0	0	0	0	0	0	0	1	1

— Crawford 2021 — Crawford 2020

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

Kalkaska

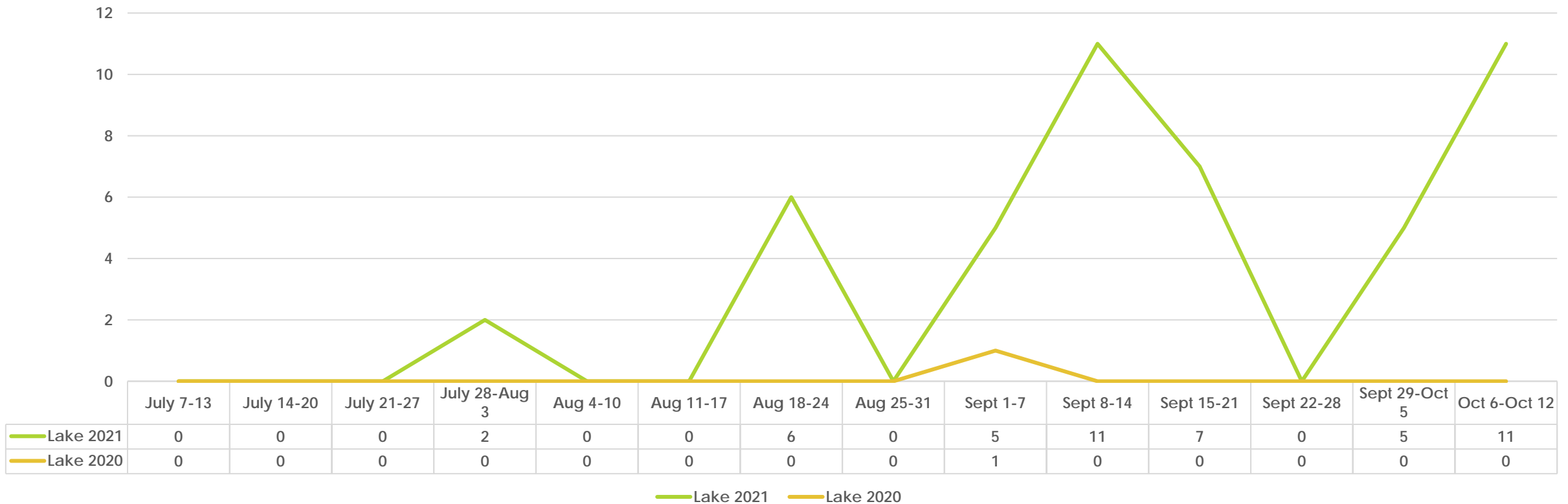


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Kalkaska 2021	0	0	1	1	0	0	1	3	11	17	22	19	17	13
Kalkaska 2020	0	0	0	0	0	1	0	0	0	0	0	0	0	0

— Kalkaska 2021 — Kalkaska 2020

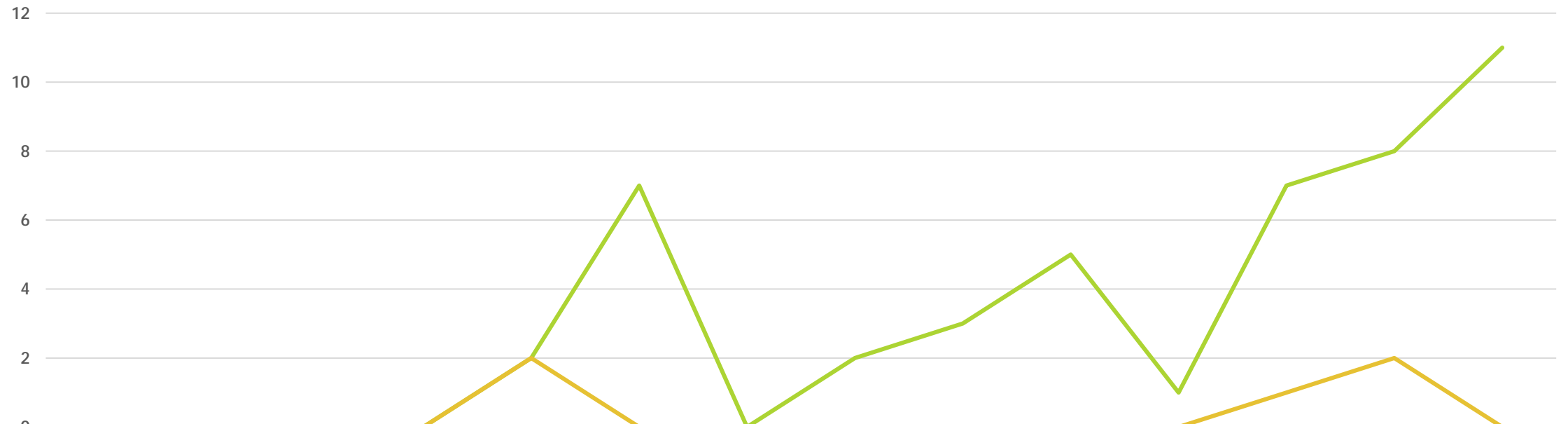
COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Lake



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

Manistee

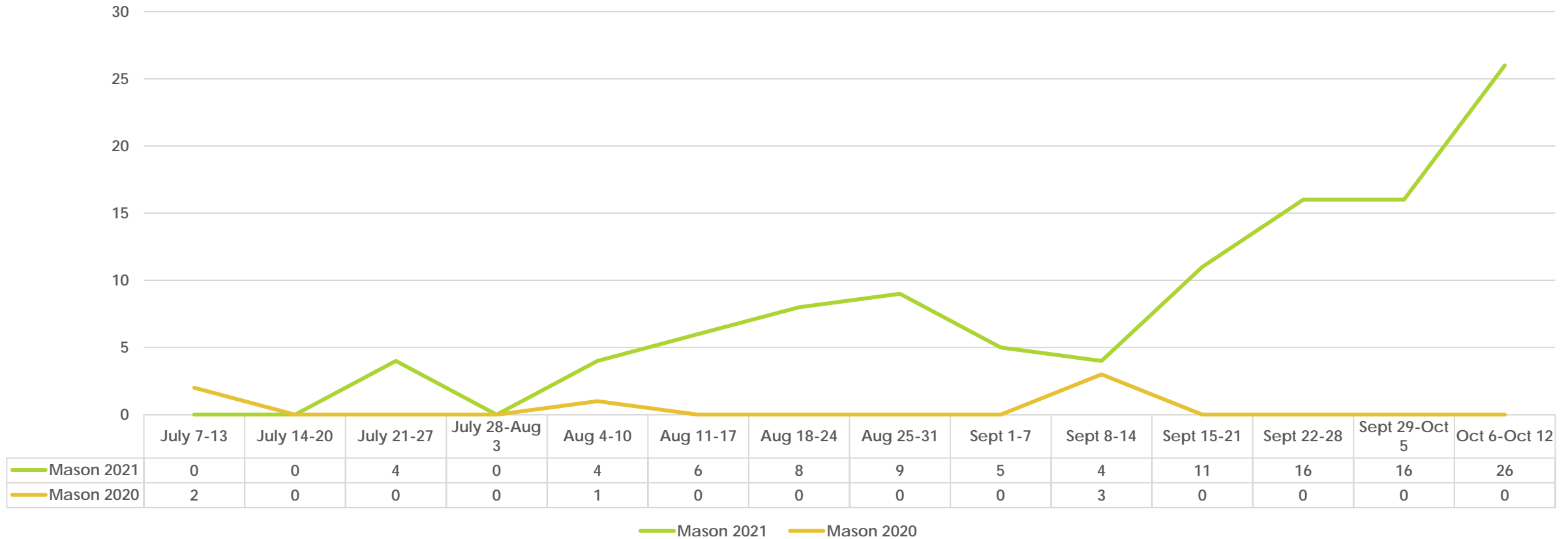


	July 7-13	July 14-20	July 21-27	July 28-Aug 3	Aug 4-10	Aug 11-17	Aug 18-24	Aug 25-31	Sept 1-7	Sept 8-14	Sept 15-21	Sept 22-28	Sept 29-Oct 5	Oct 6-Oct 12
Manistee 2021	0	0	0	0	2	7	0	2	3	5	1	7	8	11
Manistee 2020	0	0	0	0	2	0	0	0	0	0	0	1	2	0

Manistee 2021 Manistee 2020

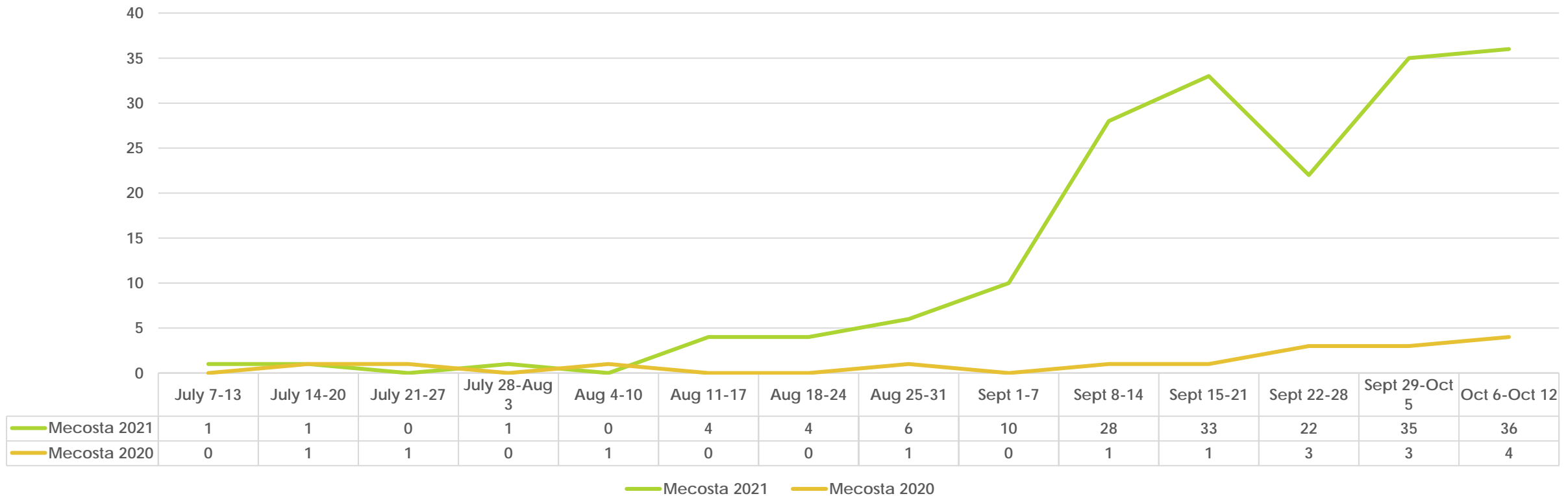
COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Mason



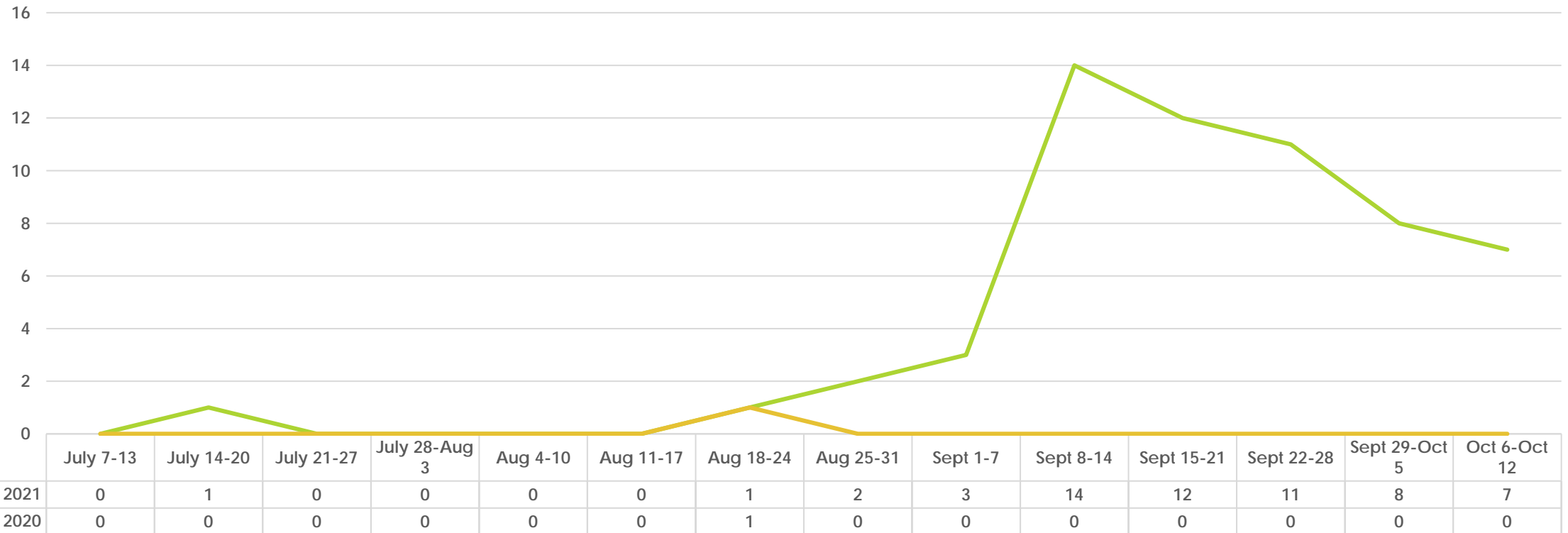
COVID Cases 5-18 yrs. of age, weekly 2020 compared to 2021

Mecosta



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

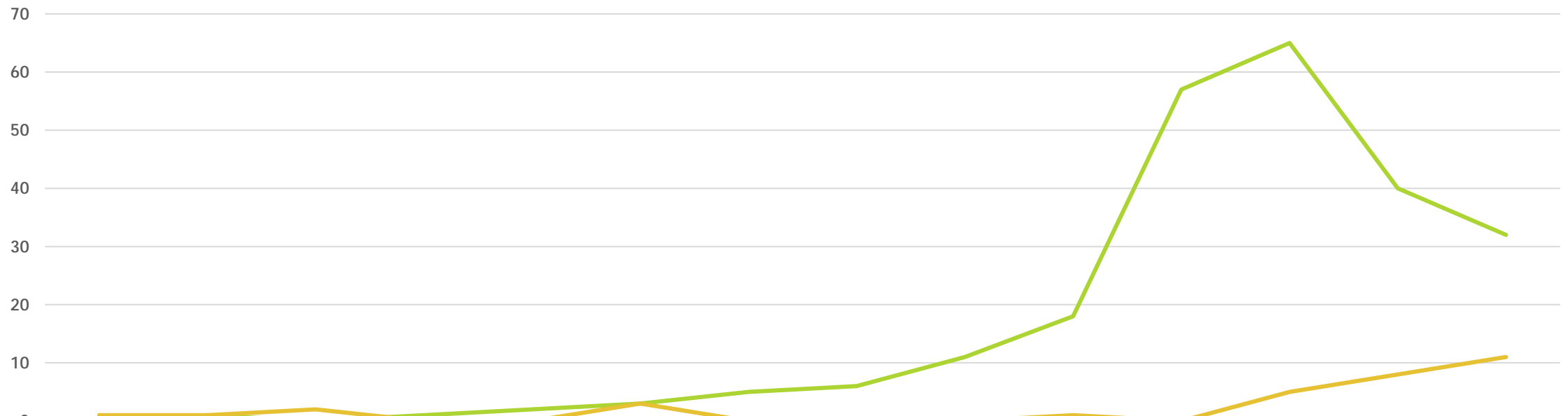
Missaukee



Missaukee 2021 Missaukee 2020

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

Newaygo

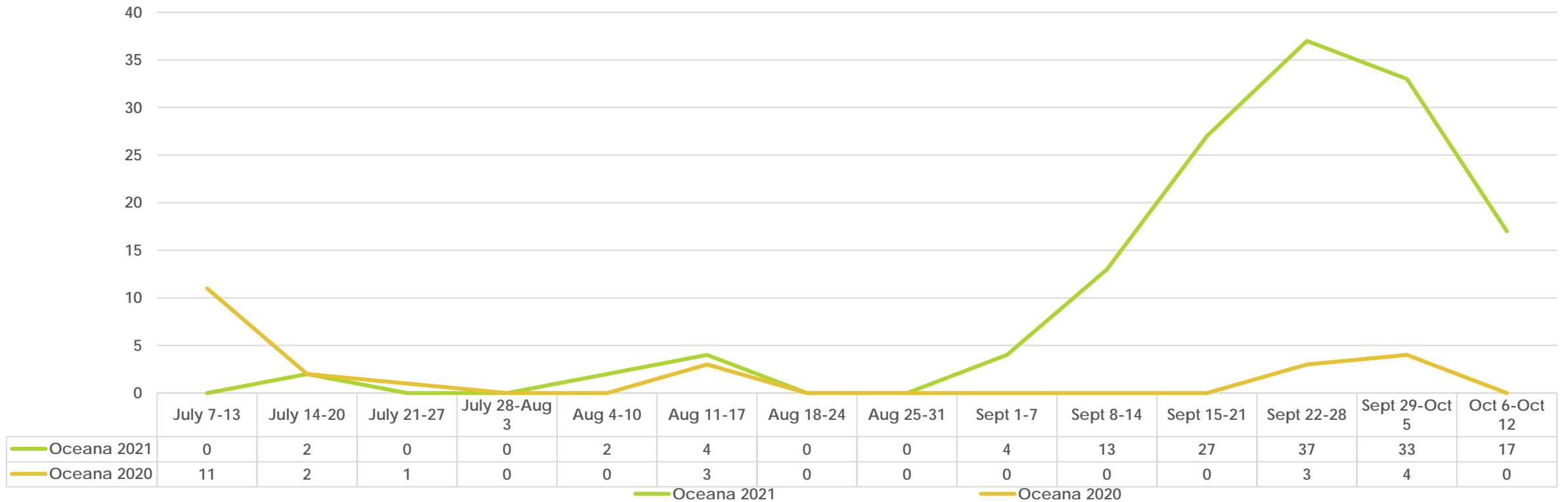


	July 7-13	July 14-20	July 21-27	July 28-Aug 3	Aug 4-10	Aug 11-17	Aug 18-24	Aug 25-31	Sept 1-7	Sept 8-14	Sept 15-21	Sept 22-28	Sept 29-Oct 5	Oct 6-Oct 12
Newaygo 2021	0	1	0	1	2	3	5	6	11	18	57	65	40	32
Newaygo 2020	1	1	2	0	0	3	0	0	0	1	0	5	8	11

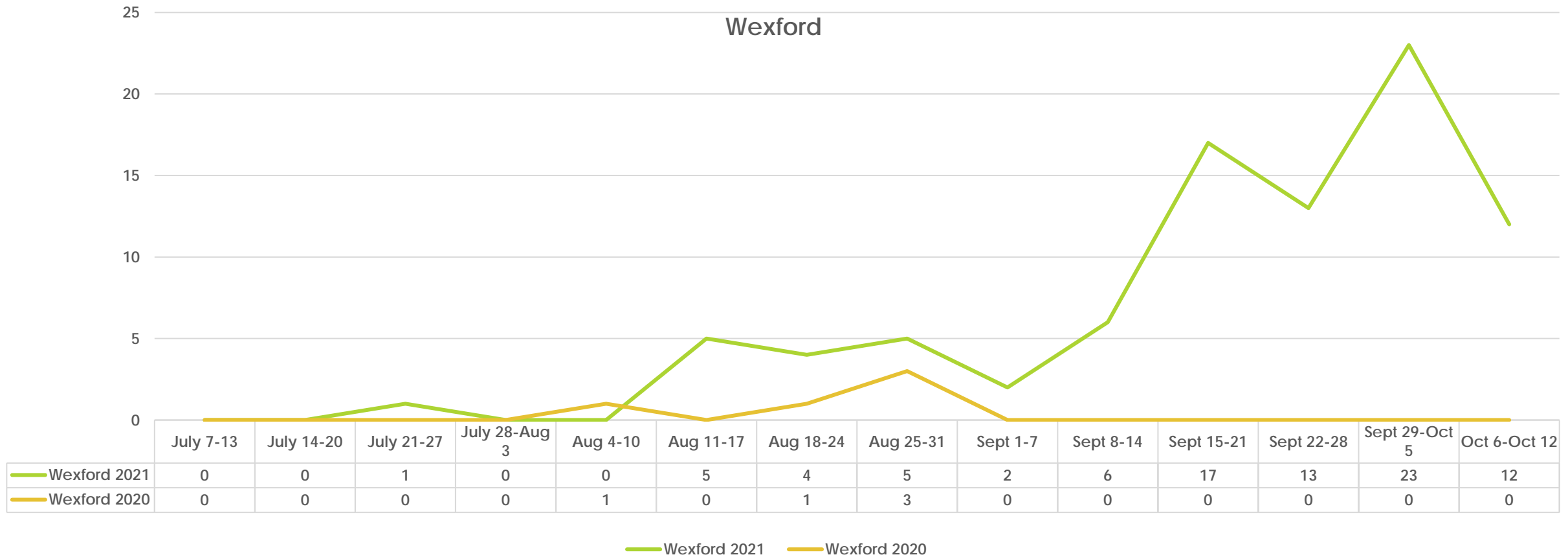
— Newaygo 2021 — Newaygo 2020

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

Oceana



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





MI COVID Response Data and Modeling Update-October 12, 2021

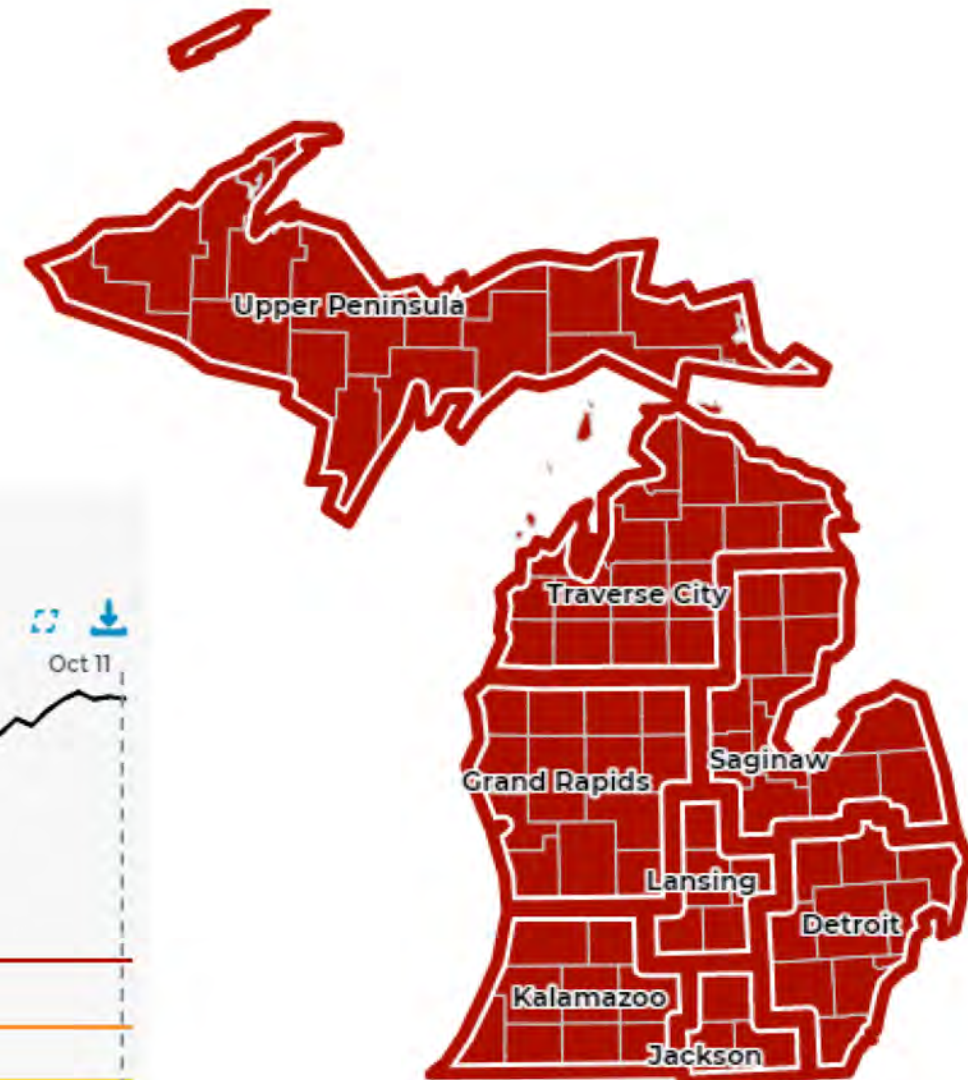
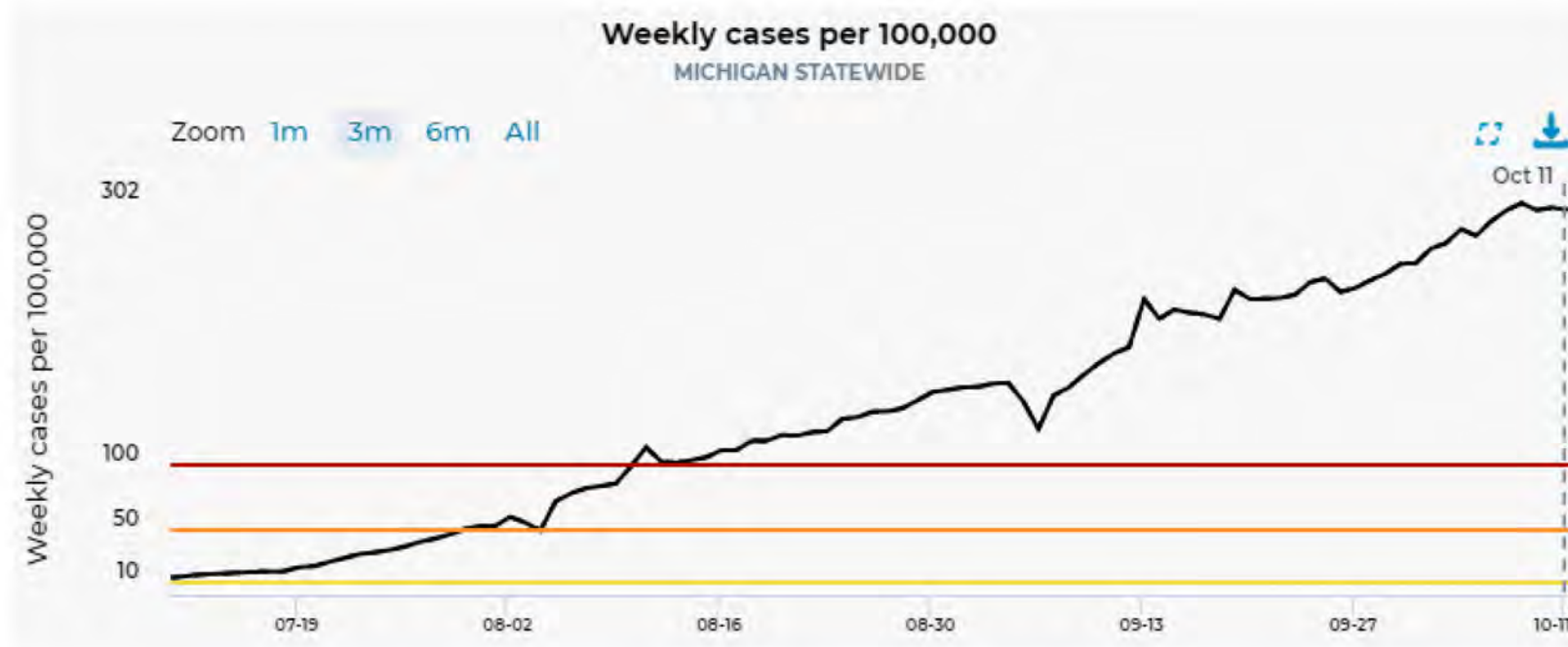
https://www.michigan.gov/coronavirus/0,9753,7-406-98163_98173_105123---,00.html

Overview of Michigan

- ▶ Statewide positivity increased 11.2% (last week: 10.3%)
 - ▶ This is a 9% increase in the past week (prior week: 17% increase)
- ▶ Case rate has increased to 304.4 cases/million (last week: 258.9 cases/million)
 - ▶ Increasing for three and a half months (June 26 low)
 - ▶ 10-19-years-olds are experiencing the greatest case burden (596 daily cases; 474.8 cases/mil)
- ▶ Michigan is at High Transmission level
 - ▶ All counties in Michigan are at high transmission level
 - ▶ CDC recommends all individuals, regardless of vaccination status, should mask indoors
- ▶ Number of active outbreaks is up 6% from last week
 - ▶ 161 new outbreaks were identified in the past week
 - ▶ K-12 reported the most total outbreaks (312) and new outbreaks (81) this week

Michigan at High Transmission Level

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

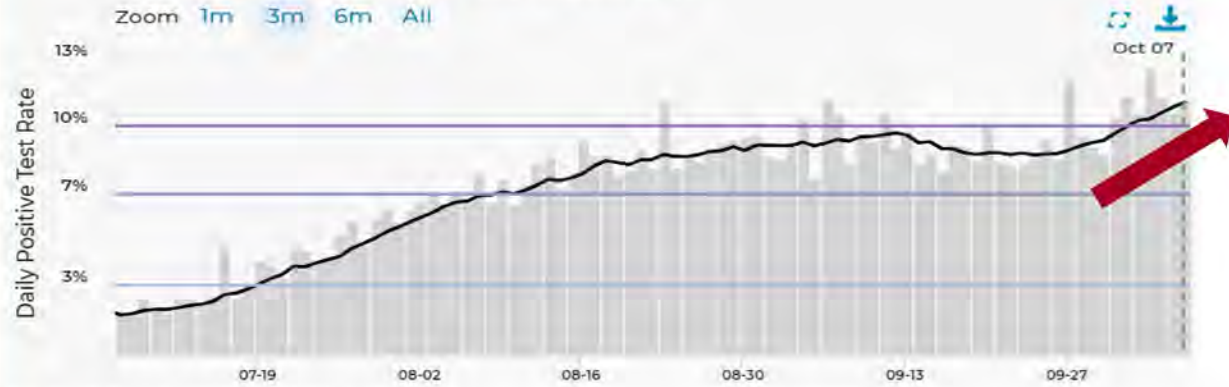


Time Trends – Positivity, Case Rates, Hospitalizations, Deaths

➤ COVID-19 transmission remains high and early indicators show Delta surge may be speeding up again

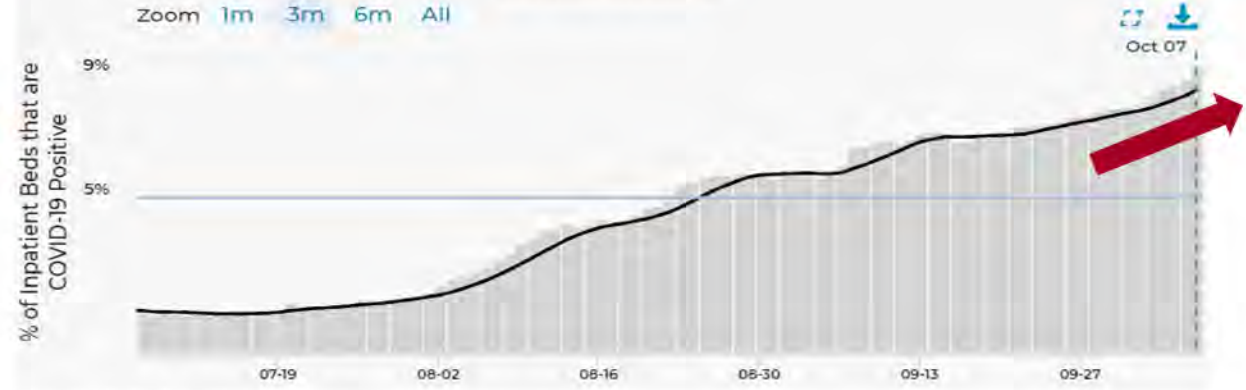
Daily Positive Test Rate

Daily Positive Test Rate
MICHIGAN STATEWIDE



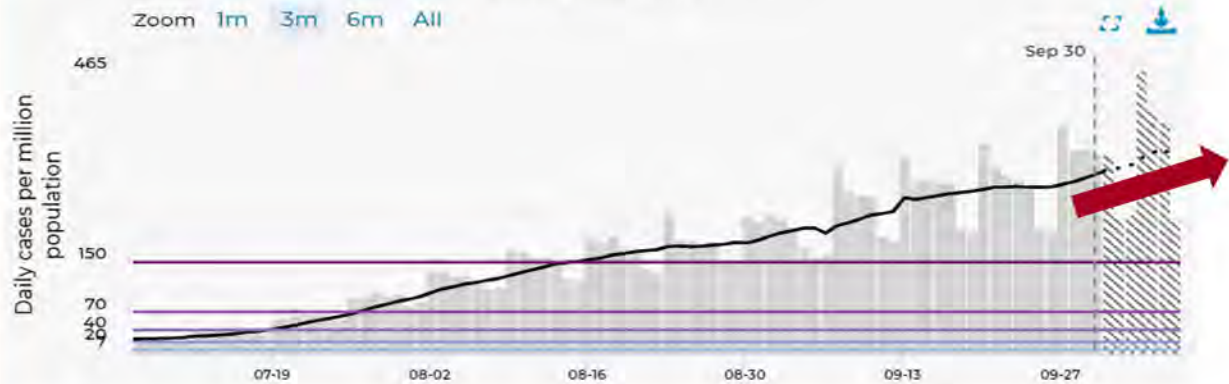
Daily Inpatient Beds Occupied by COVID patients

% of Inpatient Beds that are COVID-19 Positive
MICHIGAN STATEWIDE



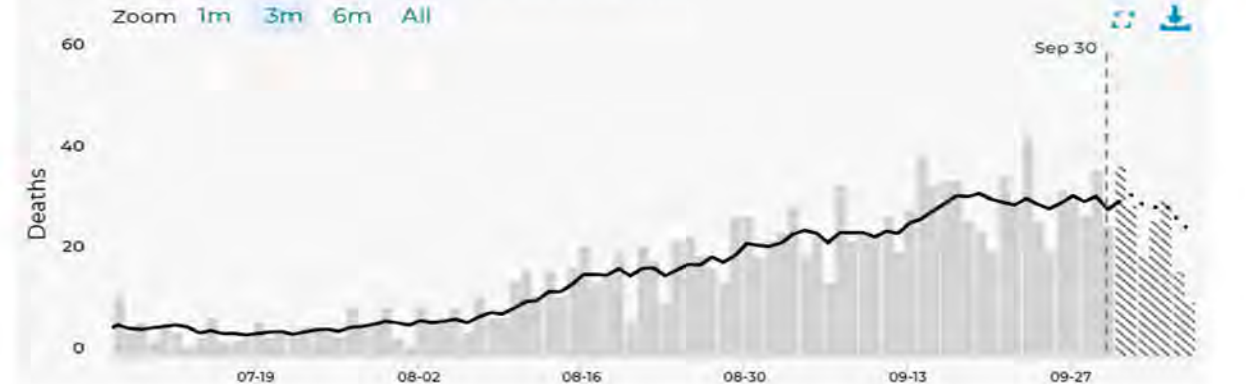
Daily Case Rate

Daily cases per million population
MICHIGAN STATEWIDE



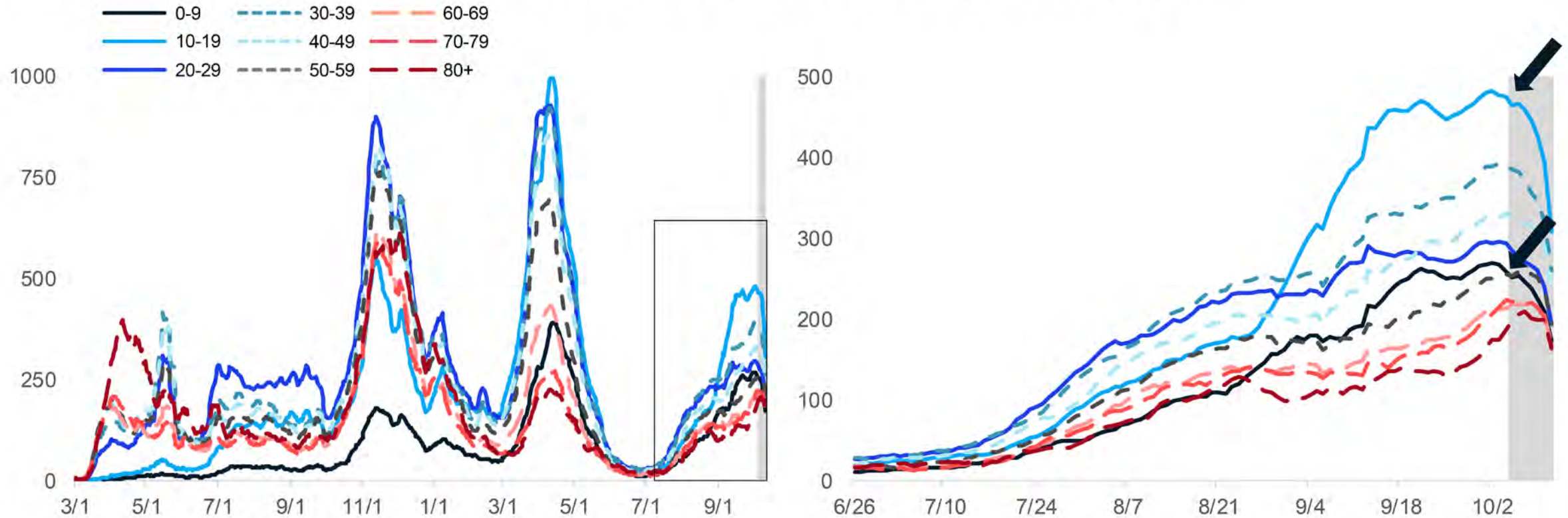
Daily Deaths

Deaths
MICHIGAN STATEWIDE



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 all age groups are plateaued or increasing
- Case rates for all age groups are between 187 and 475 cases per million (through 10/4)
- Case rates are highest for **10-19-year-olds** followed by 30-39, 40-49, 20-29, and **0-9**

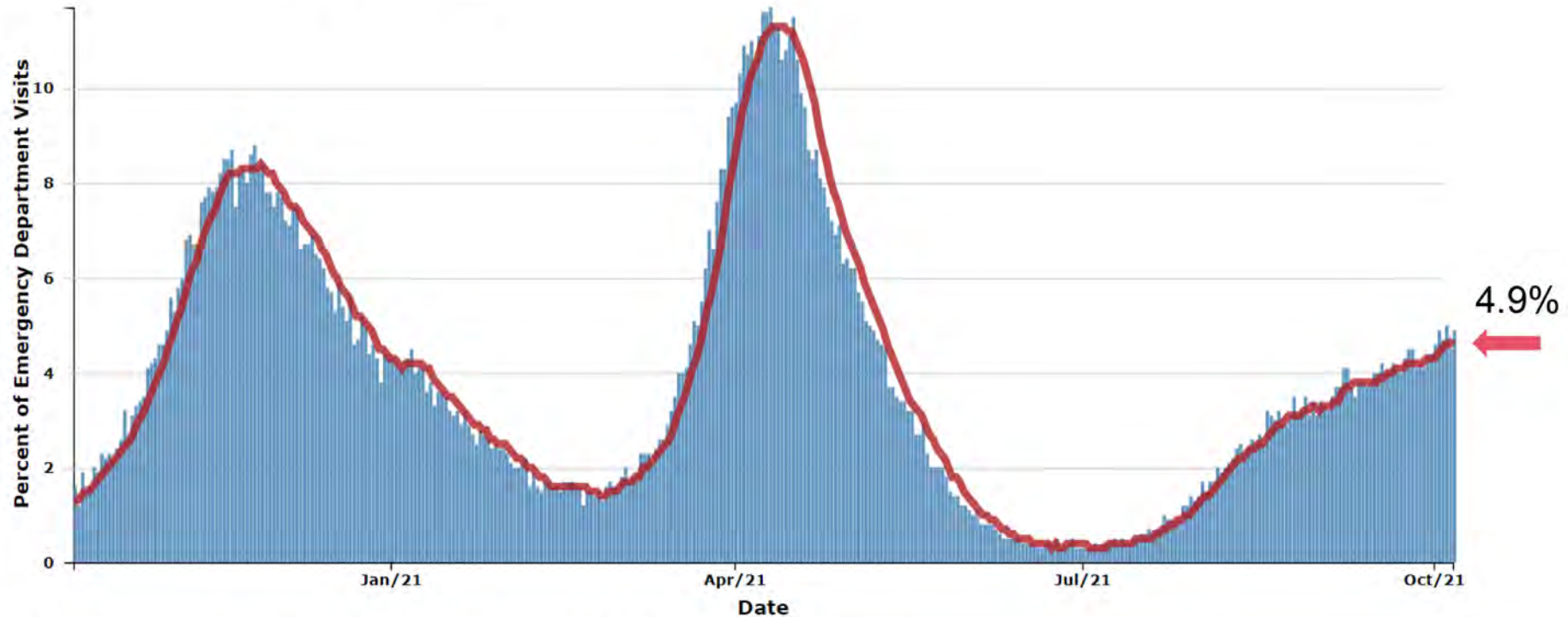
Note: Case information sourced from MDHHS and reflects date of onset of symptoms
Source: MDHHS – Michigan Disease Surveillance System

Pediatric Data – US, as of October 7, 2021 (from AAP/CHA)

- ▶ To date, children represented 16.3% of all COVID-19 cases in the US (16.2 % last week)
- ▶ From 9/30/21-10/7/21 children represented **24.8%** of all cases in the US (26.7% last week)
- ▶ Over two weeks, 9/23/21-10/7/21, there was a 6% increase in the cumulated number of child COVID 19 cases (7% from 9/16/21 to 9/30/21)
- ▶ Among states reporting, children made up between 11.6% to 22.2% of total cumulated state tests (11.5 to 22.1% last week), and between 5.1% to 18.2% of children tested were tested positive (5.1% to 18.1% last week)
- ▶ Among states reporting, children ranged from 1.6% to 4.2% of their total cumulated hospitalizations (same as last week), and 0.1% to 2% of all their child COVID-19 cases resulted in hospitalization (0.1% to 1.9% last week)

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

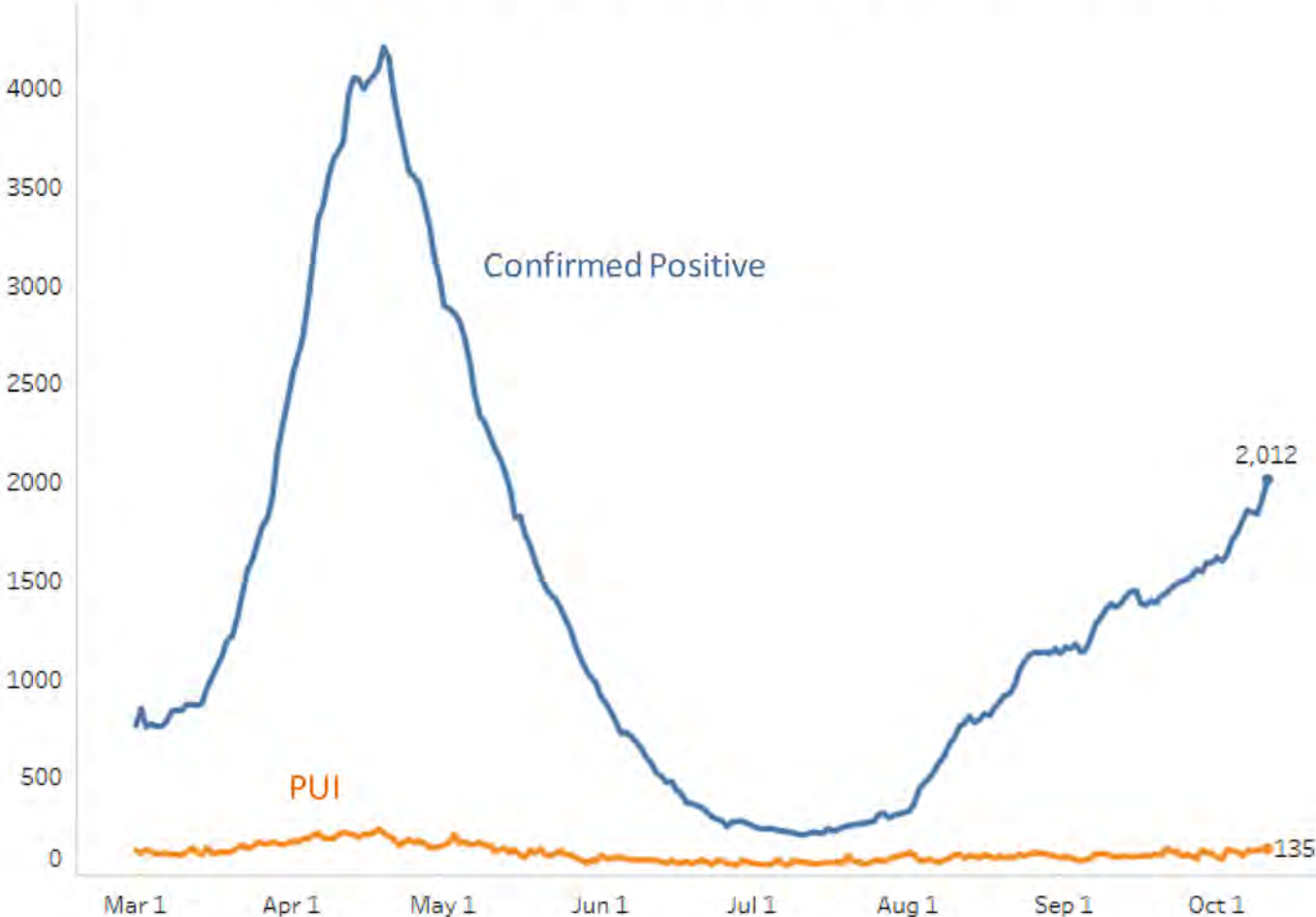
Percentage of Emergency Department visits with Diagnosed COVID-19 in Michigan, All Ages



- Trends for ED visits have increased to 4.9% since last week (4.1% week prior)
- Trends vary by age groups with most age groups seeing an increase
- Over past week, those 40-49 years saw highest number of avg. daily ED CLI visits (6.8%), but those between 40 and 74 all above state average

Statewide Hospitalization Trends: Total COVID+ Census

Hospitalization Trends 3/1/2021 – 10/11/2021
Confirmed Positive & Persons Under Investigation (PUI)



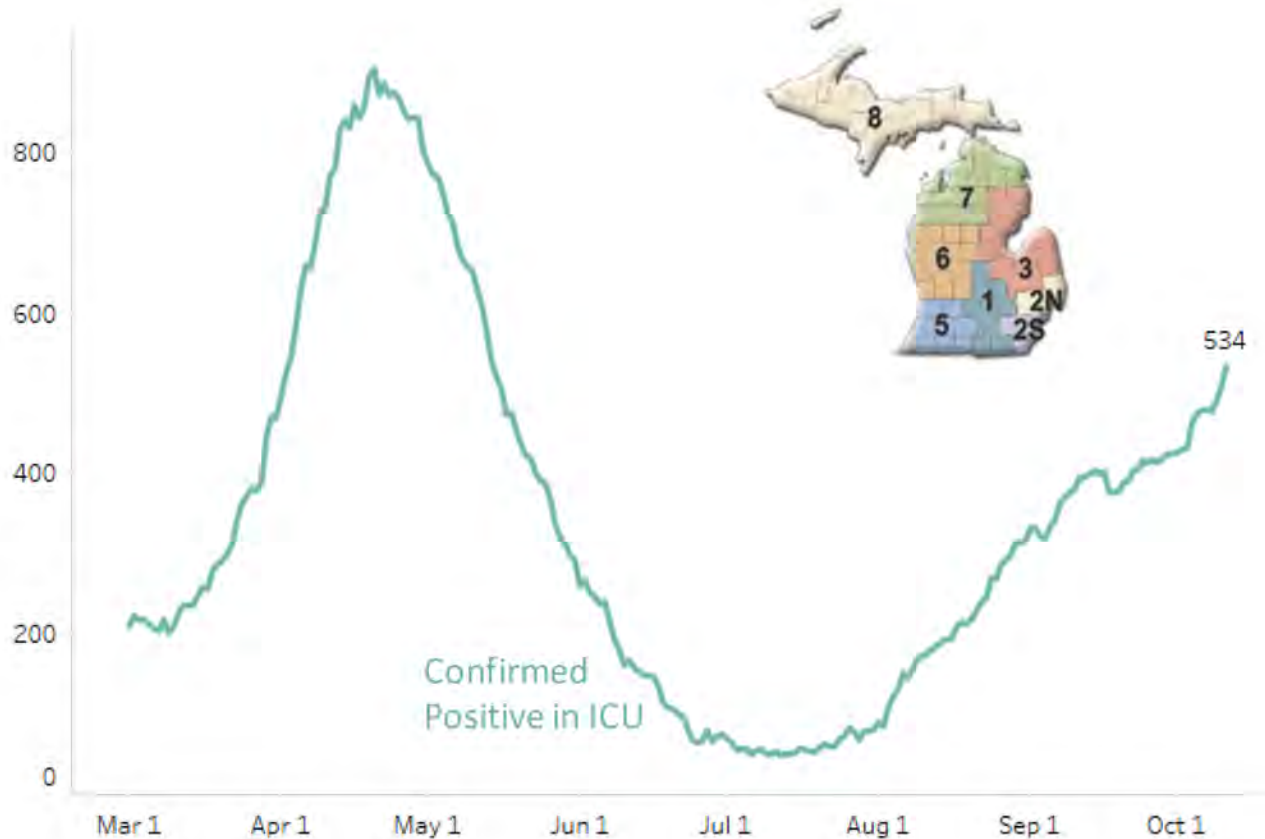
The COVID+ census in hospitals has increased 18% from the previous week (previous week's increase was 10%)

Hospitalized COVID Positive Long Term Trend (beginning March 2020)



Statewide Hospitalization Trends: ICU COVID+ Census

Hospitalization Trends 3/1/2021 – 10/11/2021
Confirmed Positive in ICUs



The census of COVID+ patients in ICUs has increased by 15% from last week

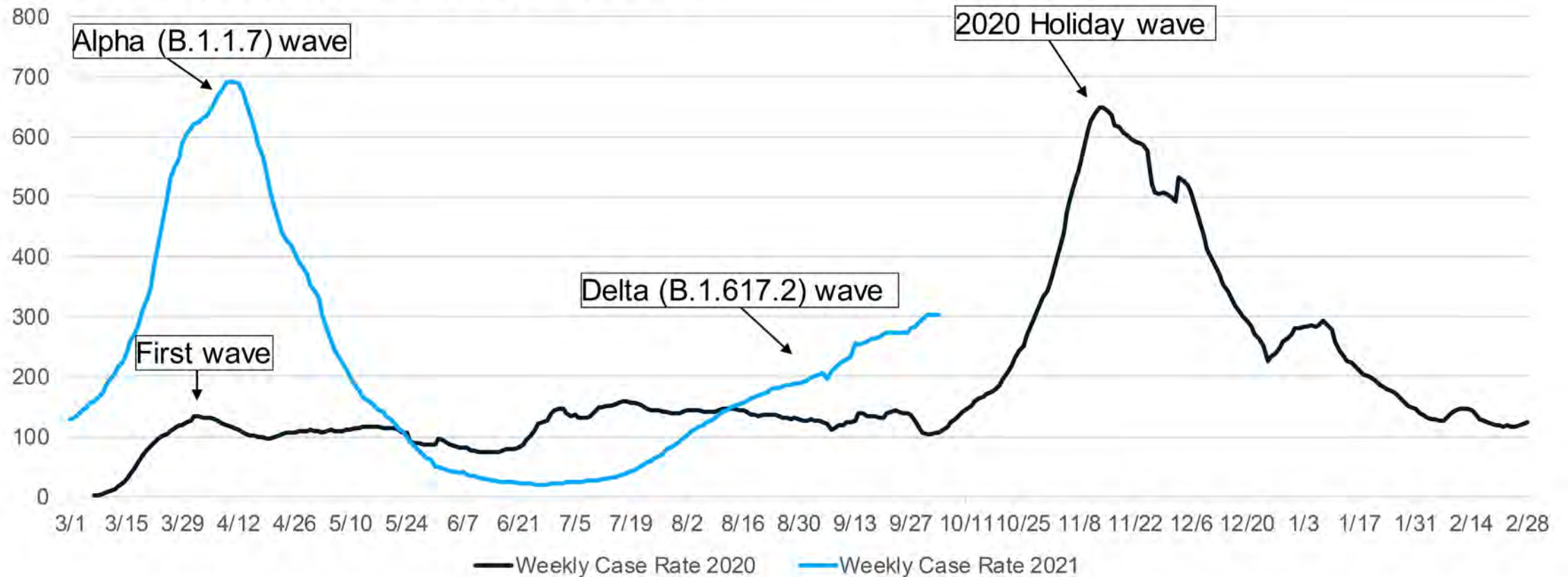
Regions 1, 6, 7 and 8 have greater than 30% of adult ICU beds filled with COVID+ patients and Region 6 is approaching ~40% of adult ICU beds occupied with COVID+ patients.

Region	Adult COVID+ in ICU (% Δ from last week)	Adult ICU Occupancy	% of Adult ICU beds COVID+
Region 1	56 (8%)	90%	32%
Region 2N	95 (0%)	74%	17%
Region 2S	116 (30%)	85%	17%
Region 3	79 (25%)	91%	23%
Region 5	33 (-3%)	75%	18%
Region 6	90 (11%)	83%	39%
Region 7	45 (29%)	81%	31%
Region 8	20 (33%)	69%	32%

Time Trends – Annual Comparison

- We are heading into the winter months (and holiday season) starting at higher cases rates than last year

7- day rolling average of Rates 2020 vs 2021



Global and National Comparisons

Globally, 237,973,161 cases and 4,854,144 deaths (Data* through 10/10/21)

- Countries with the highest case count are U.S. (44,340,408), India (33,971,607), and Brazil (21,575,820)

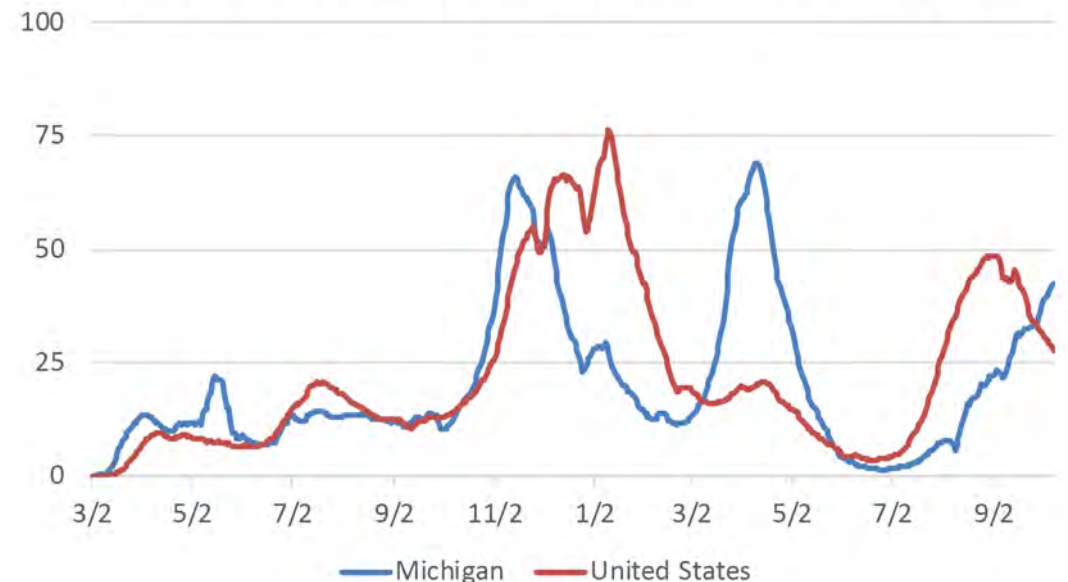
United States: Nearly all US jurisdictions have High community transmission^{††}

- California and Connecticut are Substantial
- Palau and Puerto Rico are Moderate
- While National case rates are decreasing, Michigan case rates continue to increase and are higher than U.S. total rate
- 7-day moving average of daily new cases decreased 11.6% compared with previous 7-day moving average
- Percent positivity has decreased from the previous week, now at 6.1%. The number of PCR tests performed has increased.

Midwest states maintain High transmission levels[†]

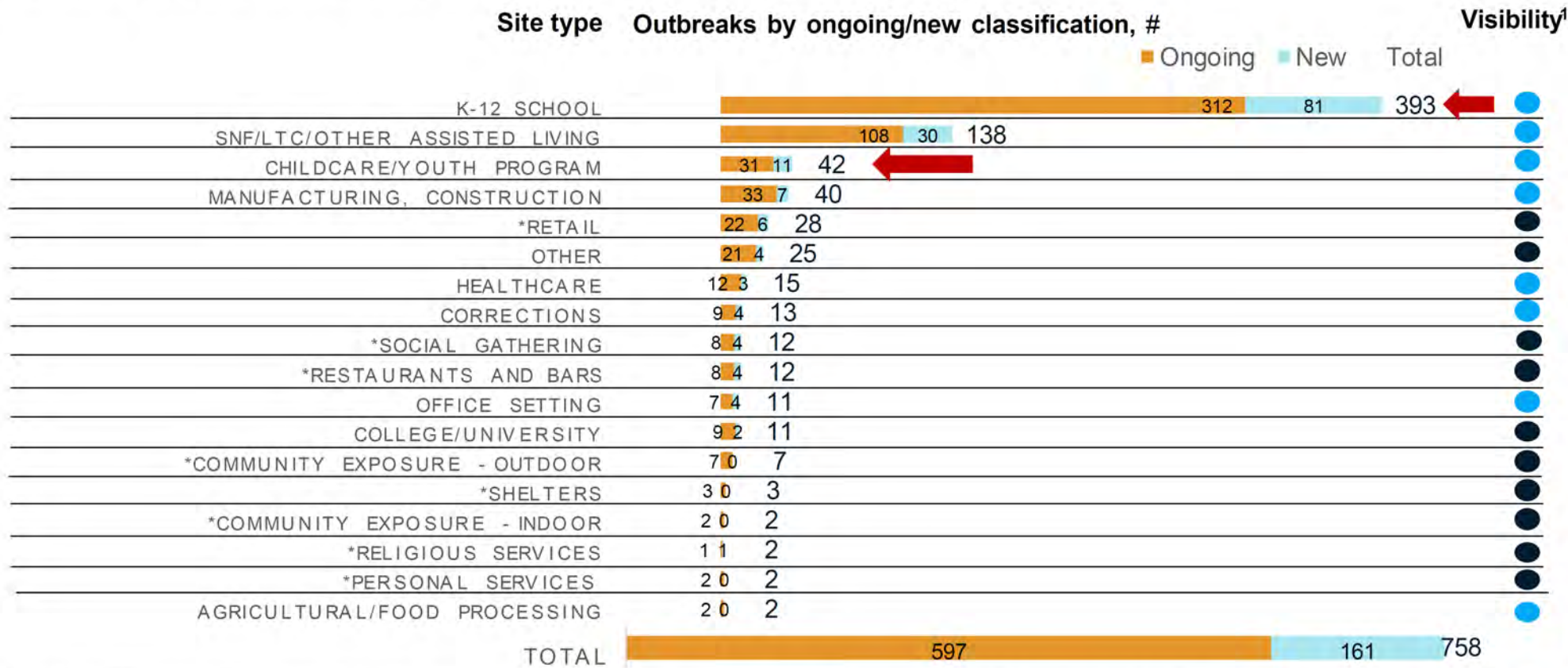
- Overall plateau in Region 5 but some states (MI, MN, WI) are seeing increases

National and Michigan 7-day average New Cases per 100K[†]



Number of Weekly Reported Outbreaks

Number of outbreak investigations by site type, week ending Oct 7



- Easier to identify outbreak
- Harder to identify outbreak

Total number of active outbreaks is **up 6%** from previous week, with 161 new outbreaks identified

K-12 schools reported the greatest number of new outbreaks and clusters (81) this week, and there were an additional 11 new outbreaks in childcare and youth programs for a total of 92 outbreaks in settings primarily with 0-19-year-olds. (57% of all known new outbreaks)

The next greatest number of new outbreaks was among SNF/LTC (30), followed by manufacturing/construction (7), retail (6), and eight other settings with at least 1 new outbreak in the last week.

1. Based on a setting's level of control and the extent of time patrons/residents spend in the particular setting, different settings have differing levels of ability to ascertain whether a case derived from that setting

NOTE: 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

K-12 school clusters and outbreaks, recent and ongoing, week ending Oct 7

Number of reported outbreaks increased since last week (364 to 393), including increases in High Schools (123 to 133), Middle/Jr High (89 to 92), and Pre K-Elementary (146 to 164). Only Administration declined (5 to 4).

Region	Number of reported cases, #	# Ongoing - Excluding New	# New	Number of outbreaks	Range of cases per outbreak
Region 1	446	96		75	2-29
Region 2n	170	80		50	2-31
Region 2s	152	7		25	2-23
Region 3	836	106		97	2-47
Region 5	106	57		19	2-46
Region 6	383	42		55	2-61
Region 7	107	13		24	2-12
Region 8	400	38		48	2-43
Total	2,600	439		393	2-61

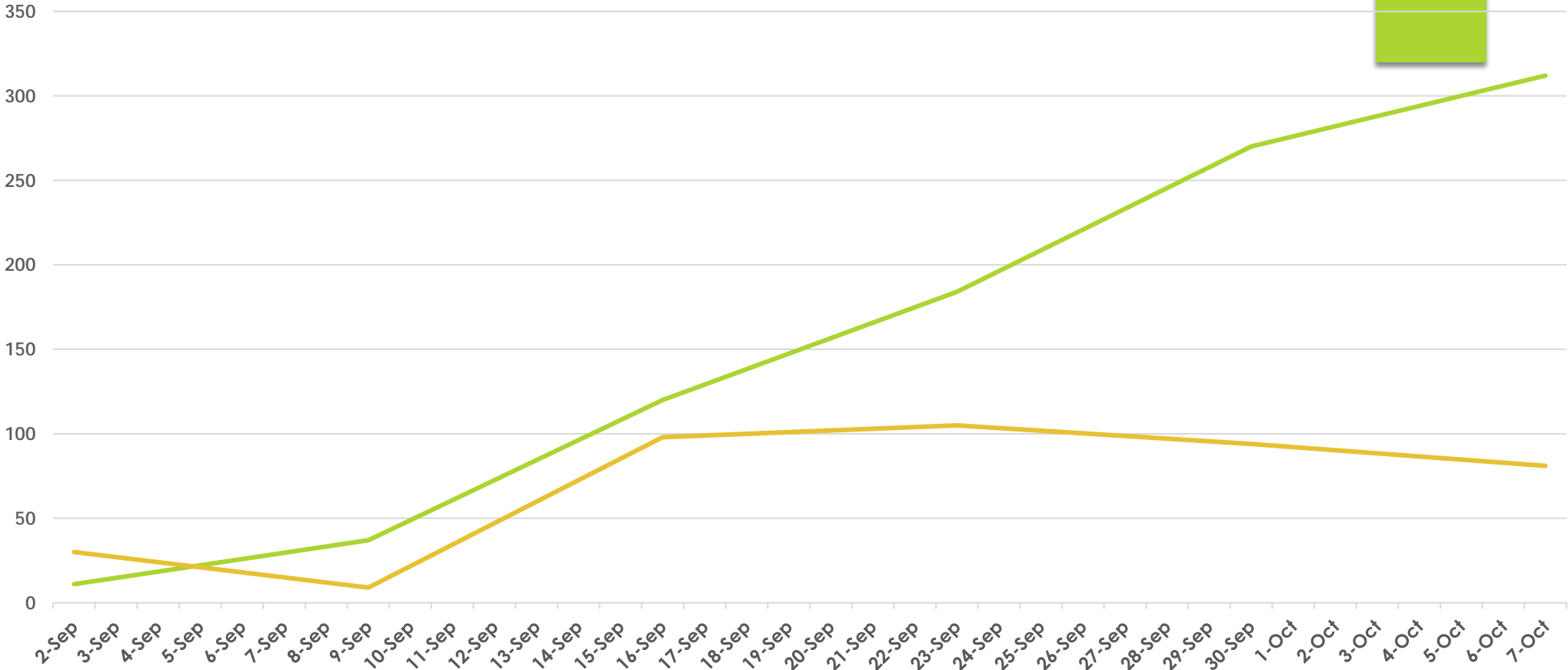
Grade level	Number of reported cases, #	# Ongoing - Excluding New	# New	Number of outbreaks	Range of cases per outbreak
Pre-school - elem.	850	167		164	2-40
Jr. high/middle school	621	85		92	2-35
High school	1,111	187		133	2-61
Administrative	180			4	2-9
Total	2,600	439		393	2-61

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

Source: LHD Weekly Sitreps

Number of K-12 Outbreaks

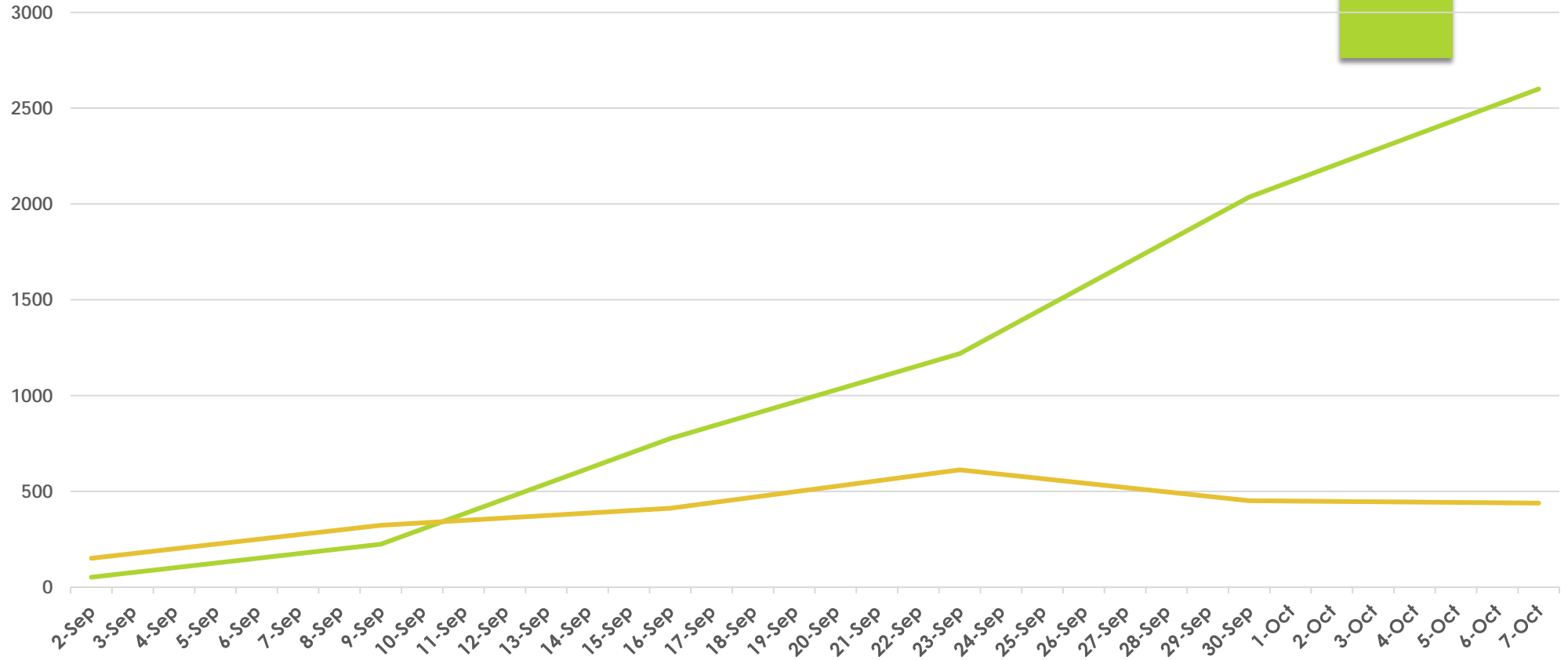


	2-Sep	9-Sep	16-Sep	23-Sep	30-Sep	7-Oct
K-12 Ongoing Outbreaks	11	37	120	184	270	312
K-12 New Outbreaks	30	9	98	105	94	81

— K-12 Ongoing Outbreaks — K-12 New Outbreaks

Definition of Educational Outbreak can be found [here](#).
 Ongoing outbreaks are those that had already been identified in previous weeks but have had at least one new associated case reported to the local health department in the last 28 days.

Number of Cases in K-12 Outbreaks



	2-Sep	9-Sep	16-Sep	23-Sep	30-Sep	7-Oct
K-12 Cases from Ongoing Outbreaks	52	224	776	1219	2036	2600
K-12 Cases from New Outbreaks	151	323	412	612	451	439

— K-12 Cases from Ongoing Outbreaks — K-12 Cases from New Outbreaks

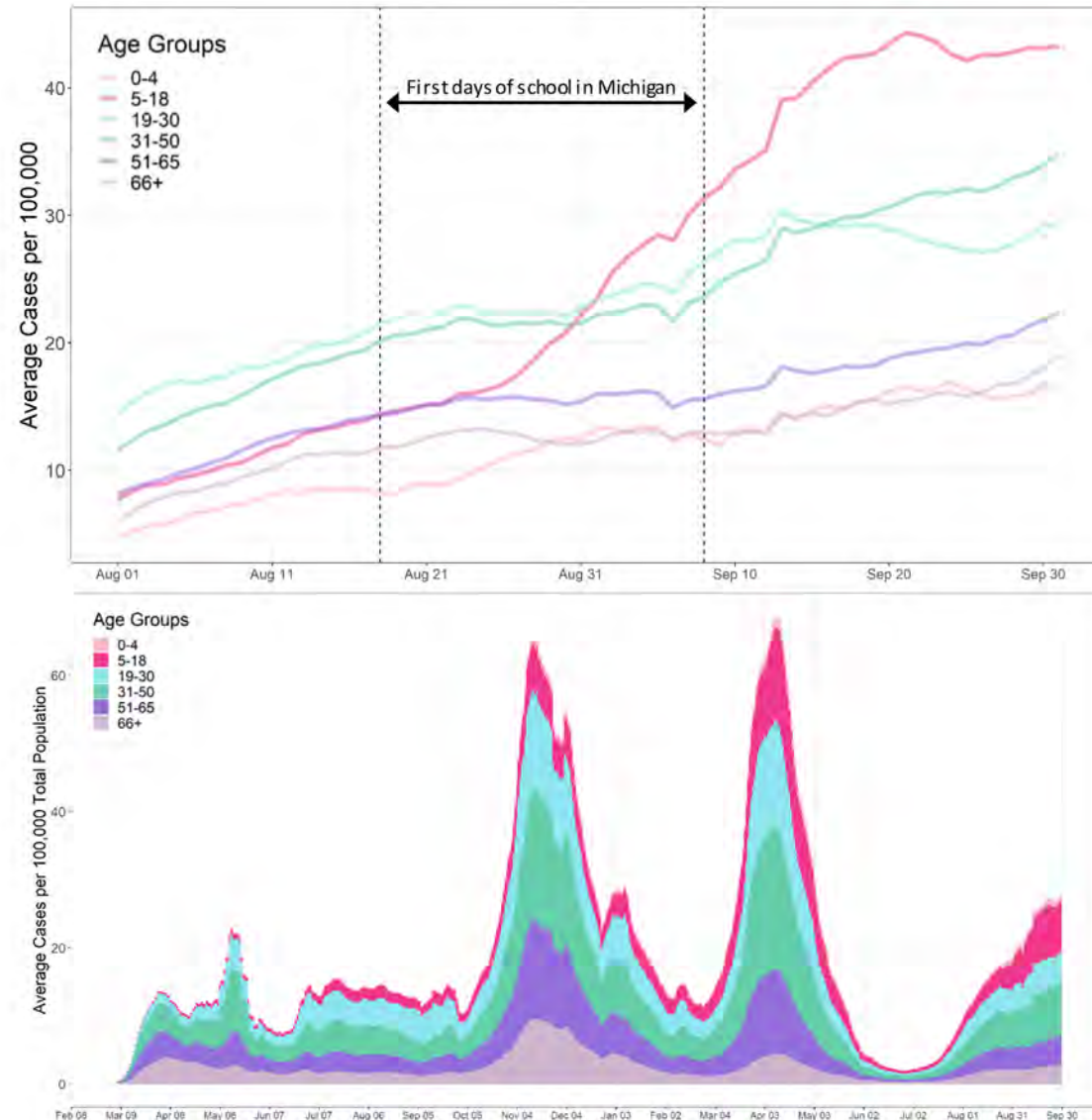
Definition of Educational Outbreak can be found [here](#).

Ongoing outbreaks are those that had already been identified in previous weeks but have had at least one new associated case reported to the local health department in the last 28 days.

Case increases are largest in school aged children (5-18 year olds)

- School aged children (5-18 y) saw a rapid rise beginning over the school reopening period that has remained high following back-to-school
- 31-50 year olds are now beginning to increase to next highest, above other age groups
- Previous surges had larger proportions of cases in adults

Data source: MDSS case data as of 10/6/2021

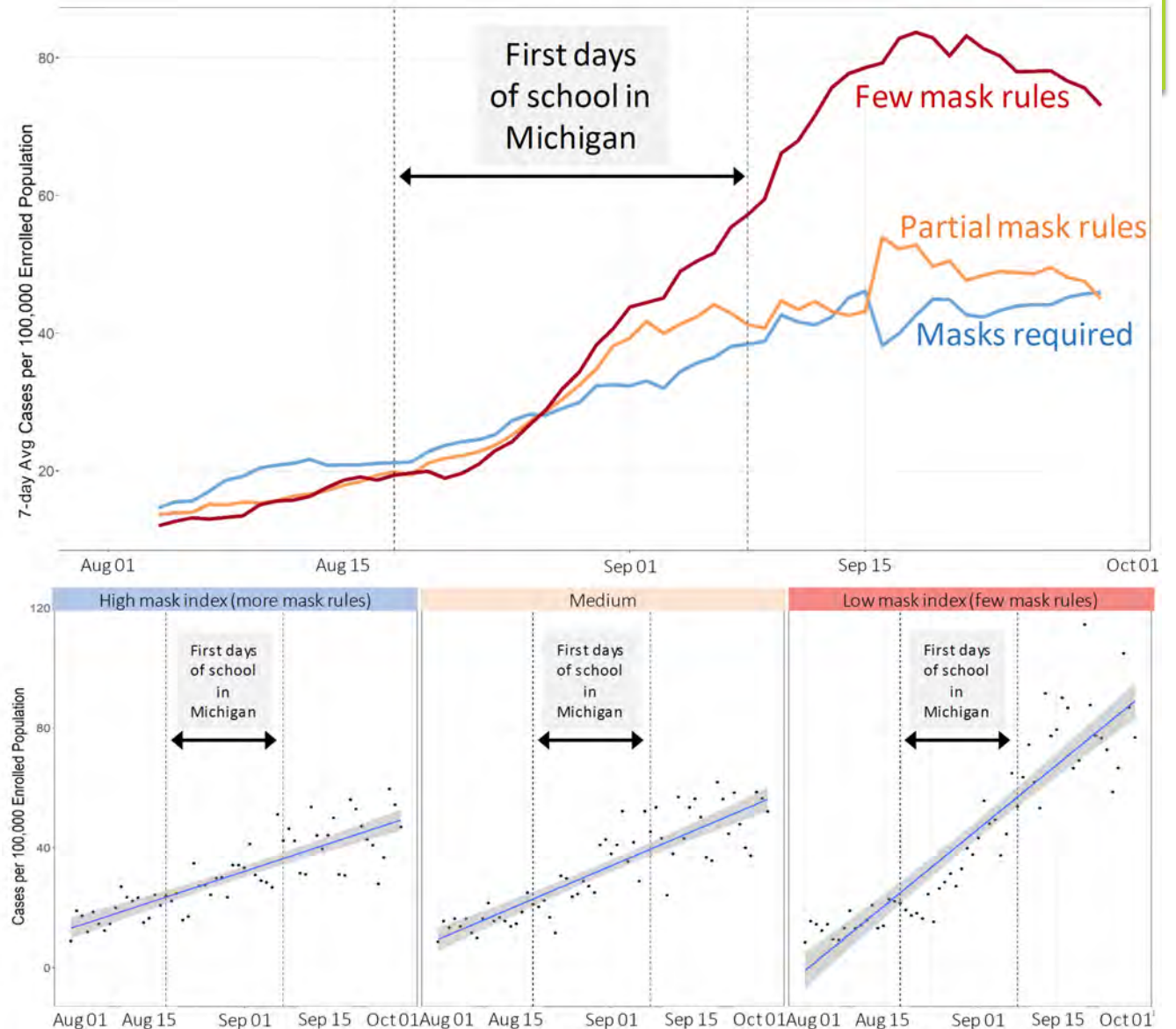


Districts without mask requirements are experiencing higher case rates

- 5-18 year old school population case rates are higher and rose faster in districts without mask requirements
- Districts with complete or partial mask requirements have lower case rates with slower increases
- Note districts may change categories as mask rules change
- Districts with mask rules may also have other prevention measures that can contribute to lower transmission levels



High mask index = mask required for all grades; Medium = partial mask req. (tiered, some grades, based on vax status, staff only); Low = None or unknown. Blue line & shaded region is a linear trend fit. Data Sources: MDSS/MDHHS case data as of 10/6/2021 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.



THANKS FOR
JOINING US!
ANY
QUESTIONS?

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