



Champion positive health outcomes and behaviors through innovative programs and community engagement

Jefferson County, Missouri
Weekly Total Covid-19 Surveillance Report
Includes Community Based Cases and Long-Term Care Facility Cases

Week 41: October 4- October 10

All data are preliminary and may change as more reports are received.

SUMMARY:

- During Week 41 a total of 312 confirmed and probable Covid-19 cases were reported in Jefferson County. A year-to-date total of 5173 confirmed and probable Covid-19 cases have been reported in Jefferson County as of Week 41.
- Sixty-six Covid-19 associated deaths have been reported in Jefferson County as of Week 41.
- Nineteen outbreaks of Covid-19 have been reported in long-term care facilities (LTCF) in Jefferson County.¹

¹ Outbreaks are defined as a LTCF with one or more confirmed cases of Covid-19 in residents or staff.

EPIDEMIOLOGIC DATA:

Table 1. Number of Confirmed and Probable Covid-19 Cases by Week, Jefferson County, Missouri

CDC Week	CDC Week Start Date	Covid-19 Cases	Cumulative Covid-19 Case Total
12	3/15/2020	0	0
13	3/22/2020	22	22
14	3/29/2020	52	74
15	4/5/2020	49	123
16	4/12/2020	57	180
17	4/19/2020	72	252
18	4/26/2020	28	280
19	5/3/2020	25	305
20	5/10/2020	23	328
21	5/17/2020	14	342
22	5/24/2020	16	358
23	5/31/2020	55	413
24	6/7/2020	15	428
25	6/14/2020	32	460
26	6/21/2020	62	522
27	6/28/2020	40	562
28	7/5/2020	163	725
29	7/12/2020	172	897
30	7/19/2020	250	1147
31	7/26/2020	298	1445
32	8/2/2020	323	1768
33	8/9/2020	313	2081
34	8/16/2020	294	2375
35	8/23/2020	372	2747
36	8/30/2020	436	3183
37	9/6/2020	387	3570
38	9/13/2020	494	4064
39	9/20/2020	438	4502
40	9/27/2020	359	4861
41	10/4/2020	312	5173

Figure 1. Number of Confirmed and Probable Covid-19 Cases by Week, Jefferson County, Missouri

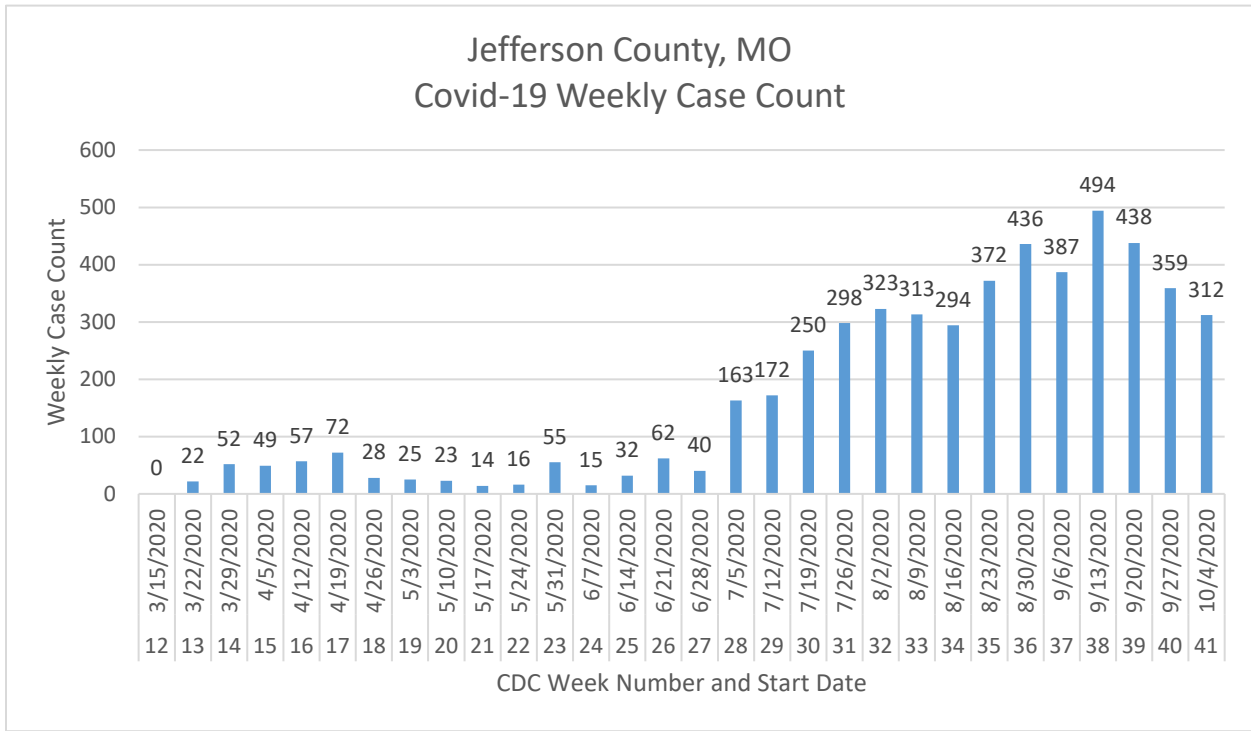


Figure 2. Cumulative Confirmed and Probable Covid-19 Cases by Week, Jefferson County, Missouri

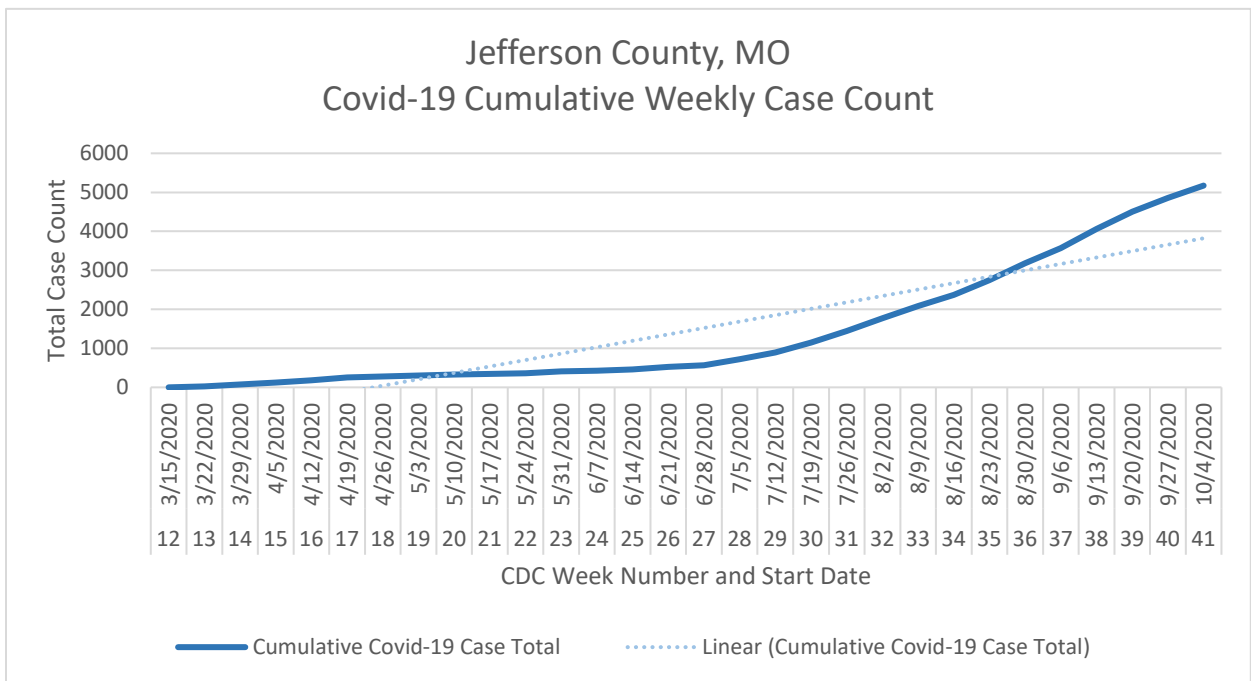


Figure 3. Covid-19 Daily Case Count and 7-Day Average, Jefferson County, Missouri

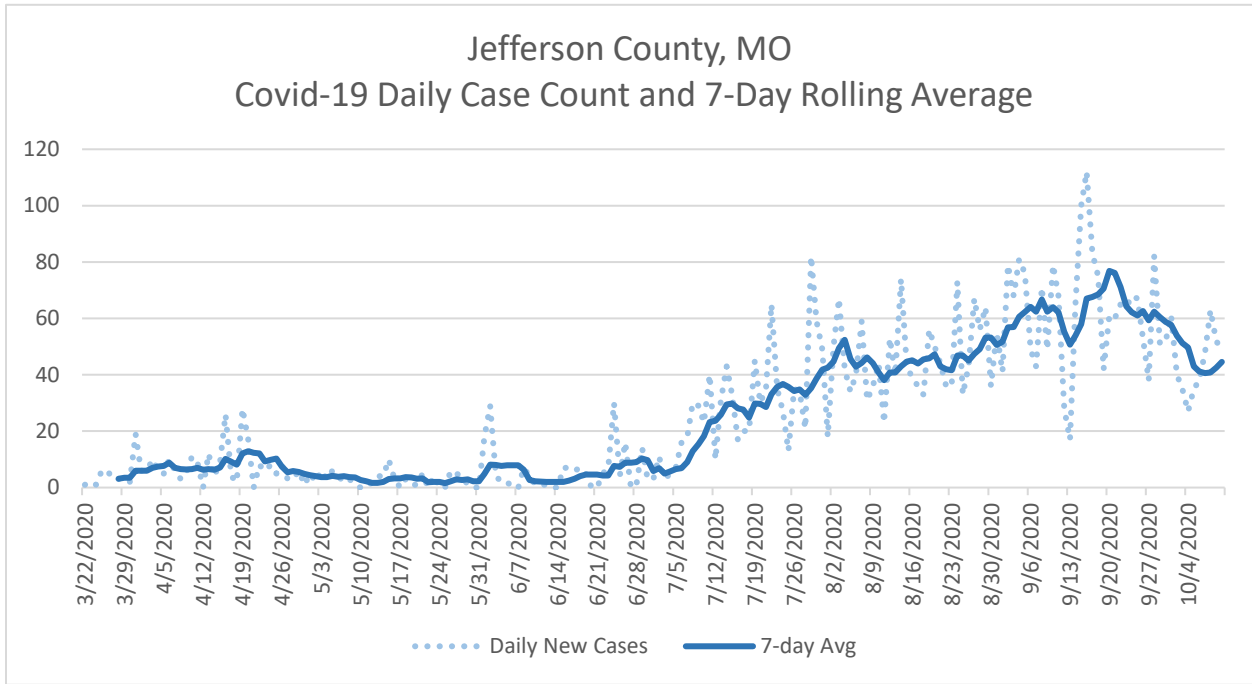


Figure 4. Confirmed and Probable Covid-19 Cases and Age-Adjusted Case Rates, Jefferson County, Missouri

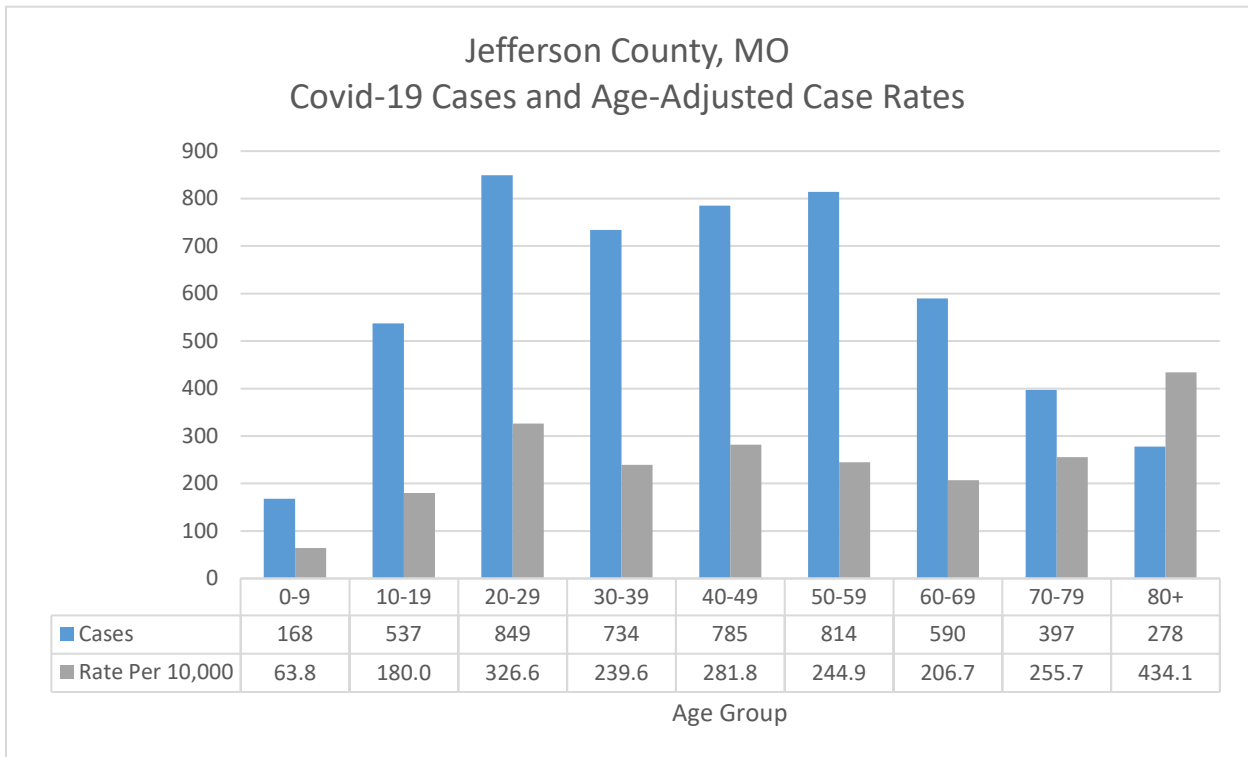


Figure 5. Covid-19 Fatalities and Fatality Rates by Age Group, Jefferson County, Missouri

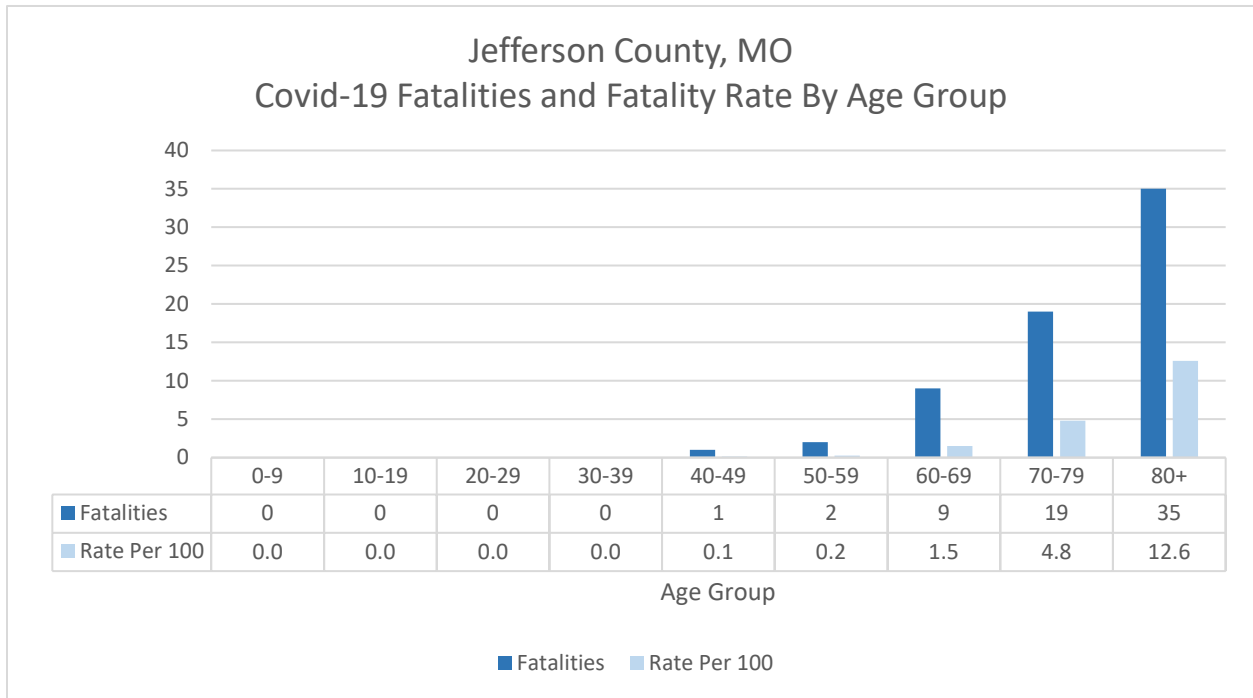


Table 2. Approximate Covid-19 Cumulative Fatality Rates

Jefferson County	1.28%
Missouri	1.68%
US	2.77%

Figure 6. Covid-19 Cases by Sex, Jefferson County, Missouri

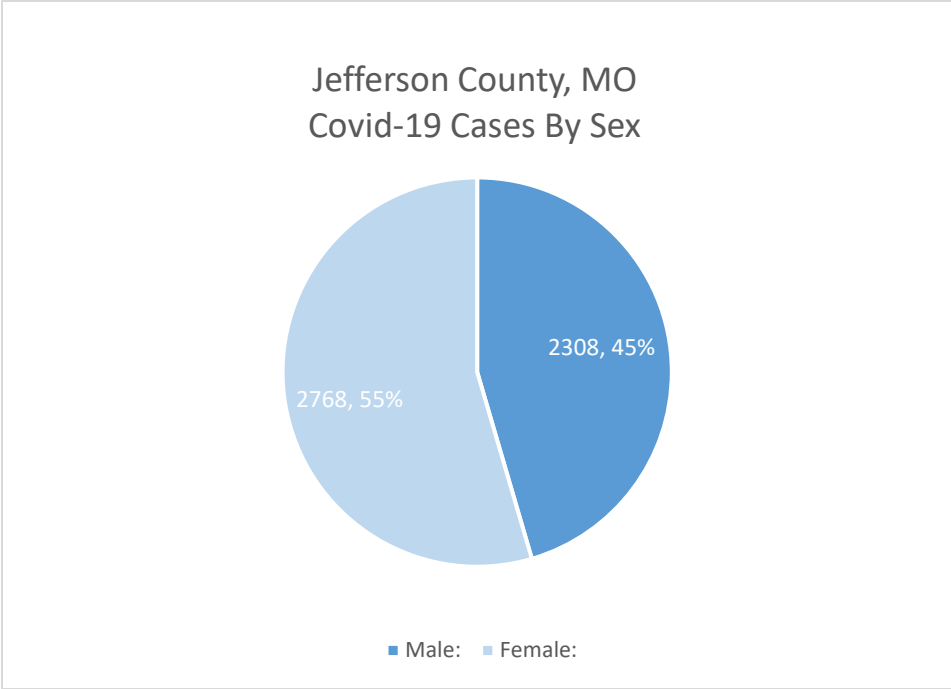


Figure 7. Covid-19 PCR Test Results by Week, Jefferson County, Missouri

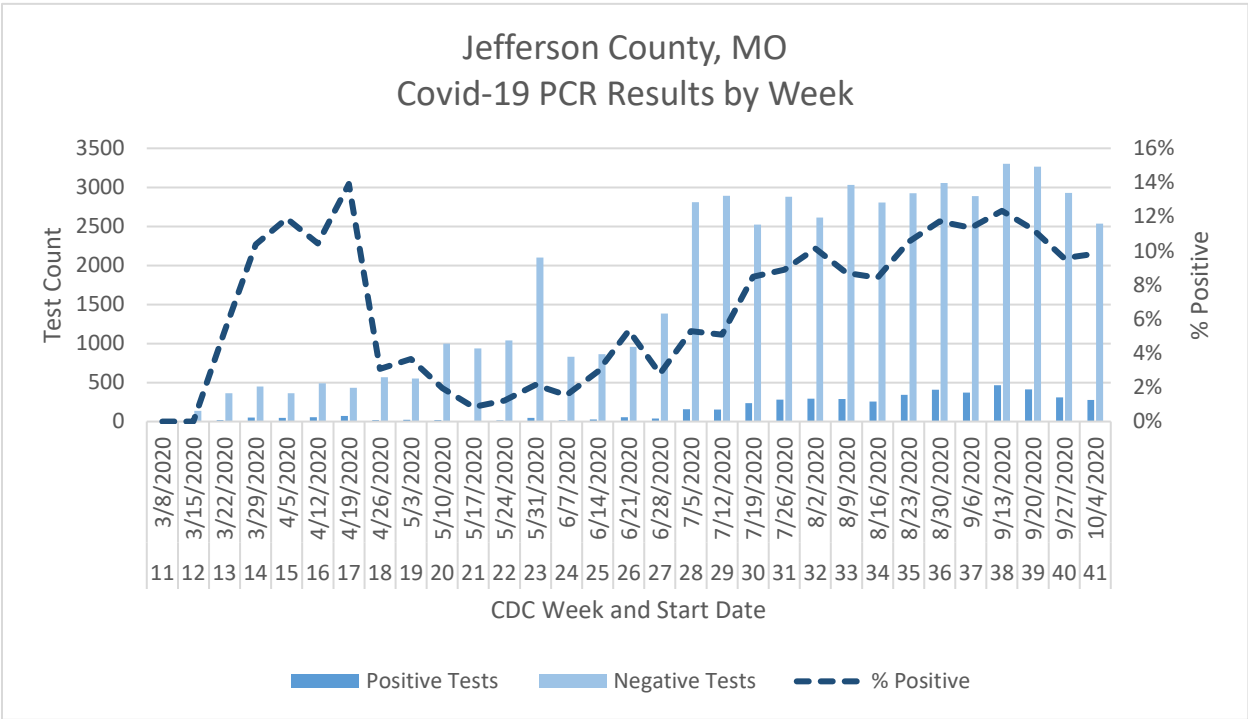


Table 3. Covid-19 PCR Test Results and Percent Positive
by Week, Jefferson County, Missouri

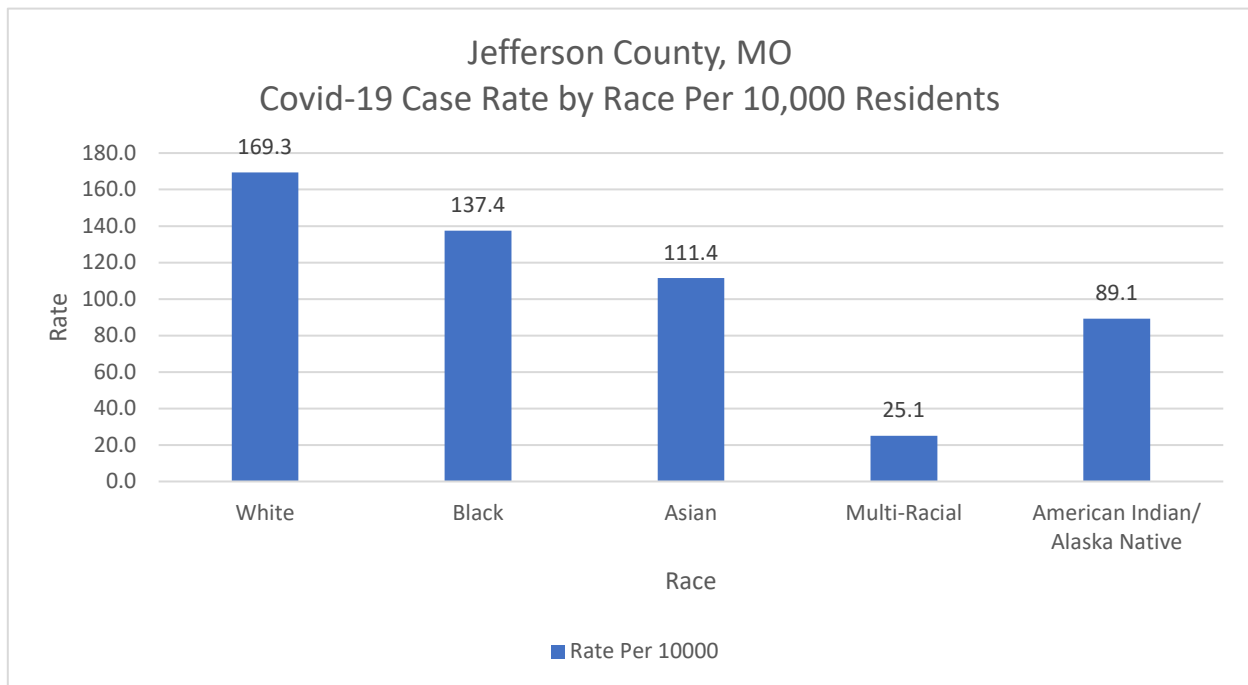
CDC Week	CDC Week Start Date	Positive Tests	Negative Tests	Total Tests	% Positive
11	3/8/2020	0	7	7	0.0%
12	3/15/2020	0	137	137	0.0%
13	3/22/2020	20	361	381	5.2%
14	3/29/2020	52	449	501	10.4%
15	4/5/2020	49	363	412	11.9%
16	4/12/2020	57	490	547	10.4%
17	4/19/2020	70	433	503	13.9%
18	4/26/2020	18	566	584	3.1%
19	5/3/2020	21	553	574	3.7%
20	5/10/2020	20	997	1017	2.0%
21	5/17/2020	8	938	946	0.8%
22	5/24/2020	13	1040	1053	1.2%
23	5/31/2020	46	2099	2145	2.1%
24	6/7/2020	13	829	842	1.5%
25	6/14/2020	26	862	888	2.9%
26	6/21/2020	54	959	1013	5.3%
27	6/28/2020	40	1385	1425	2.8%
28	7/5/2020	157	2811	2968	5.3%
29	7/12/2020	155	2891	3046	5.1%
30	7/19/2020	234	2525	2759	8.5%
31	7/26/2020	281	2878	3159	8.9%
32	8/2/2020	295	2615	2910	10.1%
33	8/9/2020	289	3030	3319	8.7%
34	8/16/2020	258	2807	3065	8.4%
35	8/23/2020	344	2923	3267	10.5%
36	8/30/2020	406	3057	3463	11.7%
37	9/6/2020	370	2889	3259	11.4%
38	9/13/2020	465	3302	3767	12.3%
39	9/20/2020	414	3266	3680	11.3%
40	9/27/2020	310	2930	3240	9.6%
41	10/4/2020	276	2534	2810	9.8%

Table 4. Covid-19 Cases and Rate Per 10,000 by Race, Jefferson County, Missouri*

Race	Cases	Rate Per 10000
White	3651	169.3
Black	37	137.4
Asian	20	111.4
Multi-Racial	9	25.1
American Indian/ Alaska Native	6	89.1
Unknown	201	n/a

*Rates calculated using data from the United States Census Bureau for Jefferson County, Missouri (2019)

Figure 8. Covid-19 Case Rate by Race Per 10,000 Residents, Jefferson County, Missouri*



*Case Rates calculated excluding unknown and missing race data.

Figure 9. Covid-19 Cases by Zip Code, Jefferson County, Missouri

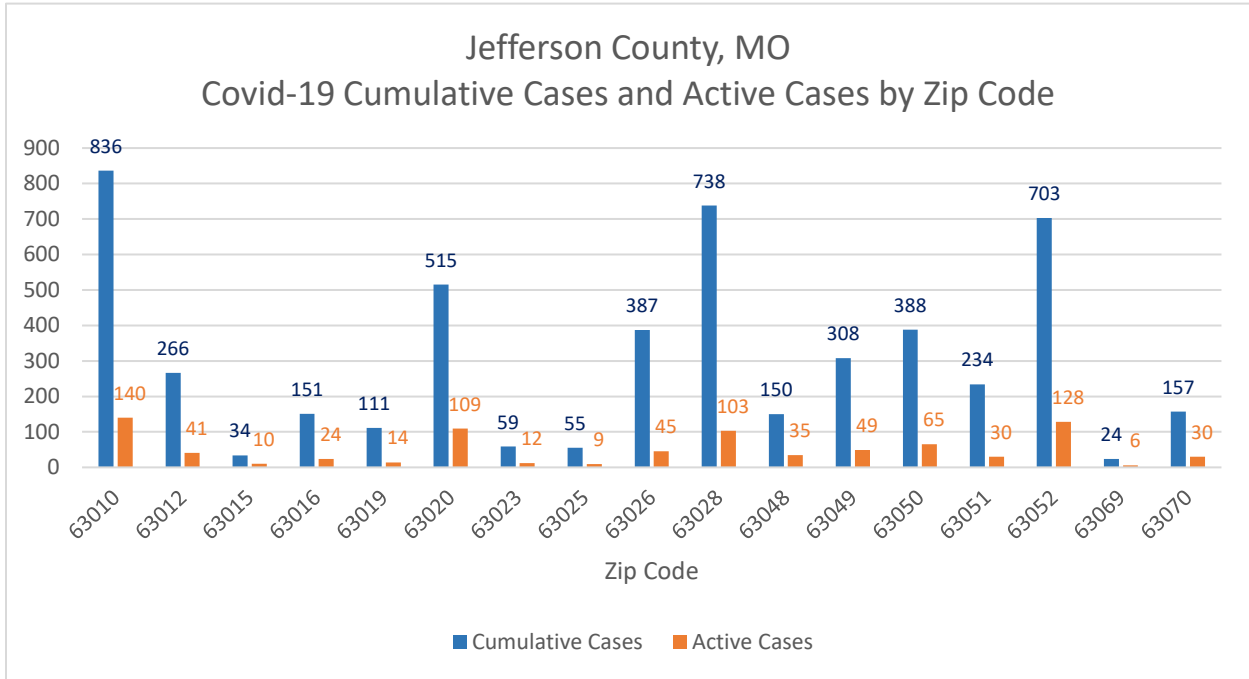
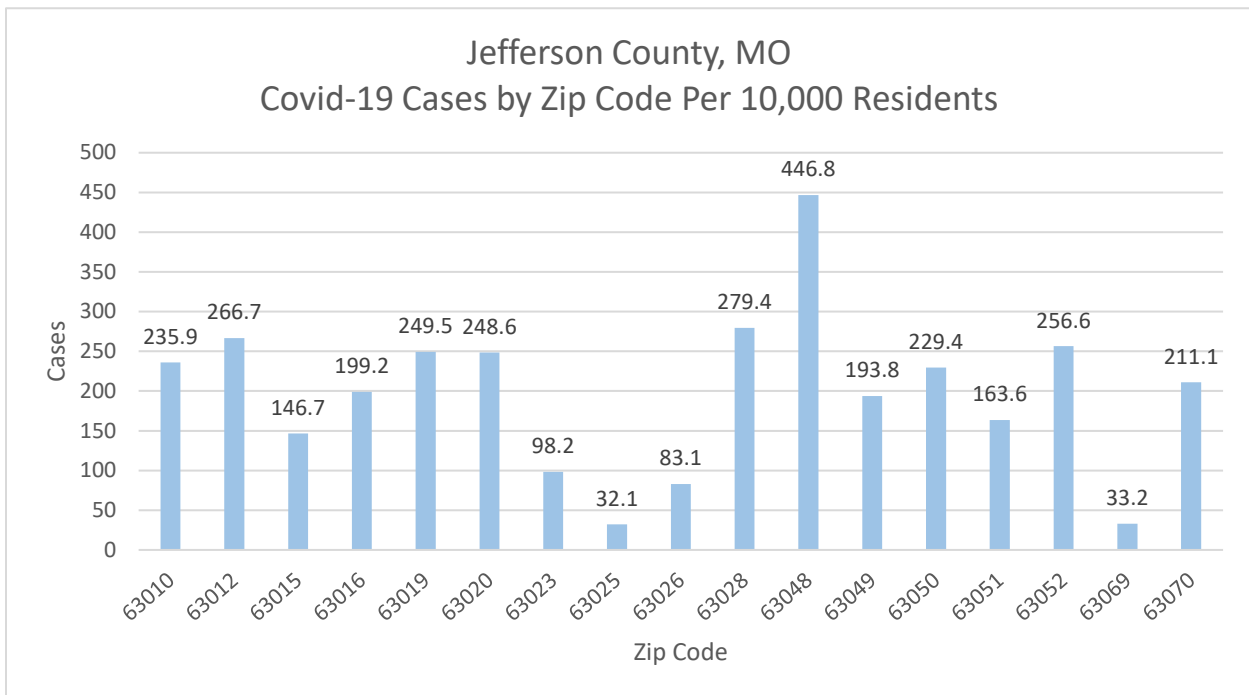


Figure 10. Covid-19 Cases by Zip Code Per 10,000 Residents, Jefferson County, Missouri





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Jefferson County, Missouri
Weekly Community Based Covid-19 Surveillance Report
Excludes Long Term Care Facility Cases

Week 41: October 4- October 10

All data are preliminary and may change as more reports are received.

SUMMARY:

-This is a revised version of the Week 41 Covid-19 report excluding cases associated with LTCFs (Long Term Care Facilities).

EPIDEMIOLOGIC DATA:

Table 1. Number of Confirmed and Probable Covid-19 Cases by Week (Excluding LTCFs), Jefferson County, Missouri

CDC Week	CDC Week Start Date	Covid-19 Cases	Cumulative Covid-19 Case Total
12	3/15/2020	0	0
13	3/22/2020	22	22
14	3/29/2020	48	70
15	4/5/2020	43	113
16	4/12/2020	23	136
17	4/19/2020	24	160
18	4/26/2020	19	179
19	5/3/2020	16	195
20	5/10/2020	11	206
21	5/17/2020	10	216
22	5/24/2020	11	227
23	5/31/2020	29	256
24	6/7/2020	13	269
25	6/14/2020	31	300
26	6/21/2020	35	335
27	6/28/2020	39	374
28	7/5/2020	158	532
29	7/12/2020	167	699
30	7/19/2020	196	895
31	7/26/2020	247	1142
32	8/2/2020	298	1440
33	8/9/2020	272	1712
34	8/16/2020	264	1976
35	8/23/2020	314	2290
36	8/30/2020	409	2699
37	9/6/2020	357	3056
38	9/13/2020	471	3527
39	9/20/2020	410	3937
40	9/27/2020	338	4275
41	10/4/2020	290	4565

Figure 1. Number of Confirmed and Probable Covid-19 Cases by Week (Excluding LTCFs), Jefferson County, Missouri

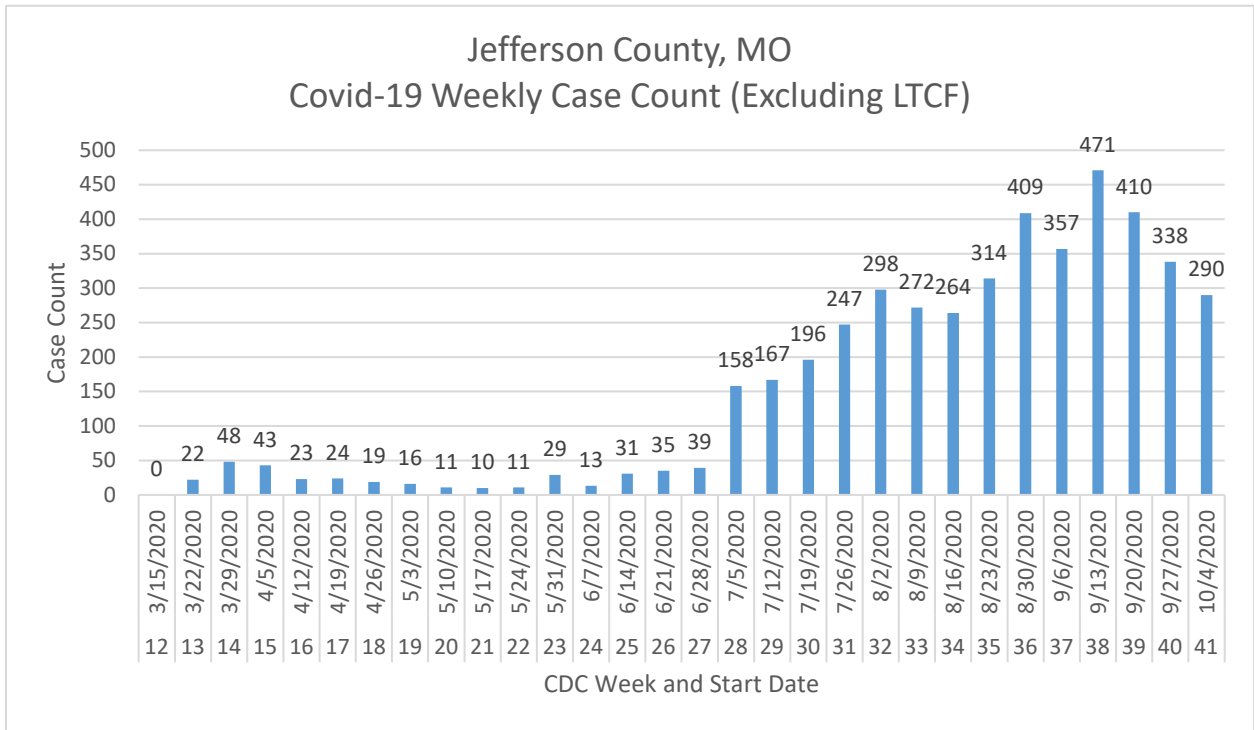


Figure 2. Cumulative Confirmed and Probable Covid-19 Cases by Week (Excluding LTCFs), Jefferson County, Missouri

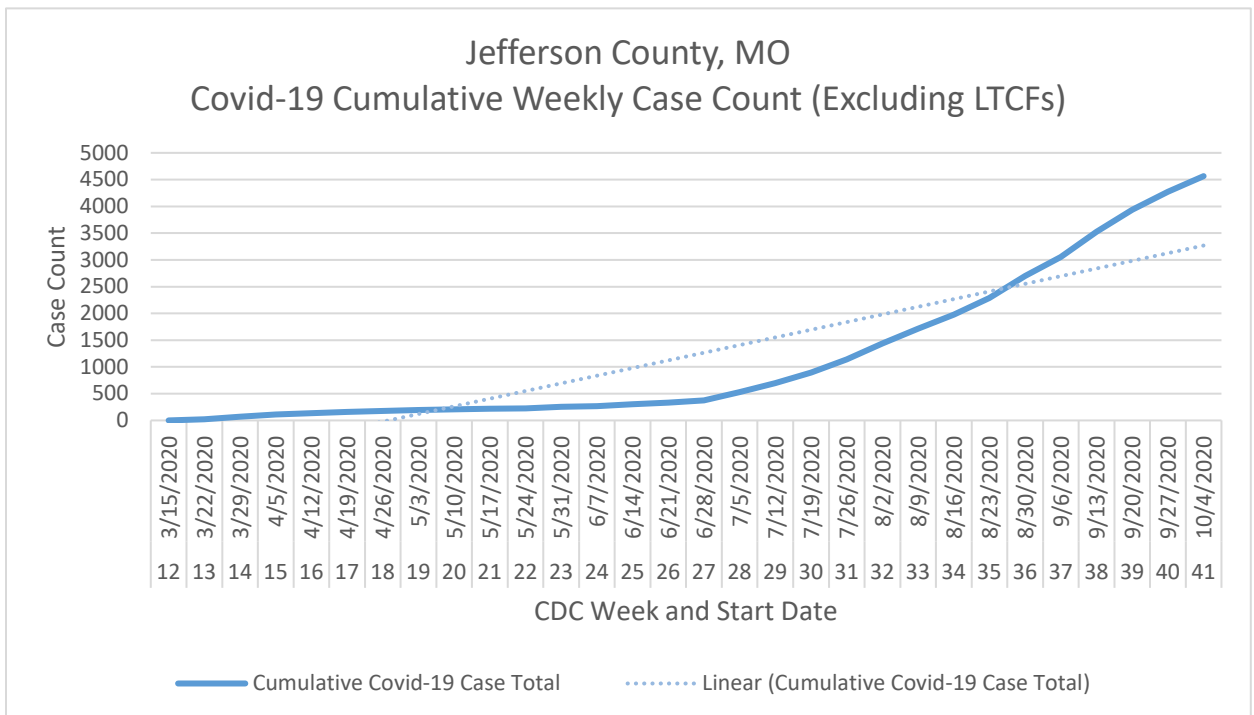


Figure 3. Covid-19 Daily Case Count and 7-Day Average (Excluding LTCFs), Jefferson County, Missouri

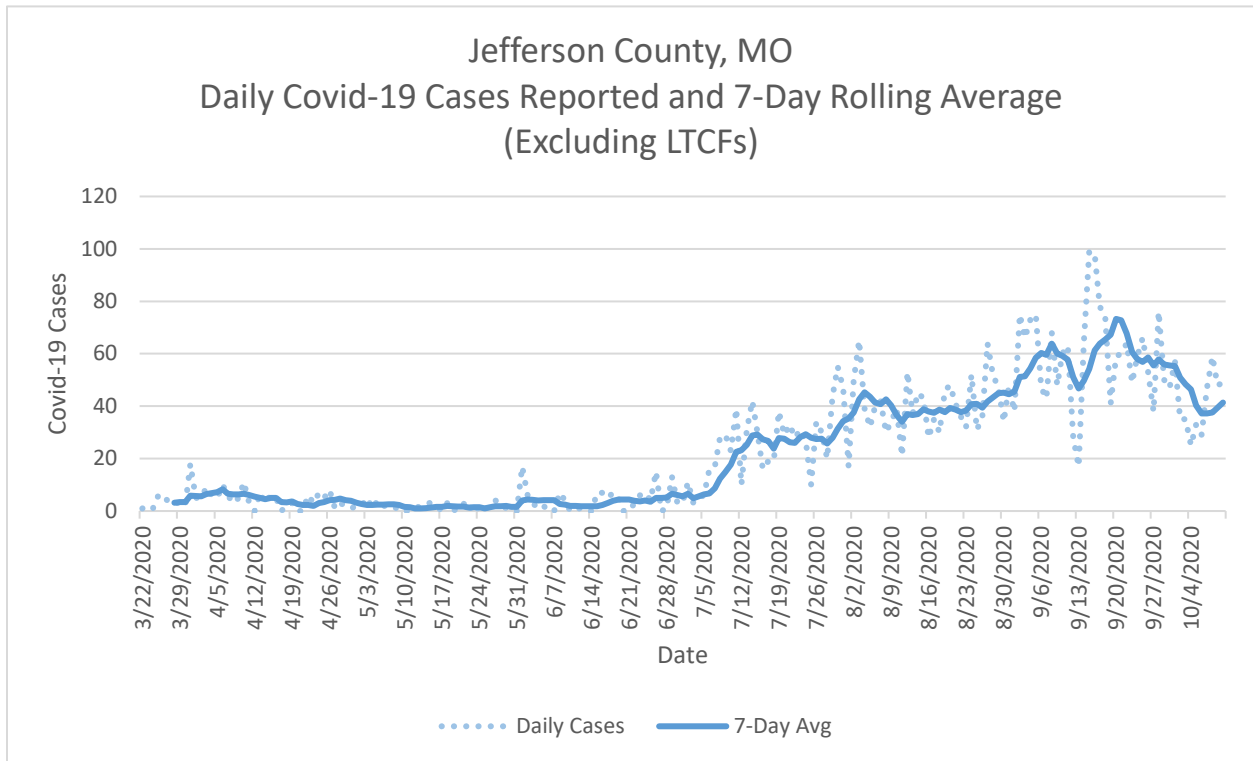


Figure 4. Confirmed and Probable Covid-19 Cases and Age-Adjusted Case Rates (Excluding LTCFs), Jefferson County, Missouri

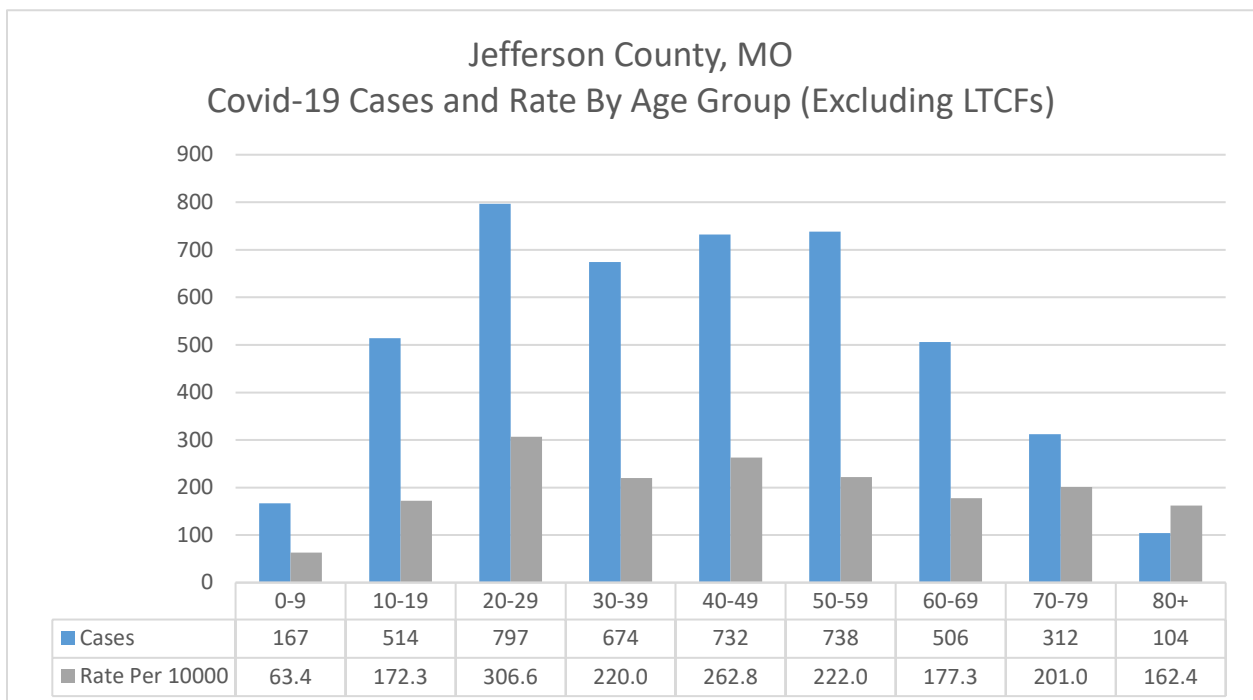


Figure 5. Covid-19 Fatalities and Fatality Rates by Age Group (Excluding LTCFs), Jefferson County, Missouri

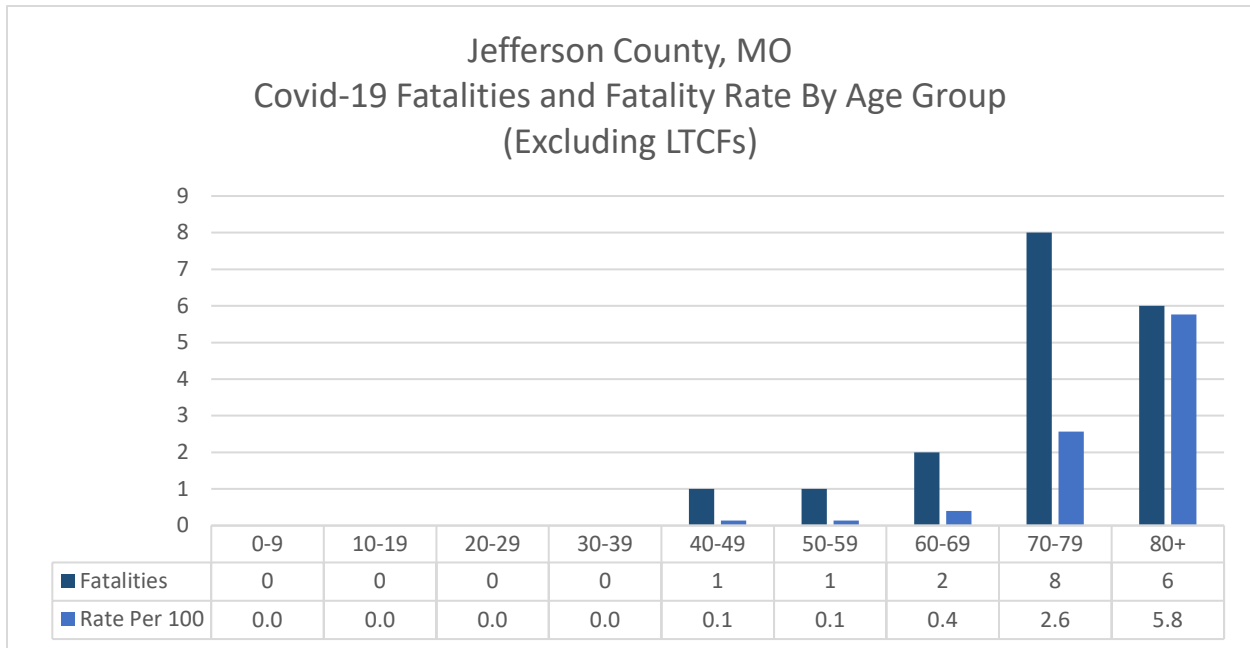


Table 2. Approximate Covid-19 Cumulative Fatality Rates (Excluding LTCFs)*

Jefferson County	.39%

*Missouri and United States data unavailable

Figure 6. Covid-19 Cases by Sex (Excluding LTCFs), Jefferson County, Missouri

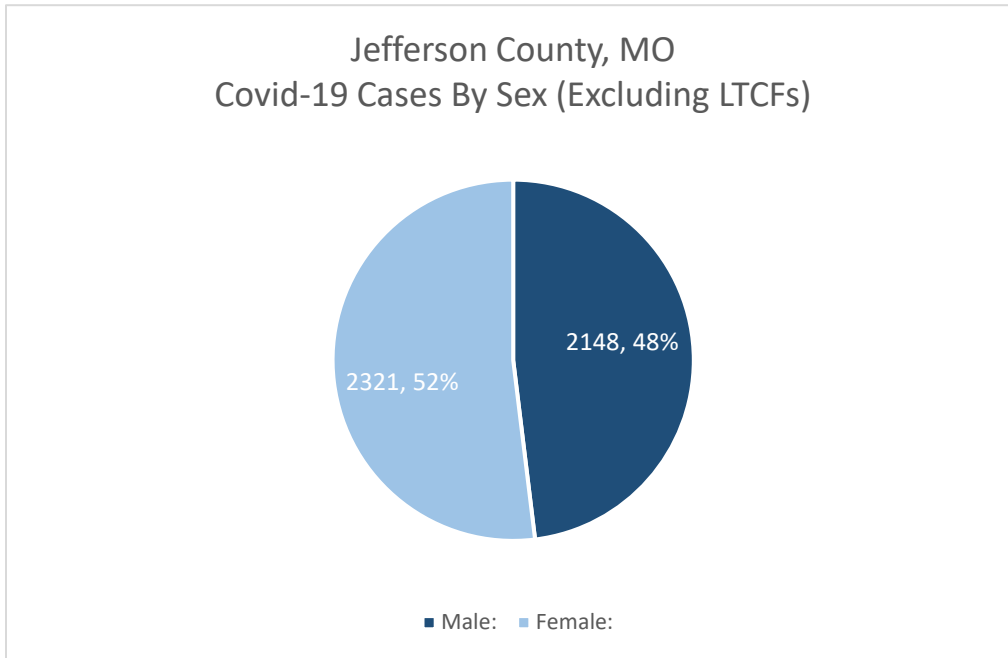


Figure 7. Covid-19 PCR Test Results by Week (Excluding LTCFs), Jefferson County, Missouri

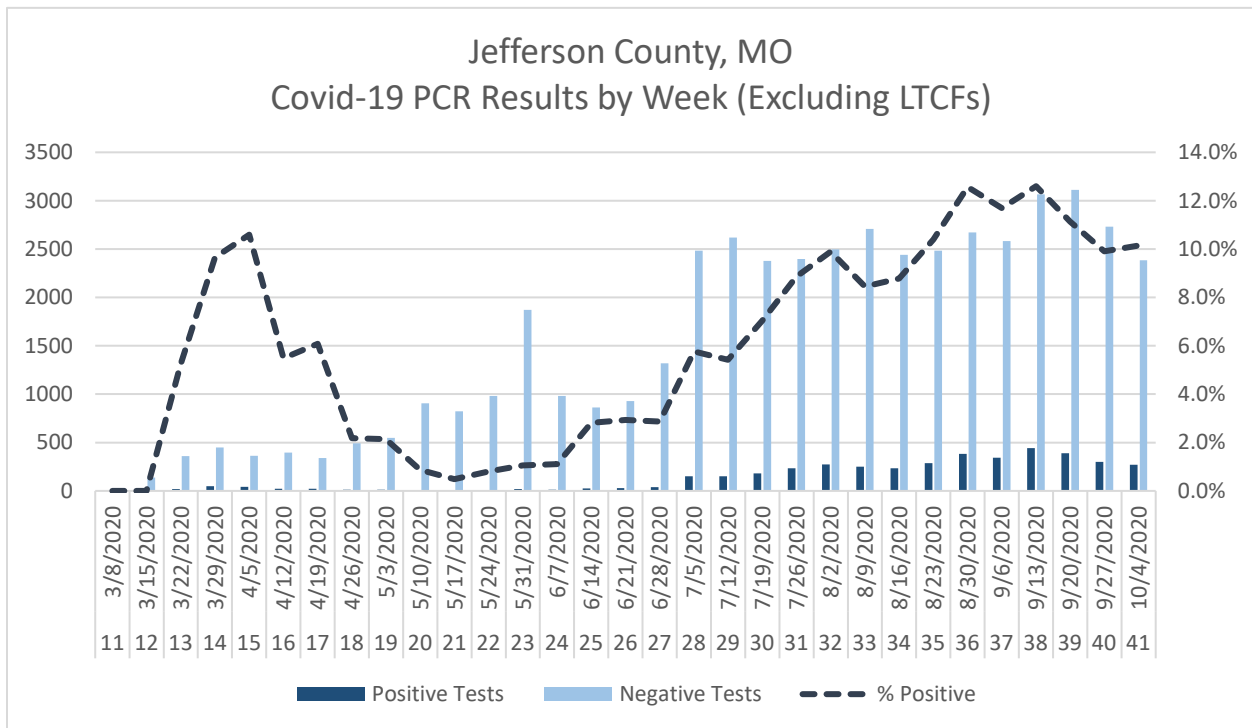


Table 3. Covid-19 PCR Test Results and Percent Positive
by Week, Jefferson County (Excluding LTCFs),
Missouri

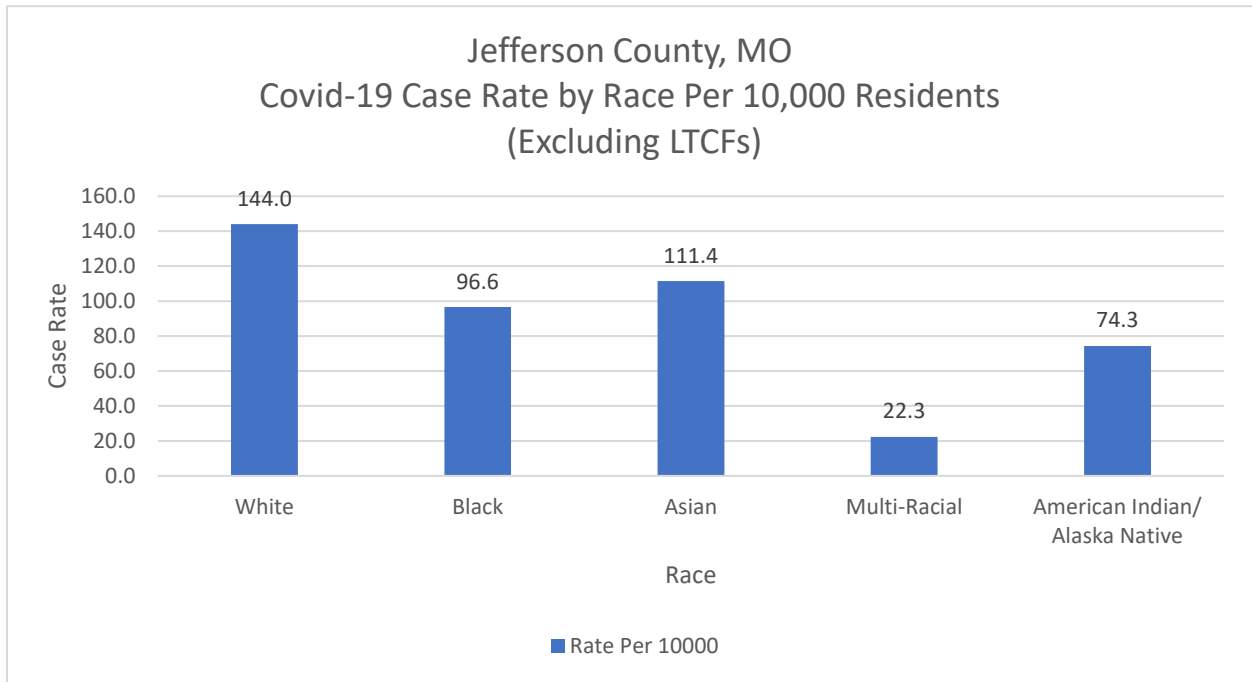
CDC Week	CDC Week Start Date	Positive Tests	Negative Tests	Total Tests	% Positive
11	3/8/2020	0	7	7	0.0%
12	3/15/2020	0	137	137	0.0%
13	3/22/2020	20	361	381	5.2%
14	3/29/2020	48	449	497	9.7%
15	4/5/2020	43	363	406	10.6%
16	4/12/2020	23	396	419	5.5%
17	4/19/2020	22	340	362	6.1%
18	4/26/2020	11	493	504	2.2%
19	5/3/2020	12	549	561	2.1%
20	5/10/2020	8	907	915	0.9%
21	5/17/2020	4	823	827	0.5%
22	5/24/2020	8	981	989	0.8%
23	5/31/2020	20	1870	1890	1.1%
24	6/7/2020	11	981	992	1.1%
25	6/14/2020	25	862	887	2.8%
26	6/21/2020	28	928	956	2.9%
27	6/28/2020	39	1320	1359	2.9%
28	7/5/2020	152	2482	2634	5.8%
29	7/12/2020	150	2619	2769	5.4%
30	7/19/2020	180	2379	2559	7.0%
31	7/26/2020	233	2396	2629	8.9%
32	8/2/2020	274	2497	2771	9.9%
33	8/9/2020	250	2707	2957	8.5%
34	8/16/2020	235	2440	2675	8.8%
35	8/23/2020	288	2482	2770	10.4%
36	8/30/2020	384	2672	3056	12.6%
37	9/6/2020	342	2582	2924	11.7%
38	9/13/2020	442	3066	3508	12.6%
39	9/20/2020	390	3112	3502	11.1%
40	9/27/2020	300	2730	3030	9.9%
41	10/4/2020	269	2384	2653	10.1%

Table 4. Covid-19 Cases and Rate Per 10,000 by Race, Jefferson County (Excluding LTCFs), Missouri*

Race	Cases	Rate Per 10000
White	3105	144.0
Black	26	96.6
Asian	20	111.4
Multi-Racial	8	22.3
American Indian/ Alaska Native	5	74.3
Unknown	172	N/A

*Rates calculated using data from the United States Census Bureau for Jefferson County, Missouri (2019)

Figure 8. Covid-19 Case Rate by Race Per 10,000 Residents, Jefferson County (Excluding LTCFs), Missouri*



*Case Rates calculated excluding unknown and missing race data.

Figure 9. Covid-19 Cases by Zip Code, Jefferson County (Excluding LTCFs), Missouri

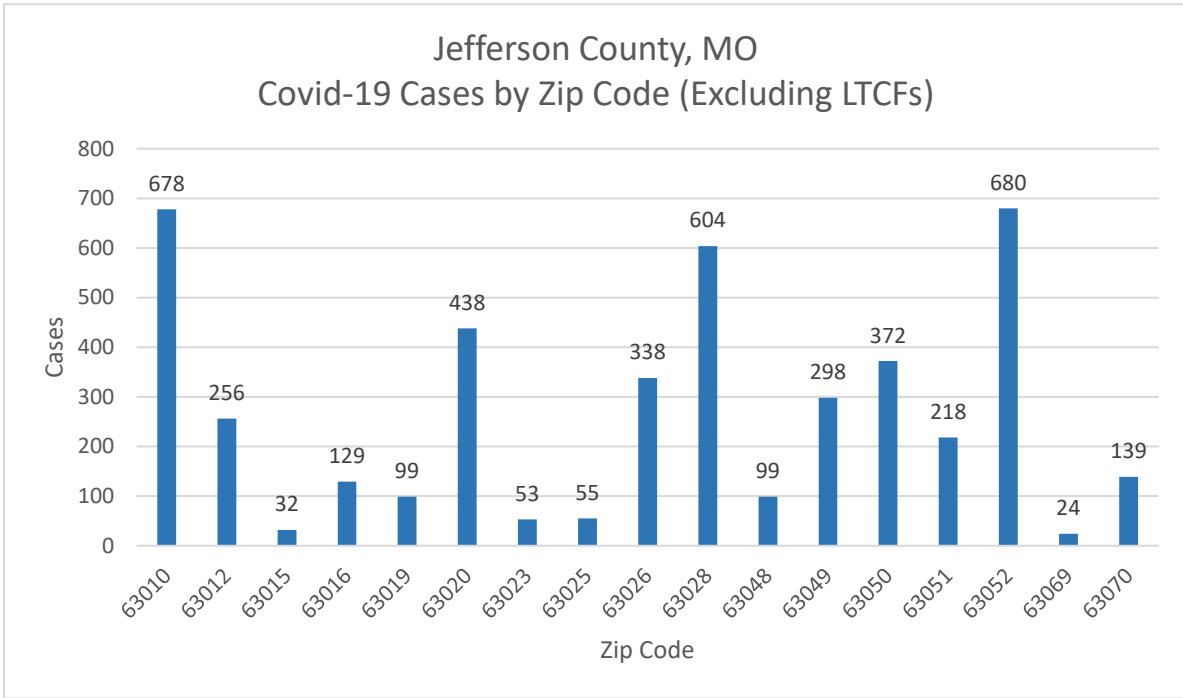
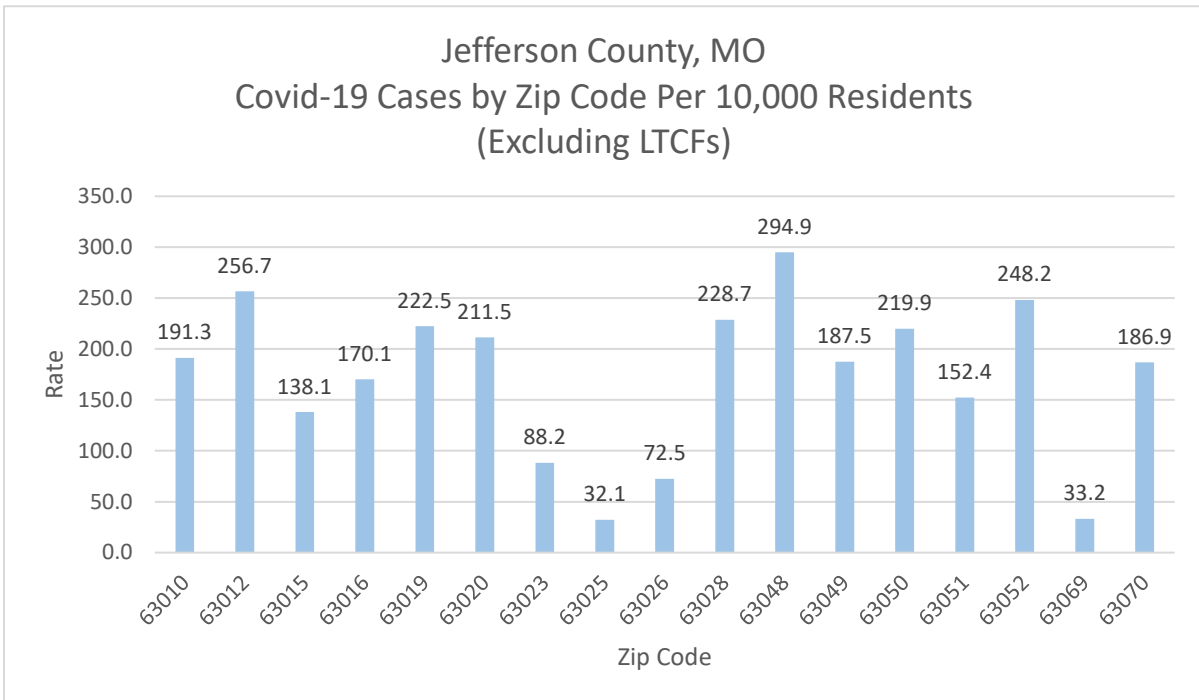


Figure 10. Covid-19 Cases by Zip Code Per 10,000 Residents, Jefferson County (Excluding LTCFs), Missouri





Champion positive health outcomes and behaviors through innovative programs and community engagement

Jefferson County, Missouri **Covid-19 Surveillance Report for Local Hospital Systems**

All data are preliminary and may change as more reports are received.

SUMMARY:

- A total of 396 Covid-19 associated hospitalizations¹ have been reported from hospital systems for Jefferson County, Missouri as of Week 41.²
- A total of 55 positive Covid-19 cases have been admitted to the ICU. Twenty-six positive Covid-19 cases required ventilators as of Week 41.
- Twenty-four Covid-19 associated fatalities have been reported from hospital systems for Jefferson County, Missouri as of Week 41.

¹ A hospitalization is defined as each time the hospital is utilized by a positive COVID-19 patient. This number may include readmissions by the same positive case.

² Hospital data has been obtained from local Mercy facilities and local BJC facilities. Data from SSM has not been included at this time.

EPIDEMIOLOGIC DATA:

Figure 1. Covid-19 Hospital Admissions and 7-Day Average, Jefferson County, Missouri

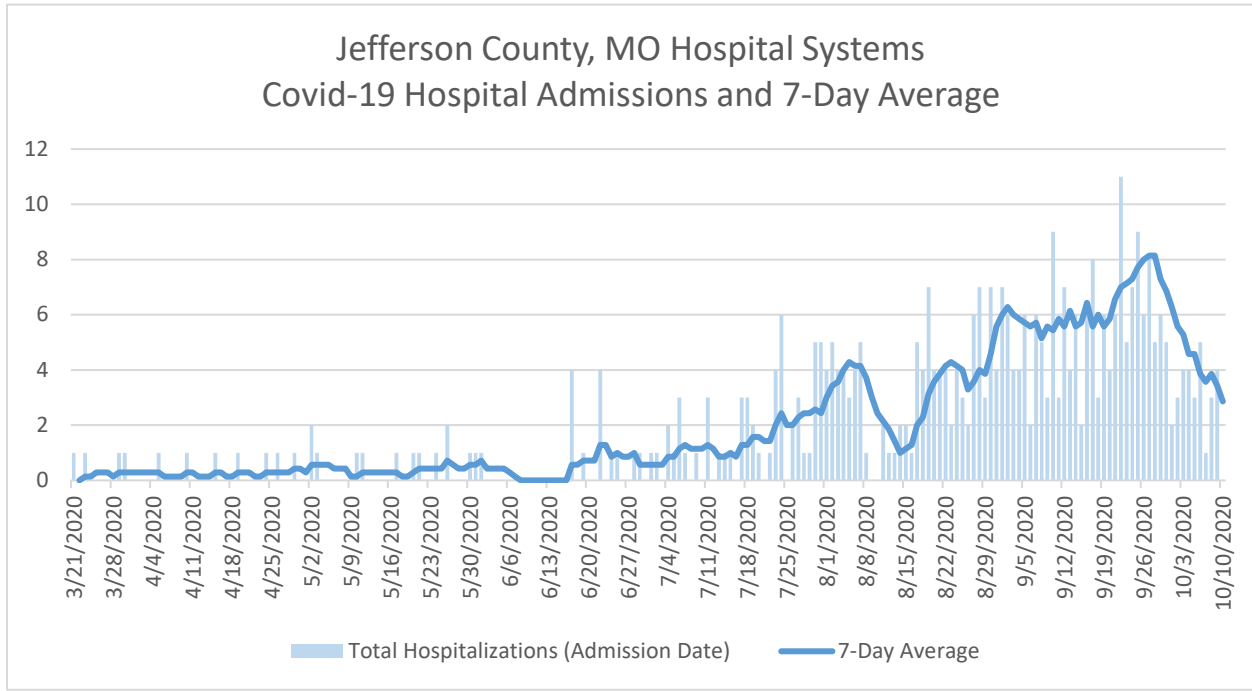


Figure 2. Covid-19 Hospitalizations by Age Group, Jefferson County, Missouri

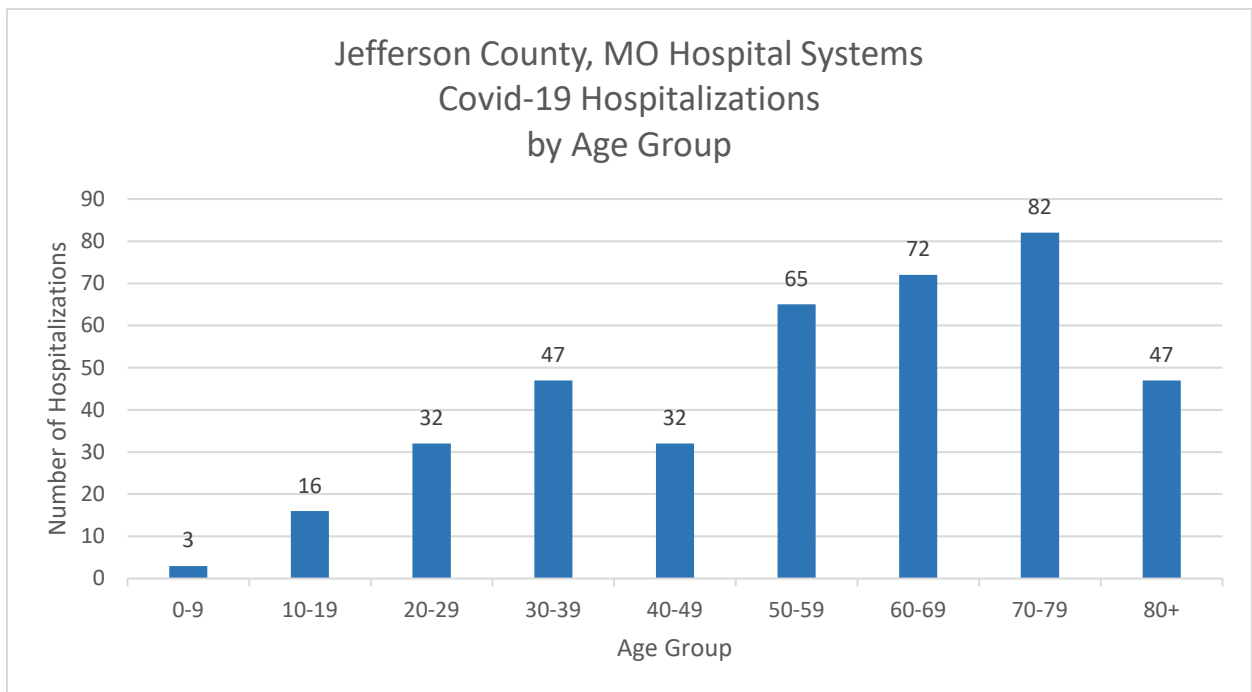


Figure 3. Length of Hospital Stay for Covid-19 Patients, Jefferson County, Missouri

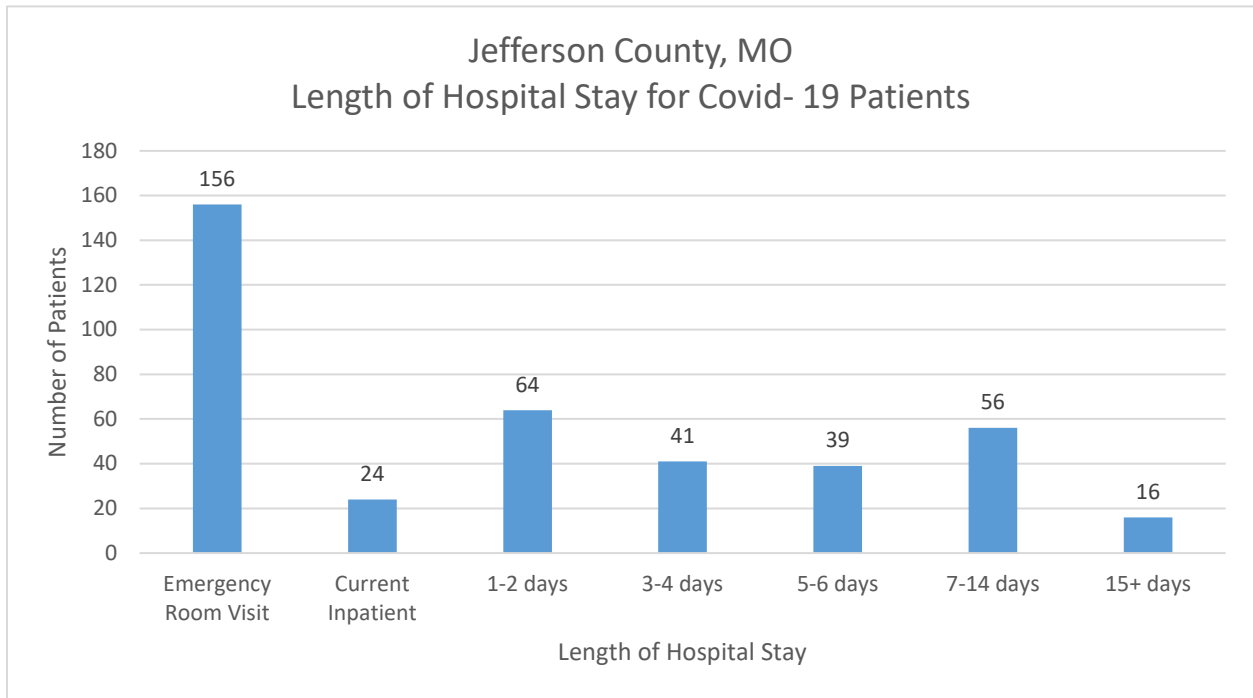
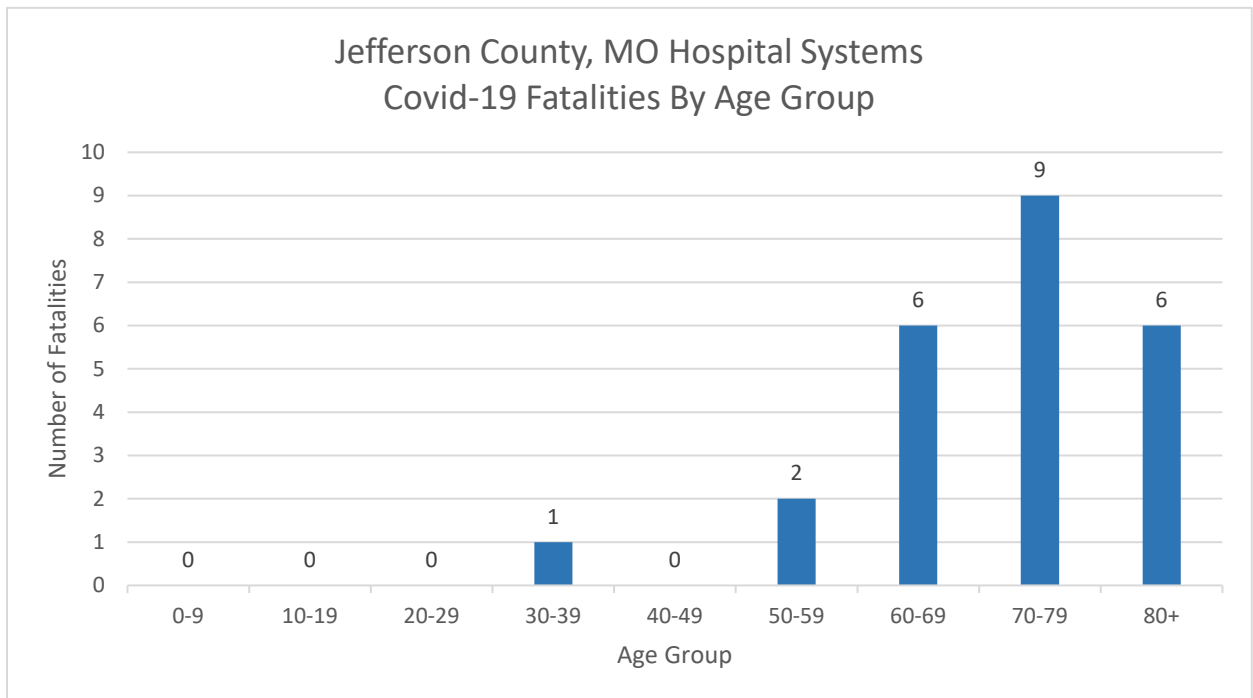


Figure 4. Covid-19 Fatalities by Age Group, Jefferson County, Missouri





Champion positive health outcomes and behaviors through innovative programs and community engagement

Jefferson County, Missouri
Covid-19 Surveillance Report
School Aged Population

Week 41: October 4- October 10

All data are preliminary and may change as more reports are received.

SUMMARY:

- During Week 41 a total of 34 confirmed and probable Covid-19 cases were reported in Jefferson County for the 0-19 year age group. A year-to-date total of 705 confirmed and probable Covid-19 cases have been reported in 0-19 year age group in Jefferson County, Missouri.
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Table 1. Number of Confirmed and Probable Covid-19
Cases by Week, 0-19 Year Age Group,
Jefferson County, Missouri

CDC Week	CDC Week Start Date	Covid-19 Cases	Cumulative Covid-19 Case Total
12	3/15/2020	0	0
13	3/22/2020	2	2
14	3/29/2020	0	2
15	4/5/2020	0	2
16	4/12/2020	0	2
17	4/19/2020	1	3
18	4/26/2020	1	4
19	5/3/2020	0	4
20	5/10/2020	0	4
21	5/17/2020	0	4
22	5/24/2020	0	4
23	5/31/2020	1	5
24	6/7/2020	1	6
25	6/14/2020	5	11
26	6/21/2020	4	15
27	6/28/2020	4	19
28	7/5/2020	25	44
29	7/12/2020	22	66
30	7/19/2020	34	100
31	7/26/2020	36	136
32	8/2/2020	36	172
33	8/9/2020	37	209
34	8/16/2020	49	258
35	8/23/2020	57	315
36	8/30/2020	73	388
37	9/6/2020	63	451
38	9/13/2020	95	546
39	9/20/2020	71	617
40	9/27/2020	54	671
41	10/4/2020	34	705

Figure 1. Number of Confirmed and Probable Covid-19 Cases by Week, 0-19 Year Age Group, Jefferson County, Missouri

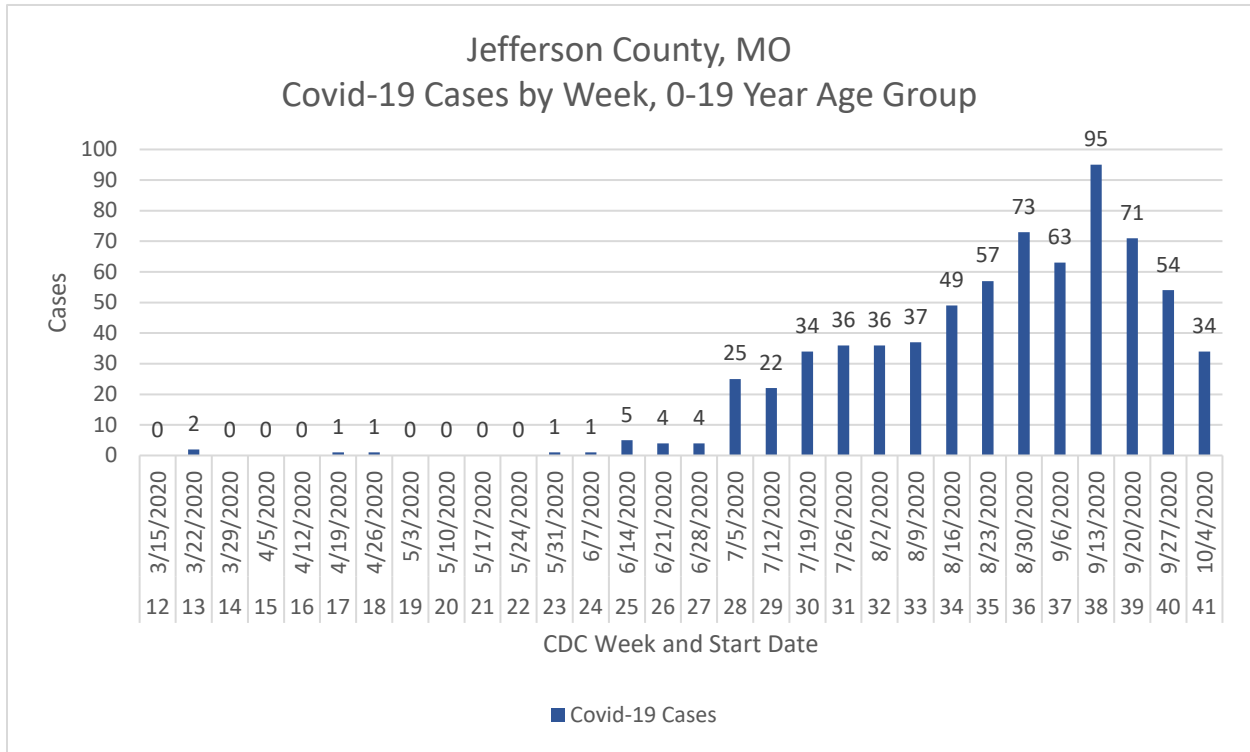


Table 2. Covid-19 Cases by Age Group, Jefferson County, Missouri

Age Group	Cases	Percent
0-9	168	3.25%
10-19	537	10.38%
20+	4447	85.97%

Figure 2. Covid-19 Cases by Zip Code, 0-19 Year Age Group, Jefferson County, Missouri

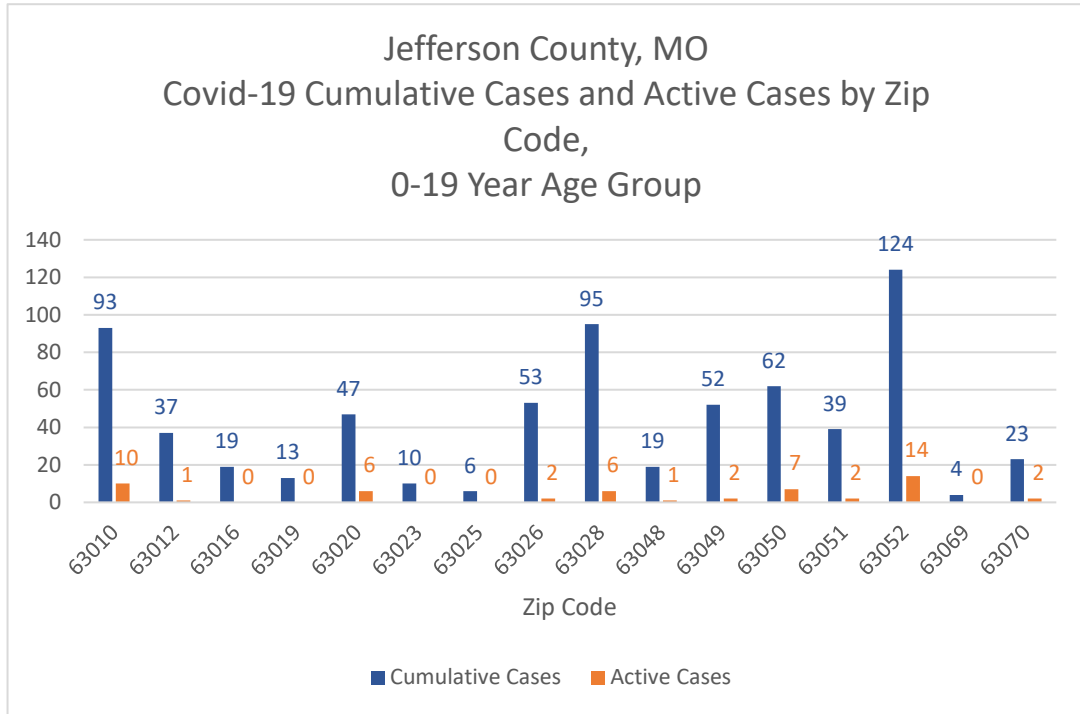


Figure 3. Covid-19 Cases by Age-Based Grade Levels, Jefferson County, Missouri

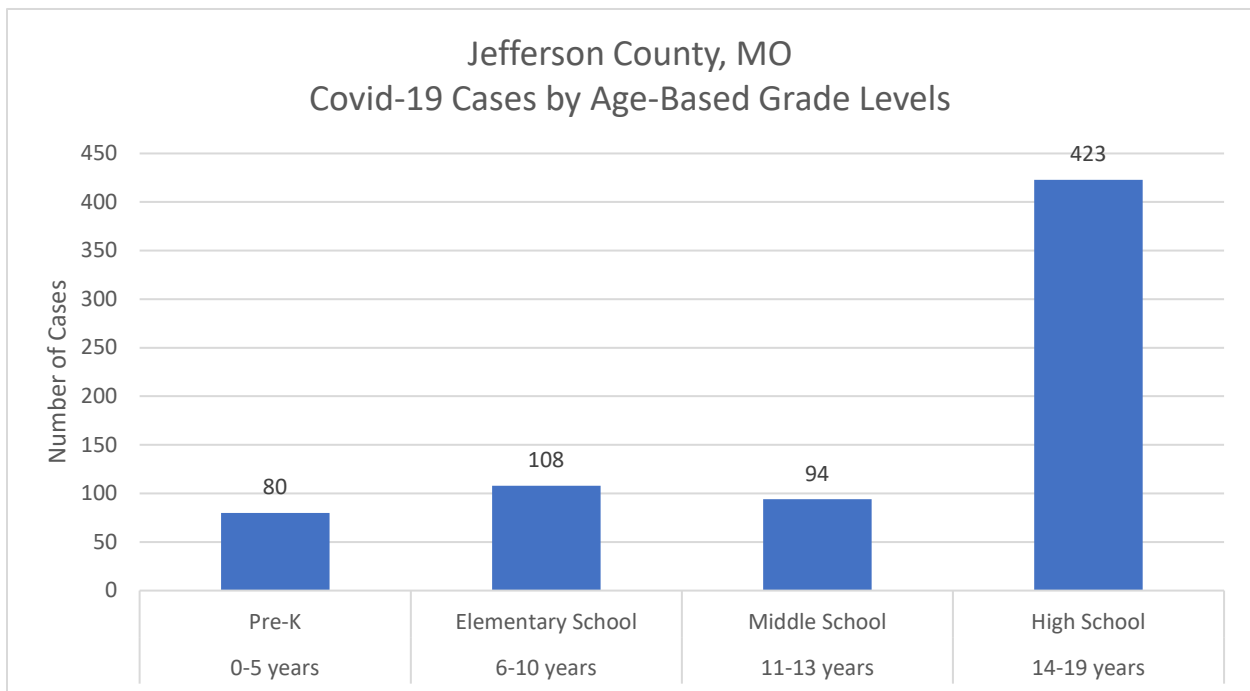


Figure 4. Daily Covid-19 Cases and 7-Day Rolling Average by Age-Based Grade Levels, Pre-K Age Group, Jefferson County, Missouri

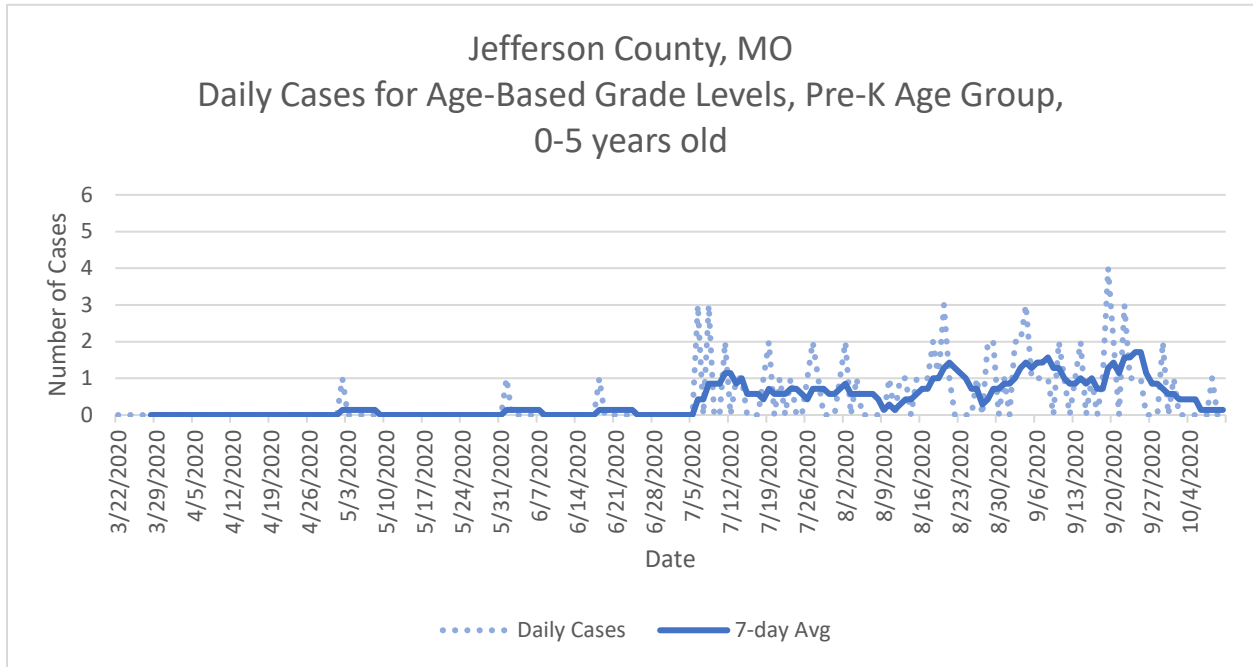


Figure 5. Daily Covid-19 Cases and 7-Day Rolling Average by Age-Based Grade Levels, Elementary School Age Group, Jefferson County, Missouri

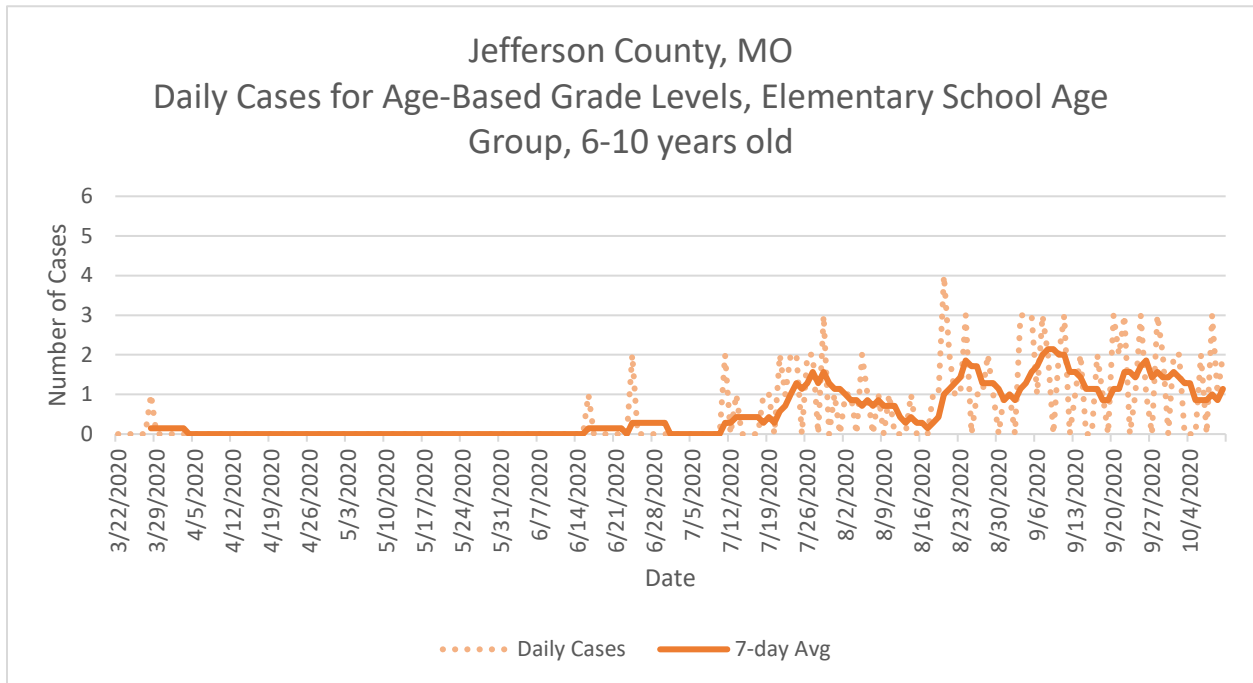


Figure 6. Daily Covid-19 Cases and 7-Day Rolling Average by Age-Based Grade Levels, Middle School Age Group Jefferson County, Missouri

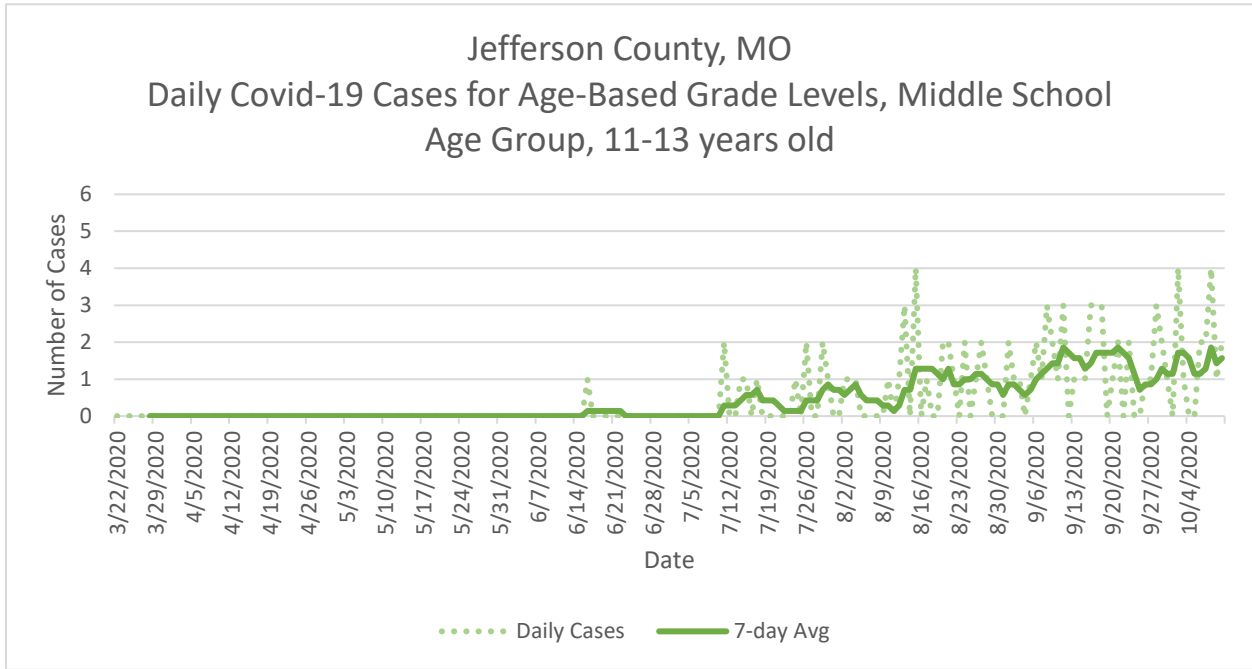


Figure 7. Daily Covid-19 Cases and 7-Day Rolling Average by Age-Based Grade Levels, High School Age Group Jefferson County, Missouri

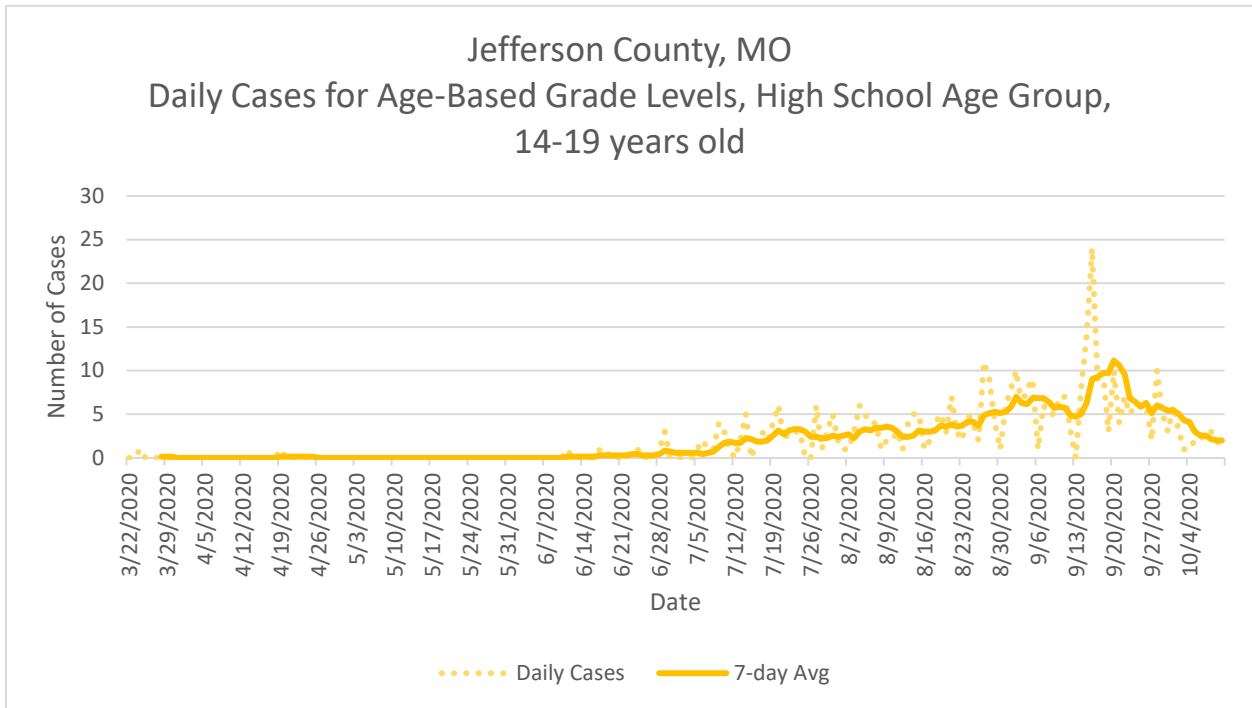


Figure 8. Overlay of 7-Day Rolling Average of Daily Covid-19 Cases for all Age-Based Grade Levels Jefferson County, Missouri

