



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 39: September 20- September 26

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

SUMMARY:

- During Week 39 a total of 443 confirmed and probable Covid-19 cases were reported in Jefferson County. A year-to-date total of 4431 confirmed and probable Covid-19 cases have been reported in Jefferson County as of Week 39.
- Sixty-one Covid-19 associated deaths have been reported in Jefferson County as of Week 39.
- 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 | 24 | 304 |
| 20 | 5/10/2020 | 23 | 327 |
| 21 | 5/17/2020 | 14 | 341 |
| 22 | 5/24/2020 | 16 | 357 |
| 23 | 5/31/2020 | 55 | 412 |
| 24 | 6/7/2020 | 15 | 427 |
| 25 | 6/14/2020 | 32 | 459 |
| 26 | 6/21/2020 | 62 | 521 |
| 27 | 6/28/2020 | 40 | 561 |
| 28 | 7/5/2020 | 163 | 724 |
| 29 | 7/12/2020 | 172 | 896 |
| 30 | 7/19/2020 | 250 | 1146 |
| 31 | 7/26/2020 | 297 | 1443 |
| 32 | 8/2/2020 | 324 | 1767 |
| 33 | 8/9/2020 | 314 | 2081 |
| 34 | 8/16/2020 | 295 | 2376 |
| 35 | 8/23/2020 | 373 | 2749 |
| 36 | 8/30/2020 | 398 | 3147 |
| 37 | 9/6/2020 | 344 | 3491 |
| 38 | 9/13/2020 | 497 | 3988 |
| 39 | 9/20/2020 | 443 | 4431 |

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

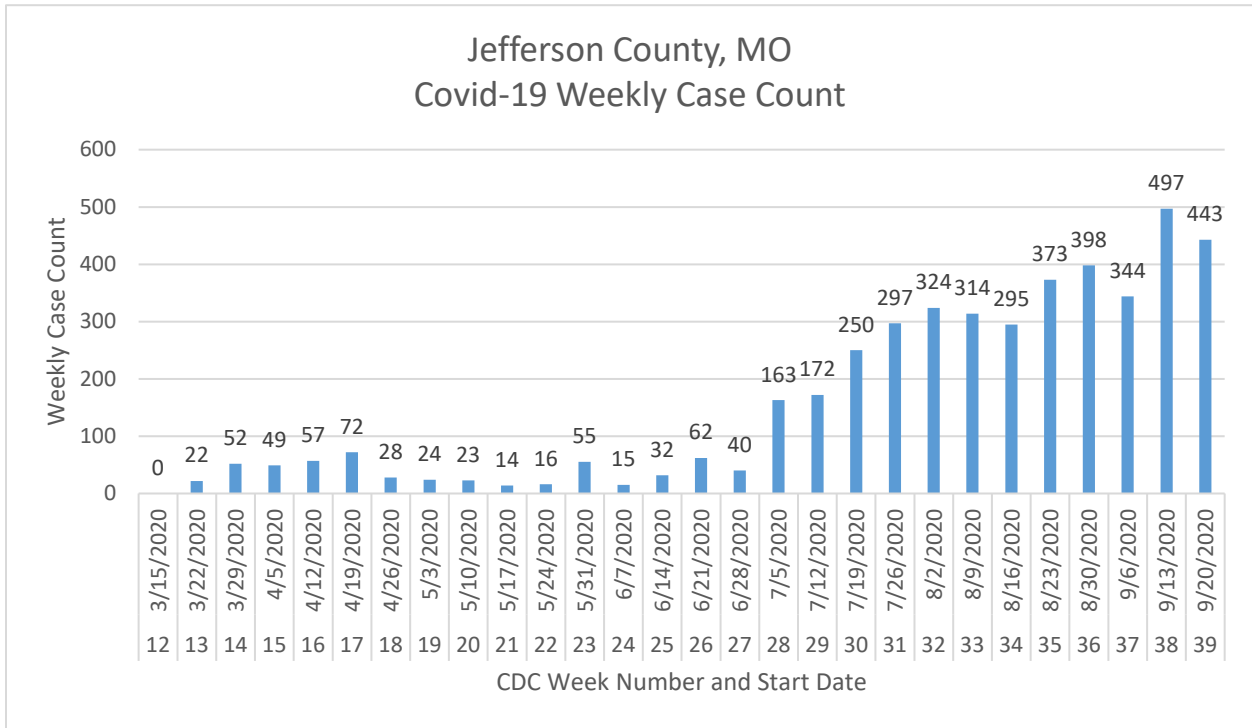


Figure 2. Cumulative Confirmed and Probable Covid-19 Cases by Week, Jefferson County, Missouri

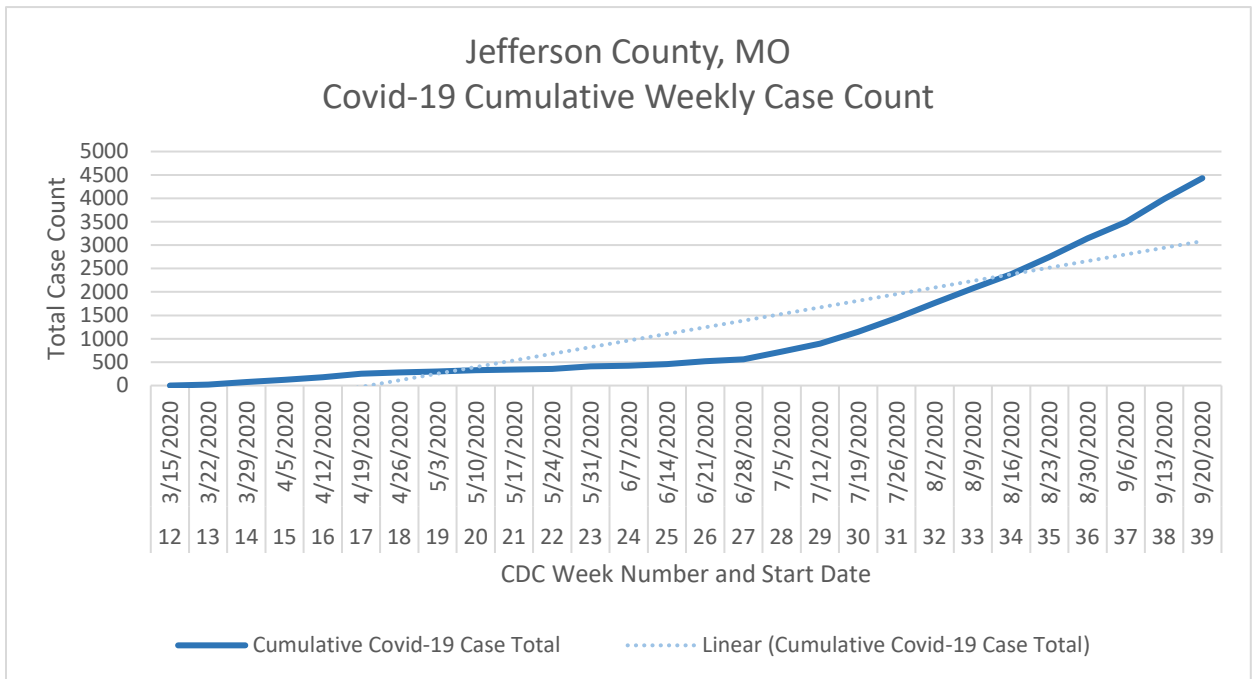


Figure 3. Covid-19 Daily Case Count and 7-Day Average, Jefferson County, Missouri

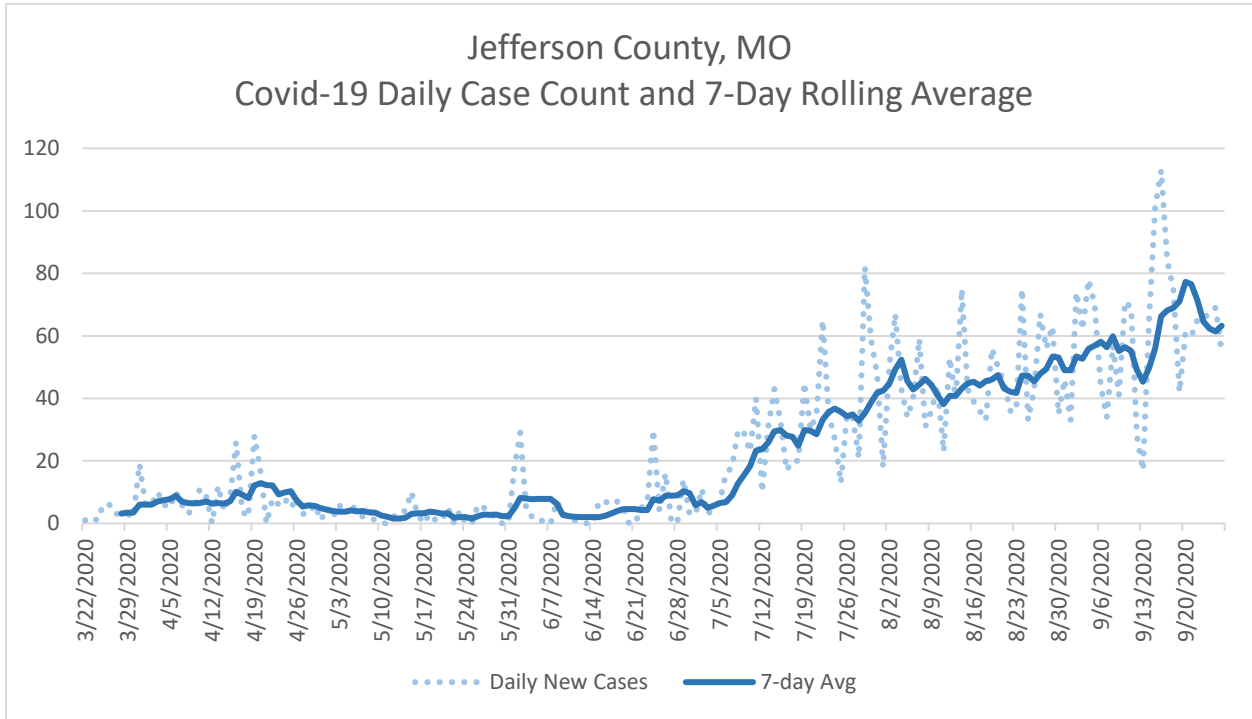


Figure 4. Confirmed and Probable Covid-19 Cases and Age-Adjusted Case Rates, Jefferson County, Missouri

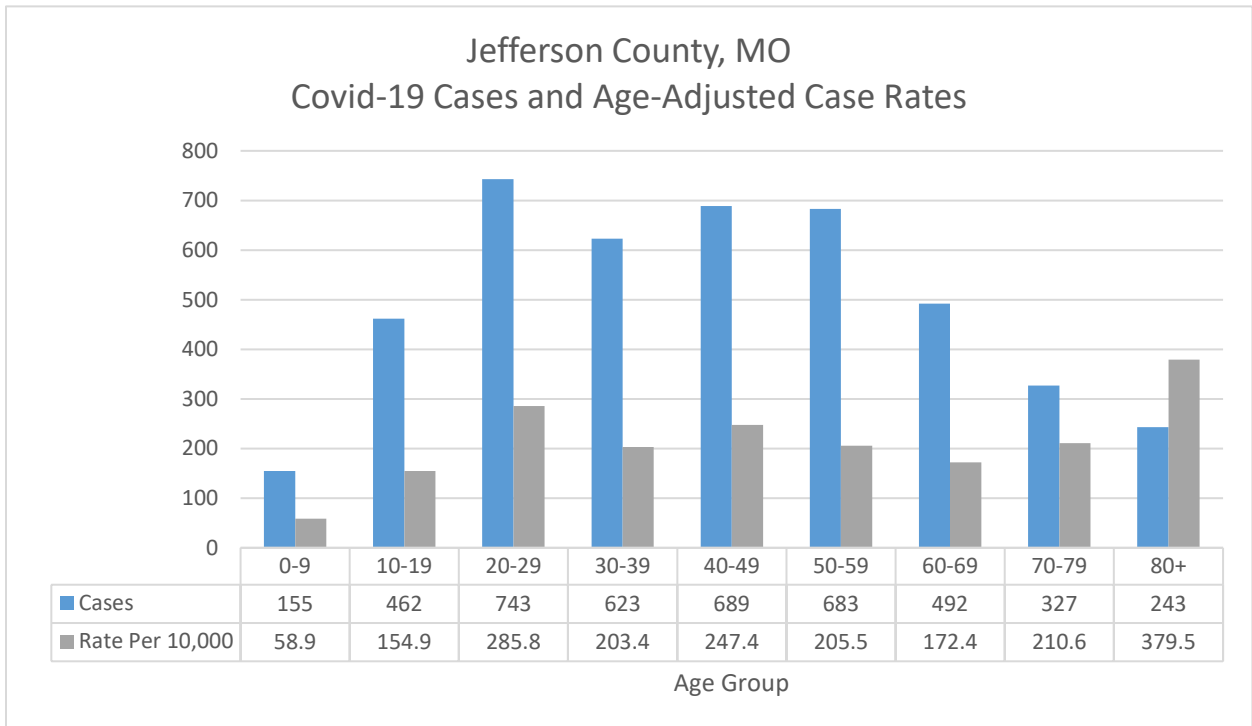


Figure 5. Covid-19 Fatalities and Fatality Rates by Age Group, Jefferson County, Missouri

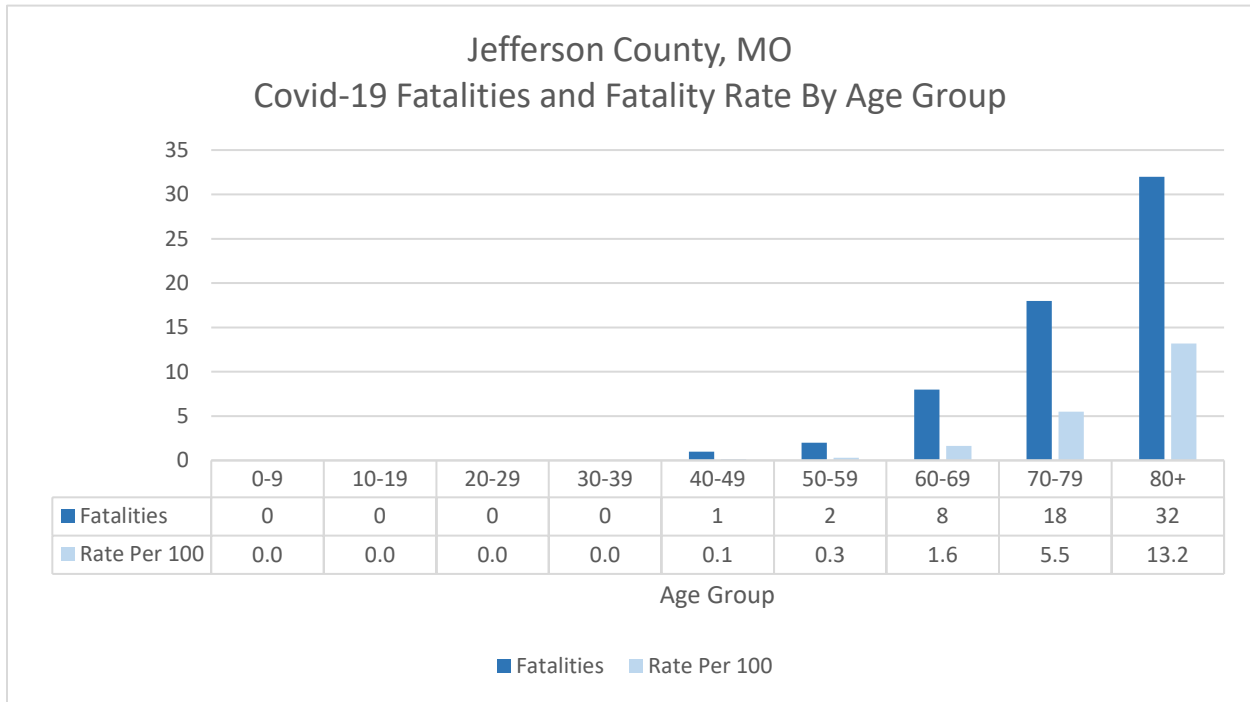


Table 2. Approximate Covid-19 Cumulative Fatality Rates

| | |
|------------------|-------|
| Jefferson County | 1.38% |
| Missouri | 1.67% |
| US | 2.89% |

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

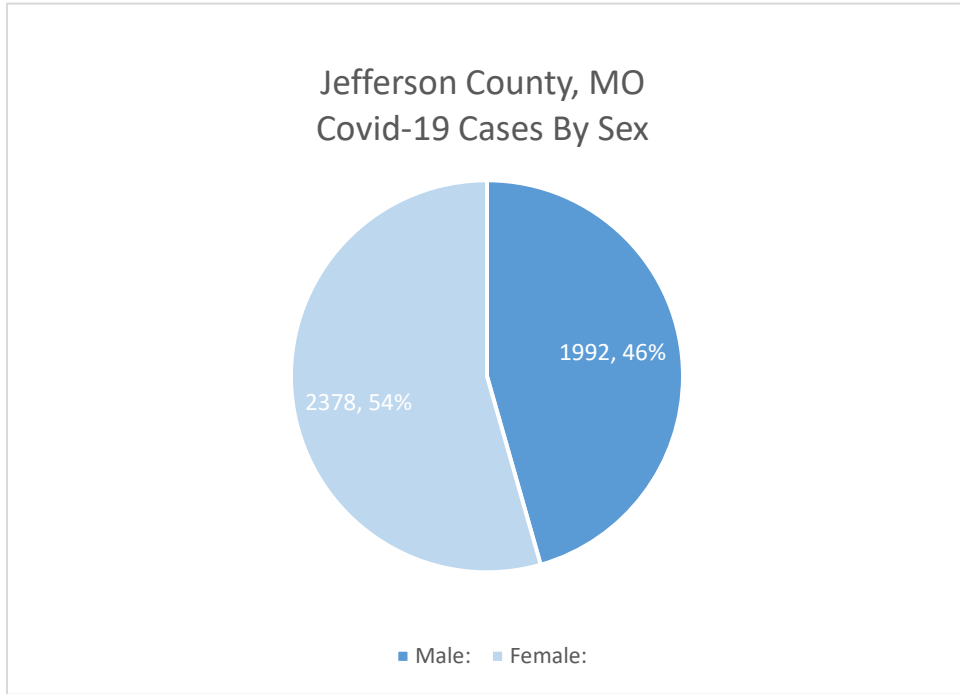


Figure 7. Covid-19 PCR Test Results by Week, Jefferson County, Missouri

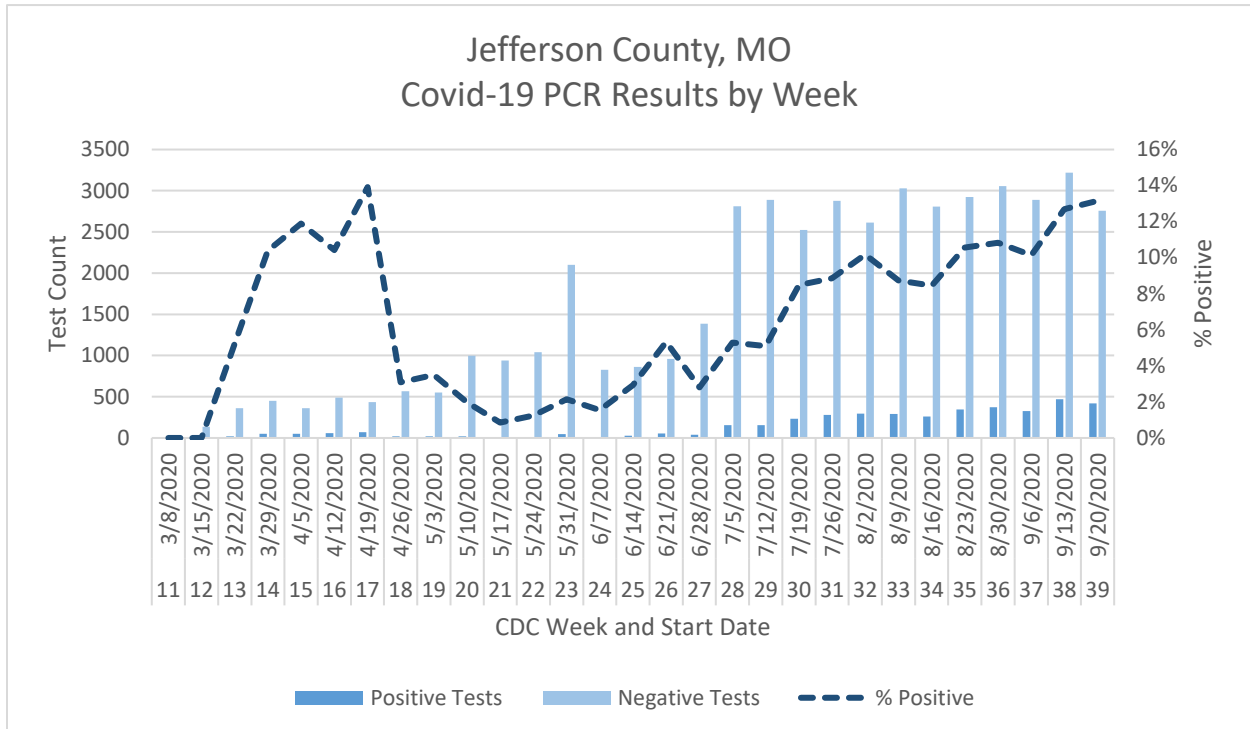


Table 3. Covid-19 PCR Test Results and Percent Positive
by Week, Jefferson County, Missouri

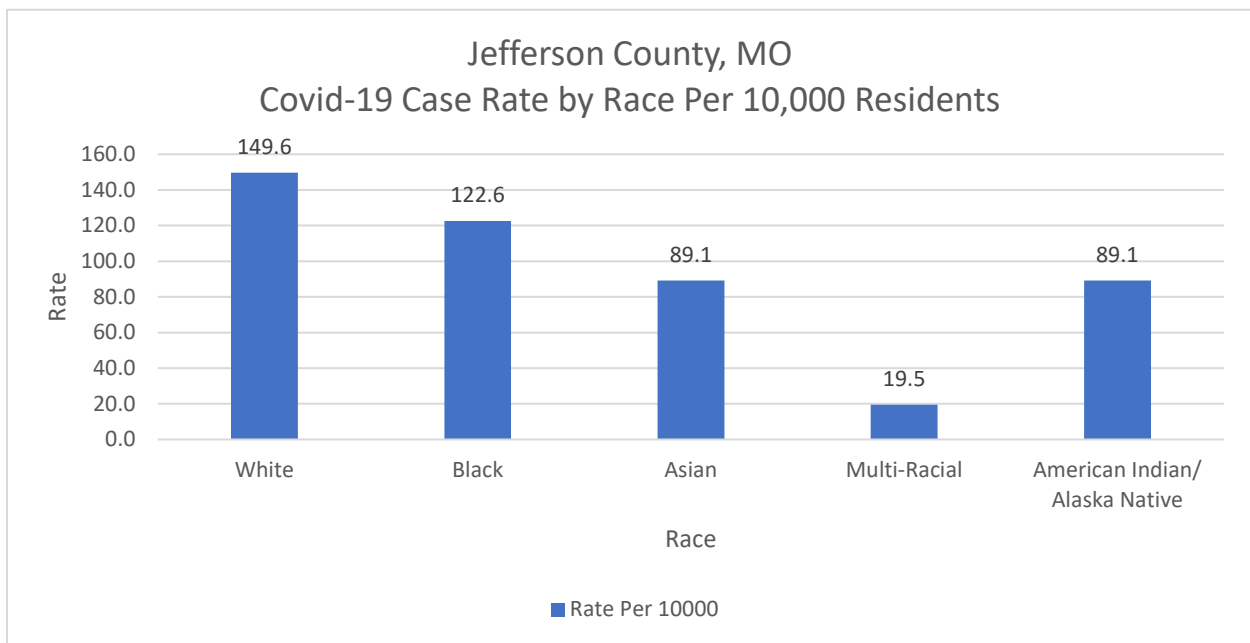
| CDC Week | CDC Week Start Date | Positive Tests | Negative Tests | Total Tests | % Positive |
|----------|---------------------|----------------|----------------|-------------|------------|
| 11 | 3/8/2020 | 0 | 7 | 7 | 0.0% |
| 12 | 3/15/2020 | 0 | 137 | 137 | 0.0% |
| 13 | 3/22/2020 | 20 | 361 | 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 | 20 | 553 | 573 | 3.5% |
| 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 | 280 | 2878 | 3158 | 8.9% |
| 32 | 8/2/2020 | 296 | 2615 | 2911 | 10.2% |
| 33 | 8/9/2020 | 290 | 3030 | 3320 | 8.7% |
| 34 | 8/16/2020 | 259 | 2807 | 3066 | 8.4% |
| 35 | 8/23/2020 | 345 | 2923 | 3268 | 10.6% |
| 36 | 8/30/2020 | 371 | 3057 | 3428 | 10.8% |
| 37 | 9/6/2020 | 326 | 2889 | 3215 | 10.1% |
| 38 | 9/13/2020 | 468 | 3220 | 3688 | 12.7% |
| 39 | 9/20/2020 | 418 | 2759 | 3177 | 13.2% |

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

| Race | Cases | Rate Per 10000 |
|-----------------------------------|-------|----------------|
| White | 3226 | 149.6 |
| Black | 33 | 122.6 |
| Asian | 16 | 89.1 |
| Multi-Racial | 7 | 19.5 |
| American Indian/ Alaska Native | 6 | 89.1 |
| Unknown | 184 | 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

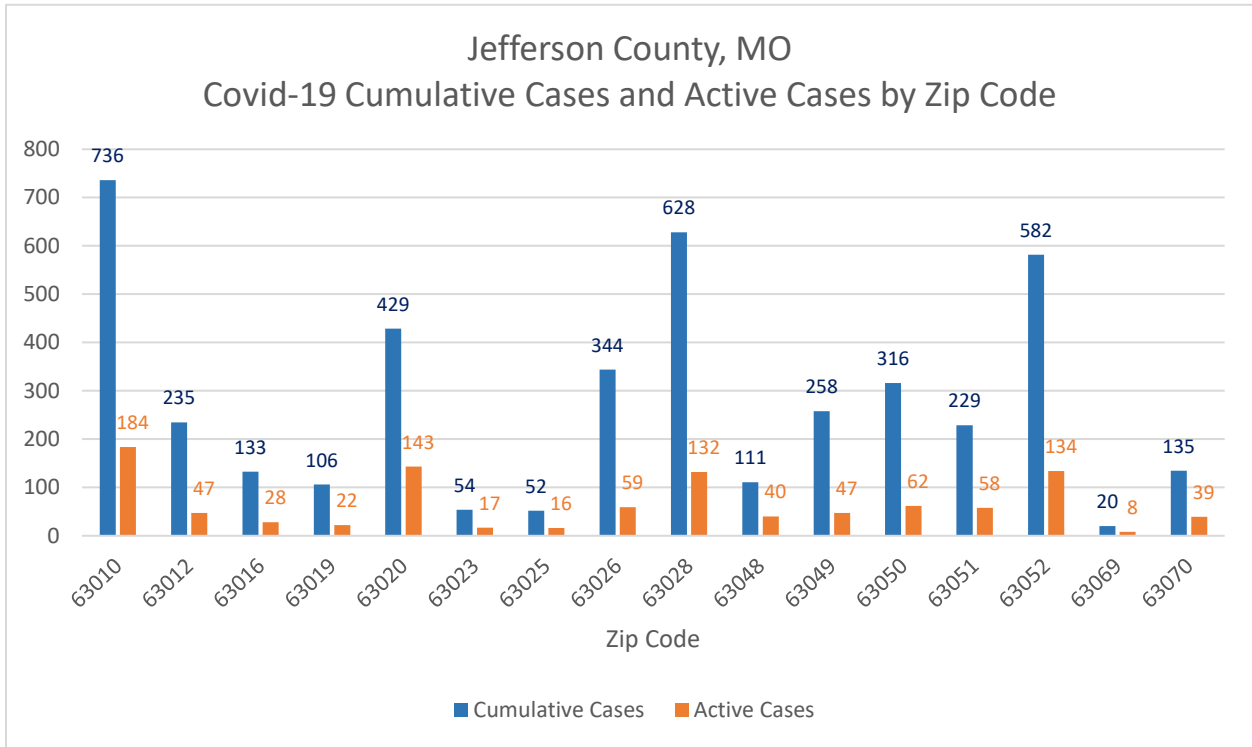
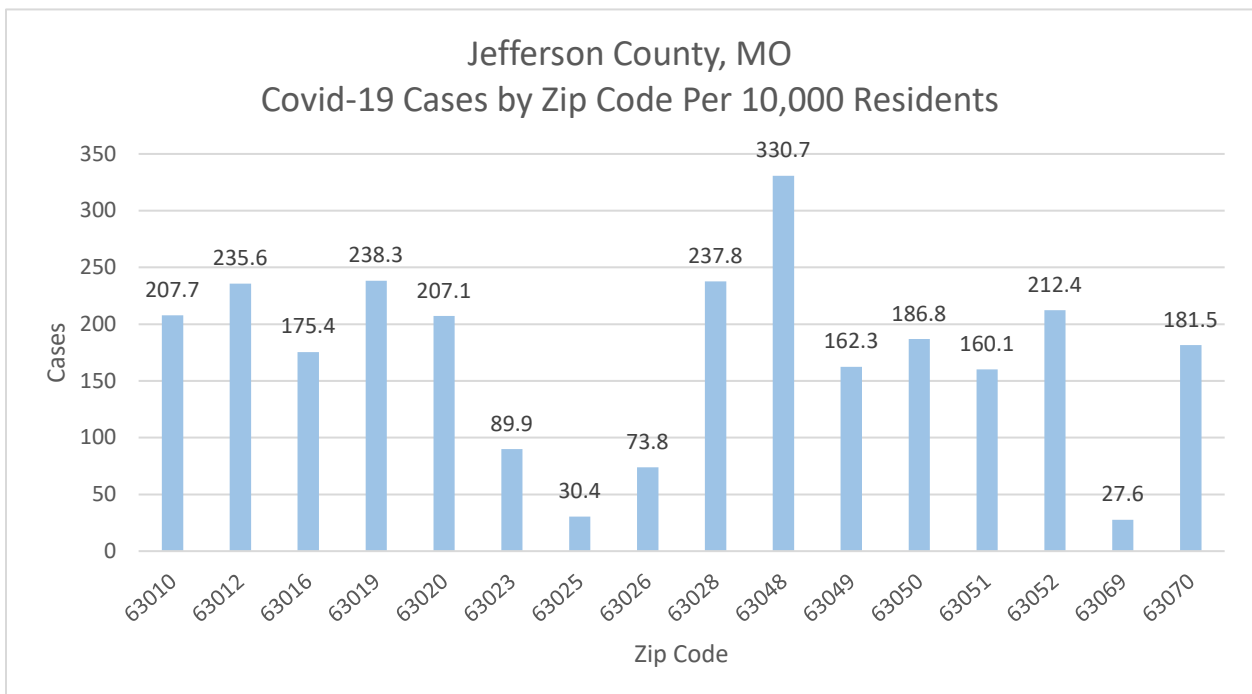


Figure 10. Covid-19 Cases by Zip Code Per 10,000 Residents, Jefferson County, Missouri





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

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

Week 39: September 20- September 26

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

SUMMARY:

-This is a revised version of the Week 39 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 | 15 | 194 |
| 20 | 5/10/2020 | 11 | 205 |
| 21 | 5/17/2020 | 10 | 215 |
| 22 | 5/24/2020 | 11 | 226 |
| 23 | 5/31/2020 | 29 | 255 |
| 24 | 6/7/2020 | 13 | 268 |
| 25 | 6/14/2020 | 31 | 299 |
| 26 | 6/21/2020 | 35 | 334 |
| 27 | 6/28/2020 | 39 | 373 |
| 28 | 7/5/2020 | 158 | 531 |
| 29 | 7/12/2020 | 167 | 698 |
| 30 | 7/19/2020 | 196 | 894 |
| 31 | 7/26/2020 | 246 | 1140 |
| 32 | 8/2/2020 | 299 | 1439 |
| 33 | 8/9/2020 | 273 | 1712 |
| 34 | 8/16/2020 | 265 | 1977 |
| 35 | 8/23/2020 | 315 | 2292 |
| 36 | 8/30/2020 | 372 | 2664 |
| 37 | 9/6/2020 | 315 | 2979 |
| 38 | 9/13/2020 | 474 | 3453 |
| 39 | 9/20/2020 | 417 | 3870 |

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

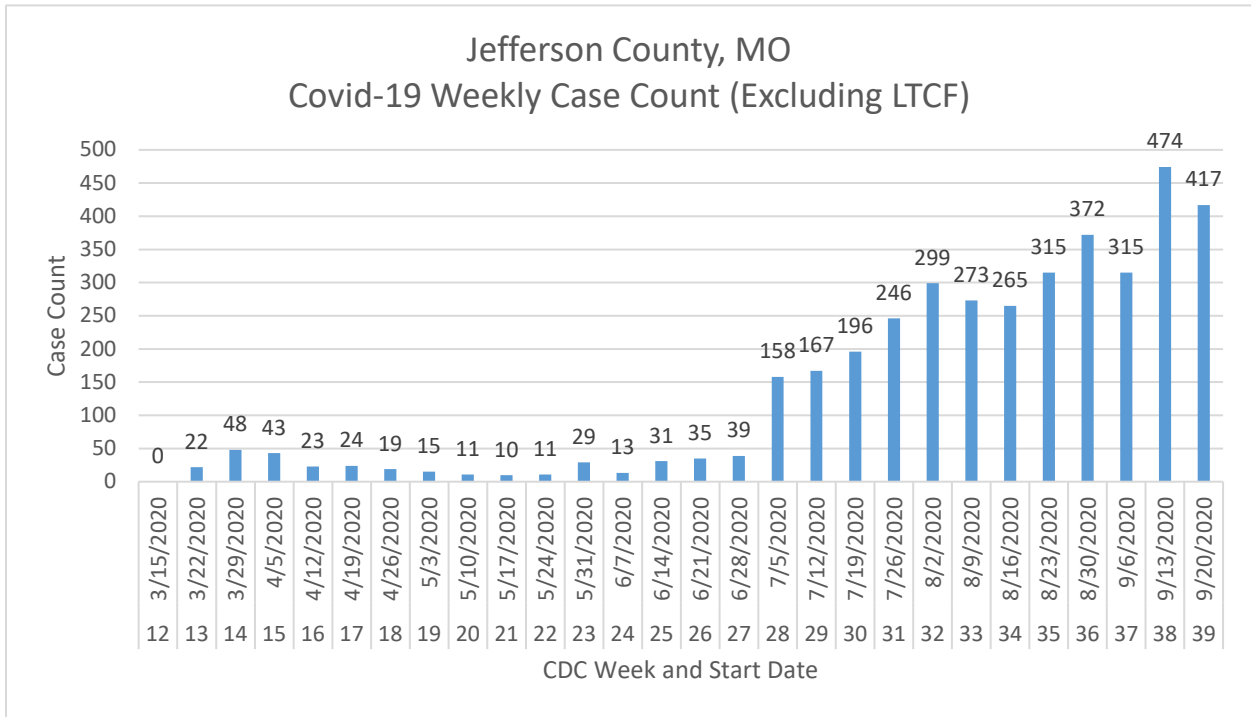


Figure 2. Cumulative Confirmed and Probable Covid-19 Cases by Week (Excluding LTCFs), Jefferson County, Missouri

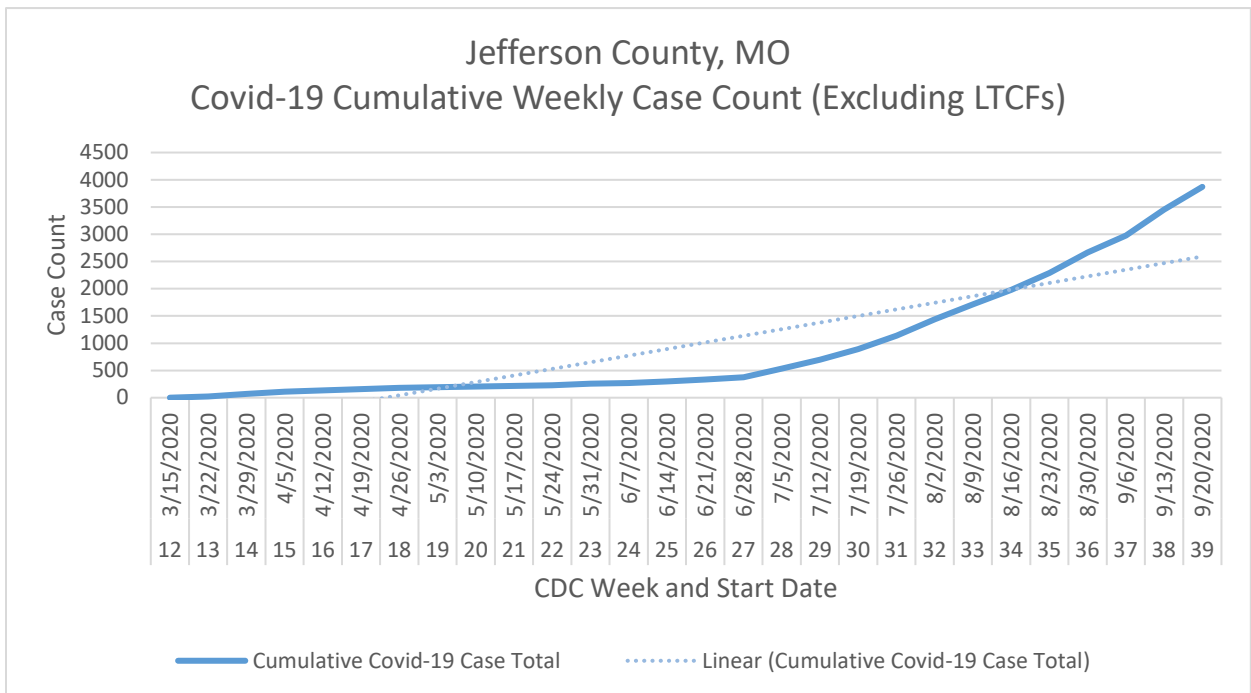


Figure 3. Covid-19 Daily Case Count and 7-Day Average (Excluding LTCFs), Jefferson County, Missouri

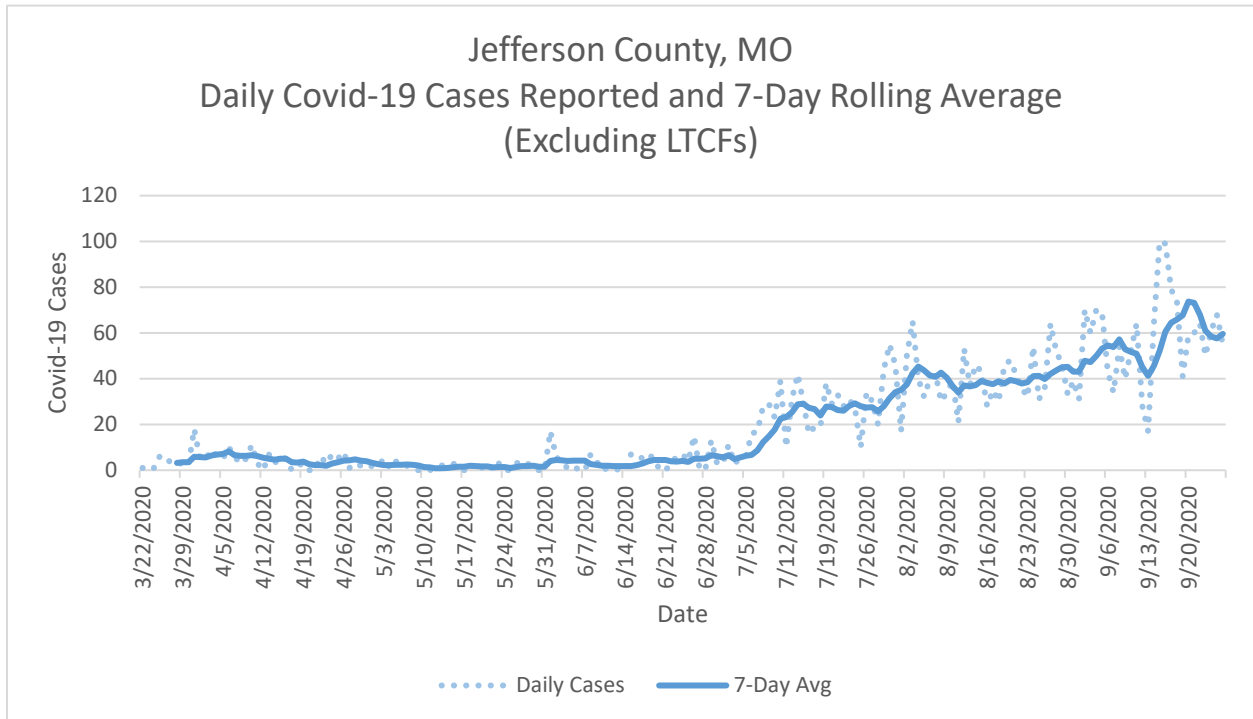


Figure 4. Confirmed and Probable Covid-19 Cases and Age-Adjusted Case Rates (Excluding LTCFs), Jefferson County, Missouri

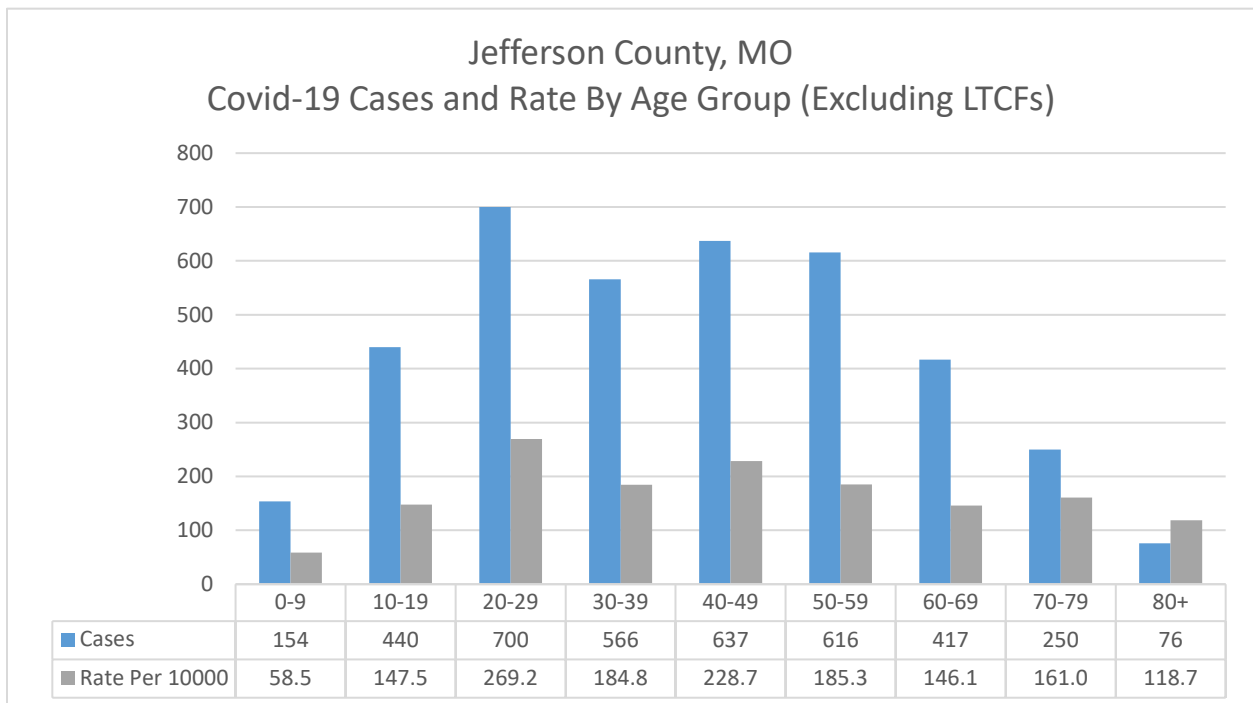


Figure 5. Covid-19 Fatalities and Fatality Rates by Age Group (Excluding LTCFs), Jefferson County, Missouri

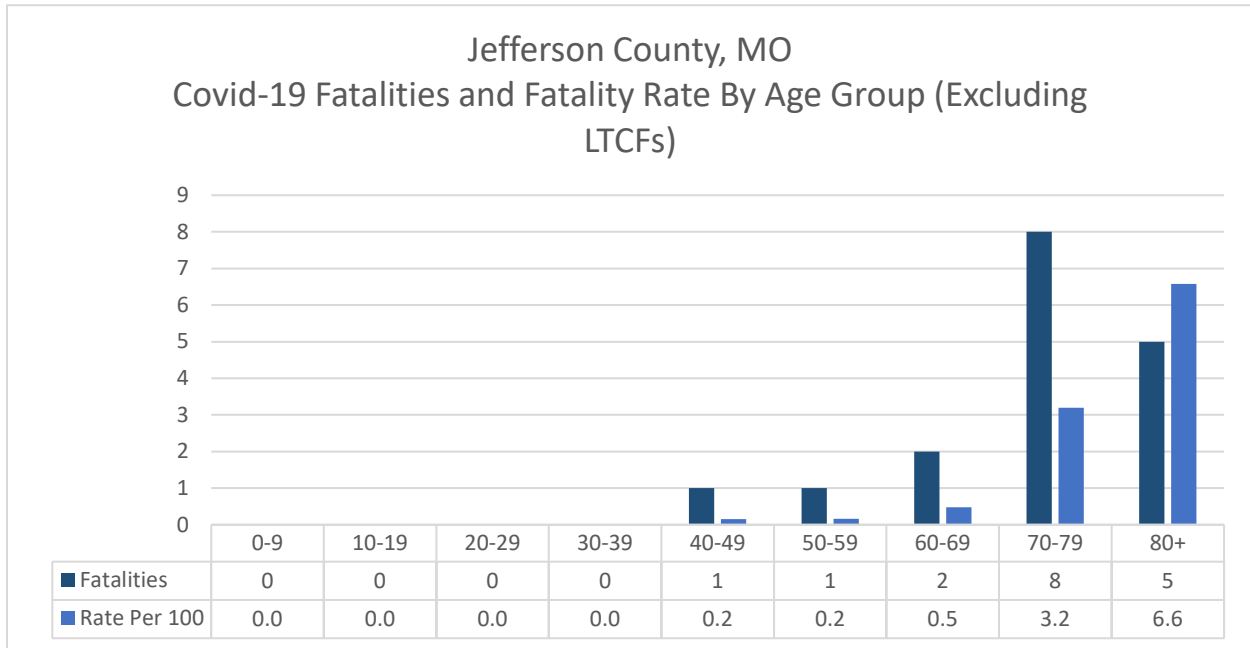


Table 2. Approximate Covid-19 Cumulative Fatality Rates (Excluding LTCFs)*

| | |
|-------------------------|-------------|
| Jefferson County | .44% |
| | |
| | |

*Missouri and United States data unavailable

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

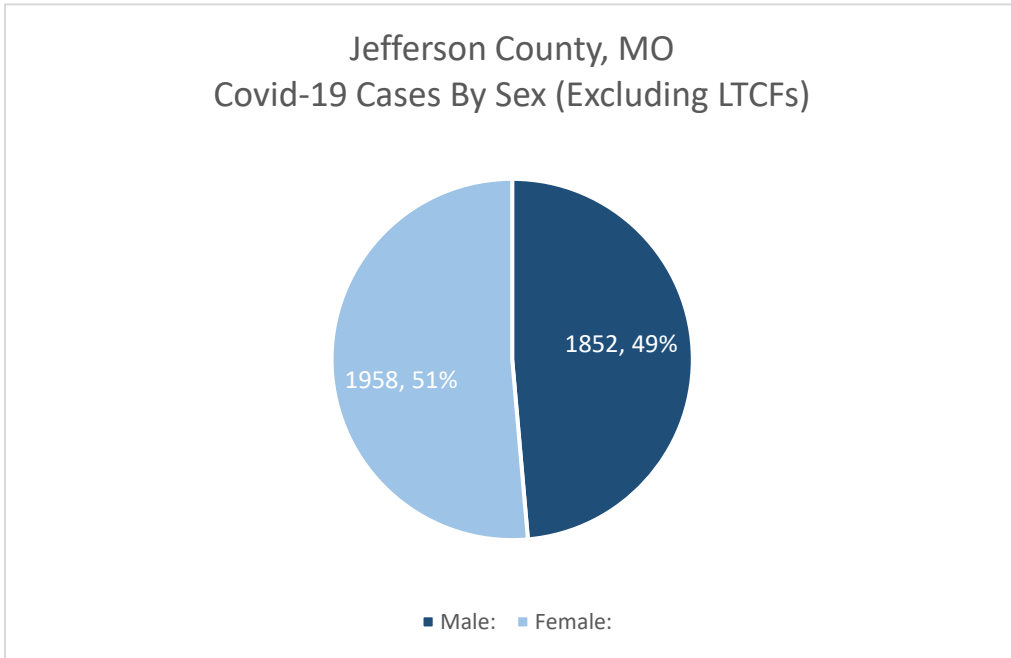


Figure 7. Covid-19 PCR Test Results by Week (Excluding LTCFs), Jefferson County, Missouri

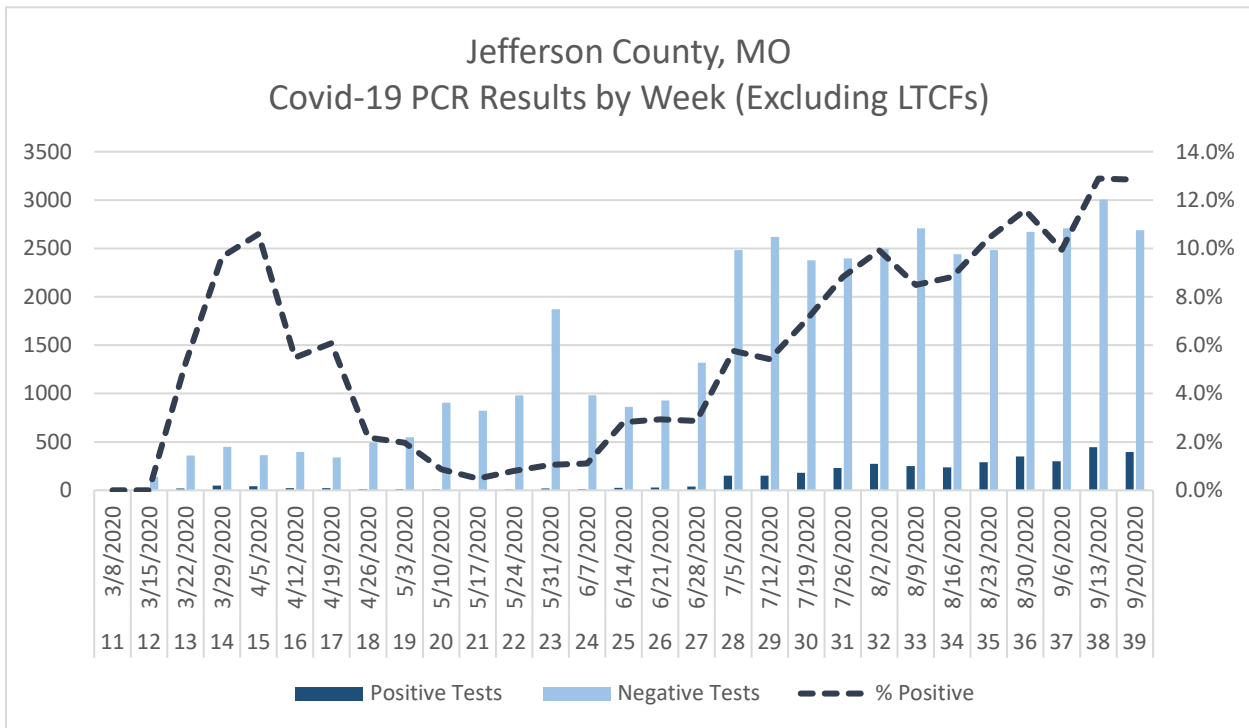


Table 3. Covid-19 PCR Test Results and Percent Positive
by Week, Jefferson County (Excluding LTCFs),
Missouri

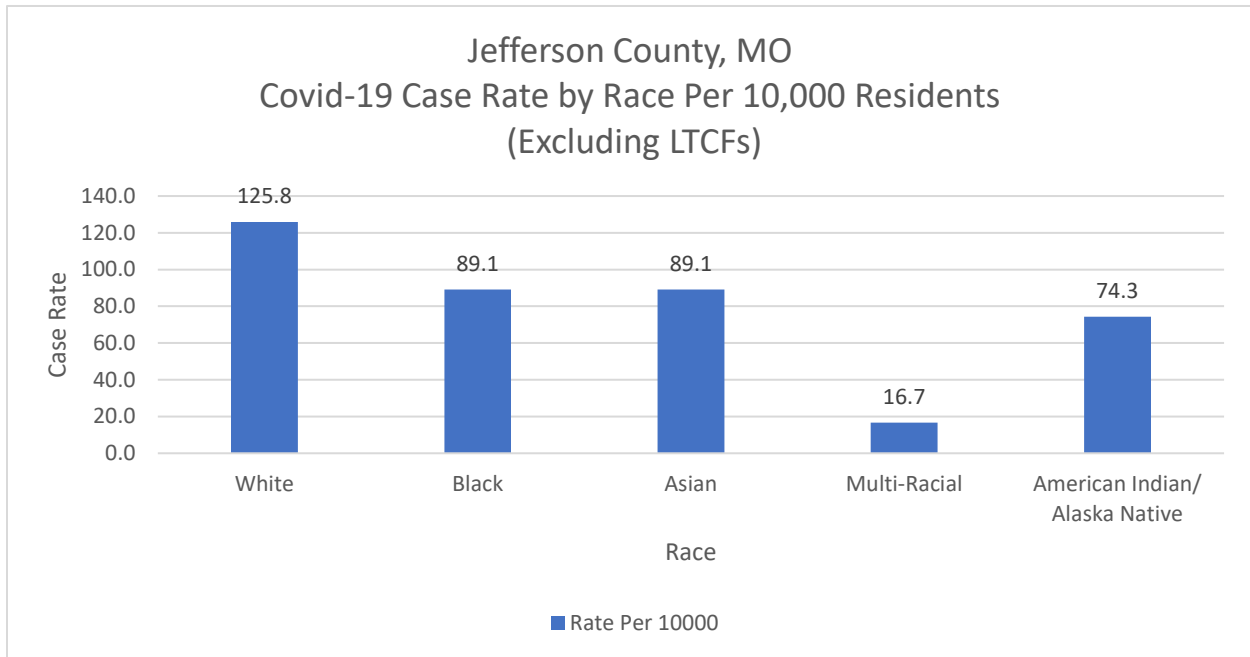
| CDC Week | CDC Week Start Date | Positive Tests | Negative Tests | Total Tests | % Positive |
|----------|---------------------|----------------|----------------|-------------|------------|
| 11 | 3/8/2020 | 0 | 7 | 7 | 0.0% |
| 12 | 3/15/2020 | 0 | 137 | 137 | 0.0% |
| 13 | 3/22/2020 | 20 | 361 | 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 | 11 | 549 | 560 | 2.0% |
| 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 | 232 | 2396 | 2628 | 8.8% |
| 32 | 8/2/2020 | 275 | 2497 | 2772 | 9.9% |
| 33 | 8/9/2020 | 251 | 2707 | 2958 | 8.5% |
| 34 | 8/16/2020 | 236 | 2440 | 2676 | 8.8% |
| 35 | 8/23/2020 | 289 | 2482 | 2771 | 10.4% |
| 36 | 8/30/2020 | 350 | 2672 | 3022 | 11.6% |
| 37 | 9/6/2020 | 299 | 2708 | 3007 | 9.9% |
| 38 | 9/13/2020 | 445 | 3007 | 3452 | 12.9% |
| 39 | 9/20/2020 | 396 | 2688 | 3084 | 12.8% |

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

| Race | Cases | Rate Per 10000 |
|-----------------------------------|-------|----------------|
| White | 2713 | 125.8 |
| Black | 24 | 89.1 |
| Asian | 16 | 89.1 |
| Multi-Racial | 6 | 16.7 |
| American Indian/ Alaska Native | 5 | 74.3 |
| Unknown | 165 | 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

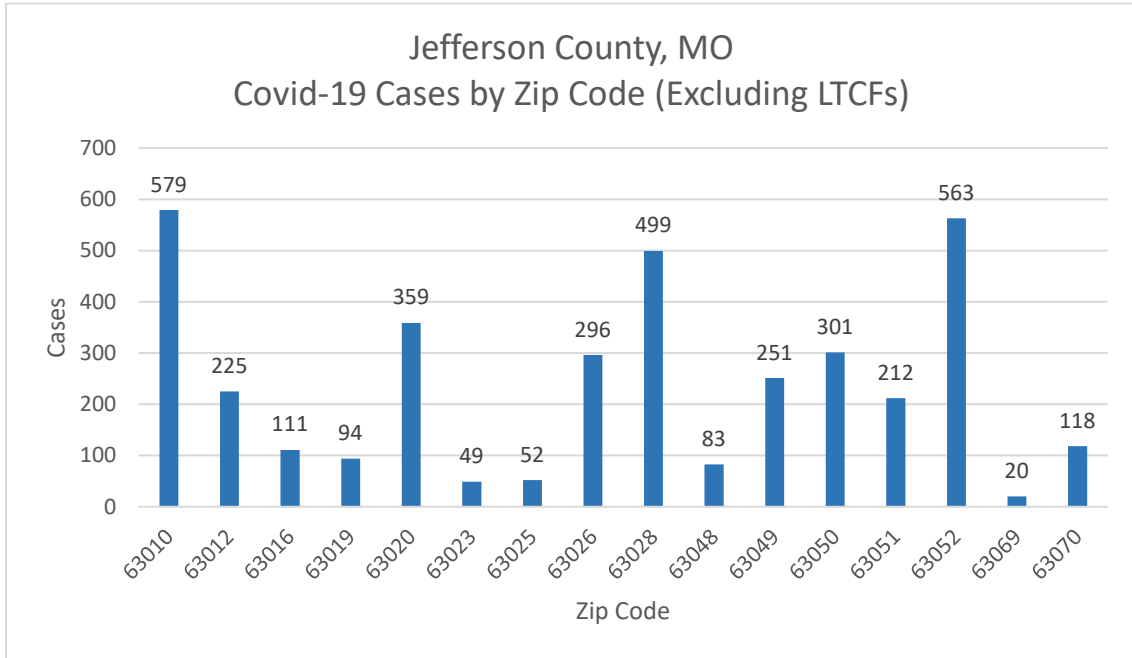
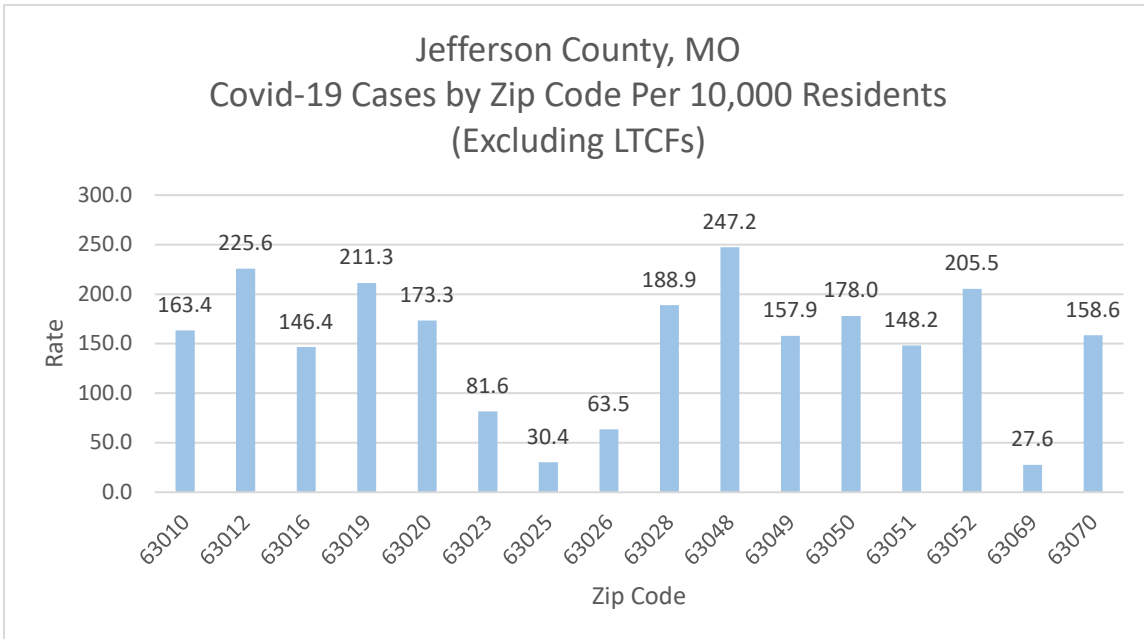


Figure 10. Covid-19 Cases by Zip Code Per 10,000 Residents, Jefferson County (Excluding LTCFs), Missouri





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 332 Covid-19 associated hospitalizations¹ have been reported from hospital systems for Jefferson County, Missouri as of Week 39.²
- A total of 40 positive Covid-19 cases have been admitted to the ICU. Sixteen positive Covid-19 cases required ventilators as of Week 39.
- Eighteen Covid-19 associated fatalities have been reported from hospital systems for Jefferson County, Missouri as of Week 39.

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

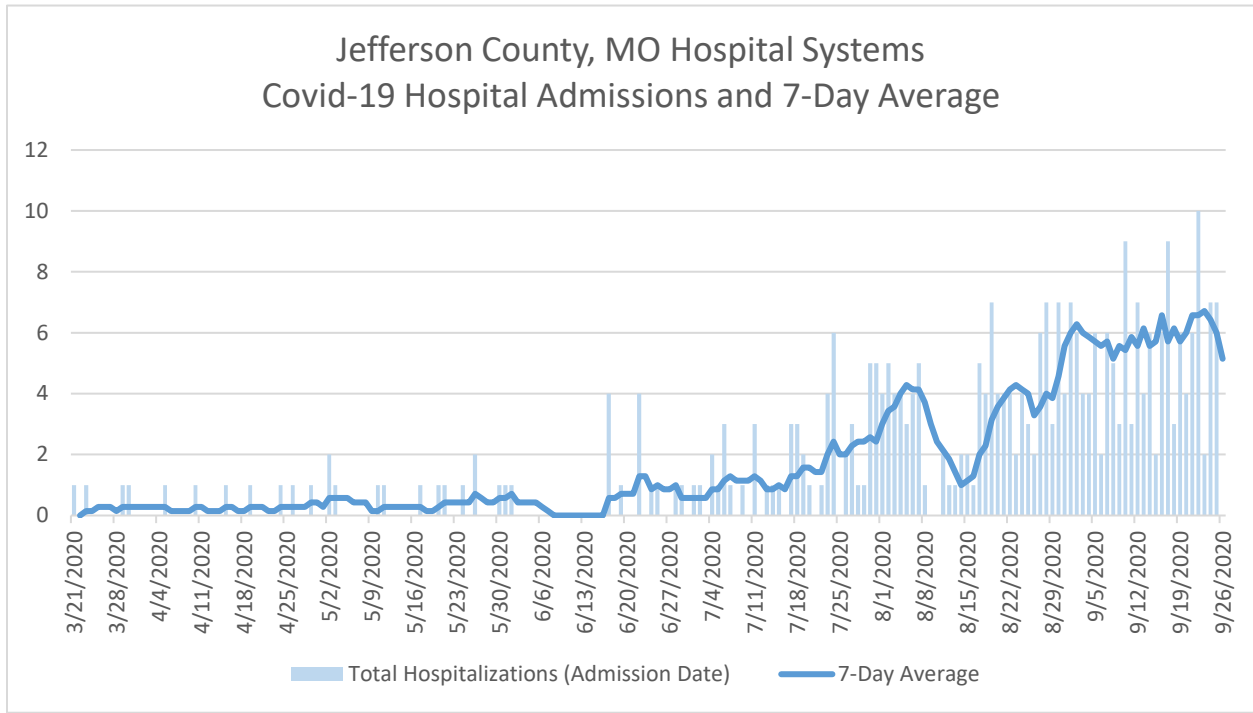


Figure 2. Covid-19 Hospitalizations by Age Group, Jefferson County, Missouri

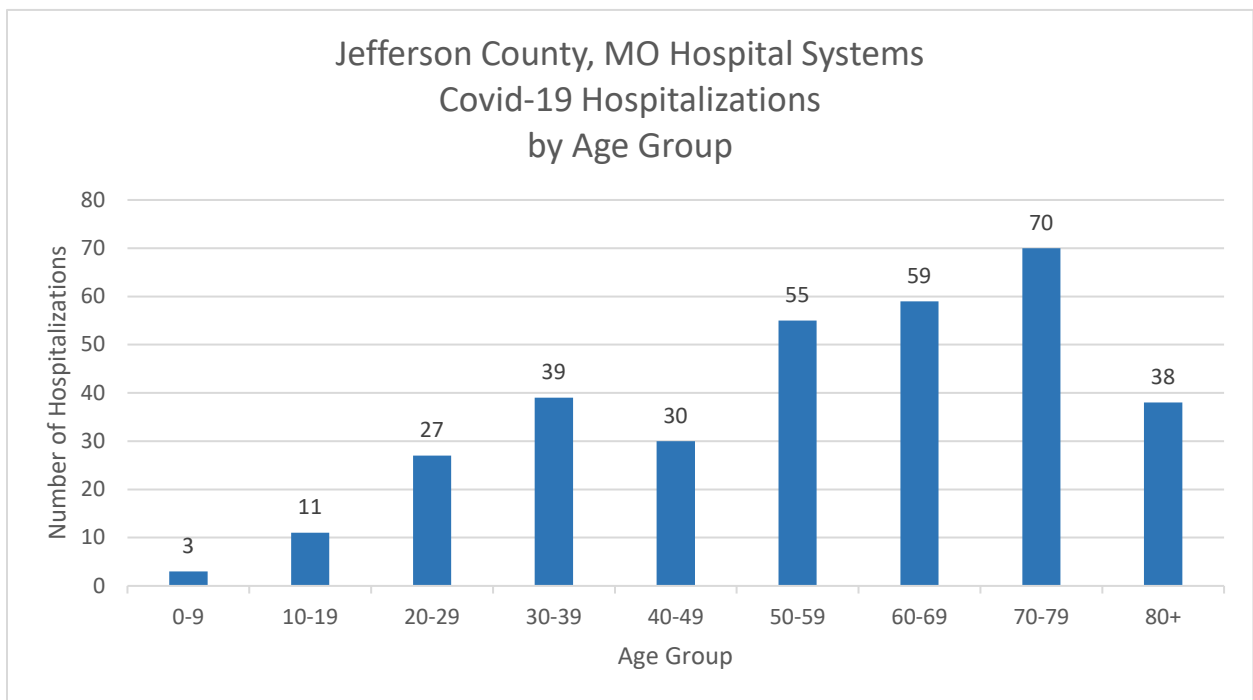


Figure 3. Length of Hospital Stay for Covid-19 Patients, Jefferson County, Missouri

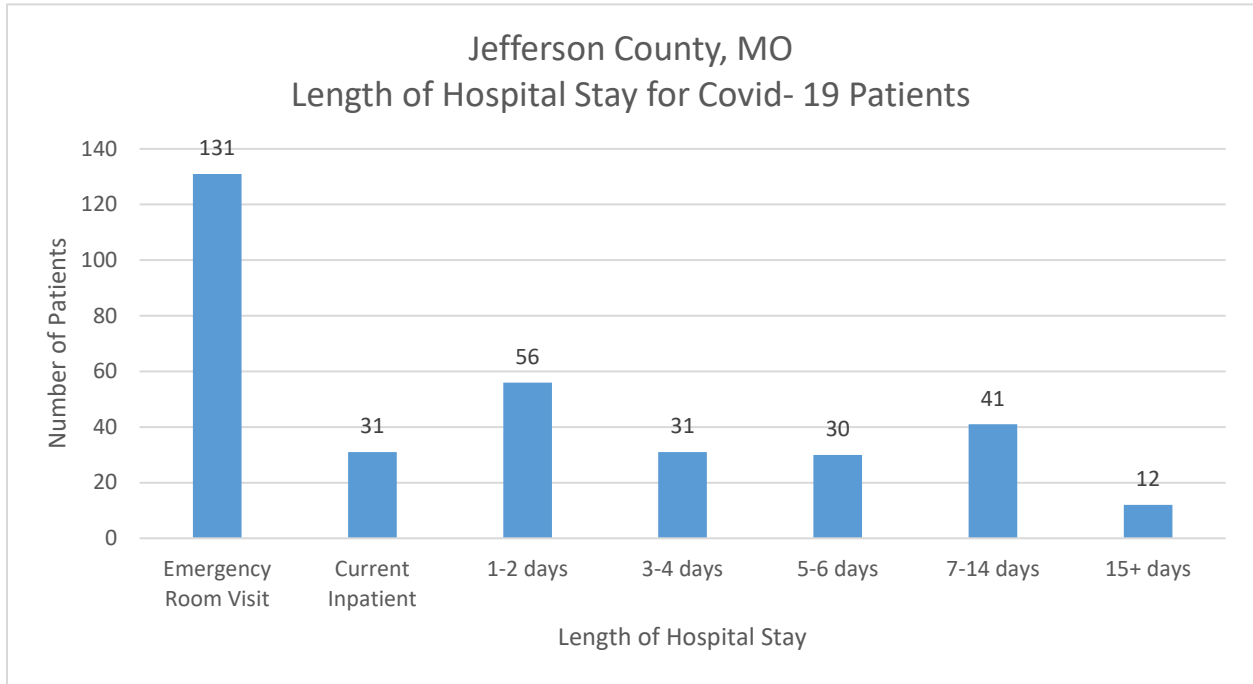
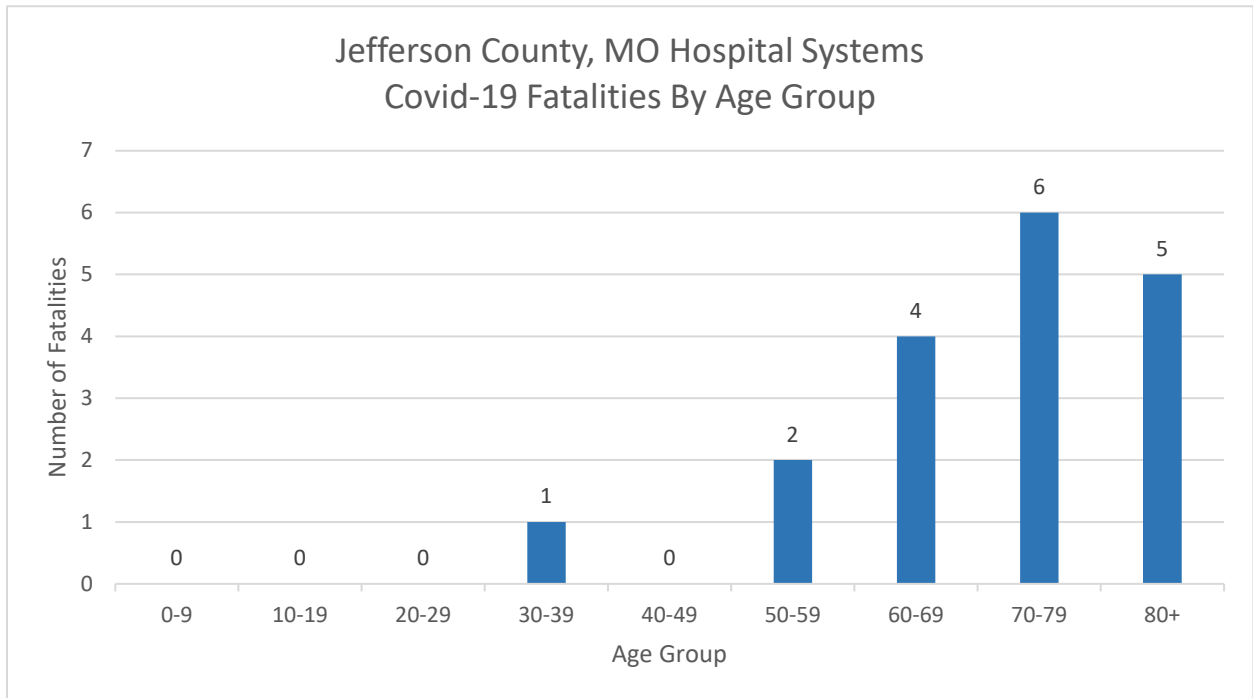


Figure 4. Covid-19 Fatalities by Age Group, Jefferson County, Missouri





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

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

Week 39: September 20- September 26

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

SUMMARY:

- During Week 39 a total of 73 confirmed and probable Covid-19 cases were reported in Jefferson County for the 0-19 year age group. A year-to-date total of 617 confirmed and probable Covid-19 cases have been reported in 0-19 year age group in Jefferson County, Missouri.
-

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 | 26 | 45 |
| 29 | 7/12/2020 | 22 | 67 |
| 30 | 7/19/2020 | 35 | 102 |
| 31 | 7/26/2020 | 36 | 138 |
| 32 | 8/2/2020 | 36 | 174 |
| 33 | 8/9/2020 | 37 | 211 |
| 34 | 8/16/2020 | 49 | 260 |
| 35 | 8/23/2020 | 57 | 317 |
| 36 | 8/30/2020 | 69 | 386 |
| 37 | 9/6/2020 | 62 | 448 |
| 38 | 9/13/2020 | 96 | 544 |
| 39 | 9/20/2020 | 73 | 617 |

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

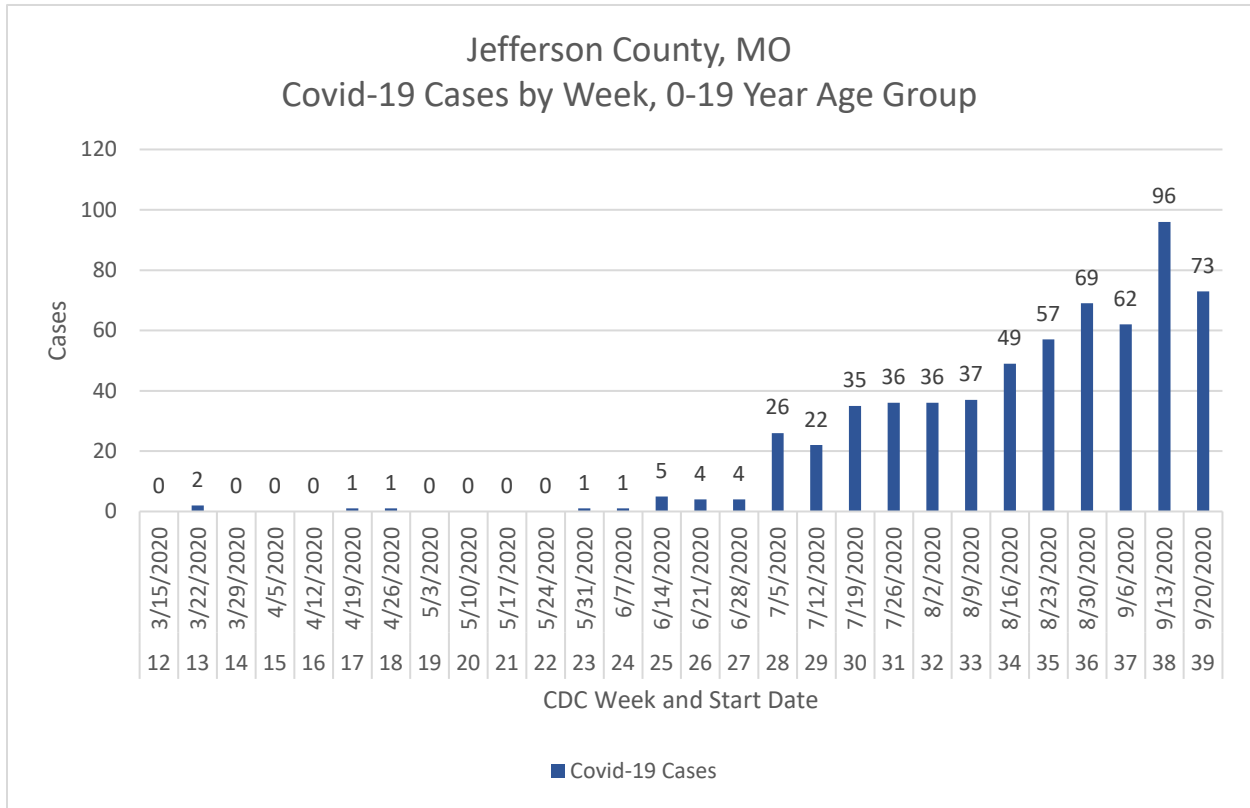


Table 2. Covid-19 Cases by Age Group, Jefferson County, Missouri

| Age Group | Cases | Percent |
|-----------|-------|---------|
| 0-9 | 155 | 3.50% |
| 10-19 | 462 | 10.43% |
| 20+ | 3800 | 85.76% |

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

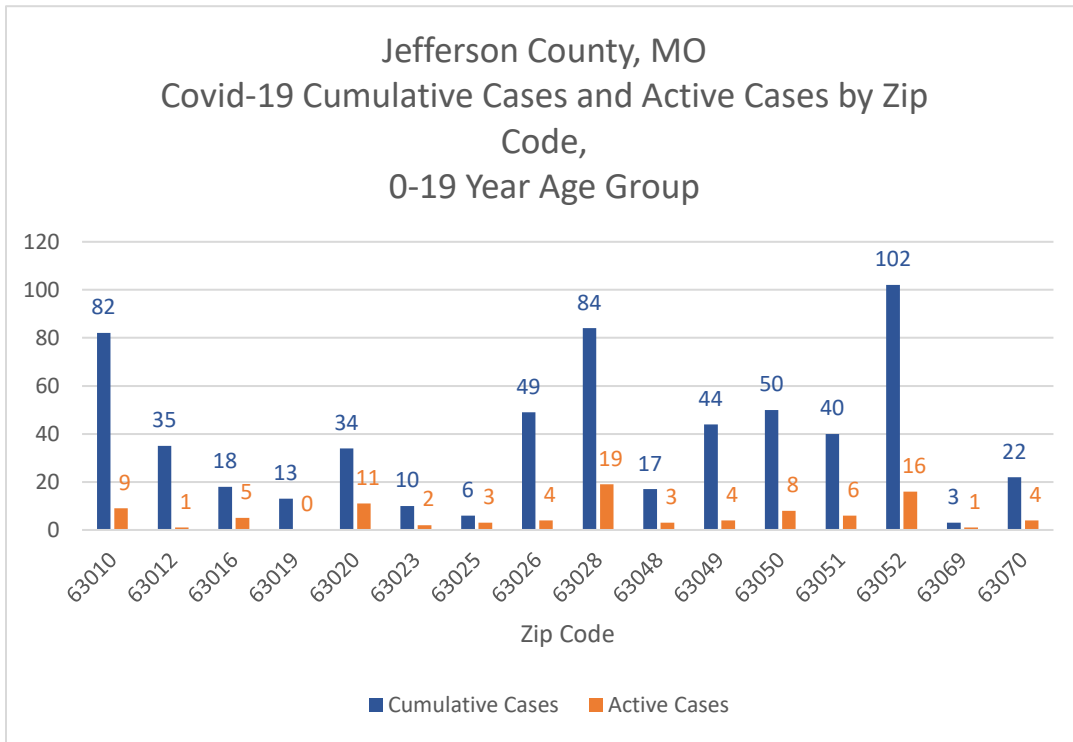


Figure 3. Covid-19 Cases by Age-Based Grade Levels, Jefferson County, Missouri

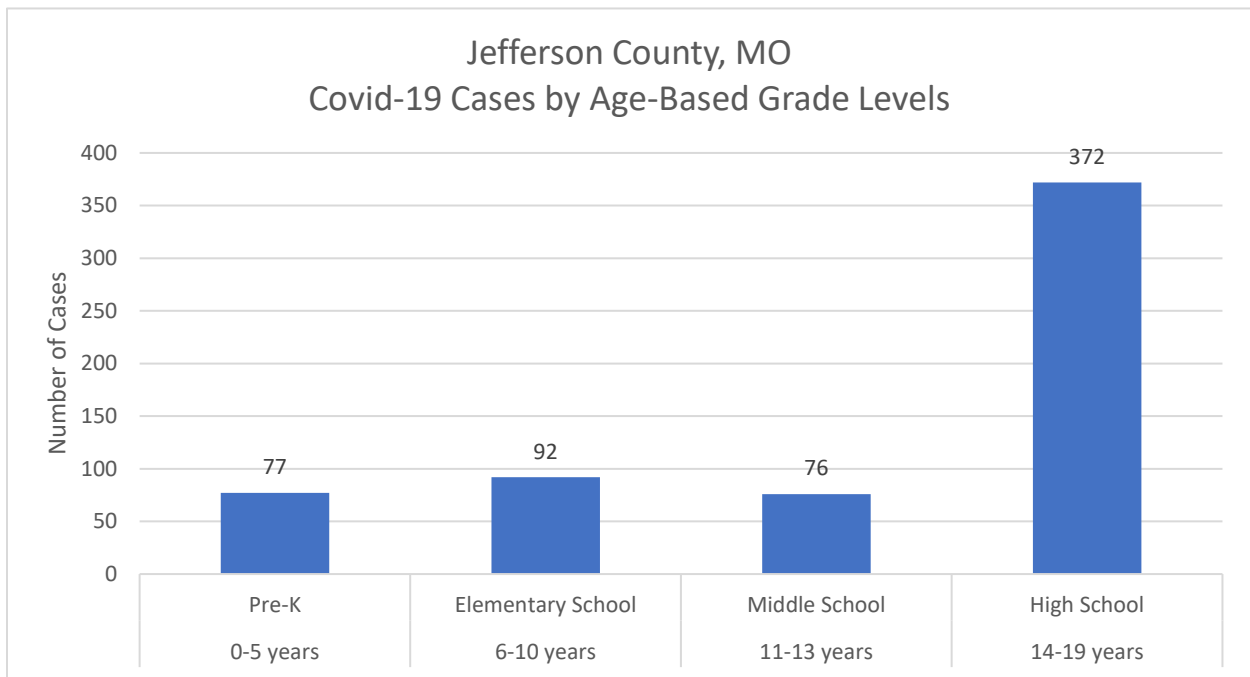


Figure 4. Daily Covid-19 Cases and 7-Day Rolling Average by Age-Based Grade Levels, Pre-K Age Group Jefferson County, Missouri

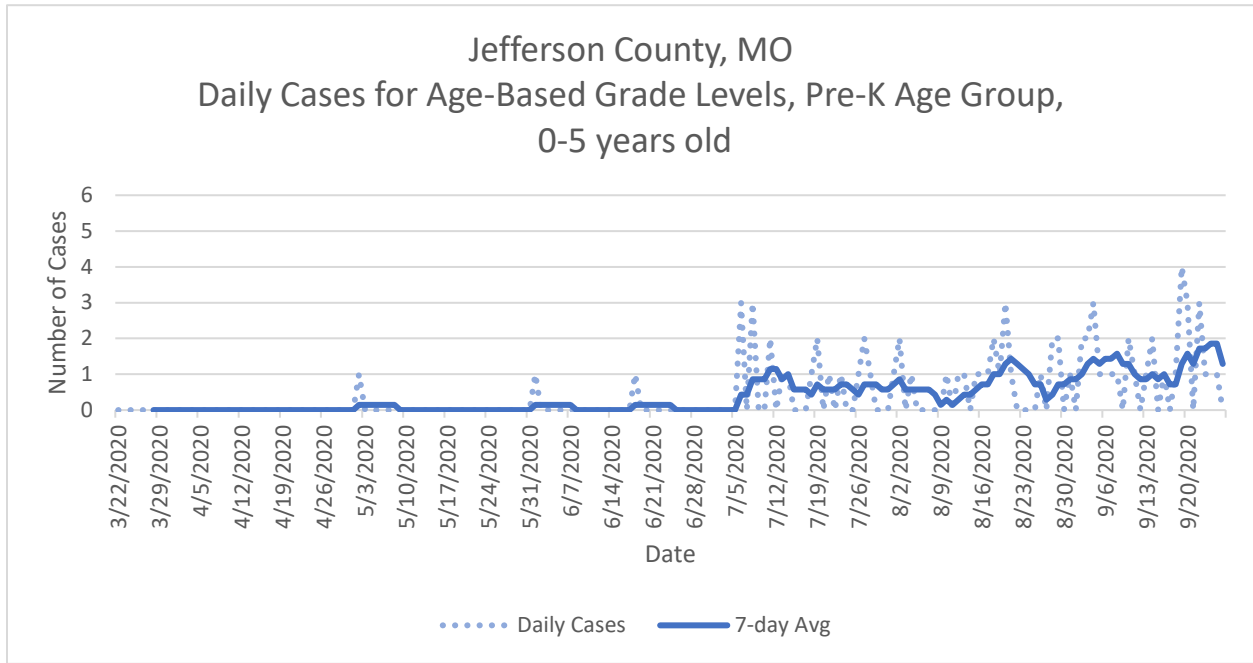


Figure 5. Daily Covid-19 Cases and 7-Day Rolling Average by Age-Based Grade Levels, Elementary School Age Group Jefferson County, Missouri

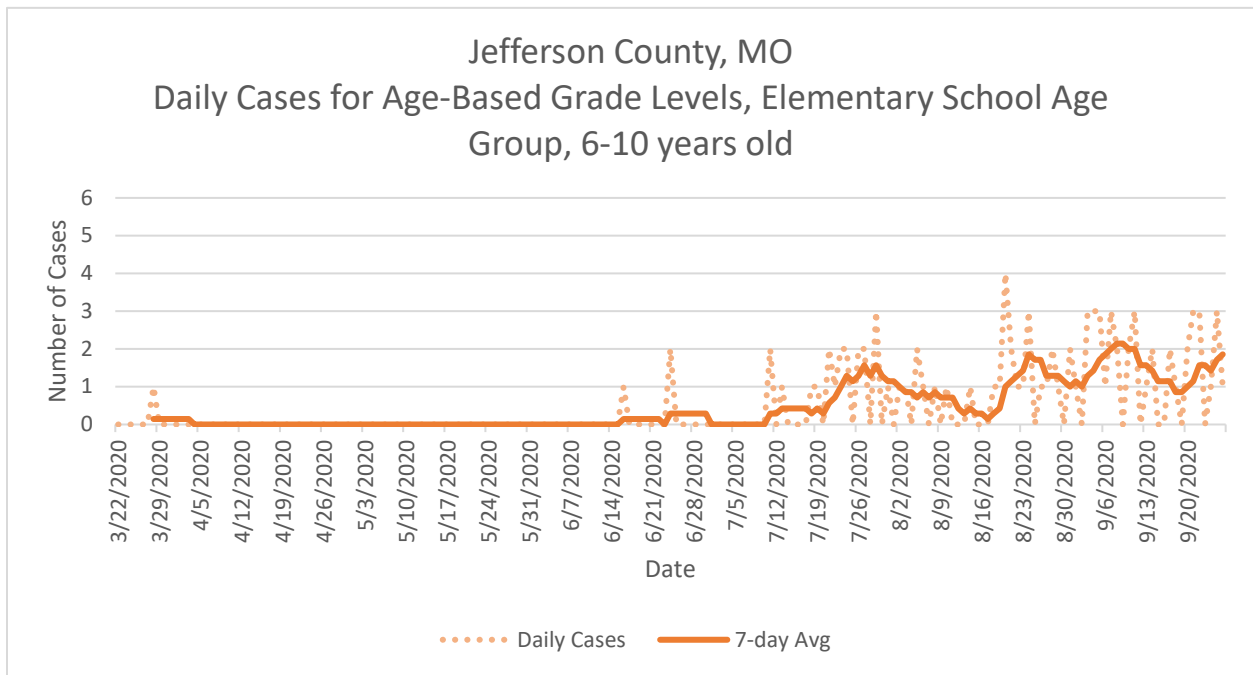


Figure 6. Daily Covid-19 Cases and 7-Day Rolling Average by Age-Based Grade Levels, Middle School Age Group Jefferson County, Missouri

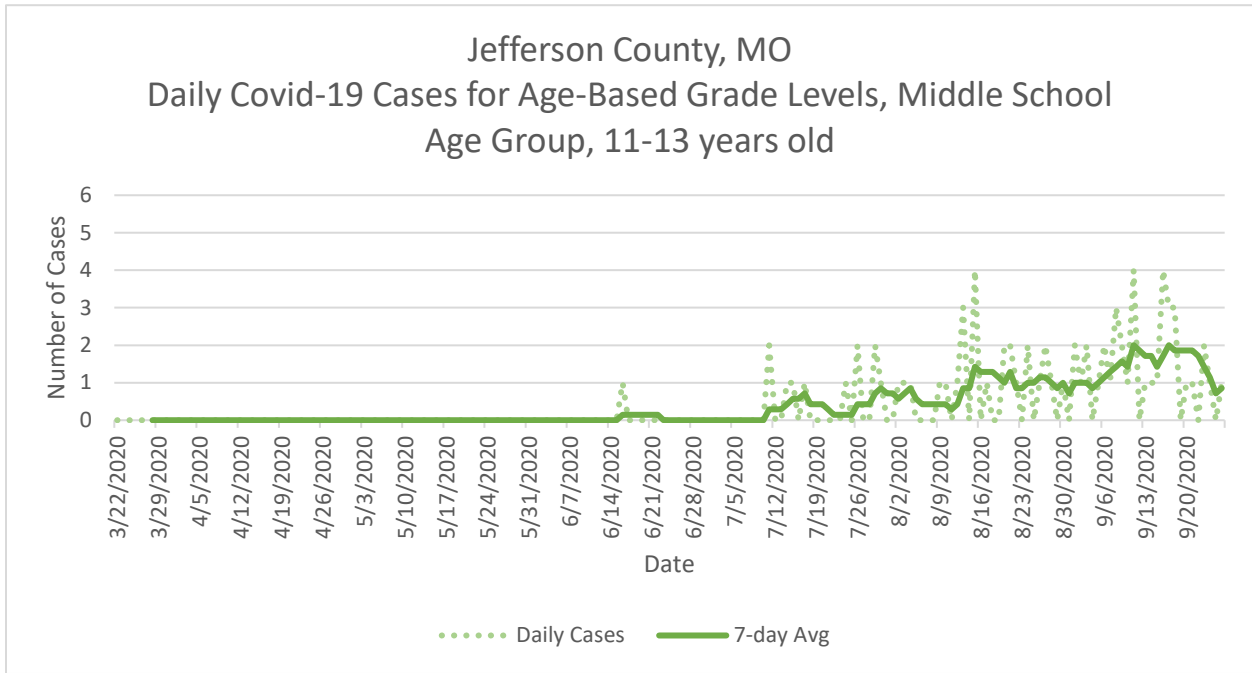


Figure 7. Daily Covid-19 Cases and 7-Day Rolling Average by Age-Based Grade Levels, High School Age Group Jefferson County, Missouri

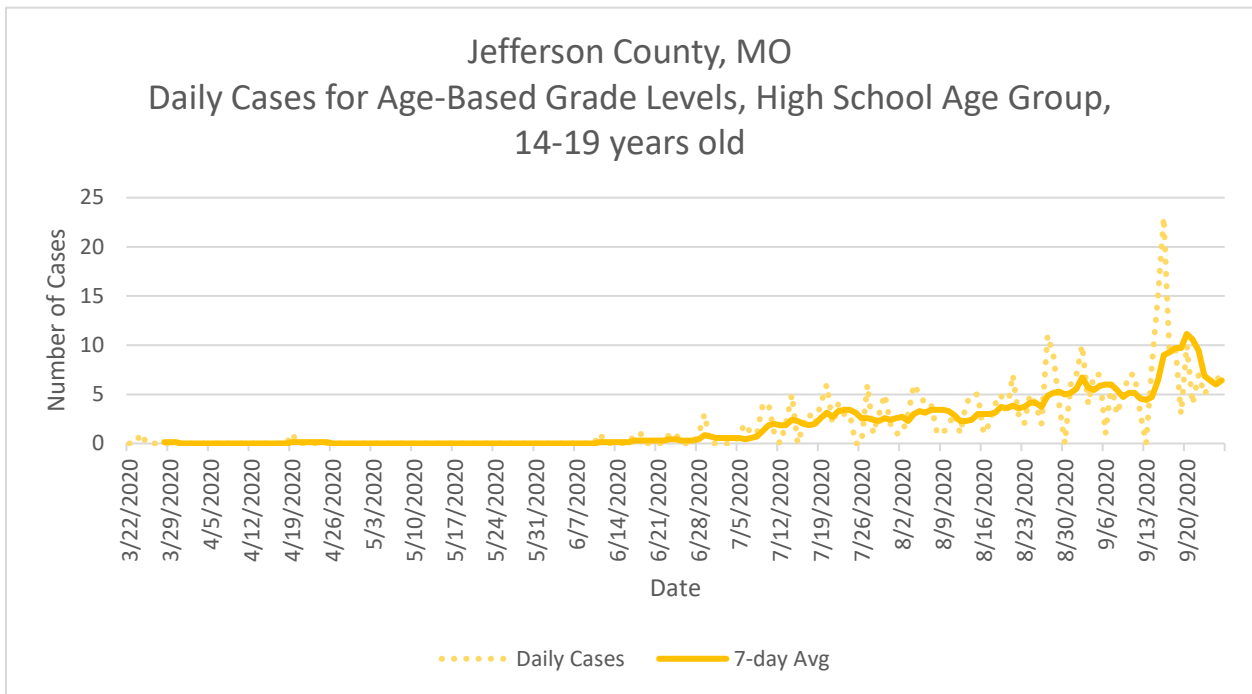


Figure 8. Overlay of 7-Day Rolling Average of Daily Covid-19 Cases for all Age-Based Grade Levels Jefferson County, Missouri

