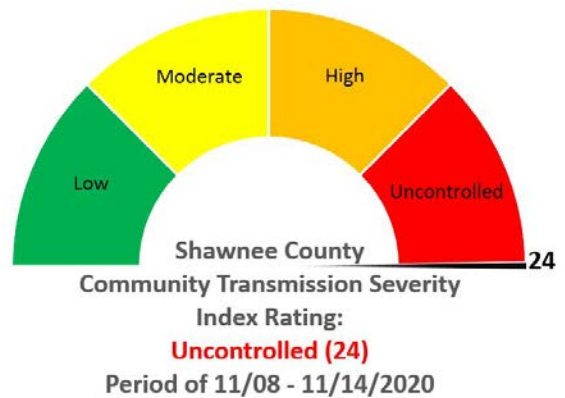




Public Health
Prevent. Promote. Protect.

Shawnee County Health Department



Community Transmission and Severity Scorecard for the SARS-CoV2 virus Period of November 8 through November 14 Summary Index = **24 (Uncontrolled)**

| Indicator | Last Week's Value and Level* | Current Value and Level* |
|--|--|--|
| Weekly case incidence : Number of new cases during a week** | 783 - Uncontrolled (>175) | 1027 - Uncontrolled (>175) |
| Trend in incidence: Difference between county case count in current week compared to previous week*** | Uncontrolled (+126.3%) | Uncontrolled (+31%) |
| Percent positive test (% positive tests out of all tests performed)** | 17.7% – Uncontrolled (10% or greater) | 17.5% – Uncontrolled (10% or greater) |
| Percentage of new cases with NO known source of infection | 69% - Uncontrolled (>50.0%) | 92% - Uncontrolled (>50.0%) |
| Hospital occupancy rate : Percentage of occupied, staffed medical and surgical beds**** | 82.2% - Moderate (80.1-84.9%) | 95% - Uncontrolled (>90%) |
| Public Health System capacity stress | Uncontrolled (6 or more red capacity criteria) | Uncontrolled (6 or more red capacity criteria) |
| SUMMARY INDEX SCORE | 21 – Uncontrolled | 24 – Uncontrolled |

* Values are provisional and are subject to change.

** Assign double score for these indicators

*** Differences smaller than +/- 10 percent are reported as UNCHANGED

**** Information from University of Kansas Health System – Topeka campus not available this week.

Information from Stormont Vail Health System available for Nov. 12, 13 and 14.

| | |
|---|---|
| SUMMARY INDEX SCORE INTERPRETATION | Score 0 = green (low) Score between 1 and 8: yellow (moderate) Score between 9 and 16: orange (high) Score between 17 and 24: red (uncontrolled) |
|---|---|

Community Transmission and Severity Indicators

| Indicator | Low (index score: 0) | Moderate (index score: 1) | High (index score: 2) | Uncontrolled (index score: 3) | Notes |
|---|-----------------------------|---------------------------------|--|---|---|
| Weekly case incidence: Number of new cases during a week * | < 85 | 85-130 | 131-175 | >175 | These are case <i>counts</i> . See technical notes for explanation of case <i>rates</i> . |
| Trend in incidence: Difference between county case count in current week compared to previous week | Decreasing | Unchanged | Increasing by 10-15 percent over previous week | Increasing by 16 or more percent over previous week | Only variations of +/- 10% are counted as an increase or decrease. |
| Percent positive test (% positive tests out of all tests performed)* | <5% | 5.0-7.4% | 7.5-9.9% | 10.0% or greater | |
| Percentage of new cases with NO known source of infection | 15.0% or smaller | 15.1-37.0% | 37.1-50.0% | > 50% | |
| Hospital occupancy: Percentage of occupied, staffed medical and surgical beds | 80.0% or less | 80.1-84.9.0% | 85.0-90.0% | >90% | |
| Public Health System capacity stress | All capacity criteria green | 0-1 red capacity criteria | 2-5 red capacity criteria | 6 or more red capacity criteria | Based on a separate capacity scorecard for public health that includes 9 criteria. |

* Assign double score to these indicators

How to use and technical notes

1. The community transmission and severity *scorecard* includes six *indicators*, each measuring different aspects of transmission level and severity of the SARS-CoV2 virus responsible for COVID-19. Each indicator can have a value falling in one of four categories of severity: low, moderate, high and uncontrolled.
2. Cases are reported as case *counts*, for simplicity purpose. The thresholds between case categories were set using the following case *rates*:
 - a. Low: less than 50 cases/100,000 per week
 - b. Moderate: between 51 and 75 cases/100,000 per week
 - c. High: between 76 and 99 cases/100,000 per week
 - d. Uncontrolled: more than 100 cases/100,000 per week
3. All thresholds between categories were set based on the best available evidence from national and state organizations, when available, as well as direct experience in Shawnee County.
4. Items included in the Public Health System Capacity Stress indicator are: assure testing; locate and interview cases; enter interview information into Epi Trax; locate and inform contacts; investigate clusters; monitor cases; monitor contacts; compile statistics; assure isolation and quarantine.
5. The scorecard includes an *index score*. The value of each indicator contributes to the summary index score differently, depending on the category that the indicator is in for that week.
 - a. Each indicator in the green category = 0 points
 - b. Each indicator in the yellow category = 1 point
 - c. Each indicator in the orange category = 2 points
 - d. Each indicator in the red category = 3 points

The weekly case incidence and the percentage positive tests indicators receive double score, because of their greater importance as indicators of transmission level. The total number of points for the index score is therefore 24 (if all the indicators are red).

6. The index score is interpreted as follows:
 - a. Score 0 = green (low)
 - b. Score between 1 and 8: yellow (moderate)
 - c. Score between 9 and 16: orange (high)
 - d. Score between 17 and 24: red (uncontrolled)

Refer to <https://www.cdc.gov/coronavirus/2019-ncov/community/community-mitigation.html> for more details about the characteristics and description of each level.

7. Every Thursday the health department will release an updated scorecard. The scorecard will be based on the values for each indicator of the previous week. The values published in the previous week's scorecard are also included for reference. For Trend in Incidence, only changes of +/- 10% are counted as a trend (increase or decrease). Values are provisional and may change as information becomes available.
8. Sources:
 - a. Hospital occupancy rate: daily updates provided by Stormont Vail Health and University of Kansas Health System – St. Francis Campus.

- b. Public Health System capacity stress: internal monitoring at the Shawnee County Health Department.
- c. Percentage of new cases with no known source of infection: extracted from Epi Trax (the state disease electronic reporting system) and analyzed by staff at the Shawnee County Health Department.
- d. All other indicators: Kansas Department of Health and Environment (<https://www.coronavirus.kdheks.gov/160/COVID-19-in-Kansas>)

Additional statistics on COVID-19 in Shawnee County can be found at <https://experience.arcgis.com/experience/ea2b1340b0694c2681268b5d1476b73e>

Change log

9-3-2020 – Changed label for hospital measure from “hospital capacity” to “hospital occupancy”. Changed label for “trend” from “trend in county incidence rate” to “trend in county case count”. Added sources of data for indicators to technical notes. Minor formatting fixes.

9-16-2020 – Changed thresholds for categories for then hospital occupancy indicator (to reflect new information released by CDC as well as Shawnee County direct experience). Changed source of data for three measures from Epi Trax to KDHE web site. Minor formatting fixes.

10-1-2020 – Adjusted thresholds and labels for Public Health System capacity stress. For trend in incidence: specified that only changes of +/- 10% are counted.

10-8-2020 – Switched source of information for the number of new cases from KDHE – by date of onset to KDHE – by date of diagnosis, due to lag time for KDHE to compute the number of cases by date of onset.

10-15-2020 – Added “unchanged” to the trend in incidence (low category). Excluded from “Percentage of new cases with NO known source of infection” individuals who refuse the interview or cannot be reached.

10-29-2020 – Moved all indicators from two-week average to the previous week’s value. Modified definitions and thresholds for Trend in Incidence indicator. Fixed minor formatting issues

11-12-2020 – Added notes that the hospital occupancy measure is under development.

11-19-2020 – Removed notes that the hospital occupancy measure is under development. Changed definition to add word “staffed”. Added note that information from the University of Kansas Health System – St. Francis Campus is currently not available.