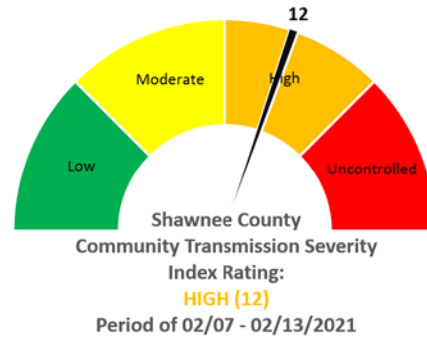




Public Health
Prevent. Promote. Protect.

Shawnee County Health Department



Community Transmission and Severity Scorecard for the SARS-CoV2 virus Period of February 7 through February 13 Summary Index = 12 (High)

Indicator	Last Week's Value and Level*	Current Value and Level*
Weekly case incidence : Number of new cases during a week**	364 – Uncontrolled (>175)	244 – Uncontrolled (>175)
Trend in incidence: Difference between county case count in current week compared to previous week***	-19.3% – Decreasing	-33.0% – Decreasing
Percent positive test (% positive tests out of all tests performed)**	6.0% – Moderate (5.0-7.4%)	5.8% – Moderate (5.0-7.4%)
Percentage of new cases with NO known source of infection	72% – Uncontrolled (>50.0%)	50% – High (37.1-50.0%)
Hospital occupancy rate : Percentage of occupied, staffed medical and surgical beds****	86.2% – High (85.0- 90.0%)	81.9% – Moderate (80.1- 84.9%)
Public Health System capacity stress	10 – Moderate (4-10)	9 – Moderate (4-10)
SUMMARY INDEX SCORE	14 – High (9-16)	12 – High (9-16)

* Values are provisional and are subject to change.

** Assign double score for these indicators

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

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	0-3 points	4-10 points	11-17 points	More than 17 points	Based on a separate capacity scorecard for public health that includes 9 criteria, each contributing a certain number of points to the indicator.

* 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. Those items are measured independently, and their average score is reflected in this scorecard.
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.

11-25-2020 – Public Health System Capacity Stress indicator: 1. Added notation in technical notes on how it is measured and reflected in the scorecard. 2. Adjusted the thresholds to better reflect the experience of the public health sector throughout the pandemic.

12-3-2020 – Added the number of deaths for the week on page 1.

12-10-2020 – Hospital capacity now includes both medical-surgical and ICU beds.

2-11-2021 – Removed number of deaths from page 1 (information is still available on the dashboard).