

SUPPLEMENTARY TABLE. Key indicator data sources, scoring method, and rating system — Kentucky, May 19–July 15, 2020

Indicator	Data Source(s)		Scoring Method	Rating System		
	Primary data used to score indicator	Supplementary data		3 = Excellent	2 = Moderate	1 = Poor
Cases	Daily cases reported to KDPH	CDC State Indicator Report*	Incidence: 2-week average incidence per 100,000 population <ul style="list-style-type: none"> - Low: ≤ 10 - Moderate: $>10-49.99$ - Moderately High: $\geq 50-100$ - High: >100 Incidence trend [†] : 7-day moving average <ul style="list-style-type: none"> - Decreasing: ≥ 4 days with slope <0 - Increasing: ≥ 4 days with slope ≥ 0 	Low incidence and decreasing trend or Low incidence and increasing trend or Moderate incidence and decreasing trend	Moderate incidence and increasing trend or Moderately high incidence and decreasing trend	Moderately high incidence and increasing trend or High incidence and decreasing trend or High incidence and increasing trend
Deaths	-Daily deaths reported to KDPH -Daily review of vital statistics data	-CDC State Indicator Report -CDC Forecasts of Total Deaths [§] , Kentucky Ensemble Forecast	Mortality rate: 2-week average deaths per 100,000 population <ul style="list-style-type: none"> - Low: ≤ 1.5 - Moderate: $>1.5-2.99$ - Moderately High: $\geq 3-5$ - High: >5 Mortality rate trend [†] : 7-day moving average <ul style="list-style-type: none"> - Decreasing: ≥ 4 days with slope <0 - Increasing: ≥ 4 days with slope ≥ 0 	Low incidence and decreasing trend or Low incidence and increasing trend or Moderate incidence and decreasing trend	Moderate incidence and increasing trend or Moderately high incidence and decreasing trend	Moderately high incidence and increasing trend or High incidence and decreasing trend or High incidence and increasing trend
Syndromic Surveillance	CDC National Syndromic Surveillance Platform Electronic Surveillance System for the Early Notification of Community-based Epidemics		Trend: 7-day moving average <ul style="list-style-type: none"> - Increasing: slope ≥ 0 - Decreasing: slope <0 Variables (7): All hospital data <ul style="list-style-type: none"> - Emergency department (ED) visits Influenza-Like-Illness (ILI)[¶] - ED visits COVID-like-Illness (CLI)^{**} - ED visits COVID-19^{††} Selected hospital data <ul style="list-style-type: none"> - ED visits CLI - ED visits COVID-19 - Inpatient visits CLI - Inpatient visits COVID-19 	3 or fewer variables with a 7-day rolling-average slope <0	4 or 5 variables with a 7-day rolling-average slope <0	6 or 7 variables with a 7-day rolling-average slope <0
Public Health Capacity for contact tracing	KDPH Contact Tracing Team updates	Point in time survey of local	The number of Epi Regions that have Regional Contact Tracing Teams deployed	All 16 Public Health Regions have Regional Contact	≥ 8 Public Health Regions have Regional Contact	<8 Public Health Regions have Regional Contact

		health departments		Tracing Teams deployed	Tracing Teams deployed	Tracing Teams deployed
Healthcare Capacity	WebEOC, an emergency management software application operated by the KDPH Public Health Preparedness Branch	National Healthcare Safety Network COVID-19 module ^{¶¶}	Hospital utilization: ICU beds in use <ul style="list-style-type: none"> - Below capacity: <85% ICU - Above capacity: ≥85% ICU beds in use Ventilators <ul style="list-style-type: none"> - Below capacity: <70% - Moderate capacity: ≥70–80% - Above capacity: >80% PPE availability: State Level N95 supply <ul style="list-style-type: none"> - Adequate: No shortages reported - Inadequate: Shortages reported 	Hospital utilization (<85% ICU beds in use AND <70% ventilators in use) is below capacity AND PPE availability (N95 supply) is adequate	Hospital utilization of ≥70–80% ventilators in use OR PPE availability (N95 supply) is inadequate ^{***}	Hospital utilization (≥85% ICU beds in use OR >80% ventilators in use) is above capacity AND PPE availability (N95 supply) is inadequate

Abbreviations: CLI = COVID-Like-Illness; COVID-19 = coronavirus disease 2019; ED = emergency department; ILI = Influenza-Like-Illness; ICU = Intensive Care Unit; KDPH = Kentucky Department for Public Health; PPE = personal protective equipment.

*The CDC State Indicator Report is shared with U.S. Health Departments on Tuesdays and Fridays

†The current indicator scoring system for cases and deaths do not include a plateau status, if the slope was ≥0 it was considered increasing.

§<https://www.cdc.gov/coronavirus/2019-ncov/covid-data/forecasting-us.html>

¶The 7-day moving average for all ILI visits is based on a search of ESSENCE data for key words indicating symptoms consistent with Influenza (e.g. fever, cough, shortness of breath) as well as International Statistical Classification of Diseases and Related Health Problems (ICD) 10, ICD9, and Systematized Nomenclature of Medicine (SNOMED) codes related to these symptoms.

**The 7-day moving average for all CLI visits was based on a search of ESSENCE data for key words indicating symptoms consistent with COVID-19 (e.g. fever, cough, shortness of breath, negative influenza) as well as ICD10, ICD9, and SNOMED codes related to these symptoms.

††The 7-day moving average for all COVID-19 visits was based on a search of ESSENCE data for COVID-related diagnostic codes consistent with coronavirus or SARS-CoV-2.

¶¶Effective July 15, 2020, hospitals will no longer report COVID-19 capacity, staffing, and supply-related data to CDC’s NHSN. Hospital data can be accessed from HHS Protect for those with access at: ><https://protect.hhs.gov/workspace/compass/data-catalog><. For access to hospital-reported data via HHS Protect, please reach out to the HHS Protect Service Desk: Protect-ServiceDesk@hhs.gov. More information can be found in the HHS FAQ letter, found here: ><https://www.hhs.gov/sites/default/files/covid-19-faqs-hospitals-hospital-laboratory-acute-care-facility-data-reporting.pdf><. CDC’s NHSN will continue to collect essential COVID-19 data from all CMS-certified nursing homes in the U.S. These approximately 15,400 nursing homes are required to report COVID-19 case, death, PPE supply and staffing data to NHSN per a CMS rule released on May 8, 2020. These data will continue to be available on CMS’ website.

***Information on PPE availability as measured by N95 supply is provided by the KDPH Preparedness Branch via a state-level database of PPE availability.