



Maryland

COVID-19 School Data Hub Details

Learning Model Data Availability

Data Level	Data Type	Available?	Enrollment by Learning Model	Time Interval/Coverage
District	Learning Model Status	Yes	Yes (Quarterly)	Monthly/Weekly, Sep 2020- May 2021
School	Learning Model Status	Yes	No	Monthly, Sep 2020-Jun 2021

COVID-19 and Masking Data Availability

Data Level	Data Type	Available?
District	COVID-19 Case Data	No
School	COVID-19 Case Data	Yes
District	Masking Data	Yes

Please see below for further details for each data type.

Overview of Learning Model Data from the COVID-19 School Data Hub

The CSDH includes learning model data for K-12 public schools as provided by state agencies (e.g., departments of education or health), which can be accessed here: <https://www.covidschooldatahub.com/>. State data files do not include private schools, schools serving only as pre-kindergarten/early childhood centers, student services spanning multiple school districts, homeschool programs, residential programs, programs designed for youth ages 18-21, exclusively or primarily online/virtual schools, or adult programs.

CSDH files are organized into a consistent structure across states, and have been matched to NCES IDs and NCES school/district type. This information can be used in conjunction with the NCES school and district demographic files here: https://www.covidschooldatahub.com/for_researchers. Learning models are defined for the purposes of our dataset as follows:

- **In-person:** All or most students received instruction in person, 5 days a week.
- **Hybrid:** All or most students received a blend of in-person and virtual instruction.
- **Virtual:** All or most students received instruction virtually, 5 days a week.

The learning model data that were publicly available or submitted to CSDH upon request are presented as the state's best knowledge about the learning model status of their schools and districts. The data have been cleaned and standardized, but CSDH has not conducted additional verification of this information. All learning model data are available in csv and Excel formats. State-specific information can be found below, and more information on CSDH data methods can be found here: <https://www.covidschooldatahub.com/methods>.

In some cases, the learning model information provided by state agencies was collected as part of the state's plan to determine and disburse benefits as part of the Pandemic Electronic Benefit Transfer (P-EBT) program through the U.S. Department of Agriculture. More information can be found at <https://www.fns.usda.gov/snap/state-guidance-coronavirus-pandemic-ebt-pebt>.



A. Learning Model Status & Enrollment

Learning Model Data Details		
District file	Learning model and enrollment by learning model data available	
School file	Not available	
Data source	Maryland State Department of Education (MSDE)	
Learning model statuses used by state (with definitions, if available)	State Definition	CSDH Classification
	<u>District file</u> In-Person: 5 full days per week of in-person instruction with a teacher face-to-face with their students in the classroom	In-person
	<u>School file</u> In-person: More than one half ($\geq 51\%$; 'The Majority') of students in the school are scheduled for in-person instruction, in the school building, 5 days a week for the majority of the month.	
	<u>District file</u> Hybrid options used: <ul style="list-style-type: none"> Option of 1, 2, or 4 days per week in-person instruction with a teacher face-to-face with their students in the classroom 1/2/3/4 full days per week of in-person instruction with a teacher face-to-face with their students in the classroom 4/5 full days every other week of in-person instruction with a teacher face-to-face with their students in the classroom Alternating 2 full days one week/3 full days in other week of in-person instruction with a teacher face-to-face with their students in the classroom 	Hybrid
<u>School file</u> More than one half ($\geq 51\%$; 'The Majority') of students in the school are scheduled for in-person instruction at least 1 day per week and up to 4 days per week for the majority of the month.		
<u>District file</u> Virtual options used: <ul style="list-style-type: none"> [no change toward phased re-opening reported]: Maryland's data recorded instances of changes toward "phased reopening" after starting the school year remotely. CSDH inferred that where a district had not yet recorded a change in learning status toward phased reopening, that it was still in virtual mode 	Virtual	



	<ul style="list-style-type: none"> • Option of 5 days per week in-person instruction with a teacher face-to-face with their students in the classroom: Enrollment count data for the district that offered this option suggest that few students took up the in-person option at the time it was offered; a strong majority of students were virtual <p><u>School file</u> Virtual: More than one half ($\geq 51\%$; 'The Majority') of students in the school are scheduled for virtual instruction 5 days a week for the majority of the month.</p>	
	<i>Not reported</i>	Blank
Data time interval	<p><u>District file</u> Weekly and monthly for different periods, as follows:</p> <ul style="list-style-type: none"> • Monthly: Learning model data was provided for the “Fall” 2020 period; for CSDH purposes, we applied “Fall” learning model information to the first semester, covering September, October, November and December 2020, as well as January and February 2021. • Weekly: Learning model data is listed at weekly intervals for March-May, 2021. <p><u>School file</u> Monthly, from Sep 2020-Jun 2021</p>	
Enrollment total	<p><u>District file</u> The EnrollmentTotal variable presents Maryland’s total district-level enrollment (not specific to K-12) for the 2020-21 school year as available from MSDE’s standard annual data collection, reflecting enrollment as of 9/30/20. For each district, the official EnrollmentTotal is applied across all time periods.</p> <p><u>School file</u> The EnrollmentTotal variable presents Maryland’s total <u>K-12</u> school-level enrollment for the 2020-21 school year as available from MSDE’s standard annual data collection, available here: https://reportcard.msde.maryland.gov/Graphs/#/DataDownloads/datadownload/3/17/6/02/XXXX/2021. For each school, the official EnrollmentTotal is applied across all time periods. Missing values for EnrollmentTotal indicate that a total was not provided via MSDE’s enrollment file.</p>	
Additional state learning model data details	<p><u>District Learning Model</u></p> <ul style="list-style-type: none"> • The LearningModelStateCat presents the information from Maryland’s original learning model data, which recorded changes in learning model toward reopening over time, rather than the status of all grades at a particular period in time. 	



- Districts are recorded as using a Virtual approach until state records indicate a change. Thus, all districts are presented as operating under a “Virtual” approach for Fall 2020.
- The grade level information was used to generate grade-band classifications (for K-5, 6-8, and 9-12), based on the learning model used by the *majority of grades* within the band-level; where learning models were evenly split between the number of grades in a band, the most “in-person” approach was used (i.e., hybrid prevailed over virtual and in-person prevailed over hybrid).
- The grade level information was also used to generate a predominant learning model for each time period (LearningModel variable), baked on the learning model used by the *majority of grades* between K-12.
- MD noted that a small number of students attended in-person full-time in some cases even where the learning model across the board was hybrid.

District Enrollment by Learning Model

- MSDE provided percentage-based data on enrollment by learning model, which CSDH converted to student counts per learning model (to the nearest whole number) using the overall district enrollment. Note that the percentage of students by learning model in each district include pre-K, and CSDH was unable to disaggregate by grade level when converting percentages to student counts by learning model.
- Enrollment by learning model was originally reported *quarterly*. The term dates did not match up exactly with the weekly/monthly time intervals of the learning model data. We matched the term-level enrollment count data as closely as possible to weekly/monthly learning model intervals, though the enrollment data and learning model data were sometimes a day or two apart and are not always an exact match.
- ***Learning model classifications (LearningModel) are based on state classifications (LearningModelStateCat), rather than learning model enrollment numbers. In some cases, the state classified a district as “hybrid”, even if more students were recorded as enrolled in-person; our classification also reflects “hybrid” in these cases.*** For example, in some instances the Carroll, Cecil, Garrett, Washington and Kent districts are coded as hybrid when in fact they have more students recorded as enrolled in-person rather than hybrid.
- Some enrollment by learning model percentages were listed as “other” in the original data for the third term; these were dealt with as follows:
 - Frederick County - 0.2% (disregarded due to small size)
 - Allegany County - 75% (Maryland clarified this to be hybrid)



	<ul style="list-style-type: none"> ○ Calvert County - 1%- state advised that “local school systems did not provide enough information to determine a learning mode ○ Montgomery County - 32% - state advised that “local school systems did not provide enough information to determine a learning mode”. Kept the count equivalent for the 68 percent confirmed as Virtual and left in-person and hybrid blank. <ul style="list-style-type: none"> ● Some enrollment by learning model percentages did not add up to 100 percent or were unavailable and therefore the sum of enrollment by learning models count does not equal the EnrollmentTotal count: <ul style="list-style-type: none"> ○ St Mary’s County percentages could not be converted to headcount for Fall 2020 (September through December), as percentages were stratified by intraterm phases and programs, and total enrollment data for this county was not broken down by phase or program ○ Talbot County enrollment by learning model data unavailable between 4/2/21 and 4/11/21 ○ Frederick, Calvert and Montgomery County students recorded in “other” type of learning model as described above ○ Baltimore City percentages added up to 99.8% in the third term data ○ Baltimore County percentages added up to 99.92% in the fourth term data ● Carroll County percentages added up to 99% in the second term data. <p>School Learning Model Data Maryland’s school-level learning model information was collected as part of the Pandemic Electronic Benefits Transfer program (P-EBT) that provided monetary benefits to students who were involved in at least some remote learning.</p>
Staff counts	<p><u>District file</u> Maryland’s district-level staff counts are from October 2020 staff (source: http://marylandpublicschools.org/about/Documents/DCAA/SSP/20202021Staff/2021ProfStaffbyRace.pdf). The staff count covers “professional staff”, defined in the source data as including:</p> <ul style="list-style-type: none"> ● Central office staff; ● Administrative office staff; ● Student personnel; ● School administrators; ● Teachers; ● Therapists, librarians, guidance counselors; ● Psychological personnel; ● Staff development/teacher trainers; ● Other instructional professionals; and



	<ul style="list-style-type: none"> Health professionals. <p><u>School file</u> School-level staff counts are not available.</p>
Version history	<ul style="list-style-type: none"> 9/15/21: District file released. 3/4/22: Updated time interval variables. 3/9/22: School file released.

B. COVID-19 Case Data

COVID-19 Case Data Details		
Data available?	Yes (School)	
Case count reporting	<ul style="list-style-type: none"> Staff and students reported together <p>Per state reports: <i>"Schools listed meet 1 or more of the following criteria:</i></p> <p><i>Classroom/cohort outbreak definition:</i></p> <ol style="list-style-type: none"> At least two confirmed COVID-19 cases among students/teachers/staff within a 14-day period and who are epidemiologically linked, but not household contacts; or <p><i>School-wide outbreak definition:</i></p> <ol style="list-style-type: none"> Three or more classrooms or cohorts with cases from separate households that meet the classroom/cohort outbreak definition that occurs within 14 days; or Five percent or more unrelated students/teachers/staff have confirmed COVID-19 within a 14 day period (minimum of 10 unrelated students/teachers/staff). <p><i>Cases reported reflect the current total number of cases. Schools are removed from the list when health officials determine 14 days have passed with no new cases and no tests pending."</i></p> <p>We interpret the above definition as ActiveCases.</p>	
Data time interval	Weekly	
Data suppression	Maryland does not suppress cases	
Data source	Maryland.gov: Outbreak-Associated Cases in Schools	
Variables used from original data	Original Variable in State Data	CSDH Dataset Variable
	School Name	SchoolName
	County	Not mapped
	Number of Total Cases	ActiveCasesCombined
	Report Date	TimePeriodEnd and TimePeriodStart



MARCH 9, 2022

Additional data details	
Version history	<ul style="list-style-type: none">9/15/21: Case data file released.

C. Masking Data

Masking Data Details	
Data available?	Yes (District)
Data source	MD enacted a statewide mandate, which included schools and districts, throughout the 2020-21 school year.
Additional data details	The MD data reflect a masking policy in effect for staff and students across all districts for the full 2020-21 school year.
Version history	<ul style="list-style-type: none">9/15/21: Masking file released.