

Green Mountain Unified School District

Air Quality Report

Over the last several weeks, TRSU facilities directors and building principals have been using the “performance targets” provided by the AOE in the October 23 revision of the *Strong and Healthy Start* to look at the air quality in our buildings.

Overall, our three buildings meet or exceed air quality recommendations. CO2 levels measure high during times when classrooms are very active, but those numbers drop rapidly. The air change per hour numbers are lowest in GMUHS (where the HVAC system is the oldest of the three buildings). That concern is mitigated by the use of additional air filters.

There are the performance targets:

CO2 levels	below 800 ppm
Temperature	68 to 78°F
Relative humidity	40 to 60%
ACH	Good = 4 to 6 changes per hour
Filtration	Good = MERV 13 or higher

*ppm means parts per million

*ACH means air changes per hour -- the number of times per hour that air is cycled through a given space.

We have also measured the AQI (Air Quality Index) in each building. This is the EPA’s (Environmental Protection Agency) measurement for reporting air quality. It is based on ground-level ozone, particle pollution/particulate matter, carbon monoxide, sulfur dioxide, and nitrogen dioxide measurements). “Good” on this scale means little to no health risk for anyone. “Moderate” means acceptable air quality, with the possibility of risk for those who are unusually sensitive to air pollution.

Air Quality Index (AQI) Good = 0 to 50 Moderate = 51 to 100

Green Mountain Union High School

AQI = Range from 0 to 13

CO2 = Range from 401 to 1200ppm (all measurements over 800 occurred during periods of high classroom activity, and dropped below 800 rapidly on conclusion of the activity)

Temperature = Range from 69 to 72

ACH = Range from 1.8 - 8.5 Additional Filters have been placed in rooms with ACH below 3

Chester Andover Elementary School

AQI = Range from 4 to 8

CO2 = Range from 481 to 593ppm

Temperature = Range from 65 to 69

ACH = Average of 6

Cavendish Town Elementary School

AQI = Range from 0 to 28

CO2 = Below 800ppm

Temperature = Average of 70

ACH = Range from 8.3 to 9.6

Air Filters at all three schools are MERV 13 and are being changed regularly.

CTES changed in September and will replace in January

CAES changed in October and will replace in January

GMUHS replaced in December