DGS School Indoor Air Quality Monthly Report

Month and Year Reporting: March 2022



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Building Number	School Name	verating Air cleaners QTY	last Classroom Filter Change (HEPA)	ά Classroom Filter Change (HEPA)	Percent of PMZ.5 Events	Maximum CO2 Level Over the Month (PPM) (2)	Maximum CO ₂ Level Cleared within 90 minutes (Y/N)	Average CO2 Level Over the the Month (PPM) (3)	CO2 Ventilation Range Per Average CO2 (4)	Air Quality Score mbined PM 2.5 and CO2 Ventilation) [5]	Infection Risk of Airborne Virus (Wells-Riley) (6)	Comments
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202 203	Aiton Amidon	49 38	11/2021 11/2021	06/2022 06/2022	0%	2188 1076	Y	541 480	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
450	Anacostia	54	11/2021	06/2022	0%	924	Υ	456	CO2 within 10%	Excellent	-	
452 204	Ballou/Ballou STAY Bancroft	114 58	11/2021 11/2021	06/2022 06/2022	0%	1175 1066	Y	442 498	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
402	Banneker	56	11/2021	06/2022	0%	1454	Y	521	CO2 within 10%	Excellent	-	
205 206	Barnard Beers	53 50	11/2021 11/2021	06/2022 06/2022	0%	2537 3023	Y	554 518	CO2 within 25% CO2 within 10%	Excellent Excellent	-	
208 291	Birney Boone(fomerly Orr ES)	54 45	11/2021 11/2021	06/2022 06/2022	0% 0%	4324 1378	Y	603 545	CO2 within 25% CO2 within 10%	Good Excellent	-	
212	Brent Brent	36	11/2021	06/2022	0%	4106	Y	544	CO2 within 10%	Very Good	-	
213 347	Brightwood Brookland	49 49	11/2021 11/2021	06/2022 06/2022	0%	1347 2337	Y	484 548	CO2 within 10%	Excellent Excellent	-	
404	Browne	73	11/2021	06/2022	0%	2602	Υ	560	CO2 within 25%	Excellent	-	
296 219	Bruce Monroe@Park View Bunker Hill	51 48	11/2021 11/2021	06/2022 06/2022	0%	2163 1585	Y	516 462	CO2 within 10%	Excellent Excellent	-	
476	Burdick- Dorothy Height	37	11/2021	06/2022	0%	644	Y	456	CO2 within 10%	Very Good	-	(7) 844 PPM
220 221	Burroughs Burrville	43 37	11/2021 11/2021	06/2022 06/2022	0%	1758 1224	Y	500 482	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
360 454	Capitol Hill Montessori School @ Logan Cardozo	41 81	11/2021 11/2021	06/2022 06/2022	0%	1608 1631	Y	501 493	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
224	Cleveland	32	11/2021	06/2022	0%	1913	Y	504	CO2 within 10%	Excellent	-	
442 227	Columbia Heights(CHEC) Cooke, H.D.	99 44	11/2021 11/2021	06/2022 06/2022	0%	901 1152	Y	470 508	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
455	Coolidge HS & Wells MS	68	11/2021	06/2022	0%	2870	Υ	577	CO2 within 25%	Very Good	-	
229 405	Davis Deal	43 77	11/2021 11/2021	06/2022 06/2022	0%	1660 2316	Y	536 489	CO2 within 10% CO2 within 10%	Excellent Excellent	-	(7) 729 PPM
231	Drew	46	11/2021	06/2022	0%	1763	Y	503	CO2 within 10%	Excellent	-	
471 467	Duke Ellington School of the Arts Dunbar	92 77	11/2021 11/2021	06/2022 06/2022	0%	1884 2678	Y	476 534	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
457	Eastern	93	11/2021	06/2022	0%	1070	Y	458	CO2 within 10%	Excellent	-	
232 407	Eaton Eliot-Hine	35 38	11/2021 11/2021	06/2022 06/2022	0%	1733 1259	Y	486 462	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
409 208	School Without Walls- Francis Steven Garfield	50 44	11/2021	06/2022	0% 0%	2635 2088	Y	542 492	CO2 within 10%	Excellent	-	
239	Garrison	38	11/2021 11/2021	06/2022 06/2022	0%	2403	Y	499	CO2 within 10% CO2 within 10%	Excellent Excellent	-	(7) 933 PPM
242 246	Goding Hardy	46 56	11/2021 11/2021	06/2022 06/2022	0%	3020 1205	Y	622 497	CO2 within 25% CO2 within 10%	Very Good Excellent	-	
247	Harris, C.W.	37	11/2021	06/2022	0%	1065	Y	468	CO2 within 10%	Excellent	-	
413 258	Hart Hearst	82 35	11/2021 11/2021	06/2022 06/2022	0%	1623 1660	Y	519 459	CO2 within 10%	Excellent Excellent	-	
249	Hendley	43	11/2021	06/2022	0%	1759	Υ	475	CO2 within 10%	Excellent	-	
251 252	Houston Hyde-Addison	46 31	11/2021 11/2021	06/2022 06/2022	0%	2586 2875	Y	595 547	CO2 within 25% CO2 within 10%	Very Good Excellent	-	
254	Janney	55	11/2021	06/2022	0%	1984	Y	507	CO2 within 10%	Excellent	-	
415 416	Jefferson Middle School Academy Johnson, John Hayden	50 51	11/2021 11/2021	06/2022 06/2022	0%	2524 904	Y	520 434	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
421	Kelly Miller	54	11/2021	06/2022	0%	1490	Y	471	CO2 within 10%	Excellent	-	
257 272	Ketcham	40 33	11/2021 11/2021	06/2022 06/2022	0%	1603 1677	Y	470 527	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
259	Kimball	40	11/2021	06/2022	0%	1126	Υ	500	CO2 within 10%	Excellent	-	
344 417	King, M.L. Kramer	41 45	11/2021 11/2021	06/2022 06/2022	0%	1186 1232	Y	461 473	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
261 262	Lafayette	65 44	11/2021 11/2021	06/2022 06/2022	0% 0%	1180 1524	Y	495 492	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
418	Langdon Langley	51	11/2021	06/2022	0%	3421	Y	550	CO2 within 10%	Excellent	-	
264 266	LaSalle-Backus Leckie	44 45	11/2021 11/2021	06/2022 06/2022	0%	975 1183	Y	469 482	CO2 within 10%	Excellent Excellent	-	
271	Ludlow-Taylor	44	11/2021	06/2022	0%	1818	Y	492	CO2 within 10%	Excellent	-	
884 420	Luke C. Moore Alternative MacFarland	32 47	11/2021 11/2021	06/2022 06/2022	0%	1148 1458	Y	468 519	CO2 within 10%	Excellent Excellent	-	
308	Malcolm X @ Green	47	11/2021	06/2022	0%	1942	Υ	558	CO2 within 25%	Very Good	-	
273 284	Mann Marie Reed	40 47	11/2021 11/2021	06/2022 06/2022	0%	1395 1295	Y	465 580	CO2 within 10% CO2 within 25%	Excellent Excellent	-	
274	Maury	49	11/2021	06/2022	0%	1454	Y	541	CO2 within 10%	Very Good	-	(7) 717 PPM
458 278	McKinley Meyer	50 44	11/2021 11/2021	06/2022 06/2022	0%	1850 2454	Y	473 528	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
280 285	Miner Moten	48 59	11/2021 11/2021	06/2022 06/2022	0% 0%	1489 1408	Y Y	504 441	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
287	Murch	55	11/2021	06/2022	0%	1831	Y	506	CO2 within 10%	Excellent		
288 290	Nalle Noyes	49 34	11/2021 11/2021	06/2022 06/2022	0%	1141 985	Y	473 451	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
201	Oyster-Adams Bilingual School (Adams)	36	11/2021	06/2022	0%	1110	Υ	518	CO2 within 10%	Excellent	-	
292 294	Oyster-Adams Bilingual School (Oyster) Patterson, W. B.	31 39	11/2021 11/2021	06/2022 06/2022	0%	1098 1375	Y	518 556	CO2 within 10% CO2 within 25%	Excellent Very Good	-	
295	Payne	50	11/2021	06/2022	0%	1666	Υ	538	CO2 within 10%	Excellent	-	
301 478	Peabody(Capitol Hill Cluster) Phelps ACE	25 57	11/2021 11/2021	06/2022 06/2022	0%	1292 1103	Y	502 470	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
299	Plummer	40	11/2021	06/2022	0%	1255	Y	520	CO2 within 10%	Excellent	-	
300 316	Powell Randle Highlands	48	11/2021 11/2021	06/2022 06/2022	0% 0%	2334 1149	Υ	551 452	CO2 within 10%	Excellent Excellent	-	
304 436	River Terrace Ron Brown College Preparatory	39 50	11/2021 11/2021	06/2022 06/2022	0% 0%	1042 1005	Y	466 477	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
459	Roosevelt STAY	75	11/2021	06/2022	0%	1133	Y	510	CO2 within 10%	Excellent	-	
305 307	Ross Savoy	16 48	11/2021 11/2021	06/2022 06/2022	0%	1595 1055	Y	532 461	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
243	School Without Walls HS	39	11/2021	06/2022	0%	1819	Υ	543	CO2 within 10%	Excellent	-	
309 313	Seaton Shepherd	50 41	11/2021 11/2021	06/2022 06/2022	0%	1789 2059	Y	481 489	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
315	Simon	36	11/2021	06/2022	0%	1384	Υ	468	CO2 within 10%	Excellent	-	/ml roo
256 427	Smothers Swing(Kenilworth) Sousa	36 58	11/2021 11/2021	06/2022 06/2022	0% 0%	1575 1001	Y	291 440	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 592 PPM
319 320	Stanton Stevens	53 26	11/2021 11/2021	06/2022 06/2022	0% 0%	3897 1056	Y	537 486	CO2 within 10%	Excellent Excellent	-	
321	Stevens Stoddert	39	11/2021	06/2022	0%	1056 2472	Υ	535	CO2 within 10%	Excellent Excellent	-	
428 324	Stuart-Hobson(Capitol Hill Cluster) Takoma	51 61	11/2021 11/2021	06/2022 06/2022	0% 0%	2815 2355	Y	544 572	CO2 within 10% CO2 within 25%	Excellent Excellent	-	
325	Thomas, Neval	51	11/2021	06/2022	0%	2231	Υ	529	CO2 within 10%	Excellent	-	
326 327	Thomson, Strong John Truesdell	39 40	11/2021 11/2021	06/2022 06/2022	0%	944 1446	Y	453 496	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
328	Tubman	47	11/2021	06/2022	0%	1851	Y	510	CO2 within 10%	Excellent	-	
329 330	Turner Tyler	51 52	11/2021 11/2021	06/2022 06/2022	0%	2334 1293	Y	517 506	CO2 within 10% CO2 within 10%	Excellent Very Good	-	(7) 1792 PPM
331	Van Ness	48	11/2021	06/2022	0%	1252	Υ	488	CO2 within 10%	Excellent	-	, ,
332 333	Walker-Jones Watkins (Capitol Hill Cluster)	63 43	11/2021 11/2021	06/2022 06/2022	0%	1281 2880	Y	458 533	CO2 within 10%	Excellent Excellent	-	
312	West Elementary	39	11/2021	06/2022	0%	1749	Y	492	CO2 within 10%	Very Good	-	(7) 782 PPM
337 338	Wheatley Whittier	48 53	11/2021 11/2021	06/2022 06/2022	0%	1104 1641	Y	451 532	CO2 within 10%	Excellent Very Good	-	(7) 797 PPM
339	Wilson, J.O.	48	11/2021	06/2022	0%	1863	Y	472	CO2 within 10%	Excellent	-	
463 464	Wilson, Woodrow Woodson, H.D.	94 64	11/2021 11/2021	06/2022 06/2022	0%	2331 1123	Y	500 484	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
	Key				Overall Sch					· · · · · · · · · · · · · · · · · · ·	-	

Overall School System Average (PPM)

Key

(1) PM2.5 Events are based on alarms received from the school sensors that detect particulate levels above the threshold measured in ug/m/13). This threshold must exceed and stay exceeded for over 90 minutes.

(2) Maximum level for CO2 that was reached in the month at any single sensor in the school.

(3) Average baseline CO2 levels for the reporting month aggregating all sensors installed in the school.

(4) CO2 Ventilation compares each school with the Overall School System Average (PPM). Ex: School A avg. CO2 = 451 ppm. School system avg. = 446. CO2 range is (451-446)/446 = 1.19 from system range. Report indicates CO2 is within 10% of system average.

(5) Air quality score is based on conbined percent CO2 ventilation percent, maximum CO2 and the number of PM 1-25 threshold events. "Good" will be based on CO2 ppm within 5% of avg. max level under 4000 and less than 45% PM 2.5 events, "Very Good" will be based on CO2 ppm within 10% of avg and less than 10% PM2.5 events. IAQ outside of these parameters will be defined as "Fair".

(6) Wells- Riley e stimates under 10% are considered excellent for a closed space. Many factors, such as older kids, more infectors or more time of exposure shall effect the risk index. The Wells-Riley calculation method is used to enhance the school's HVAC upgrades and align with the COC and ASHRAE guidance on ventilation. Wells-Riley calculations are considered inapplicable due to the risk of infection not accounting for the new COVID-19 variant, Omicron, quanta generation number.

(7) Maximum CO2 in ppm data received in March 2022 via mobile sensors to account for readings in areas where a subset of sensors is under repair. Please note that in the scenario in which mobile sensors have been used, the overall rating incorporates data from different points and the building control systems in time across months, including the prior month's average CO2 and Maximum CO2 level, to create a ventilation profile for assessment.

