DGS School Indoor Air Quality Monthly Report

Month and Year Reporting: December 2021



												303 IAIN
Building Number	School Name	Operating Air cleaners QTV	Last Classroom Filter Change (HEPA)	Next Classroom Filter Change (HEPA)	Percent of PM2.5 Events	Maximum CO2 Level Over the Month (PPM) (2)	Maximum CO ₂ Level Cleared within 90 minutes (Y/N)	Average CO ₂ Level Over the the Month (PPM) (3)	CO2 Ventilation Range Per Average CO2 (4)	Air Quality Score (Combined PM 2.5 and CO2 Ventilation) (5)	Infection Risk of Airborne Virus (Wells-Riley) (6)	Comments
202	Aiton	49	11/2021	06/2022	0%	2950	Y	560	CO2 within 25%	Good	-	
203	Amidon	38	11/2021	06/2022	0%	1116	Υ	471	CO2 within 10%	Excellent	-	
450	Anacostia	54	11/2021	06/2022	0%	851	Y	468	CO2 within 10%	Excellent	-	
452 204	Ballou/Ballou STAY Bancroft	114 58	11/2021 11/2021	06/2022 06/2022	0%	905 2198	Y	452 543	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
402	Banneker	56	11/2021	06/2022	0%	1882	Y	529	CO2 within 10%	Excellent	-	
205	Barnard	53	11/2021	06/2022	0%	2097	Y	587	CO2 within 25%	Very Good	-	
206	Beers Birney	50 54	11/2021	06/2022 06/2022	0%	2766 4023	Y	490 564	CO2 within 10% CO2 within 25%	Excellent	-	
291	Boone(fomerly Orr ES)	45	11/2021	06/2022	0%	1493	Y	416	CO2 within 10%	Excellent	-	
212	Brent	36	11/2021	06/2022	0%	3009	Υ	522	CO2 within 10%	Good	-	
213 347	Brightwood Brookland	49 49	11/2021 11/2021	06/2022 06/2022	0%	2103 1122	Y	486 466	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
404	Browne	73	11/2021	06/2022	0%	1642	Υ	548	CO2 within 10%	Excellent	-	(7) 550 ppm
296 219	Bruce Monroe@Park View Bunker Hill	51 48	11/2021 11/2021	06/2022	0% 0%	2587	Y	484 472	CO2 within 10% CO2 within 10%	Excellent	-	(7) 500 ppm
476	Burdick- Dorothy Height	37	11/2021	06/2022 06/2022	0%	1601 644	Y	456	CO2 within 10%	Excellent Excellent	-	(7) 422 ppm
220	Burroughs	43	11/2021	06/2022	0%	1143	Y	479	CO2 within 10%	Excellent	-	(2)
221 360	Burrville Capitol Hill Montessori School @ Logan	37 41	11/2021 11/2021	06/2022 06/2022	0.5%	1272 2072	Y	472 514	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 853 ppm
454	Cardozo	81	11/2021	06/2022	0%	2049	Y	503	CO2 within 10%	Excellent	-	
224	Cleveland	32	11/2021	06/2022	0%	967	Υ	378	CO2 within 10%	Good	-	(7) 700 ppm
442 227	Columbia Heights(CHEC) Cooke, H.D.	99	11/2021	06/2022 06/2022	0%	1189 1259	Y	525 499	CO2 within 10% CO2 within 10%	Excellent Very Good	-	(7) 634 ppm
455	Coolidge HS & Wells MS	68	11/2021	06/2022	0%	2608	Y	533	CO2 within 10%	Excellent	-	(/ ** FF
229	Davis	43	11/2021	06/2022	0%	1610	Y	516	CO2 within 10%	Excellent	-	(7) 438 ppm
405 231	Deal Drew	77 46	11/2021 11/2021	06/2022 06/2022	0%	1616 1592	Y	470 501	CO2 within 10% CO2 within 10%	Excellent Excellent	-	(7) 408 ppm
471	Duke Ellington School of the Arts	92	11/2021	06/2022	0%	1230	Y	472	CO2 within 10%	Excellent	-	
467 457	Dunbar Eastern	77 93	11/2021 11/2021	06/2022 6/2022	0%	2284 942	Y	693 471	CO2 within 45% CO2 within 10%	Good Excellent	-	(7) 520 ppm
232	Eaton	35	11/2021	06/2022	0%	1523	Y	547	CO2 within 10%	Very Good	-	(7) 791 ppm
407	Eliot-Hine	38	11/2021	06/2022	0%	1059	Y	463	CO2 within 10%	Excellent	-	(7) 471 ppm
409 208	School Without Walls @ Francis-Stevens Garfield	50 44	11/2021 11/2021	06/2022 06/2022	0%	1849 1376	Y	521 485	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 517 ppm
239	Garrison	38	11/2021	06/2022	0%	805	Υ	479	CO2 within 10%	Excellent	-	
242 246	Goding Hardy	46 56	11/2021 11/2021	06/2022 06/2022	0% 0%	2389 1575	Y	591 496	CO2 within 25% CO2 within 10%	Good Excellent	-	(7) 883 ppm
246	Harris, C.W.	37	11/2021	06/2022	0%	934	Y	460	CO2 within 10%	Excellent	-	(7) 409 ppm
413	Hart	82	11/2021	06/2022	0%	1512	Υ	457	CO2 within 10%	Excellent	-	
258 249	Hearst Hendley	35 43	11/2021 11/2021	06/2022 06/2022	0%	1365 1559	Y	465 479	CO2 within 10% CO2 within 10%	Excellent Excellent	-	(7) 480 ppm
251	Houston	46	11/2021	06/2022	0%	1956	Y	547	CO2 within 10%	Excellent	-	(7) 400 ppiii
252	Hyde-Addison	31	11/2021	06/2022	0%	2506	Y	521	CO2 within 10%	Very Good	-	(7) 880 ppm
254 415	Janney Jefferson Middle School Academy	55 50	11/2021	06/2022 06/2022	0%	1647 2041	Y	497 497	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
416	Johnson, John Hayden	51	11/2021	06/2022	0%	1403	Y	442	CO2 within 10%	Excellent	-	(7) 481 ppm
421	Kelly Miller	54	11/2021	06/2022	0%	1274	Y	461	CO2 within 10%	Excellent	-	
257 272	Ketcham Key	40 33	11/2021 11/2021	06/2022 06/2022	0% 0%	1033 1902	Y	458 583	CO2 within 10% CO2 within 25%	Excellent Very Good	-	
259	Kimball	40	11/2021	06/2022	0%	965	Y	489	CO2 within 10%	Excellent	-	
344	King, M.L.	41	11/2021	06/2022	0%	1043	Y	457	CO2 within 10%	Excellent	-	(7) (02
417 261	Kramer Lafayette	45 65	11/2021 11/2021	06/2022 06/2022	0%	1720 1336	Y	482 470	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 602 ppm
262	Langdon	44	11/2021	06/2022	0%	1912	Υ	508	CO2 within 10%	Excellent	-	
418 264	Langley LaSalle-Backus	51 44	11/2021 11/2021	06/2022 06/2022	0%	2834 1055	Y	551 474	CO2 within 25% CO2 within 10%	Very Good Excellent	-	
266	Leckie	45	11/2021	06/2022	0%	1390	Y	474	CO2 within 10%	Excellent	-	
271	Ludlow-Taylor	44	11/2021	06/2022	0%	1044	Y	477	CO2 within 10%	Excellent	-	
884 420	Luke C. Moore Alternative MacFarland	32 47	11/2021 11/2021	06/2022 06/2022	0%	960 1616	Y	514 597	CO2 within 10% CO2 within 25%	Excellent Very Good	-	(7) 471 ppm
308	Malcolm X @ Green	47	11/2021	06/2022	0%	2052	Y	588	CO2 within 25%	Very Good	-	
273 284	Mann Marie Reed	40 47	11/2021	06/2022	0% 0%	1681 1624	Y	462 510	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
274	Maury	49	11/2021 11/2021	06/2022 06/2022	0%	1932	Y	350	CO2 within 10%	Good	-	(7) 445 ppm
458	McKinley	50	11/2021	06/2022	0%	1721	Y	465	CO2 within 10%	Excellent	-	
278 280	Meyer Miner	44	11/2021 11/2021	06/2022 06/2022	0%	1787 2817	Y	495 511	CO2 within 10% CO2 within 10%	Excellent	-	(7) 458 ppm
285	Moten	59	11/2021	06/2022	0%	1862	Y	443	CO2 within 10%	Excellent	-	(7) 462 ppm
287	Murch	55	11/2021	06/2022	0%	1107	Y	467	CO2 within 10%	Excellent	-	
288 290	Nalle Noyes	49 34	11/2021 11/2021	06/2022 06/2022	0%	1027 942	Y	460 450	CO2 within 10% CO2 within 10%	Excellent Excellent	-	(7) 455 ppm
201	Oyster-Adams Bilingual School (Adams)	36	11/2021	06/2022	0%	1307	Υ	515	CO2 within 10%	Excellent	-	VV - CPP***
292 294	Oyster-Adams Bilingual School (Oyster) Patterson, W. B.	31 39	11/2021 11/2021	06/2022 06/2022	0% 0%	1307 1809	Y	481 535	CO2 within 10% CO2 within 10%	Excellent Excellent	-	
294	Payne Payne	50	11/2021	06/2022	0%	1653	Y	522	CO2 within 10%	Excellent	-	
301	Peabody(Capitol Hill Cluster)	25	11/2021	06/2022	0%	1976	Y	529	CO2 within 10%	Excellent	-	
478 299	Phelps ACE Plummer	57 40	11/2021 11/2021	06/2022 06/2022	0%	1058 1979	Y	455 532	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 580 ppm
300	Powell	48	11/2021	06/2022	0%	2253	Υ	533	CO2 within 10%	Excellent	-	
316	Randle Highlands	44	11/2021	06/2022	0%	1095	Y	454	CO2 within 10%	Excellent Very Good	-	(7) 570
304 436	River Terrace Ron Brown College Preparatory	39 50	11/2021 11/2021	06/2022 06/2022	0%	1151 1644	Y	536 462	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 570 ppm
459	Roosevelt STAY	75	11/2021	06/2022	0%	1223	Υ	484	CO2 within 10%	Excellent	-	
305 307	Ross Savoy	16 48	11/2021 11/2021	06/2022 06/2022	0%	2260 1107	Y	507 482	CO2 within 10% CO2 within 10%	Excellent Very Good	-	(7) 556 ppm
243	School Without Walls HS	39	11/2021	06/2022	0%	1892	Y	510	CO2 within 10%	Excellent	-	(-) ppm
309	Seaton	50	11/2021	06/2022	0%	2342	Y	460	CO2 within 10%	Good	-	(7) 760 ppm
313 315	Shepherd Simon	41 36	11/2021 11/2021	06/2022 06/2022	0%	1387 993	Y	500 458	CO2 within 10% CO2 within 10%	Excellent Excellent	-	(7) 475 ppm
256	Smothers Swing(Kenilworth)	36	11/2021	06/2022	0%	1575	Y	291	CO2 within 10%	Good	-	(7) 844 ppm
427 319	Sousa Stanton	58 53	11/2021 11/2021	06/2022 06/2022	0%	949 4109	Y	441 551	CO2 within 10% CO2 within 25%	Excellent	-	
320	Stevens	26	11/2021	06/2022	0%	1509	Y	527	CO2 within 10%	Excellent	-	
321	Stoddert	39	11/2021	06/2022	0%	2010	Y	505	CO2 within 10%	Very Good	-	(7) 775 ppm
428 324	Stuart-Hobson(Capitol Hill Cluster) Takoma	51 61	11/2021 11/2021	06/2022 06/2022	0%	1502 1289	Y	512 492	CO2 within 10% CO2 within 10%	Excellent Very Good	-	(7) 679 ppm
325	Thomas, Neval	51	11/2021	06/2022	0%	2630	Υ	494	CO2 within 10%	Excellent	-	
326 327	Thomson, Strong John Truesdell	39 40	11/2021 11/2021	06/2022	0% 0%	862 2504	Y	461 543	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 553 ppm
32/	Tubman	40	11/2021	06/2022 06/2022	0%	1207	Y	543	CO2 within 10%	Excellent	-	(7) 514 ppm
328	Turner	51	11/2021	06/2022	0%	1929	Y	508	CO2 within 10%	Excellent	-	
329		52	11/2021 11/2021	06/2022 06/2022	0%	1293 974	Y	506 480	CO2 within 10% CO2 within 10%	Good Excellent	-	(7) 1232 ppm
329 330	Tyler Van Ness	48		,			Y		CO2 within 10%	Excellent		(7) 438 ppm
329	Tyler Van Ness Walker-Jones	48 63	11/2021	06/2022	0%	1042	Y	472	COZ WILIIII 1070	Excellent		(7) 438 ppm
329 330 331 332 333	Van Ness Walker-Jones Watkins (Capitol Hill Cluster)	63 43	11/2021 11/2021	06/2022	0%	1494	Y	477	CO2 within 10%	Excellent	-	(7) 464 ppm
329 330 331 332	Van Ness Walker-Jones	63	11/2021									
329 330 331 332 333 312 337 338	Van Ness Walker-Jones Watkins (Capitol Hill Cluster) West Elementary Wheatley Whittier	63 43 39 48 53	11/2021 11/2021 11/2021 11/2021 11/2021	06/2022 06/2022 06/2022 06/2022	0% 0% 0% 0%	1494 1749 983 1641	Y Y Y	477 492 457 532	CO2 within 10% CO2 within 10% CO2 within 10% CO2 within 10%	Excellent Good Very Good Good	-	(7) 464 ppm (7) 853 ppm (7) 750 ppm (7) 467 ppm
329 330 331 332 333 312 337	Van Ness Walker-Jones Watkins (Capitol Hill Cluster) West Elementary Wheatley	63 43 39 48	11/2021 11/2021 11/2021 11/2021	06/2022 06/2022 06/2022	0% 0% 0%	1494 1749 983	Y Y Y	477 492 457	CO2 within 10% CO2 within 10% CO2 within 10%	Excellent Good Very Good	-	(7) 464 ppm (7) 853 ppm (7) 750 ppm

(1) PM2.5 Events are based on alarms received from the school sensors that detect particulate levels above the threshold measured in ug/m*(3). 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 average.

(5) Air quality score is based on combined percent CO2 Ventilation percent, maximum CO2 and the number of PM 2.5 threshold events. "Good" will be based on CO2 ppm within 45% of avg. max level under 4000 and less than 45% PM 2.5 events, "Excellent" will be based on CO2 ppm within 25% of avg and less than 15% PM2.5 events. IAQ outside of these parameters will be defined as "Fair".

(6) Wells- Riley estimates 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 uggrades and align with the CDC 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 pm data received in December 2021 it wis 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.

Overall School System Average (PPM)

