DGS School Indoor Air Quality Monthly Report

Month and Year Reporting: February 2022



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Building Number	School Name	erating Air cleaners QTY	Classroom Filter Change (HEPA)	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 nbined PM 2.5 and CO2 Ventilation) (5)	Infection Risk of Airborne Virus (Wells-Riley) (6)	Comments	
		Ope	Last Clas	Next	Per	ð	Max	Over	8	(Com	Infect		
202	Aiton	49	11/2021	06/2022	0%	2566	Y	532	CO2 within 10%	Excellent	-		
203 450	Amidon Anacostia	38 54	11/2021 11/2021	06/2022 06/2022	0%	1108 821	Y	476 461	CO2 within 10%	Excellent Excellent	-		
452	Ballou/Ballou STAY	114	11/2021	06/2022	0%	1141	Y	454	CO2 within 10%	Excellent	-		
204 402	Bancroft Banneker	58 56	11/2021 11/2021	06/2022 06/2022	0%	1714 1516	Y	523 504	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
205	Barnard	53	11/2021	06/2022	0%	2457	Y	541	CO2 within 10%	Excellent	-		
206 208	Beers Birney	50 54	11/2021 11/2021	06/2022 06/2022	0% 0%	2992 3725	Y	527 562	CO2 within 10% CO2 within 25%	Excellent Good	-		
291 212	Boone(fomerly Orr ES) Brent	45 36	11/2021 11/2021	06/2022 06/2022	0%	985 2913	Y	531 533	CO2 within 10%	Excellent Very Good	-		
213	Brightwood	49	11/2021	06/2022	0%	1174	Υ	472	CO2 within 10%	Excellent	-		
347 404	Brookland Browne	49 73	11/2021 11/2021	06/2022 06/2022	0%	2432 2047	Y	532 521	CO2 within 10%	Excellent Excellent	-		
296	Bruce Monroe@Park View	51	11/2021	06/2022	0%	2188	Y	479	CO2 within 10%	Excellent	-		
219 476	Bunker Hill Burdick- Dorothy Height	48 37	11/2021 11/2021	06/2022 06/2022	0%	1292 644	Y	447 456	CO2 within 10% CO2 within 10%	Excellent Very Good	-	(7) 1405 PPM	
220 221	Burroughs Burrville	43 37	11/2021	06/2022	0% 0%	1211 1370	Y	468 471	CO2 within 10%	Excellent	-		
360	Capitol Hill Montessori School @ Logan	41	11/2021 11/2021	06/2022 06/2022	0%	1370	Y	482	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
454 224	Cardozo Cleveland	81 32	11/2021 11/2021	06/2022 06/2022	0% 0%	1573 1222	Y	477 476	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
442	Columbia Heights(CHEC)	99	11/2021	06/2022	0%	974	Υ	466	CO2 within 10%	Excellent	-		
227 455	Cooke, H.D. Coolidge HS & Wells MS	44 68	11/2021 11/2021	06/2022 06/2022	0%	1087 3268	Y	477 562	CO2 within 10% CO2 within 25%	Excellent Very Good	-		
229	Davis	43	11/2021	06/2022	0%	1729	Y	518	CO2 within 10%	Excellent	-	(7) 1170 PPM	
405 231	Deal Drew	77 46	11/2021 11/2021	06/2022 06/2022	0%	2607 1690	Y	508 491	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
471 467	Duke Ellington School of the Arts	92 77	11/2021 11/2021	06/2022 06/2022	0%	1817	Y	465 485	CO2 within 10% CO2 within 10%	Excellent	-		
467 457	Dunbar Eastern	93	11/2021	06/2022	0% 0%	1704 1875	Υ	485 468	CO2 within 10%	Excellent Excellent	-		
232 407	Eaton Eliot-Hine	35 38	11/2021 11/2021	06/2022 06/2022	0% 0%	1187 1063	Y	475 465	CO2 within 10% CO2 within 10%	Very Good Excellent	-		
409	School Without Walls- Francis Steven	50	11/2021	06/2022	0%	2160	Y	510	CO2 within 10%	Excellent	-		
208	Garfield Garrison	44 38	11/2021 11/2021	06/2022 06/2022	0%	1480 1052	Y	496 482	CO2 within 10%	Very Good Excellent	-		
242	Goding	46	11/2021	06/2022	0%	2747	Y	587	CO2 within 25%	Very Good	-		
246 247	Hardy Harris, C.W.	56 37	11/2021 11/2021	06/2022 06/2022	0% 0%	1215 914	Y	488 472	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
413	Hart	82	11/2021	06/2022	0%	1637	Υ	465	CO2 within 10%	Excellent	-	(7) 518 PPM	
258 249	Hearst Hendley	35 43	11/2021 11/2021	06/2022 06/2022	0%	1445 1959	Y	463 481	CO2 within 10%	Excellent Excellent	-		
251	Houston	46	11/2021	06/2022	0%	2659	Y	614	CO2 within 25%	Very Good	-		
252 254	Hyde-Addison Janney	31 55	11/2021 11/2021	06/2022 06/2022	0%	2128 1287	Y	523 496	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
415 416	Jefferson Middle School Academy	50 51	11/2021 11/2021	06/2022 06/2022	0% 0%	2414 901	Y	507 440	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
421	Johnson, John Hayden Kelly Miller	54	11/2021	06/2022	0%	1552	Y	479	CO2 within 10%	Excellent			
257 272	Ketcham Key	40 33	11/2021 11/2021	06/2022 06/2022	0%	1319 1488	Y	462 483	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
259	Kimball	40	11/2021	06/2022	0%	1143	Υ	495	CO2 within 10%	Excellent	-		
344 417	King, M.L. Kramer	41 45	11/2021 11/2021	06/2022 06/2022	0%	1379 1195	Y	470 476	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
261	Lafayette	65	11/2021	06/2022	0%	1106	Υ	490	CO2 within 10%	Excellent	-		
262 418	Langdon Langley	44 51	11/2021 11/2021	06/2022 06/2022	0%	1524 3697	Y	492 531	CO2 within 10%	Excellent Very Good	-		
264	LaSalle-Backus	44	11/2021	06/2022	0%	971	Y	463	CO2 within 10%	Excellent	-		
266 271	Leckie Ludlow-Taylor	45 44	11/2021 11/2021	06/2022 06/2022	0%	1294 2128	Y	484 509	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
884 420	Luke C. Moore Alternative MacFarland	32 47	11/2021 11/2021	06/2022 06/2022	0% 0%	1012 1572	Y	473 504	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
308	Malcolm X @ Green	47	11/2021	06/2022	0%	2231	Y	549	CO2 within 25%	Very Good	-		
273 284	Mann Marie Reed	40 47	11/2021 11/2021	06/2022 06/2022	0%	1159 2053	Y	458 493	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
274	Maury	49	11/2021	06/2022	0%	1454	Y	541	CO2 within 10%	Very Good	-	(7) 691 PPM	
458 278	McKinley Meyer	50 44	11/2021 11/2021	06/2022 06/2022	0%	2055 2246	Y	474 513	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
280	Miner	48	11/2021	06/2022	0%	2194	Y	497	CO2 within 10%	Excellent	-		
285 287	Moten Murch	59 55	11/2021 11/2021	06/2022 06/2022	0%	1626 2002	Y	453 501	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
288 290	Nalle Noyes	49 34	11/2021 11/2021	06/2022 06/2022	0% 0%	1141 905	Y	468 450	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
201	Oyster-Adams Bilingual School (Adams)	36	11/2021	06/2022	0%	1409	Y	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% 0%	1409 1584	Y	518 549	CO2 within 10% CO2 within 25%	Excellent Very Good	-		
295	Payne	50	11/2021	06/2022	0%	1790	Υ	520	CO2 within 10%	Excellent	-		
301 478	Peabody(Capitol Hill Cluster) Phelps ACE	25 57	11/2021 11/2021	06/2022 06/2022	0%	1142 1009	Y	485 466	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 44	11/2021 11/2021	06/2022 06/2022	0% 0%	2075 956	Υ	529 450	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%	955 1005	Y	473 477	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
459	Roosevelt STAY	75	11/2021	06/2022	0%	1483	Y	483	CO2 within 10%	Excellent	-		
305 307	Ross Savoy	16 48	11/2021 11/2021	06/2022 06/2022	0%	1697 1021	Y	512 472	CO2 within 10% CO2 within 10%	Excellent Excellent	-		
243	School Without Walls HS	39	11/2021	06/2022	0%	2096	Y	559	CO2 within 25%	Very Good	-		
309 313	Seaton Shepherd	50 41	11/2021 11/2021	06/2022 06/2022	0%	2342 1658	Y	460 494	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 860 PPM	
315	Simon	36	11/2021	06/2022	0%	1198	Υ	462	CO2 within 10%	Excellent	-	(10) 10.0	
256 427	Smothers Swing(Kenilworth) Sousa	36 58	11/2021 11/2021	06/2022 06/2022	0% 0%	1575 1141	Y	291 445	CO2 within 10% CO2 within 10%	Very Good Excellent	-	(7) 715 PPM	
319 320	Stanton Stevens	53 26	11/2021 11/2021	06/2022 06/2022	0% 0%	4178 1044	Y	548 490	CO2 within 25% CO2 within 10%	Good Excellent	-		
321	Stevens Stoddert	39	11/2021	06/2022	0%	1783	Υ	520	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%	1438 2504	Y	522 507	CO2 within 10% CO2 within 10%	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%	825 2660	Y	455 543	CO2 within 10% CO2 within 25%	Excellent Very Good	-		
328	Tubman	47	11/2021	06/2022	0%	1920	Y	497	CO2 within 10%	Excellent	-		
329 330	Turner Tyler	51 52	11/2021 11/2021	06/2022 06/2022	0% 0%	2319 1293	Y	501 506	CO2 within 10% CO2 within 10%	Excellent Very Good	-	(7) 1155 PPM	
331	Van Ness	48	11/2021	06/2022	0%	1376	Υ	489	CO2 within 10%	Excellent	-	4.7.2223.1110	
332 333	Walker-Jones Watkins (Capitol Hill Cluster)	63 43	11/2021 11/2021	06/2022 06/2022	0%	1098 2538	Y	452 519	CO2 within 10%	Excellent Excellent	-		
312	West Elementary	39	11/2021	06/2022	0%	1749	Y	492	CO2 within 10%	Very Good	-	(7) 588 PPM	
337 338	Wheatley Whittier	48 53	11/2021 11/2021	06/2022 06/2022	0%	913 1641	Y	478 532	CO2 within 10%	Excellent Very Good	-	(7) 653 PPM	
339	Wilson, J.O.	48	11/2021	06/2022	0%	933	Y	459	CO2 within 10%	Excellent	-		
463 464	Wilson, Woodrow Woodson, H.D.	94 64	11/2021 11/2021	06/2022 06/2022	0%	2457 1362	Y	502 492	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. 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% PM.2.5 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 February 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 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

