

Episode 56RM March 7, 2024. The source of one's air pollution is no longer unknowable. What to do. The source of one's air pollution is no longer unknowable. What to do. RAWSEP's editor sent statistics from the last six months from her own PurpleAir PM2.5 monitor to local health authorities this week, as she had asked viewers of these videos to do. The data is available to view on RAWSEP's videos also, and the numbers of the videos are put into the data set sent to local health authorities, so they can view them online if they wish. This data shows that the ambient (outside) air in RAWSEP's editor's back yard consistently has the highest levels of PM2.5 among all 24 PurpleAir PM2.5 monitors in her county. By disseminating this information, her local health authorities now know that in the hyperlocalized air around one indoor residential wood burner 60 feet away from the yard of a near neighbor, the PM2.5 levels exceed EPA NAAQS limits sometimes 100 percent of the time, at other times a considerable period of the time. When the indoor residential wood burner is not burning, levels return to zero PM2.5 detected. What to do. RAWSEP's editor has stayed inside her sealed home with multiple air purifiers running, as millions of United States citizens were told to do in June 2023 when PM2.5 wood smoke from Canadian wildfires invaded the United States. What to do later, or now. Stop indoor residential wood burning. Wood burning is 90% PM2.5, particulates of 2.5 micrometer size, the perfect size to infiltrate the human lung, setting off a cascade of human health problems and early deaths. Wood burning emits 2.8 times the PM2.5 as the fossil fuel coal burning. Wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. Here are the bare bones statistics RAWSEP's editor sent her local health authorities this week, on 3/4/2024. The LaFollette High School PurpleAir PM2.5 monitor used for comparison with RAWSEP's editor's 4205 Elinor Street PM2.5 monitor is 1.8 miles away from the 4205 Elinor Street monitor, demonstrating that PM2.5 is detectable using monitors in hyperlocalized areas not extending to large areas, in this case detectable 60 feet away from an indoor residential wood burner. LaFollette High School is also surrounded on one side by a cemetery, on two sides by a golf course and on the fourth side by a street, effectively shielding LaFollette from detectable PM2.5 air pollution from indoor residential wood burning in most instances, if any is happening near LaFollette High School. LaFollette's air pollution did go up in late December 2023, probably because bonfires were burning during the holiday season. Here are the statistics, hyperlocalized proof of the source of one's air pollution, now knowable, thanks to PurpleAir PM2.5 monitors. The comparisons to LaFollette did not begin until December 2023 and the data runs up to March 2, 2024. Statistics begin on 10/15/2023.

In 2023 percent above NAAQS annual PM2.5 "safe" limit in 3 day period  
 Date is end day of 3 day period  
 for Wisconsin, Madison, 4205 Elinor Street PurpleAir Monitor  
 60 feet away from indoor residential wood burner

Date	Comparison to LaFollette		Comparison to LaFollette	
	% above 12 µg/m3	% above 35 µg/m3	Episode	% above 35 µg/m3
10/15/2023	5.41	N/A	56JZ	N/A
10/17/2024	0	N/A	56KA	N/A
10/20/2024	98	9	56KE	N/A
10/23/2023	57	20		N/A
10/26/2023	95	41	56KJ	N/A
10/29/2023	78	28	56KO	N/A
11/1/2023	100	19	56KT	N/A
11/3/2023	98	40	56KY	N/A
11/6/2023	100	71	56LB	N/A
11/9/2023	68	11	56LG	N/A
11/12/2023	66	11	56LL	N/A
11/15/2023	76	15	56LP	N/A
11/18/2023	79	28	56LT	N/A
11/21/2023	96	25	56LW	N/A
11/24/2023	64	9	56MB	N/A
11/27/2023	75	31	56MF	N/A
11/30/2023	63	39	56MH	N/A
12/3/2023	95	22	56ML	N/A
12/6/2023	88	53	56MO	42
12/9/2023	99	59	56MS	62
12/12/2023	53	13	56MY	9
12/15/2023	70	33	56NC	29
12/18/2023	96	65	56NH	77
12/21/2023	78	24	56NO	12
12/24/2023	100	100	56NV	100
12/27/2023	78	44	56NZ	48
12/30/2023	85	8	56OE	6

20240304 4205 Elinor Street, Madison, WI 3 day PM2.5 average compared to Lafollette High School 1.8 miles away  
 4205 is 60 feet away from an indoor residential wood stove, Lafollette is away from residences, with cemetery on  
 one side, golf course on two sides and street on 4th side.

Date	Elinor	Lafollette	Episode number	
20240102	20	7	56OH	
20240105		27	8	56OM
20240108	55	29	56OQ	
20240111	32	31	56OV	
20240114		23	9	56OY
20240117		10	2	56PD
20240120	21	3	56PH	
20240123		40	8	56PL
20240126	48	25	56PR	
20240129	31	10	56PW	
20240129	32	11	56PV	
20240201		34	13	56QA
20240204	36	16	56QF	
20240207	52	24	56QK	
20240210		30	15	56QP
20240213	23	4	56QT	
20240216	27	7	56QVC	
20240219		22	3	56QYC
20240222		47	21	56RAC
20240225	27	10	56RDC	
20240228		27	11	56RFC
20240302		19	5	56RiC