Episode 56LC November 6, 2023. Making Coast to Coast PM2.5 above NAAQS 12, 25 and or 35 ug/m3, % over 3 days, XL statistics for an individual Resident-owned Hyper-localized PurpleAir Monitor.

Step 1: Using the Google Search Engine, Open PurpleAir Maps type your monitor location in the Search Box, click on your monitor to create a chart of the last 3 days, click on the 3 bars on the top right and download a CSV file of 3 days of statistics. Save the CSV file to your computer, open the file and **highlight all cells A1:D433, copy.**



🛀 us	-epa	-pm	25-a	qi
А	В	С	D	
ateTime	Average	Elinor and	Elinor and	Gary
1/3/2023 11:10	82.9	35	37	

	A	D	C	U	
1	DateTime	Average	Elinor and	Elinor and	Gary
2	11/3/2023 11:10	82.9	35	37	
3	11/3/2023 11:20		51	49	
4	11/3/2023 11:30		42	44	
5	11/3/2023 11:40		36	35	
6	11/3/2023 11:50		37	35	
7	11/3/2023 12:00		37	34	
8	11/3/2023 12:10		34	34	
9	11/3/2023 12:20		37	38	
10	11/3/2023 12:30		34	34	
11	11/3/2023 12:40		35	34	
12	11/3/2023 12:50		37	36	
13	11/3/2023 13:00		35	36	
14	11/3/2023 13:10		37	37	
,	< > <u>u</u>	s-epa-pm2	25-aqi	+	

Step 2: You have highlighted all cells A1:D433 in CSV file, now click copy. Exit the CSV file, not saving, but clicking the box to agree to save all the cells you have saved, to copy to the RAWSEP % calculation TEMPLATE. Open the RAWSEP % calculation Template **and paste 123** (what you have saved) into the TEMPLATE A3:D435. **Change H5 to your own monitor city &**

state.

	А	В	С	D	E	F	G	Н	-	J		
1	% 3 days >NAAQS	98.38%	40.05%	6.02%	PA x 0.514	0 + 1.8304	conversio	PA	0.514	1.8304		
2	Elinor and Gary A	12 ug/m3	25 ug/m3	35 ug/m3	425	173	26	no. 10 minute pe	riods in 72	nours, 3 sheets		
3	DateTime	Average	Elinor and	Elinor and	above12	above25	above35	12,25,35 microgr	rams per cu	bic meter PM2.5		
4	10/31/2023 6:50	43.2	62	60	33.6984	33.6984	33.6984	Wisconsin,Madis	ion	Elinor and Gary A		
5	10/31/2023 7:00		59	59	32.1564	32.1564	32.1564	10/31/2023 6:50	to	11/3/2023 6:40		
6	10/31/2023 7:10		59	60	32.1564	32.1564	32.1564	Above 12 microg	rams per ci	ubic meter PM2.5?		
7	10/31/2023 7:20		59	58	32.1564	32.1564	32.1564	425	10	4250		
8	10/31/2023 7:30		57	55	31.1284	31.1284	31.1284	data periods of 1	0 minutes e	equals periods x 10		
9	10/31/2023 7:40		56	55	30.6144	30.6144	30.6144	4250	60	70.83333333		
10	10/31/2023 7:50		58	56	31.6424	31.6424	31.6424	minutes divided b	oy 60= hou	rs in 3 days 72 hou		
11	10/31/2023 8:00		59	57	32.1564	32.1564	32.1564	70.83333333	72	98.38%		
12	10/31/2023 8:10		56	57	30.6144	30.6144	30.6144	hours divided by 3	72 = % days	; > 12ug/m3 PM2. <mark>5</mark>		
13	10/31/2023 8:20		56	57	30.6144	30.6144	30.6144	Above 25 microg	rams per ci	ubic meter PM2.5?		
14	10/31/2023 8:30		57	56	31.1284	31.1284	31.1284	173	10	1730		
15	10/31/2023 8:40		56	56	30.6144	30.6144	30.6144	data periods of 1	0 minutes e	equals periods x 10		
16	10/31/2023 8:50		55	54	30.1004	30.1004	30.1004	1730	60	28.83333333		
17	10/31/2023 9:00		54	54	29.5864	29.5864	29.5864	minutes divided b	oy 60= hou	rs in 3 days 72 hou		
18	10/31/2023 9:10		49	49	27.0164	27.0164	27.0164	28.83333333	72	40.05%		
	$\langle \rangle$	us-ep	pa-pm2	5-aqi	YELLC	W 12 sc	ort C	RANGE 25 so	ort R	ED 35 sort		

Step 3: Copy from the **MAIN PAGE of the TEMPLATE A:4:G435.** Paste 123 this copy, to YELLOW, ORANGE, & RED Sheets, **at A1** on each sheet. Save.

																		A	1 ~		$\sqrt{f_x}$	10/31	/2023 1	:10:00 PI	M	
	A	В	C D		E	F	G												А	в	С	D	E	F	G	н
1	10/31/2023 6:50	43.2	62	60	33.6984	33.6984	33.6984											1	10/31/2023 13:10		65	64	35.2404	35.2404	35.2404	
2	10/31/2023 7:00		59	59	32.1564	32.1564	32.1564											2	10/31/2023 13:20		71	68	38.3244	38.3244	38.3244	
3	10/31/2023 7:10		59	60	32.1564	32.1564	32.1564											3	10/31/2023 13:30		65	65	35.2404	35.2404	35.2404	
4	10/31/2023 7:20		59	58	32.1564	32.1564	32.1564	A	1 ~	$\pm \times$	$\sqrt{f_x}$	10/31	/2023 6	50:00 A	М			4	10/31/2023 14:40		65	64	35.2404	35.2404	35.2404	
5	10/31/2023 7:30		57	55	31.1284	31.1284	31.1284											5	10/31/2023 14:50		66	65	35.2404	35.2404	35.2404	
6	10/31/2023 7:40		56	55	30.6144	30.6144	30.6144		A	В	С	D	E	F	G	Н	1	7	10/31/2023 15:10		67	65	36,2684	36,2684	36,2684	
7	10/31/2023 7:50		58	56	31,6424	31,6424	31,6424	1	10/31/2023 6:50	43.2	62	60	33.6984	33.6984	33.6984	Ļ		8	10/31/2023 15:30		68	64	36.7824	36.7824	36.7824	
8	10/31/2023 8:00		59	57	32 1564	32 1564	32 1564	2	10/31/2023 7:00		59	59	32.1564	32.1564	32.1564	Ļ		9	11/1/2023 3:00		148	146	77.9024	77.9024	77.9024	
a	10/31/2023 8:10		56	57	30 6144	30 6144	30 6144	3	10/31/2023 7:10		59	60	32.1564	32.1564	32.1564	L .		10	11/1/2023 3:10		116	114	61.4544	61.4544	61.4544	
10	10/31/2023 8:10		56	57	20 6144	20 6144	20 6144	4	10/31/2023 7:20		59	58	32.1564	32.1564	32.1564	L		11	11/1/2023 16:20		77	72	41.4084	41.4084	41.4084	
11	10/31/2023 8.20		50	57	21 1204	21 1204	21 1204	5	10/31/2023 7:30		57	55	31.1284	31.1284	31.1284	L		12	11/1/2023 21:40		73	75	39.3524	39.3524	39.3524	
11	10/31/2023 8:30		57	50	20, 6144	31.1204	31,1204	6	10/31/2023 7:40		56	55	30.6144	30,6144	30.6144	L		13	11/2/2023 20:20		65	65	35.2404	35.2404	35.2404	
12	10/31/2023 8:40		50	50	30.6144	30.6144	30.0144	7	10/31/2023 7:50		58	56	31 6424	31 6424	31 6424			14	11/2/2023 20:30		66	63	35.7544	35.7544	35.7544	
13	10/31/2023 8:50		55	54	30.1004	30.1004	30.1004	0	10/21/2023 9:00		59	57	22 1564	22 1564	22 1564			16	11/2/2023 20:50		65	62	35.2404	35.2404	35.2404	
14	10/31/2023 9:00		54	54	29.5864	29.5864	29.5864	0	10/21/2023 8:00		55	57	20 6144	20 6144	20 6144			17	11/2/2023 21:30		65	65	35.2404	35.2404	35.2404	
15	10/31/2023 9:10		49	49	27.0164	27.0164	27.0164	9	10/31/2023 8:10		50	57	20.6144	30.0144	30.0144			18	11/2/2023 21:40		65	65	35.2404	35.2404	35.2404	
16	10/31/2023 9:20		43	44	23.9324	23.9324	23.9324	10	10/31/2023 8:20		50	5/	30.0144	30.0144	30.0144			19	11/2/2023 21:50		69	68	37.2964	37.2964	37.2964	
17	10/31/2023 9:30		36	36	20.3344	20.3344	20.3344	11	10/31/2023 8:30		57	56	31.1284	31.1284	31.1284	-		_	$\langle \rangle$	YELL	OW 12 sor	t C	DRANGE	25 sort	RED	35 sort
18	10/31/2023 9:40		31	30	17.7644	17.7644	17.7644	12	10/31/2023 8:40		56	56	30.6144	30.6144	30.6144	ł										
19	10/31/2023 9:50		26	25	15.1944	15.1944	15.1944	13	10/31/2023 8:50		55	54	30.1004	30.1004	30.1004	ł										
	1				YELLO	W 12 so	rt o	14	10/31/2023 9:00		54	54	29.5864	29.5864	29.5864	ł										
		us-ep	ba-pmz5-aqi					15	10/31/2023 9:10		49	49	27.0164	27.0164	27.0164	L I										
								16	10/31/2023 12:20		46	46	25.4744	25.4744	25.4744	Ļ										
								17	10/31/2023 12:40		46	47	25.4744	25.4744	25.4744	Ļ										
								18	10/31/2023 12:50		46	49	25.4744	25.4744	25.4744	Ļ										
								19	10/31/2023 13:00		60	57	32.6704	32.6704	32.6704	Ļ										
									$\langle \rangle$	us-ep	pa-pm25-	-aqi	YELLO	W 12 so	rt C	DRANGE	25 sort									

Step 4: **Sort YELLOW, ORANGE, & RED Sheets**, highlighting the sheet, then using Custom Sort by Cell Color at top, Yellow for YELLOW sheet, Orange for ORANGE sheet, and Red for RED sheet. note the number of the last row of color for each sheet and type the row number in the MAIN Sheet E2 for Yellow (425), F2 for Orange(173), G2 for Red(26). **See the percentage for 3 days populate in the left blue box. (See Slide 1) Save naming the file your own monitor name and date.**

	Α	В	С	D	E	F	G	-			<i>. .</i>								1 ~	$\mathbf{I}[\mathbf{X}]$	$\sqrt{f_x}$	10/31/2023 1:10:00 PM				
1	10/31/2023 6:50	43.2	62	60	33.6984	33.6984	33.6984	A	1 ~		\sqrt{Jx}	10/31	/2023 6	:50:00 A	M				Δ	в	C	D	F	F	G	н
2	10/31/2023 7:00		59	59	32.1564	32.1564	32.1564		•	D	6	D	E	E	G	ш		1	10/31/2023 13:10	5	65	64	35.2404	35.2404	35.2404	
3	10/31/2023 7:10		59	60	32.1564	32.1564	32.1564		A 10/21/2022 6:50	D 42.2	62	0	22 6004	F	22.6004	п	1	2	10/31/2023 13:20		71	68	38.3244	38.3244	38.3244	
4	10/31/2023 7:20		59	58	32.1564	32.1564	32.1564	-	10/31/2023 0:50	43.2	02	50	33.0984	33.0984	33.0984			3	10/31/2023 13:30		65	65	35.2404	35.2404	35.2404	
5	10/31/2023 7:30		57	55	31.1284	31.1284	31.1284	2	10/31/2023 7:00		59	59	32.1564	32,1504	32.1504			4	10/31/2023 14:40		65	64	35.2404	35.2404	35.2404	
6	10/31/2023 7:40		56	55	30.6144	30.6144	30.6144	3	10/31/2023 /:10		59	60	32.1564	32,1564	32.1564			5	10/31/2023 14:50		65	65	35.2404	35.2404	35.2404	
7	10/31/2023 7:50		58	56	31.6424	31.6424	31.6424	4	10/31/2023 7:20		59	58	32.1564	32.1564	32.1564			7	10/31/2023 15:00		67	65	36,2684	36,2684	36,2684	
8	10/31/2023 8:00		59	57	32.1564	32.1564	32.1564	5	10/31/2023 7:30		57	55	31.1284	31.1284	31.1284			8	10/31/2023 15:30		68	64	36.7824	36.7824	36.7824	
9	10/31/2023 8:10		56	57	30.6144	30.6144	30.6144	6	10/31/2023 7:40		56	55	30.6144	30.6144	30.6144			9	11/1/2023 3:00		148	146	77.9024	77.9024	77.9024	
10	10/31/2023 8:20		56	57	30.6144	30,6144	30.6144	7	10/31/2023 7:50		58	56	31.6424	31.6424	31.6424			10	11/1/2023 3:10		116	114	61.4544	61.4544	61.4544	
11	10/31/2023 8:30		57	56	31 1284	31 1284	31 1284	8	10/31/2023 8:00		59	57	32.1564	32.1564	32.1564			11	11/1/2023 16:20		77	72	41.4084	41.4084	41.4084	
12	10/21/2022 8:40		56	56	20 6144	20 6144	20 6144	9	10/31/2023 8:10		56	57	30.6144	30.6144	30.6144			12	11/1/2023 21:40		73	75	39.3524	39.3524	39.3524	
12	10/31/2023 8.40		50	50	20.1004	20.1004	20.1004	10	10/31/2023 8:20		56	57	30.6144	30.6144	30.6144			13	11/2/2023 20:20		65	66	35.2404	35.2404	35.2404	
15	10/31/2023 8:50		55	54	30.1004	30.1004	30.1004	11	10/31/2023 8:30		57	56	31.1284	31.1284	31.1284			14	11/2/2023 20:30		00 66	62	35.7544	35.7544	35.7544	
14	10/31/2023 9:00		54	54	29.5864	29.5864	29.5864	12	10/31/2023 8:40		56	56	30.6144	30.6144	30.6144			16	11/2/2023 20:40		65	62	35,2404	35.2404	35.2404	
15	10/31/2023 9:10		49	49	27.0164	27.0164	27.0164	13	10/31/2023 8:50		55	54	30,1004	30,1004	30,1004			17	11/2/2023 21:30		65	65	35.2404	35.2404	35.2404	
16	10/31/2023 9:20		43	44	23.9324	23.9324	23.9324	14	10/31/2023 9:00		54	54	29.5864	29,5864	29.5864			18	11/2/2023 21:40		65	65	35.2404	35.2404	35.2404	
17	10/31/2023 9:30		36	36	20.3344	20.3344	20.3344	15	10/31/2023 9:10		49	49	27 0164	27 0164	27 0164			19	11/2/2023 21:50		69	68	37.2964	37.2964	37.2964	
18	10/31/2023 9:40		31	30	17.7644	17.7644	17.7644	16	10/21/2022 12:20		45	46	25 4744	25 4744	25 4744				< > …	YELLO	DW 12 sort	. (RANGE	25 sort	RED	35 sort
19	10/31/2023 9:50		26	25	15.1944	15.1944	15.1944	17	10/21/2023 12:20		40	40	25.4744	25.4744	25.4744											
	$\langle \rangle$	us-or		ani	YELLO	W 12 so	rt C	10	10/31/2023 12:40		40	4/	25.4744	25.4744	25.4744											
		us-ep	Ja-pinz J-	aqı				18	10/31/2023 12:50		40	49	25.4744	25.4744	25.4744											
								19	10/31/2023 13:00		60	57	32.0/04	32.0/04	32.0/04											
									$\langle \rangle$	us-ep	a-pm25-	aqi	YELLO	W 12 sc	ort O	RANGE 2	25 sort									