

Supplementary for

Scavenging of Sub-Micron to Micron-Sized Microbial Aerosols during Simulated Rainfall

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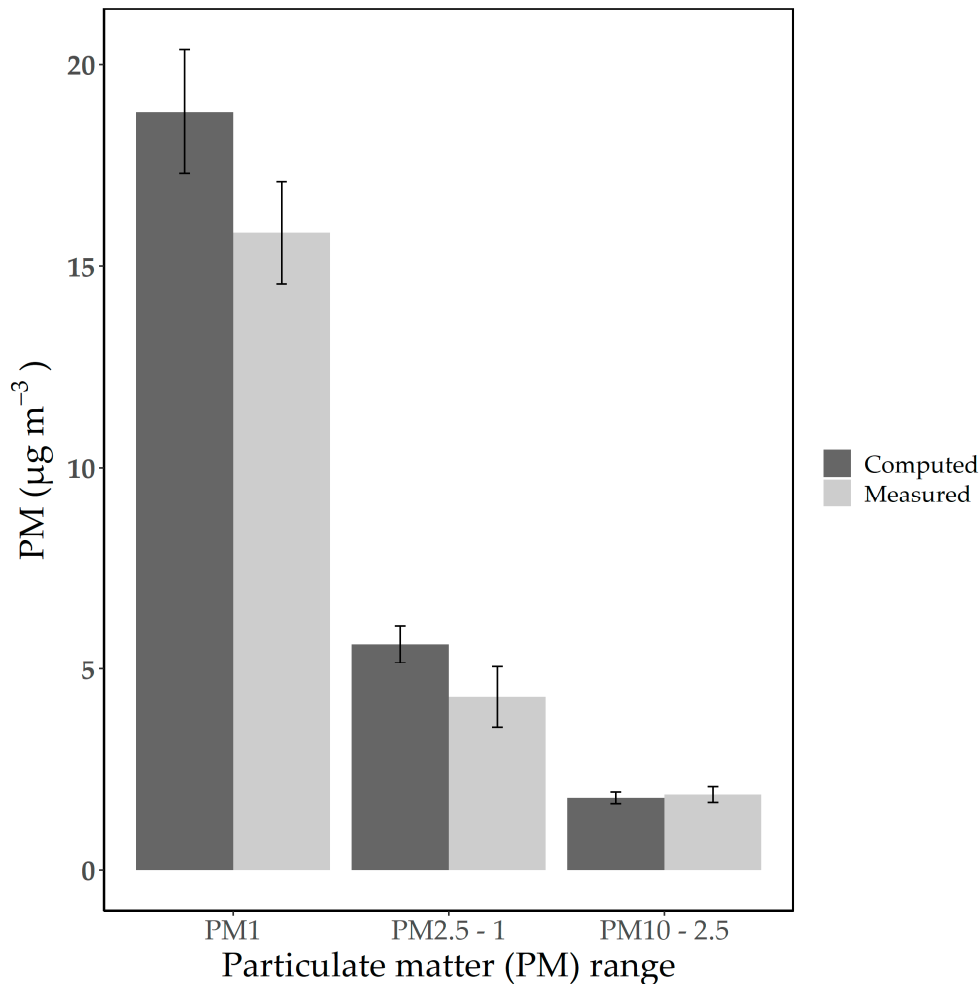


Figure S1. Comparison of measured (particle sensor data) with computed (Equation (2)) PM₁, PM_{2.5-1}, and PM_{10-2.5} values across all SREs.

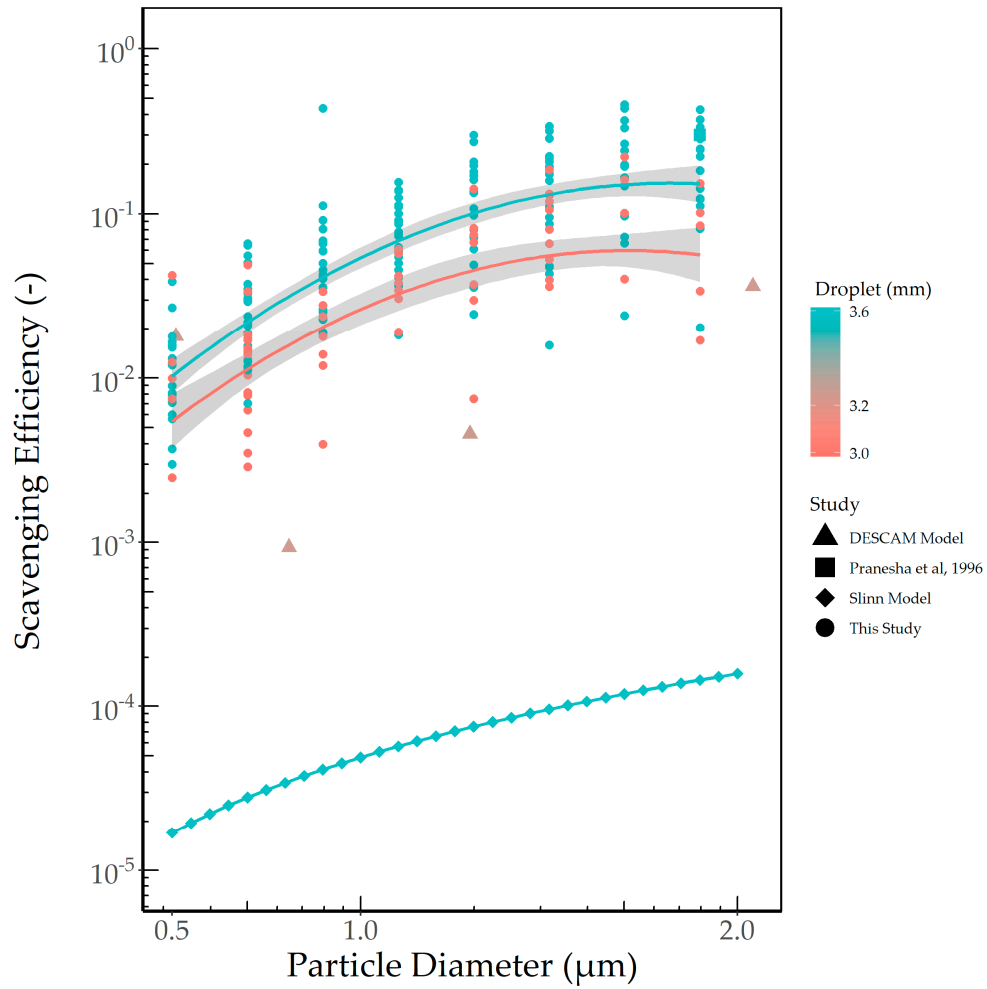


Figure S2. Comparison of the scavenging efficiencies derived in this study with published and modeled values.

Table 1. Drop volumes.

Large-Hole-Pour- μl	Small-Hole-Pour- μl
43	44.2
7	47
27	56
12.5	21
14.5	21.3
20.6	32.6
9	5.2
46.5	13.5
9.3	22
21.2	11.4
22.6	18.6
18.7	9.9
11.4	21
55	11.2
39	13
28.2	3.4
17.9	3.5
4.5	14.5
31.4	19.3

21.2	23
19.9	15.9
3.9	23.8
2.1	26.6
29.8	28.4
21.1	41.2
44	12.4
20.6	37
37	8.1
43	5.3
17.7	5.9
25.3	12.3
36	15.7
55.2	4
10.1	17.8
22	7.5
14.4	6
30.2	10.3
52	5.4
17	14.5
11.8	4.8
23.8	7.2
25.4	6
44	13.6
7.7	5.3
25.6	7.4
19.1	4.2
26	10.2
39.6	4.7
11.7	3.8
48.8	5.9
38.2	6.6
16.5	13.8
	2.4
	2.7
	4.9
	6.7

Table S2. Scavenging efficiencies from all replicates.

Diameter_Object_um	Scavenging_Efficiency_all_reps	Droplet_Diameter_mm	Object_Type
0.50	0.007093	3.6	Particle
0.50	0.005658	3.6	Particle
0.50	0.007896	3.6	Particle
0.50	0.008107	3.6	Particle
0.50	0.007431	3.6	Particle
0.50	0.003716	3.6	Particle
0.50	0.015388	3.6	Particle
0.50	0.015763	3.6	Particle
0.50	0.016514	3.6	Particle
0.50	0.008107	3.6	Particle
0.50	0.013174	3.6	Particle
0.50	0	3.6	Particle
0.70	0.032942	3.6	Particle
0.70	0.021961	3.6	Particle
0.70	0.011765	3.6	Particle
0.70	0.015687	3.6	Particle

0.70	0.029805	3.6	Particle
0.70	0.018824	3.6	Particle
0.70	0.064489	3.6	Particle
0.70	0.055775	3.6	Particle
0.70	0.034859	3.6	Particle
0.70	0.015687	3.6	Particle
0.70	0.037648	3.6	Particle
0.70	0.007843	3.6	Particle
0.90	0.050325	3.6	Particle
0.90	0.435766	3.6	Particle
0.90	0.041747	3.6	Particle
0.90	0.04575	3.6	Particle
0.90	0.068625	3.6	Particle
0.90	0.0183	3.6	Particle
0.90	0.025417	3.6	Particle
0.90	0.066083	3.6	Particle
0.90	0.0915	3.6	Particle
0.90	0.0183	3.6	Particle
0.90	0.059475	3.6	Particle
0.90	0.022875	3.6	Particle
1.10	0.112916	3.6	Particle
1.10	0.034502	3.6	Particle
1.10	0.05489	3.6	Particle
1.10	0.075278	3.6	Particle
1.10	0.062731	3.6	Particle
1.10	0.10037	3.6	Particle
1.10	0.111522	3.6	Particle
1.10	0.125463	3.6	Particle
1.10	0.139403	3.6	Particle
1.10	0.087824	3.6	Particle
1.10	0.050185	3.6	Particle
1.10	0.075278	3.6	Particle
1.30	0	3.6	Particle
1.30	0.073635	3.6	Particle
1.30	0.061362	3.6	Particle
1.30	0.196359	3.6	Particle
1.30	0.04909	3.6	Particle
1.30	0.024545	3.6	Particle
1.30	0.13636	3.6	Particle
1.30	0.299993	3.6	Particle
1.30	0.272721	3.6	Particle
1.30	0.098179	3.6	Particle
1.30	0.073635	3.6	Particle
1.30	0	3.6	Particle
1.50	0	3.6	Particle
1.50	0.130474	3.6	Particle
1.50	0	3.6	Particle
1.50	0.086983	3.6	Particle
1.50	0.043491	3.6	Particle
1.50	0.217456	3.6	Particle
1.50	0.048324	3.6	Particle
1.50	0.338265	3.6	Particle
1.50	0.193294	3.6	Particle
1.50	0.173965	3.6	Particle
1.50	0.173965	3.6	Particle
1.50	0	3.6	Particle
1.70	0.198739	3.6	Particle
1.70	0.264986	3.6	Particle

1.70	0.165616	3.6	Particle
1.70	0	3.6	Particle
1.70	0.066246	3.6	Particle
1.70	0.331232	3.6	Particle
1.70	0.147214	3.6	Particle
1.70	0.368036	3.6	Particle
1.70	0.147214	3.6	Particle
1.70	0	3.6	Particle
1.70	0.198739	3.6	Particle
1.70	0	3.6	Particle
1.90	0	3.6	Particle
1.90	0.334572	3.6	Particle
1.90	0.223048	3.6	Particle
1.90	0.111524	3.6	Particle
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1.90	0	3.6	Particle
1.90	0.247831	3.6	Particle
1.90	0.123915	3.6	Particle
1.90	0.371746	3.6	Particle
1.90	0.334572	3.6	Particle
1.90	0.111524	3.6	Particle
1.90	0	3.6	Particle
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0.70	0	3	Particle
0.70	0.00627	3	Particle
0.70	0.012796	3	Particle
0.70	0.017914	3	Particle
0.70	0.014076	3	Particle
0.70	0.014218	3	Particle
0.70	0	3	Particle
0.70	0.002844	3	Particle
0.70	0.007678	3	Particle
0.70	0	3	Particle
0.70	0.016994	3	Particle
1.50	0.032847	3	Particle
1.50	0	3	Particle
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1.50	0.032847	3	Particle
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1.50	0	3	Particle
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1.50	0.032847	3	Particle
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0.50	0.005986	3.6	Cell
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