

United States Environmental Protection Agency
March 1998

Analysis of Carbon Monoxide Exposure for Fourteen Cities using HAPEM-MS3

Appendix A

HAPEM- MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990

Note that the electronic version of Appendix A is not organized the same as the hardcopy.
Instead of being organized just by city, it is organized by type of data and by city.

Baltimore: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.05	(8.64)	12.24	(9.23)	15.21	(9.58)	16.55	(8.86)	61.05	(9.04)
In transit, bus	2.82	(1.43)	1.36	(1.02)	0.95	(0.60)	2.43	(1.30)	7.55	(1.12)
In transit, truck	1.12	(0.57)	1.17	(0.88)	1.21	(0.76)	1.28	(0.69)	4.79	(0.71)
In transit, van	0.83	(0.42)	0.64	(0.48)	0.79	(0.50)	0.98	(0.52)	3.24	(0.48)
Indoors, public garage	0.32	(0.16)	0.13	(0.10)	0.11	(0.07)	0.27	(0.14)	0.82	(0.12)
Outdoors, in a parking lot	1.44	(0.73)	0.98	(0.74)	1.23	(0.77)	1.27	(0.68)	4.93	(0.73)
Outdoors, along a roadway	8.59	(4.35)	7.74	(5.84)	11.39	(7.17)	8.76	(4.69)	36.48	(5.40)
In transit, motorcycle	0.06	(0.03)	0.11	(0.08)	0.25	(0.16)	0.03	(0.02)	0.46	(0.07)
Indoors, service station	0.43	(0.22)	0.20	(0.15)	0.13	(0.08)	0.37	(0.20)	1.13	(0.17)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.16	(0.08)	0.10	(0.07)	0.07	(0.04)	0.17	(0.09)	0.49	(0.07)
Indoors, in a repair shop	0.01	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, home	122.46	(62.04)	78.72	(59.35)	94.36	(59.40)	115.58	(61.88)	411.12	(60.85)
Indoors, office	6.36	(3.22)	4.47	(3.37)	4.92	(3.09)	5.69	(3.05)	21.44	(3.17)
Indoors, store	3.89	(1.97)	2.51	(1.89)	3.01	(1.90)	3.41	(1.82)	12.82	(1.90)
Indoors, restaurant	4.29	(2.17)	2.67	(2.01)	3.04	(1.91)	3.82	(2.05)	13.82	(2.05)
Indoors, mfg. facility	2.43	(1.23)	1.67	(1.26)	1.78	(1.12)	2.20	(1.18)	8.07	(1.20)
Indoors, school	13.02	(6.60)	6.71	(5.06)	4.54	(2.86)	11.66	(6.24)	35.93	(5.32)
Indoors, church	0.90	(0.45)	0.54	(0.41)	0.55	(0.35)	0.89	(0.48)	2.88	(0.43)
Indoors, shopping mall	1.27	(0.65)	0.79	(0.59)	0.76	(0.48)	1.11	(0.59)	3.93	(0.58)
Indoors, auditorium	0.14	(0.07)	0.11	(0.09)	0.15	(0.10)	0.18	(0.09)	0.58	(0.09)
Indoors, health care facility	1.42	(0.72)	0.85	(0.64)	0.77	(0.48)	1.40	(0.75)	4.44	(0.66)
Indoors, public building	0.45	(0.23)	0.40	(0.30)	0.58	(0.36)	0.46	(0.25)	1.89	(0.28)
Indoors, other location	3.75	(1.90)	2.90	(2.19)	3.08	(1.94)	3.88	(2.08)	13.61	(2.01)
Indoors, not specified	0.05	(0.02)	0.04	(0.03)	0.08	(0.05)	0.03	(0.02)	0.19	(0.03)
Outdoors, construction	0.44	(0.22)	0.37	(0.28)	0.32	(0.20)	0.42	(0.23)	1.54	(0.23)
Outdoors, residential grounds	1.81	(0.92)	2.64	(1.99)	5.12	(3.22)	1.96	(1.05)	11.53	(1.71)
Outdoors, school grounds	1.23	(0.62)	0.85	(0.64)	0.67	(0.42)	1.22	(0.66)	3.98	(0.59)
Outdoors, sports arena	0.05	(0.03)	0.17	(0.12)	0.35	(0.22)	0.05	(0.03)	0.62	(0.09)
Outdoors, park/golf course	0.22	(0.11)	0.50	(0.38)	1.03	(0.65)	0.28	(0.15)	2.04	(0.30)
Outdoors, other location	0.37	(0.19)	1.03	(0.78)	2.38	(1.50)	0.34	(0.18)	4.13	(0.61)
Outdoors, not specified	0.04	(0.02)	0.03	(0.03)	0.03	(0.02)	0.04	(0.02)	0.14	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually f
Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.66	(7.96)	9.07	(6.69)	10.61	(6.80)	12.53	(6.88)	47.87	(7.14)
In transit, bus	5.08	(2.58)	4.69	(3.45)	3.98	(2.55)	5.89	(3.23)	19.63	(2.93)
In transit, truck	0.00	(0.00)	0.37	(0.28)	0.54	(0.34)	0.00	(0.00)	0.91	(0.14)
In transit, van	0.00	(0.00)	0.02	(0.02)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.15	(0.59)	0.78	(0.57)	1.30	(0.83)	0.77	(0.42)	4.00	(0.60)
Outdoors, along a roadway	5.16	(2.62)	7.29	(5.37)	12.34	(7.91)	5.18	(2.85)	29.97	(4.47)
In transit, motorcycle	0.14	(0.07)	0.12	(0.09)	0.09	(0.05)	0.20	(0.11)	0.55	(0.08)
Indoors, service station	0.00	(0.00)	0.05	(0.04)	0.07	(0.05)	0.00	(0.00)	0.12	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.03	(0.02)	0.04	(0.03)	0.00	(0.00)	0.08	(0.01)
Indoors, home	137.61	(69.89)	90.55	(66.75)	103.59	(66.42)	127.81	(70.22)	459.56	(68.54)
Indoors, office	0.38	(0.19)	1.49	(1.10)	1.80	(1.15)	0.69	(0.38)	4.35	(0.65)
Indoors, store	1.19	(0.60)	1.18	(0.87)	1.92	(1.23)	1.21	(0.67)	5.50	(0.82)
Indoors, restaurant	2.09	(1.06)	0.45	(0.33)	0.32	(0.20)	1.26	(0.69)	4.11	(0.61)
Indoors, mfg. facility	2.95	(1.50)	0.82	(0.61)	0.65	(0.42)	1.59	(0.87)	6.02	(0.90)
Indoors, school	10.48	(5.33)	8.26	(6.09)	5.05	(3.24)	11.91	(6.55)	35.70	(5.32)
Indoors, church	2.82	(1.43)	1.39	(1.02)	1.54	(0.99)	2.33	(1.28)	8.08	(1.20)
Indoors, shopping mall	0.43	(0.22)	0.57	(0.42)	0.45	(0.29)	0.77	(0.42)	2.22	(0.33)
Indoors, auditorium	0.06	(0.03)	0.06	(0.04)	0.04	(0.03)	0.11	(0.06)	0.27	(0.04)
Indoors, health care facility	1.78	(0.90)	2.16	(1.60)	3.18	(2.04)	2.06	(1.13)	9.18	(1.37)
Indoors, public building	0.07	(0.03)	0.20	(0.15)	0.45	(0.29)	0.09	(0.05)	0.81	(0.12)
Indoors, other location	7.71	(3.92)	1.97	(1.45)	2.30	(1.47)	4.52	(2.48)	16.50	(2.46)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.82	(0.42)	2.00	(1.48)	3.16	(2.03)	1.19	(0.65)	7.18	(1.07)
Outdoors, school grounds	0.97	(0.49)	1.03	(0.76)	0.63	(0.40)	1.30	(0.72)	3.93	(0.59)
Outdoors, sports arena	0.30	(0.15)	0.32	(0.24)	0.26	(0.16)	0.59	(0.32)	1.47	(0.22)
Outdoors, park/golf course	0.00	(0.00)	0.10	(0.07)	0.09	(0.06)	0.00	(0.00)	0.20	(0.03)
Outdoors, other location	0.01	(0.01)	0.40	(0.30)	1.10	(0.71)	0.01	(0.00)	1.53	(0.23)
Outdoors, not specified	0.01	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.27	(0.20)	0.43	(0.27)	0.00	(0.00)	0.70	(0.10)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.01	(7.23)	8.95	(6.73)	10.57	(6.75)	12.16	(6.66)	45.69	(6.86)
In transit, bus	3.77	(1.95)	3.46	(2.60)	3.28	(2.09)	4.27	(2.34)	14.78	(2.22)
In transit, truck	0.00	(0.00)	0.34	(0.25)	0.50	(0.32)	0.00	(0.00)	0.83	(0.13)
In transit, van	0.61	(0.32)	0.59	(0.44)	0.46	(0.29)	0.94	(0.52)	2.60	(0.39)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.10	(0.57)	0.85	(0.64)	1.29	(0.83)	0.88	(0.48)	4.13	(0.62)
Outdoors, along a roadway	9.79	(5.06)	11.84	(8.90)	15.39	(9.82)	12.20	(6.68)	49.22	(7.39)
In transit, motorcycle	0.10	(0.05)	0.08	(0.06)	0.06	(0.04)	0.14	(0.08)	0.39	(0.06)
Indoors, service station	0.00	(0.00)	0.05	(0.04)	0.07	(0.04)	0.00	(0.00)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.03	(0.02)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Indoors, home	136.96	(70.72)	86.94	(65.36)	101.99	(65.11)	126.62	(69.33)	452.50	(67.94)
Indoors, office	0.52	(0.27)	1.61	(1.21)	1.90	(1.21)	0.85	(0.47)	4.88	(0.73)
Indoors, store	1.06	(0.55)	1.20	(0.90)	1.90	(1.22)	1.14	(0.62)	5.30	(0.80)
Indoors, restaurant	1.91	(0.99)	0.52	(0.39)	0.38	(0.24)	1.28	(0.70)	4.09	(0.61)
Indoors, mfg. facility	2.53	(1.31)	0.72	(0.54)	0.60	(0.38)	1.37	(0.75)	5.22	(0.78)
Indoors, school	8.26	(4.27)	5.88	(4.42)	3.76	(2.40)	8.83	(4.84)	26.73	(4.01)
Indoors, church	2.35	(1.21)	1.36	(1.03)	1.60	(1.02)	2.24	(1.23)	7.55	(1.13)
Indoors, shopping mall	0.38	(0.20)	0.50	(0.37)	0.41	(0.26)	0.69	(0.38)	1.98	(0.30)
Indoors, auditorium	0.05	(0.03)	0.05	(0.04)	0.04	(0.02)	0.10	(0.05)	0.24	(0.04)
Indoors, health care facility	1.48	(0.77)	1.83	(1.38)	2.78	(1.77)	1.74	(0.95)	7.83	(1.18)
Indoors, public building	0.06	(0.03)	0.18	(0.13)	0.40	(0.26)	0.08	(0.04)	0.71	(0.11)
Indoors, other location	6.79	(3.51)	1.96	(1.47)	2.25	(1.43)	4.34	(2.38)	15.33	(2.30)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.88	(0.45)	2.21	(1.66)	4.34	(2.77)	1.21	(0.66)	8.64	(1.30)
Outdoors, school grounds	0.68	(0.35)	0.72	(0.54)	0.46	(0.30)	0.91	(0.50)	2.78	(0.42)
Outdoors, sports arena	0.27	(0.14)	0.29	(0.22)	0.25	(0.16)	0.52	(0.29)	1.34	(0.20)
Outdoors, park/golf course	0.00	(0.00)	0.09	(0.07)	0.09	(0.05)	0.00	(0.00)	0.17	(0.03)
Outdoors, other location	0.08	(0.04)	0.54	(0.41)	1.45	(0.92)	0.10	(0.06)	2.18	(0.33)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.24	(0.18)	0.40	(0.25)	0.00	(0.00)	0.64	(0.10)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.28	(4.35)	7.30	(5.58)	10.94	(7.17)	7.80	(4.36)	34.31	(5.26)
In transit, bus	2.90	(1.53)	1.41	(1.08)	0.79	(0.52)	2.49	(1.39)	7.60	(1.16)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.25	(0.19)	0.93	(0.61)	0.00	(0.00)	1.17	(0.18)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.98	(0.51)	1.19	(0.91)	1.29	(0.85)	1.37	(0.77)	4.83	(0.74)
Outdoors, along a roadway	8.50	(4.47)	7.10	(5.43)	7.75	(5.08)	9.22	(5.16)	32.57	(4.99)
In transit, motorcycle	0.00	(0.00)	0.09	(0.07)	0.26	(0.17)	0.00	(0.00)	0.34	(0.05)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.03	(0.02)	0.00	(0.00)	0.04	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	147.28	(77.37)	98.15	(75.02)	113.49	(74.38)	138.38	(77.44)	497.30	(76.22)
Indoors, office	0.44	(0.23)	0.11	(0.09)	0.12	(0.08)	0.28	(0.16)	0.95	(0.15)
Indoors, store	3.03	(1.59)	2.59	(1.98)	4.77	(3.12)	2.08	(1.16)	12.47	(1.91)
Indoors, restaurant	3.41	(1.79)	0.87	(0.66)	0.76	(0.50)	2.27	(1.27)	7.31	(1.12)
Indoors, mfg. facility	1.74	(0.91)	1.16	(0.89)	1.10	(0.72)	0.92	(0.51)	4.91	(0.75)
Indoors, school	8.76	(4.60)	5.27	(4.03)	2.74	(1.79)	8.75	(4.90)	25.52	(3.91)
Indoors, church	0.41	(0.21)	0.26	(0.20)	0.17	(0.11)	0.53	(0.29)	1.36	(0.21)
Indoors, shopping mall	0.89	(0.47)	0.87	(0.66)	0.49	(0.32)	1.21	(0.68)	3.46	(0.53)
Indoors, auditorium	0.10	(0.05)	0.15	(0.12)	0.21	(0.14)	0.19	(0.11)	0.66	(0.10)
Indoors, health care facility	0.36	(0.19)	0.40	(0.31)	0.39	(0.26)	0.48	(0.27)	1.64	(0.25)
Indoors, public building	0.54	(0.29)	0.18	(0.14)	0.08	(0.05)	0.30	(0.17)	1.11	(0.17)
Indoors, other location	1.29	(0.68)	1.15	(0.88)	1.31	(0.86)	1.01	(0.56)	4.75	(0.73)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.08	(0.57)	1.21	(0.92)	1.94	(1.27)	1.07	(0.60)	5.30	(0.81)
Outdoors, school grounds	0.21	(0.11)	0.21	(0.16)	0.12	(0.08)	0.28	(0.16)	0.82	(0.13)
Outdoors, sports arena	0.00	(0.00)	0.14	(0.10)	0.34	(0.22)	0.00	(0.00)	0.47	(0.07)
Outdoors, park/golf course	0.12	(0.07)	0.09	(0.07)	0.23	(0.15)	0.05	(0.03)	0.50	(0.08)
Outdoors, other location	0.01	(0.01)	0.68	(0.52)	2.36	(1.54)	0.02	(0.01)	3.07	(0.47)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.77	(7.37)	11.08	(7.99)	13.09	(8.12)	14.79	(7.82)	53.73	(7.79)
In transit, bus	1.53	(0.76)	1.21	(0.87)	0.87	(0.54)	1.65	(0.87)	5.25	(0.76)
In transit, truck	0.85	(0.42)	1.51	(1.09)	1.48	(0.92)	0.91	(0.48)	4.75	(0.69)
In transit, van	0.12	(0.06)	0.15	(0.11)	0.17	(0.10)	0.21	(0.11)	0.64	(0.09)
Indoors, public garage	0.00	(0.00)	0.04	(0.03)	0.14	(0.09)	0.00	(0.00)	0.18	(0.03)
Outdoors, in a parking lot	2.56	(1.28)	1.33	(0.96)	1.84	(1.14)	1.79	(0.95)	7.52	(1.09)
Outdoors, along a roadway	9.35	(4.67)	9.14	(6.59)	13.78	(8.55)	9.19	(4.86)	41.46	(6.01)
In transit, motorcycle	0.00	(0.00)	0.75	(0.54)	1.83	(1.13)	0.00	(0.00)	2.58	(0.37)
Indoors, service station	0.01	(0.00)	0.06	(0.04)	0.15	(0.10)	0.01	(0.01)	0.23	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.19	(0.09)	0.14	(0.10)	0.10	(0.06)	0.24	(0.13)	0.67	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
Indoors, home	128.42	(64.05)	85.24	(61.49)	100.47	(62.32)	120.84	(63.93)	434.97	(63.09)
Indoors, office	4.23	(2.11)	3.00	(2.16)	2.69	(1.67)	3.93	(2.08)	13.84	(2.01)
Indoors, store	2.88	(1.44)	2.59	(1.86)	3.44	(2.13)	2.97	(1.57)	11.88	(1.72)
Indoors, restaurant	8.13	(4.06)	3.98	(2.87)	3.09	(1.91)	7.07	(3.74)	22.27	(3.23)
Indoors, mfg. facility	3.97	(1.98)	2.25	(1.62)	1.67	(1.04)	3.48	(1.84)	11.37	(1.65)
Indoors, school	11.13	(5.55)	5.51	(3.97)	3.30	(2.05)	9.46	(5.00)	29.40	(4.26)
Indoors, church	0.88	(0.44)	0.65	(0.47)	0.65	(0.41)	0.96	(0.51)	3.14	(0.46)
Indoors, shopping mall	1.90	(0.95)	0.82	(0.59)	0.45	(0.28)	1.27	(0.67)	4.45	(0.65)
Indoors, auditorium	0.05	(0.03)	0.06	(0.05)	0.08	(0.05)	0.09	(0.05)	0.28	(0.04)
Indoors, health care facility	2.38	(1.19)	1.32	(0.95)	1.69	(1.05)	2.10	(1.11)	7.50	(1.09)
Indoors, public building	0.34	(0.17)	0.12	(0.09)	0.10	(0.06)	0.23	(0.12)	0.80	(0.12)
Indoors, other location	3.80	(1.89)	3.48	(2.51)	2.90	(1.80)	4.64	(2.46)	14.82	(2.15)
Indoors, not specified	0.02	(0.01)	0.03	(0.02)	0.05	(0.03)	0.01	(0.00)	0.12	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.51	(0.75)	2.16	(1.56)	3.92	(2.43)	1.69	(0.89)	9.27	(1.34)
Outdoors, school grounds	1.29	(0.64)	0.97	(0.70)	0.73	(0.45)	1.29	(0.68)	4.28	(0.62)
Outdoors, sports arena	0.00	(0.00)	0.15	(0.11)	0.32	(0.20)	0.00	(0.00)	0.47	(0.07)
Outdoors, park/golf course	0.10	(0.05)	0.50	(0.36)	1.46	(0.90)	0.14	(0.08)	2.20	(0.32)
Outdoors, other location	0.00	(0.00)	0.37	(0.27)	0.73	(0.45)	0.00	(0.00)	1.10	(0.16)
Outdoors, not specified	0.11	(0.06)	0.01	(0.01)	0.00	(0.00)	0.06	(0.03)	0.19	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.66	(8.90)	12.41	(9.25)	15.06	(9.46)	16.93	(9.06)	62.06	(9.14)
In transit, bus	2.86	(1.44)	1.28	(0.95)	1.00	(0.63)	2.33	(1.25)	7.47	(1.10)
In transit, truck	0.78	(0.39)	0.82	(0.61)	0.70	(0.44)	0.90	(0.48)	3.21	(0.47)
In transit, van	1.69	(0.85)	1.17	(0.87)	1.31	(0.83)	1.86	(1.00)	6.04	(0.89)
Indoors, public garage	0.75	(0.38)	0.23	(0.17)	0.11	(0.07)	0.59	(0.32)	1.69	(0.25)
Outdoors, in a parking lot	1.26	(0.63)	0.92	(0.69)	1.14	(0.71)	1.14	(0.61)	4.45	(0.66)
Outdoors, along a roadway	8.94	(4.50)	8.96	(6.68)	12.59	(7.91)	9.91	(5.30)	40.40	(5.95)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, service station	0.08	(0.04)	0.05	(0.04)	0.04	(0.03)	0.07	(0.04)	0.24	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.23	(0.12)	0.11	(0.08)	0.08	(0.05)	0.21	(0.11)	0.62	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	124.45	(62.74)	79.90	(59.55)	94.31	(59.25)	116.33	(62.24)	414.99	(61.14)
Indoors, office	6.44	(3.25)	4.81	(3.58)	5.30	(3.33)	6.05	(3.24)	22.60	(3.33)
Indoors, store	3.36	(1.69)	2.31	(1.72)	2.93	(1.84)	2.83	(1.51)	11.42	(1.68)
Indoors, restaurant	2.97	(1.50)	2.00	(1.49)	2.40	(1.51)	2.73	(1.46)	10.11	(1.49)
Indoors, mfg. facility	2.60	(1.31)	1.90	(1.42)	2.08	(1.31)	2.40	(1.29)	8.98	(1.32)
Indoors, school	10.41	(5.25)	5.32	(3.96)	3.69	(2.32)	9.03	(4.83)	28.44	(4.19)
Indoors, church	1.45	(0.73)	0.73	(0.54)	0.70	(0.44)	1.36	(0.73)	4.24	(0.62)
Indoors, shopping mall	1.20	(0.61)	0.62	(0.46)	0.63	(0.40)	0.96	(0.51)	3.42	(0.50)
Indoors, auditorium	0.15	(0.08)	0.11	(0.08)	0.11	(0.07)	0.19	(0.10)	0.56	(0.08)
Indoors, health care facility	1.23	(0.62)	0.82	(0.61)	0.68	(0.43)	1.26	(0.67)	3.99	(0.59)
Indoors, public building	0.47	(0.23)	0.52	(0.39)	0.83	(0.52)	0.53	(0.28)	2.34	(0.35)
Indoors, other location	4.61	(2.32)	2.88	(2.14)	2.94	(1.85)	4.32	(2.31)	14.75	(2.17)
Indoors, not specified	0.07	(0.03)	0.05	(0.04)	0.12	(0.07)	0.03	(0.02)	0.27	(0.04)
Outdoors, construction	0.96	(0.48)	0.77	(0.57)	0.64	(0.40)	0.92	(0.49)	3.29	(0.48)
Outdoors, residential grounds	1.78	(0.90)	2.93	(2.19)	5.15	(3.24)	2.12	(1.13)	11.99	(1.77)
Outdoors, school grounds	1.05	(0.53)	0.74	(0.55)	0.60	(0.38)	1.03	(0.55)	3.42	(0.50)
Outdoors, sports arena	0.01	(0.01)	0.12	(0.09)	0.28	(0.18)	0.02	(0.01)	0.43	(0.06)
Outdoors, park/golf course	0.21	(0.11)	0.38	(0.29)	0.65	(0.41)	0.27	(0.14)	1.51	(0.22)
Outdoors, other location	0.69	(0.35)	1.27	(0.94)	3.02	(1.90)	0.62	(0.33)	5.59	(0.82)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.04	(0.03)	0.07	(0.05)	0.00	(0.00)	0.12	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.95	(11.07)	15.10	(11.33)	17.85	(11.20)	21.36	(11.38)	76.25	(11.24)
In transit, bus	3.03	(1.53)	1.79	(1.34)	1.10	(0.69)	3.03	(1.61)	8.95	(1.32)
In transit, truck	0.39	(0.20)	0.75	(0.56)	1.64	(1.03)	0.49	(0.26)	3.28	(0.48)
In transit, van	0.01	(0.00)	0.19	(0.14)	0.50	(0.31)	0.01	(0.01)	0.70	(0.10)
Indoors, public garage	0.05	(0.02)	0.03	(0.02)	0.04	(0.03)	0.05	(0.02)	0.17	(0.02)
Outdoors, in a parking lot	1.20	(0.60)	0.85	(0.64)	0.99	(0.62)	1.19	(0.63)	4.23	(0.62)
Outdoors, along a roadway	8.57	(4.32)	7.44	(5.59)	11.56	(7.25)	8.35	(4.45)	35.92	(5.29)
In transit, motorcycle	0.22	(0.11)	0.02	(0.01)	0.00	(0.00)	0.13	(0.07)	0.37	(0.05)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.02)	0.07	(0.05)	0.06	(0.04)	0.04	(0.02)	0.21	(0.03)
Indoors, in a repair shop	0.03	(0.01)	0.03	(0.02)	0.02	(0.01)	0.04	(0.02)	0.11	(0.02)
Indoors, home	118.23	(59.60)	74.51	(55.92)	88.14	(55.32)	110.91	(59.13)	391.79	(57.74)
Indoors, office	10.10	(5.09)	6.52	(4.90)	7.26	(4.55)	8.67	(4.62)	32.55	(4.80)
Indoors, store	3.76	(1.90)	2.44	(1.83)	2.85	(1.79)	3.25	(1.73)	12.30	(1.81)
Indoors, restaurant	3.41	(1.72)	2.75	(2.06)	3.45	(2.16)	3.56	(1.90)	13.16	(1.94)
Indoors, mfg. facility	3.01	(1.52)	1.77	(1.33)	1.70	(1.07)	2.66	(1.42)	9.13	(1.35)
Indoors, school	13.14	(6.62)	7.12	(5.35)	3.92	(2.46)	12.50	(6.66)	36.68	(5.41)
Indoors, church	0.50	(0.25)	0.44	(0.33)	0.47	(0.29)	0.56	(0.30)	1.96	(0.29)
Indoors, shopping mall	1.17	(0.59)	1.30	(0.98)	1.46	(0.91)	1.39	(0.74)	5.32	(0.78)
Indoors, auditorium	0.09	(0.04)	0.13	(0.10)	0.25	(0.16)	0.10	(0.05)	0.57	(0.08)
Indoors, health care facility	1.22	(0.62)	0.90	(0.67)	1.16	(0.72)	1.23	(0.66)	4.51	(0.66)
Indoors, public building	0.32	(0.16)	0.29	(0.22)	0.32	(0.20)	0.38	(0.20)	1.31	(0.19)
Indoors, other location	4.47	(2.25)	2.62	(1.96)	2.57	(1.61)	4.00	(2.13)	13.65	(2.01)
Indoors, not specified	0.07	(0.03)	0.04	(0.03)	0.03	(0.02)	0.06	(0.03)	0.20	(0.03)
Outdoors, construction	0.00	(0.00)	0.05	(0.04)	0.07	(0.05)	0.00	(0.00)	0.12	(0.02)
Outdoors, residential grounds	1.77	(0.89)	3.07	(2.31)	7.22	(4.53)	1.74	(0.93)	13.80	(2.03)
Outdoors, school grounds	1.17	(0.59)	0.80	(0.60)	0.55	(0.34)	1.22	(0.65)	3.74	(0.55)
Outdoors, sports arena	0.09	(0.05)	0.25	(0.19)	0.38	(0.24)	0.13	(0.07)	0.86	(0.13)
Outdoors, park/golf course	0.29	(0.14)	0.66	(0.49)	1.48	(0.93)	0.43	(0.23)	2.86	(0.42)
Outdoors, other location	0.10	(0.05)	1.31	(0.98)	2.31	(1.45)	0.11	(0.06)	3.84	(0.57)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.62	(5.90)	10.32	(7.85)	14.24	(9.06)	11.93	(6.40)	48.11	(7.16)
In transit, bus	1.52	(0.77)	0.21	(0.16)	0.27	(0.17)	0.77	(0.41)	2.77	(0.41)
In transit, truck	4.98	(2.53)	2.06	(1.57)	1.24	(0.79)	4.42	(2.37)	12.70	(1.89)
In transit, van	1.02	(0.52)	1.03	(0.78)	0.82	(0.52)	1.75	(0.94)	4.62	(0.69)
Indoors, public garage	0.00	(0.00)	0.04	(0.03)	0.05	(0.03)	0.00	(0.00)	0.08	(0.01)
Outdoors, in a parking lot	0.46	(0.24)	0.72	(0.55)	1.40	(0.89)	0.45	(0.24)	3.04	(0.45)
Outdoors, along a roadway	9.14	(4.64)	6.99	(5.32)	10.33	(6.57)	9.26	(4.97)	35.71	(5.32)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	2.87	(1.46)	0.26	(0.20)	0.00	(0.00)	1.52	(0.81)	4.64	(0.69)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	121.14	(61.51)	78.05	(59.38)	90.03	(57.23)	114.23	(61.36)	403.44	(60.06)
Indoors, office	6.01	(3.05)	4.85	(3.69)	6.05	(3.85)	4.87	(2.62)	21.79	(3.24)
Indoors, store	0.15	(0.08)	0.73	(0.56)	1.27	(0.80)	0.21	(0.11)	2.36	(0.35)
Indoors, restaurant	5.08	(2.58)	3.90	(2.96)	5.05	(3.21)	4.70	(2.52)	18.72	(2.79)
Indoors, mfg. facility	0.00	(0.00)	0.08	(0.06)	0.11	(0.07)	0.00	(0.00)	0.19	(0.03)
Indoors, school	20.20	(10.26)	8.64	(6.57)	8.40	(5.34)	15.85	(8.51)	53.09	(7.90)
Indoors, church	0.70	(0.36)	0.38	(0.29)	0.35	(0.22)	0.48	(0.26)	1.92	(0.29)
Indoors, shopping mall	0.18	(0.09)	0.20	(0.15)	0.12	(0.08)	0.24	(0.13)	0.74	(0.11)
Indoors, auditorium	0.34	(0.17)	0.33	(0.25)	0.29	(0.18)	0.63	(0.34)	1.58	(0.24)
Indoors, health care facility	0.96	(0.49)	0.53	(0.40)	0.34	(0.21)	1.02	(0.55)	2.84	(0.42)
Indoors, public building	0.00	(0.00)	0.28	(0.21)	1.04	(0.66)	0.00	(0.00)	1.32	(0.20)
Indoors, other location	2.77	(1.41)	3.57	(2.71)	4.03	(2.56)	5.31	(2.85)	15.68	(2.33)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.23	(0.18)	0.35	(0.22)	0.00	(0.00)	0.58	(0.09)
Outdoors, residential grounds	6.05	(3.07)	4.78	(3.64)	5.82	(3.70)	5.93	(3.18)	22.58	(3.36)
Outdoors, school grounds	1.14	(0.58)	1.27	(0.97)	1.14	(0.72)	1.70	(0.92)	5.25	(0.78)
Outdoors, sports arena	0.00	(0.00)	0.07	(0.05)	0.26	(0.17)	0.00	(0.00)	0.33	(0.05)
Outdoors, park/golf course	0.61	(0.31)	1.24	(0.95)	2.28	(1.45)	0.93	(0.50)	5.06	(0.75)
Outdoors, other location	0.00	(0.00)	0.71	(0.54)	2.00	(1.27)	0.00	(0.00)	2.72	(0.40)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.44	(5.76)	8.65	(6.38)	11.47	(7.12)	11.07	(5.91)	42.63	(6.24)
In transit, bus	5.10	(2.57)	2.78	(2.05)	1.71	(1.06)	4.78	(2.55)	14.37	(2.10)
In transit, truck	0.36	(0.18)	0.23	(0.17)	0.42	(0.26)	0.26	(0.14)	1.28	(0.19)
In transit, van	1.09	(0.55)	0.88	(0.65)	0.88	(0.54)	1.52	(0.81)	4.37	(0.64)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.70	(0.35)	0.58	(0.43)	0.79	(0.49)	0.62	(0.33)	2.69	(0.39)
Outdoors, along a roadway	11.67	(5.88)	11.14	(8.22)	17.17	(10.66)	11.59	(6.18)	51.57	(7.55)
In transit, motorcycle	0.17	(0.09)	0.04	(0.03)	0.05	(0.03)	0.11	(0.06)	0.37	(0.05)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.13	(0.06)	0.12	(0.09)	0.10	(0.06)	0.18	(0.10)	0.52	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	126.28	(63.57)	82.83	(61.10)	98.03	(60.86)	119.09	(63.53)	426.23	(62.43)
Indoors, office	0.11	(0.06)	0.26	(0.19)	0.50	(0.31)	0.11	(0.06)	0.98	(0.14)
Indoors, store	1.83	(0.92)	1.29	(0.95)	1.59	(0.99)	1.73	(0.92)	6.44	(0.94)
Indoors, restaurant	1.48	(0.74)	1.39	(1.03)	1.92	(1.19)	1.51	(0.81)	6.31	(0.92)
Indoors, mfg. facility	0.02	(0.01)	0.02	(0.01)	0.01	(0.01)	0.03	(0.02)	0.08	(0.01)
Indoors, school	28.14	(14.17)	14.35	(10.59)	9.46	(5.87)	24.55	(13.10)	76.50	(11.21)
Indoors, church	0.80	(0.40)	0.47	(0.35)	0.53	(0.33)	0.73	(0.39)	2.52	(0.37)
Indoors, shopping mall	0.98	(0.49)	0.76	(0.56)	0.72	(0.44)	0.92	(0.49)	3.38	(0.50)
Indoors, auditorium	0.13	(0.06)	0.11	(0.08)	0.13	(0.08)	0.19	(0.10)	0.57	(0.08)
Indoors, health care facility	0.77	(0.39)	0.56	(0.42)	0.70	(0.43)	0.80	(0.43)	2.84	(0.42)
Indoors, public building	0.17	(0.08)	0.21	(0.15)	0.36	(0.23)	0.18	(0.10)	0.92	(0.13)
Indoors, other location	1.06	(0.54)	0.90	(0.66)	1.47	(0.91)	1.14	(0.61)	4.57	(0.67)
Indoors, not specified	0.00	(0.00)	0.02	(0.02)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	3.05	(1.53)	3.94	(2.91)	6.94	(4.31)	3.12	(1.67)	17.05	(2.50)
Outdoors, school grounds	2.74	(1.38)	1.97	(1.45)	1.49	(0.93)	2.63	(1.40)	8.83	(1.29)
Outdoors, sports arena	0.18	(0.09)	0.25	(0.19)	0.44	(0.27)	0.21	(0.11)	1.08	(0.16)
Outdoors, park/golf course	0.17	(0.09)	0.65	(0.48)	1.27	(0.79)	0.23	(0.12)	2.32	(0.34)
Outdoors, other location	0.03	(0.01)	1.11	(0.82)	2.82	(1.75)	0.04	(0.02)	4.00	(0.59)
Outdoors, not specified	0.04	(0.02)	0.04	(0.03)	0.03	(0.02)	0.07	(0.04)	0.18	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	28.15	(13.53)	15.99	(11.39)	20.41	(12.29)	23.18	(11.96)	87.72	(12.38)
In transit, bus	0.99	(0.48)	0.09	(0.07)	0.00	(0.00)	0.54	(0.28)	1.62	(0.23)
In transit, truck	2.03	(0.98)	3.79	(2.70)	8.23	(4.96)	2.22	(1.15)	16.28	(2.30)
In transit, van	0.00	(0.00)	0.55	(0.39)	1.60	(0.96)	0.00	(0.00)	2.15	(0.30)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.09	(0.52)	1.21	(0.86)	1.76	(1.06)	1.31	(0.68)	5.37	(0.76)
Outdoors, along a roadway	19.52	(9.38)	13.83	(9.85)	11.22	(6.75)	20.84	(10.75)	65.42	(9.24)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.03	(0.01)	0.03	(0.02)	0.03	(0.02)	0.05	(0.03)	0.14	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	123.52	(59.37)	77.26	(55.03)	84.39	(50.82)	115.74	(59.71)	400.90	(56.60)
Indoors, office	4.94	(2.37)	5.23	(3.73)	4.85	(2.92)	4.74	(2.45)	19.76	(2.79)
Indoors, store	0.82	(0.39)	0.68	(0.48)	0.62	(0.37)	0.89	(0.46)	3.01	(0.42)
Indoors, restaurant	2.76	(1.33)	1.39	(0.99)	1.09	(0.66)	2.31	(1.19)	7.56	(1.07)
Indoors, mfg. facility	0.00	(0.00)	2.36	(1.68)	6.97	(4.20)	0.00	(0.00)	9.33	(1.32)
Indoors, school	12.64	(6.08)	5.35	(3.81)	2.68	(1.61)	10.60	(5.47)	31.28	(4.42)
Indoors, church	0.13	(0.06)	0.35	(0.25)	0.50	(0.30)	0.19	(0.10)	1.16	(0.16)
Indoors, shopping mall	0.51	(0.25)	0.38	(0.27)	0.25	(0.15)	0.74	(0.38)	1.88	(0.27)
Indoors, auditorium	0.04	(0.02)	0.34	(0.25)	1.02	(0.61)	0.02	(0.01)	1.42	(0.20)
Indoors, health care facility	0.39	(0.19)	0.29	(0.20)	0.21	(0.13)	0.41	(0.21)	1.30	(0.18)
Indoors, public building	1.68	(0.81)	0.99	(0.70)	0.59	(0.36)	2.05	(1.06)	5.32	(0.75)
Indoors, other location	5.80	(2.79)	3.14	(2.23)	2.59	(1.56)	4.81	(2.48)	16.33	(2.31)
Indoors, not specified	0.02	(0.01)	0.02	(0.01)	0.01	(0.01)	0.03	(0.02)	0.08	(0.01)
Outdoors, construction	0.00	(0.00)	0.57	(0.40)	0.85	(0.51)	0.00	(0.00)	1.41	(0.20)
Outdoors, residential grounds	0.76	(0.37)	1.44	(1.03)	2.46	(1.48)	0.86	(0.45)	5.54	(0.78)
Outdoors, school grounds	1.30	(0.63)	1.23	(0.87)	0.70	(0.42)	1.79	(0.92)	5.02	(0.71)
Outdoors, sports arena	0.27	(0.13)	0.43	(0.31)	1.41	(0.85)	0.10	(0.05)	2.21	(0.31)
Outdoors, park/golf course	0.16	(0.08)	0.24	(0.17)	0.30	(0.18)	0.11	(0.06)	0.81	(0.11)
Outdoors, other location	0.16	(0.08)	3.19	(2.27)	11.32	(6.82)	0.08	(0.04)	14.75	(2.08)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.34	(0.16)	0.03	(0.02)	0.00	(0.00)	0.20	(0.10)	0.56	(0.08)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	27.37	(13.02)	18.11	(12.83)	20.08	(12.16)	26.04	(13.16)	91.60	(12.82)
In transit, bus	0.40	(0.19)	0.40	(0.28)	0.55	(0.33)	0.28	(0.14)	1.62	(0.23)
In transit, truck	4.65	(2.21)	3.15	(2.23)	3.20	(1.94)	3.94	(1.99)	14.94	(2.09)
In transit, van	1.38	(0.66)	1.10	(0.78)	1.75	(1.06)	1.40	(0.71)	5.64	(0.79)
Indoors, public garage	1.78	(0.85)	1.03	(0.73)	0.75	(0.45)	1.75	(0.88)	5.31	(0.74)
Outdoors, in a parking lot	1.62	(0.77)	1.30	(0.92)	1.46	(0.88)	1.48	(0.75)	5.85	(0.82)
Outdoors, along a roadway	8.99	(4.28)	8.15	(5.77)	10.14	(6.14)	9.78	(4.94)	37.07	(5.19)
In transit, motorcycle	0.00	(0.00)	0.08	(0.06)	0.09	(0.06)	0.00	(0.00)	0.17	(0.02)
Indoors, service station	2.62	(1.25)	1.13	(0.80)	0.73	(0.44)	2.17	(1.10)	6.65	(0.93)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.67	(0.32)	0.46	(0.32)	0.36	(0.22)	0.96	(0.48)	2.44	(0.34)
Indoors, in a repair shop	1.85	(0.88)	0.21	(0.15)	0.02	(0.01)	0.92	(0.46)	2.99	(0.42)
Indoors, home	109.04	(51.86)	69.58	(49.29)	81.50	(49.36)	104.21	(52.67)	364.32	(50.99)
Indoors, office	19.32	(9.19)	11.83	(8.38)	13.29	(8.05)	16.73	(8.45)	61.17	(8.56)
Indoors, store	3.22	(1.53)	2.52	(1.78)	3.57	(2.16)	2.65	(1.34)	11.97	(1.68)
Indoors, restaurant	5.07	(2.41)	3.00	(2.13)	2.77	(1.68)	4.15	(2.10)	15.00	(2.10)
Indoors, mfg. facility	3.83	(1.82)	3.76	(2.66)	4.84	(2.93)	3.67	(1.86)	16.10	(2.25)
Indoors, school	2.00	(0.95)	1.08	(0.77)	0.89	(0.54)	1.79	(0.90)	5.77	(0.81)
Indoors, church	0.71	(0.34)	0.49	(0.35)	0.47	(0.28)	0.85	(0.43)	2.51	(0.35)
Indoors, shopping mall	0.65	(0.31)	0.34	(0.24)	0.29	(0.17)	0.54	(0.27)	1.82	(0.25)
Indoors, auditorium	0.17	(0.08)	0.04	(0.03)	0.08	(0.05)	0.09	(0.05)	0.39	(0.05)
Indoors, health care facility	1.15	(0.55)	0.93	(0.66)	1.07	(0.65)	1.16	(0.59)	4.31	(0.60)
Indoors, public building	0.43	(0.20)	0.62	(0.44)	1.40	(0.85)	0.33	(0.17)	2.77	(0.39)
Indoors, other location	7.21	(3.43)	5.05	(3.58)	5.55	(3.36)	6.50	(3.28)	24.31	(3.40)
Indoors, not specified	0.88	(0.42)	0.20	(0.14)	0.07	(0.04)	0.51	(0.26)	1.66	(0.23)
Outdoors, construction	1.47	(0.70)	1.35	(0.96)	1.05	(0.64)	1.57	(0.79)	5.44	(0.76)
Outdoors, residential grounds	0.83	(0.39)	1.75	(1.24)	4.29	(2.60)	0.98	(0.50)	7.84	(1.10)
Outdoors, school grounds	0.16	(0.08)	0.13	(0.09)	0.10	(0.06)	0.18	(0.09)	0.58	(0.08)
Outdoors, sports arena	0.05	(0.03)	0.17	(0.12)	0.29	(0.17)	0.04	(0.02)	0.55	(0.08)
Outdoors, park/golf course	0.21	(0.10)	0.41	(0.29)	0.74	(0.45)	0.32	(0.16)	1.68	(0.23)
Outdoors, other location	2.19	(1.04)	2.59	(1.83)	3.53	(2.14)	2.68	(1.36)	10.99	(1.54)
Outdoors, not specified	0.03	(0.01)	0.09	(0.06)	0.07	(0.04)	0.04	(0.02)	0.22	(0.03)
In transit, train	0.28	(0.13)	0.13	(0.09)	0.16	(0.10)	0.17	(0.08)	0.73	(0.10)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.40	(10.11)	13.21	(10.23)	15.81	(10.35)	18.44	(10.25)	66.87	(10.23)
In transit, bus	1.12	(0.58)	0.36	(0.28)	0.40	(0.26)	0.74	(0.41)	2.62	(0.40)
In transit, truck	1.55	(0.81)	0.17	(0.13)	0.00	(0.00)	0.73	(0.40)	2.45	(0.38)
In transit, van	0.04	(0.02)	0.09	(0.07)	0.20	(0.13)	0.08	(0.05)	0.42	(0.06)
Indoors, public garage	0.06	(0.03)	0.03	(0.03)	0.02	(0.01)	0.06	(0.04)	0.18	(0.03)
Outdoors, in a parking lot	0.60	(0.31)	0.70	(0.54)	1.06	(0.70)	0.61	(0.34)	2.97	(0.45)
Outdoors, along a roadway	5.92	(3.09)	6.07	(4.70)	8.95	(5.86)	6.09	(3.38)	27.03	(4.13)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.03	(0.02)	0.00	(0.00)	0.04	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.15	(0.08)	0.03	(0.02)	0.01	(0.01)	0.08	(0.04)	0.26	(0.04)
Indoors, in a repair shop	0.05	(0.03)	0.05	(0.04)	0.03	(0.02)	0.06	(0.04)	0.19	(0.03)
Indoors, home	143.44	(74.72)	91.76	(71.04)	105.63	(69.15)	132.71	(73.77)	473.55	(72.43)
Indoors, office	0.81	(0.42)	0.32	(0.25)	0.34	(0.22)	0.49	(0.27)	1.95	(0.30)
Indoors, store	2.84	(1.48)	2.89	(2.24)	4.48	(2.93)	2.57	(1.43)	12.77	(1.95)
Indoors, restaurant	3.28	(1.71)	2.11	(1.63)	2.15	(1.41)	3.05	(1.70)	10.59	(1.62)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	3.52	(1.83)	2.93	(2.27)	2.31	(1.51)	4.63	(2.57)	13.39	(2.05)
Indoors, church	0.65	(0.34)	0.47	(0.36)	0.50	(0.33)	0.79	(0.44)	2.40	(0.37)
Indoors, shopping mall	1.06	(0.55)	0.53	(0.41)	0.74	(0.48)	0.46	(0.26)	2.79	(0.43)
Indoors, auditorium	0.33	(0.17)	0.22	(0.17)	0.27	(0.18)	0.35	(0.20)	1.17	(0.18)
Indoors, health care facility	0.46	(0.24)	0.40	(0.31)	0.46	(0.30)	0.51	(0.28)	1.82	(0.28)
Indoors, public building	0.44	(0.23)	0.20	(0.16)	0.26	(0.17)	0.36	(0.20)	1.26	(0.19)
Indoors, other location	4.43	(2.31)	3.12	(2.42)	2.88	(1.89)	4.87	(2.70)	15.30	(2.34)
Indoors, not specified	0.00	(0.00)	0.03	(0.02)	0.09	(0.06)	0.00	(0.00)	0.12	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.05	(0.55)	1.80	(1.39)	2.65	(1.73)	1.39	(0.78)	6.89	(1.05)
Outdoors, school grounds	0.30	(0.16)	0.33	(0.26)	0.38	(0.25)	0.43	(0.24)	1.45	(0.22)
Outdoors, sports arena	0.18	(0.09)	0.11	(0.08)	0.26	(0.17)	0.07	(0.04)	0.61	(0.09)
Outdoors, park/golf course	0.07	(0.04)	0.49	(0.38)	1.20	(0.78)	0.14	(0.08)	1.90	(0.29)
Outdoors, other location	0.14	(0.07)	0.72	(0.56)	1.67	(1.09)	0.14	(0.08)	2.68	(0.41)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.05	(0.03)	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.09	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	25.10	(12.58)	15.34	(11.54)	17.72	(11.22)	22.69	(12.15)	80.86	(11.94)
In transit, bus	1.82	(0.91)	1.12	(0.85)	1.13	(0.71)	1.65	(0.88)	5.72	(0.84)
In transit, truck	1.24	(0.62)	0.85	(0.64)	1.02	(0.65)	1.31	(0.70)	4.43	(0.65)
In transit, van	0.01	(0.01)	0.17	(0.12)	0.21	(0.13)	0.00	(0.00)	0.39	(0.06)
Indoors, public garage	0.39	(0.20)	0.14	(0.11)	0.09	(0.06)	0.29	(0.15)	0.91	(0.13)
Outdoors, in a parking lot	0.75	(0.37)	0.78	(0.59)	1.15	(0.73)	0.82	(0.44)	3.50	(0.52)
Outdoors, along a roadway	5.74	(2.88)	5.32	(4.00)	7.53	(4.77)	5.75	(3.08)	24.34	(3.59)
In transit, motorcycle	0.00	(0.00)	0.62	(0.47)	1.45	(0.92)	0.00	(0.00)	2.07	(0.31)
Indoors, service station	0.03	(0.01)	0.02	(0.02)	0.02	(0.01)	0.03	(0.02)	0.10	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.01	(0.01)	0.01	(0.00)	0.02	(0.01)	0.06	(0.01)
Indoors, in a repair shop	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	113.50	(56.89)	74.27	(55.86)	89.20	(56.49)	108.10	(57.86)	385.06	(56.87)
Indoors, office	20.43	(10.24)	13.56	(10.20)	13.44	(8.51)	18.17	(9.73)	65.59	(9.69)
Indoors, store	5.26	(2.64)	3.81	(2.86)	3.91	(2.48)	5.24	(2.81)	18.22	(2.69)
Indoors, restaurant	6.28	(3.15)	3.67	(2.76)	4.31	(2.73)	5.07	(2.71)	19.32	(2.85)
Indoors, mfg. facility	1.69	(0.85)	1.15	(0.86)	0.75	(0.47)	1.69	(0.91)	5.28	(0.78)
Indoors, school	5.26	(2.63)	2.73	(2.05)	1.66	(1.05)	4.67	(2.50)	14.31	(2.11)
Indoors, church	0.85	(0.42)	0.57	(0.43)	0.63	(0.40)	0.94	(0.50)	2.98	(0.44)
Indoors, shopping mall	1.46	(0.73)	0.73	(0.55)	0.57	(0.36)	1.32	(0.71)	4.08	(0.60)
Indoors, auditorium	0.13	(0.07)	0.10	(0.08)	0.17	(0.11)	0.14	(0.07)	0.55	(0.08)
Indoors, health care facility	2.32	(1.16)	1.34	(1.01)	1.30	(0.82)	2.22	(1.19)	7.18	(1.06)
Indoors, public building	0.44	(0.22)	0.36	(0.27)	0.62	(0.39)	0.39	(0.21)	1.81	(0.27)
Indoors, other location	5.89	(2.95)	3.42	(2.57)	3.43	(2.17)	5.21	(2.79)	17.95	(2.65)
Indoors, not specified	0.08	(0.04)	0.04	(0.03)	0.02	(0.01)	0.07	(0.04)	0.21	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.40	(0.20)	1.31	(0.98)	3.42	(2.16)	0.50	(0.27)	5.62	(0.83)
Outdoors, school grounds	0.12	(0.06)	0.19	(0.14)	0.24	(0.15)	0.15	(0.08)	0.70	(0.10)
Outdoors, sports arena	0.01	(0.01)	0.19	(0.14)	0.37	(0.24)	0.02	(0.01)	0.59	(0.09)
Outdoors, park/golf course	0.07	(0.04)	0.29	(0.22)	0.88	(0.56)	0.09	(0.05)	1.33	(0.20)
Outdoors, other location	0.08	(0.04)	0.76	(0.57)	2.60	(1.65)	0.07	(0.04)	3.51	(0.52)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.13	(0.06)	0.09	(0.07)	0.05	(0.03)	0.16	(0.09)	0.43	(0.06)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	18.17	(9.57)	13.40	(10.22)	14.70	(9.37)	16.58	(9.38)	62.84	(9.60)
In transit, bus	1.20	(0.63)	2.38	(1.81)	3.31	(2.11)	0.47	(0.26)	7.35	(1.12)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.27	(0.14)	0.29	(0.22)	0.24	(0.15)	0.51	(0.29)	1.30	(0.20)
Indoors, public garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	1.17	(0.62)	2.08	(1.59)	2.02	(1.29)	1.21	(0.68)	6.48	(0.99)
Outdoors, along a roadway	4.74	(2.50)	4.52	(3.45)	4.77	(3.04)	5.71	(3.23)	19.74	(3.02)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.09	(0.57)	0.99	(0.76)	0.69	(0.44)	1.56	(0.88)	4.32	(0.66)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	144.81	(76.28)	86.94	(66.32)	95.00	(60.57)	133.52	(75.54)	460.28	(70.31)
Indoors, office	0.55	(0.29)	0.19	(0.15)	0.29	(0.18)	0.32	(0.18)	1.35	(0.21)
Indoors, store	2.11	(1.11)	2.04	(1.56)	3.37	(2.15)	1.73	(0.98)	9.26	(1.41)
Indoors, restaurant	1.94	(1.02)	0.50	(0.38)	0.94	(0.60)	1.12	(0.63)	4.49	(0.69)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.81	(0.95)	1.70	(1.29)	1.17	(0.75)	2.97	(1.68)	7.64	(1.17)
Indoors, church	0.69	(0.37)	0.46	(0.35)	0.28	(0.18)	0.77	(0.44)	2.21	(0.34)
Indoors, shopping mall	2.85	(1.50)	0.34	(0.26)	0.00	(0.00)	1.13	(0.64)	4.32	(0.66)
Indoors, auditorium	0.07	(0.04)	0.12	(0.09)	0.16	(0.10)	0.04	(0.02)	0.38	(0.06)
Indoors, health care facility	2.92	(1.54)	2.19	(1.67)	1.16	(0.74)	3.45	(1.95)	9.73	(1.49)
Indoors, public building	0.10	(0.05)	0.19	(0.14)	0.62	(0.40)	0.05	(0.03)	0.96	(0.15)
Indoors, other location	3.64	(1.92)	4.77	(3.64)	5.71	(3.64)	3.58	(2.02)	17.70	(2.70)
Indoors, not specified	0.25	(0.13)	0.02	(0.02)	0.00	(0.00)	0.14	(0.08)	0.42	(0.06)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.27	(0.67)	6.26	(4.78)	18.82	(12.00)	1.83	(1.03)	28.18	(4.30)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.19	(0.15)	0.33	(0.21)	0.00	(0.00)	0.53	(0.08)
Outdoors, park/golf course	0.20	(0.10)	0.28	(0.21)	1.01	(0.65)	0.08	(0.05)	1.58	(0.24)
Outdoors, other location	0.00	(0.00)	1.24	(0.95)	2.26	(1.44)	0.00	(0.00)	3.50	(0.53)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	30.52	(14.40)	19.87	(14.10)	21.80	(13.27)	29.29	(14.69)	101.48	(14.17)
In transit, bus	3.59	(1.70)	1.13	(0.80)	0.66	(0.40)	2.67	(1.34)	8.04	(1.12)
In transit, truck	5.86	(2.76)	4.39	(3.12)	3.45	(2.10)	6.11	(3.07)	19.81	(2.77)
In transit, van	0.61	(0.29)	1.16	(0.82)	1.32	(0.80)	0.67	(0.34)	3.76	(0.53)
Indoors, public garage	0.58	(0.28)	0.44	(0.31)	0.25	(0.15)	0.70	(0.35)	1.97	(0.28)
Outdoors, in a parking lot	1.15	(0.54)	0.83	(0.59)	0.99	(0.60)	1.14	(0.57)	4.11	(0.57)
Outdoors, along a roadway	7.59	(3.58)	6.55	(4.65)	9.16	(5.58)	7.20	(3.61)	30.50	(4.26)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.11	(0.52)	0.30	(0.22)	0.17	(0.11)	0.82	(0.41)	2.40	(0.34)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.03	(0.02)	0.03	(0.02)	0.01	(0.01)	0.09	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	104.90	(49.51)	66.41	(47.14)	78.39	(47.72)	100.30	(50.33)	350.01	(48.85)
Indoors, office	22.96	(10.84)	15.11	(10.72)	20.26	(12.33)	18.92	(9.49)	77.25	(10.78)
Indoors, store	5.65	(2.67)	2.96	(2.10)	2.14	(1.30)	5.18	(2.60)	15.93	(2.22)
Indoors, restaurant	4.55	(2.15)	3.23	(2.29)	3.72	(2.27)	4.50	(2.26)	16.01	(2.23)
Indoors, mfg. facility	3.17	(1.49)	4.73	(3.36)	6.84	(4.16)	4.36	(2.19)	19.11	(2.67)
Indoors, school	1.48	(0.70)	1.92	(1.36)	1.68	(1.02)	1.93	(0.97)	7.01	(0.98)
Indoors, church	0.91	(0.43)	0.65	(0.46)	0.64	(0.39)	0.99	(0.50)	3.19	(0.45)
Indoors, shopping mall	1.16	(0.55)	0.30	(0.21)	0.24	(0.15)	0.58	(0.29)	2.28	(0.32)
Indoors, auditorium	0.08	(0.04)	0.02	(0.02)	0.02	(0.01)	0.04	(0.02)	0.16	(0.02)
Indoors, health care facility	0.95	(0.45)	0.16	(0.12)	0.08	(0.05)	0.56	(0.28)	1.75	(0.24)
Indoors, public building	0.41	(0.19)	0.77	(0.55)	1.05	(0.64)	0.62	(0.31)	2.85	(0.40)
Indoors, other location	11.53	(5.44)	5.96	(4.23)	3.91	(2.38)	10.29	(5.16)	31.70	(4.43)
Indoors, not specified	0.88	(0.42)	0.15	(0.11)	0.05	(0.03)	0.49	(0.25)	1.58	(0.22)
Outdoors, construction	0.00	(0.00)	0.35	(0.25)	1.00	(0.61)	0.00	(0.00)	1.35	(0.19)
Outdoors, residential grounds	0.34	(0.16)	2.04	(1.45)	4.59	(2.79)	0.42	(0.21)	7.39	(1.03)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.31	(0.14)	0.49	(0.35)	0.74	(0.45)	0.41	(0.21)	1.95	(0.27)
Outdoors, other location	1.48	(0.70)	0.90	(0.64)	1.07	(0.65)	1.04	(0.52)	4.49	(0.63)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.10	(0.05)	0.01	(0.01)	0.00	(0.00)	0.05	(0.03)	0.16	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.10	(7.60)	9.16	(7.42)	11.03	(7.45)	12.25	(7.10)	46.54	(7.39)
In transit, bus	0.54	(0.29)	0.27	(0.22)	0.21	(0.14)	0.40	(0.23)	1.41	(0.22)
In transit, truck	0.89	(0.48)	0.11	(0.09)	0.00	(0.00)	0.39	(0.23)	1.39	(0.22)
In transit, van	0.40	(0.21)	0.37	(0.30)	0.30	(0.20)	0.71	(0.41)	1.77	(0.28)
Indoors, public garage	0.08	(0.04)	0.02	(0.01)	0.01	(0.00)	0.05	(0.03)	0.15	(0.02)
Outdoors, in a parking lot	0.47	(0.25)	0.61	(0.49)	1.03	(0.69)	0.49	(0.28)	2.60	(0.41)
Outdoors, along a roadway	5.51	(2.97)	3.93	(3.18)	5.84	(3.95)	4.59	(2.66)	19.88	(3.16)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	149.57	(80.62)	96.11	(77.80)	110.14	(74.39)	140.21	(81.24)	496.03	(78.77)
Indoors, office	0.60	(0.32)	0.38	(0.30)	0.35	(0.24)	0.53	(0.31)	1.85	(0.29)
Indoors, store	2.60	(1.40)	1.80	(1.46)	1.91	(1.29)	2.31	(1.34)	8.62	(1.37)
Indoors, restaurant	2.31	(1.24)	2.05	(1.66)	3.29	(2.22)	2.44	(1.41)	10.09	(1.60)
Indoors, mfg. facility	0.00	(0.00)	0.02	(0.01)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Indoors, school	0.42	(0.23)	0.27	(0.22)	0.27	(0.18)	0.54	(0.31)	1.50	(0.24)
Indoors, church	1.06	(0.57)	0.79	(0.64)	0.72	(0.49)	1.21	(0.70)	3.78	(0.60)
Indoors, shopping mall	1.38	(0.74)	0.85	(0.69)	1.47	(0.99)	1.15	(0.67)	4.84	(0.77)
Indoors, auditorium	0.05	(0.02)	0.01	(0.01)	0.01	(0.01)	0.03	(0.01)	0.10	(0.02)
Indoors, health care facility	0.61	(0.33)	0.69	(0.56)	0.97	(0.65)	0.49	(0.28)	2.76	(0.44)
Indoors, public building	0.24	(0.13)	0.24	(0.20)	0.25	(0.17)	0.36	(0.21)	1.10	(0.17)
Indoors, other location	3.00	(1.61)	2.52	(2.04)	2.88	(1.94)	2.64	(1.53)	11.03	(1.75)
Indoors, not specified	0.26	(0.14)	0.02	(0.02)	0.00	(0.00)	0.15	(0.09)	0.44	(0.07)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.28	(0.69)	2.42	(1.96)	5.16	(3.48)	1.54	(0.89)	10.39	(1.65)
Outdoors, school grounds	0.04	(0.02)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.06	(0.01)
Outdoors, sports arena	0.00	(0.00)	0.11	(0.09)	0.16	(0.11)	0.00	(0.00)	0.28	(0.04)
Outdoors, park/golf course	0.00	(0.00)	0.44	(0.36)	1.06	(0.71)	0.00	(0.00)	1.50	(0.24)
Outdoors, other location	0.04	(0.02)	0.31	(0.25)	0.97	(0.66)	0.06	(0.03)	1.39	(0.22)
Outdoors, not specified	0.09	(0.05)	0.01	(0.01)	0.00	(0.00)	0.05	(0.03)	0.15	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.26	(10.79)	13.98	(10.61)	15.83	(10.20)	18.78	(10.16)	69.85	(10.44)
In transit, bus	2.13	(1.08)	0.94	(0.71)	0.94	(0.61)	1.70	(0.92)	5.71	(0.85)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.65	(0.33)	0.17	(0.13)	0.07	(0.05)	0.46	(0.25)	1.35	(0.20)
Indoors, public garage	0.08	(0.04)	0.04	(0.03)	0.02	(0.01)	0.07	(0.04)	0.21	(0.03)
Outdoors, in a parking lot	0.89	(0.45)	0.94	(0.71)	1.81	(1.17)	0.79	(0.43)	4.43	(0.66)
Outdoors, along a roadway	6.11	(3.10)	4.58	(3.48)	6.72	(4.33)	5.51	(2.98)	22.92	(3.43)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.01)	0.02	(0.02)	0.01	(0.01)	0.03	(0.01)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	116.79	(59.29)	74.78	(56.74)	91.91	(59.21)	110.45	(59.73)	393.94	(58.89)
Indoors, office	20.47	(10.39)	12.19	(9.25)	9.95	(6.41)	18.30	(9.90)	60.92	(9.11)
Indoors, store	3.78	(1.92)	3.30	(2.51)	4.01	(2.59)	3.86	(2.09)	14.96	(2.24)
Indoors, restaurant	6.36	(3.23)	4.68	(3.55)	4.50	(2.90)	7.11	(3.85)	22.65	(3.39)
Indoors, mfg. facility	0.00	(0.00)	2.91	(2.21)	6.18	(3.98)	0.00	(0.00)	9.09	(1.36)
Indoors, school	4.34	(2.20)	2.24	(1.70)	2.09	(1.35)	3.68	(1.99)	12.35	(1.85)
Indoors, church	0.95	(0.48)	0.73	(0.55)	1.23	(0.79)	0.83	(0.45)	3.74	(0.56)
Indoors, shopping mall	1.52	(0.77)	1.43	(1.09)	1.00	(0.65)	1.89	(1.02)	5.85	(0.87)
Indoors, auditorium	0.04	(0.02)	0.04	(0.03)	0.03	(0.02)	0.08	(0.04)	0.19	(0.03)
Indoors, health care facility	2.94	(1.49)	2.22	(1.68)	1.49	(0.96)	3.14	(1.70)	9.78	(1.46)
Indoors, public building	0.24	(0.12)	0.11	(0.09)	0.26	(0.17)	0.14	(0.07)	0.75	(0.11)
Indoors, other location	7.55	(3.83)	4.73	(3.59)	3.80	(2.45)	6.89	(3.73)	22.97	(3.43)
Indoors, not specified	0.02	(0.01)	0.12	(0.09)	0.42	(0.27)	0.03	(0.02)	0.59	(0.09)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.57	(0.29)	1.21	(0.91)	2.01	(1.30)	0.85	(0.46)	4.63	(0.69)
Outdoors, school grounds	0.13	(0.07)	0.15	(0.12)	0.12	(0.08)	0.18	(0.10)	0.58	(0.09)
Outdoors, sports arena	0.05	(0.03)	0.09	(0.07)	0.35	(0.23)	0.02	(0.01)	0.51	(0.08)
Outdoors, park/golf course	0.04	(0.02)	0.01	(0.00)	0.00	(0.00)	0.02	(0.01)	0.06	(0.01)
Outdoors, other location	0.06	(0.03)	0.17	(0.13)	0.43	(0.27)	0.11	(0.06)	0.77	(0.12)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	27.04	(13.89)	19.06	(14.24)	20.03	(12.43)	27.56	(14.95)	93.69	(13.90)
In transit, bus	1.54	(0.79)	1.37	(1.02)	0.75	(0.46)	2.03	(1.10)	5.68	(0.84)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.04	(0.02)	0.00	(0.00)	0.05	(0.01)
Indoors, public garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.00)
Outdoors, in a parking lot	0.88	(0.45)	1.48	(1.11)	2.44	(1.51)	1.04	(0.56)	5.84	(0.87)
Outdoors, along a roadway	5.52	(2.84)	7.97	(5.95)	15.67	(9.72)	6.71	(3.64)	35.87	(5.32)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.09	(0.07)	0.18	(0.11)	0.00	(0.00)	0.27	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.02	(0.02)	0.02	(0.01)	0.02	(0.01)	0.08	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	134.95	(69.35)	85.11	(63.59)	99.41	(61.68)	122.63	(66.48)	442.09	(65.59)
Indoors, office	6.09	(3.13)	3.08	(2.30)	2.01	(1.25)	5.87	(3.18)	17.05	(2.53)
Indoors, store	1.34	(0.69)	1.04	(0.77)	1.72	(1.07)	1.17	(0.63)	5.26	(0.78)
Indoors, restaurant	4.23	(2.17)	3.41	(2.55)	4.25	(2.64)	4.73	(2.57)	16.62	(2.47)
Indoors, mfg. facility	1.87	(0.96)	0.93	(0.69)	0.47	(0.29)	1.71	(0.92)	4.98	(0.74)
Indoors, school	0.61	(0.31)	0.19	(0.14)	0.13	(0.08)	0.32	(0.17)	1.25	(0.19)
Indoors, church	1.07	(0.55)	0.79	(0.59)	0.74	(0.46)	1.32	(0.72)	3.92	(0.58)
Indoors, shopping mall	1.60	(0.82)	1.12	(0.84)	2.64	(1.64)	0.83	(0.45)	6.19	(0.92)
Indoors, auditorium	0.57	(0.30)	0.41	(0.31)	0.33	(0.21)	0.92	(0.50)	2.24	(0.33)
Indoors, health care facility	0.30	(0.15)	0.58	(0.43)	1.20	(0.75)	0.31	(0.17)	2.39	(0.35)
Indoors, public building	0.13	(0.07)	0.24	(0.18)	0.35	(0.22)	0.10	(0.06)	0.82	(0.12)
Indoors, other location	2.67	(1.37)	1.91	(1.43)	1.32	(0.82)	3.32	(1.80)	9.22	(1.37)
Indoors, not specified	0.00	(0.00)	0.17	(0.13)	0.26	(0.16)	0.00	(0.00)	0.43	(0.06)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.26	(1.16)	3.65	(2.73)	5.95	(3.69)	1.92	(1.04)	13.78	(2.05)
Outdoors, school grounds	0.42	(0.22)	0.31	(0.23)	0.21	(0.13)	0.63	(0.34)	1.56	(0.23)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.93	(0.48)	0.57	(0.42)	0.30	(0.19)	0.91	(0.49)	2.71	(0.40)
Outdoors, other location	0.00	(0.00)	0.19	(0.14)	0.71	(0.44)	0.00	(0.00)	0.90	(0.13)
Outdoors, not specified	0.10	(0.05)	0.10	(0.08)	0.06	(0.04)	0.13	(0.07)	0.38	(0.06)
In transit, train	0.43	(0.22)	0.04	(0.03)	0.00	(0.00)	0.23	(0.12)	0.70	(0.10)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.71	(7.39)	10.24	(8.20)	14.10	(9.40)	11.78	(6.82)	49.84	(7.87)
In transit, bus	0.37	(0.20)	0.47	(0.37)	0.64	(0.43)	0.48	(0.28)	1.95	(0.31)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.14	(0.07)	0.01	(0.01)	0.00	(0.00)	0.08	(0.04)	0.23	(0.04)
Indoors, public garage	0.05	(0.03)	0.05	(0.04)	0.17	(0.11)	0.03	(0.02)	0.30	(0.05)
Outdoors, in a parking lot	0.21	(0.12)	0.35	(0.28)	0.59	(0.39)	0.20	(0.11)	1.35	(0.21)
Outdoors, along a roadway	4.57	(2.47)	3.94	(3.15)	6.87	(4.58)	3.73	(2.16)	19.12	(3.02)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.02	(0.02)	0.02	(0.01)	0.00	(0.00)	0.05	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	149.22	(80.41)	98.07	(78.45)	112.33	(74.88)	142.03	(82.30)	501.65	(79.22)
Indoors, office	1.19	(0.64)	0.24	(0.19)	0.16	(0.11)	0.67	(0.39)	2.25	(0.36)
Indoors, store	1.25	(0.68)	1.97	(1.58)	4.61	(3.07)	0.89	(0.52)	8.72	(1.38)
Indoors, restaurant	2.28	(1.23)	2.07	(1.66)	2.74	(1.83)	2.08	(1.21)	9.18	(1.45)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.04	(0.03)	0.06	(0.04)	0.00	(0.00)	0.10	(0.02)
Indoors, church	2.31	(1.24)	1.18	(0.95)	0.83	(0.55)	1.96	(1.13)	6.27	(0.99)
Indoors, shopping mall	2.44	(1.31)	2.36	(1.89)	1.40	(0.93)	3.26	(1.89)	9.46	(1.49)
Indoors, auditorium	0.06	(0.03)	0.06	(0.05)	0.04	(0.02)	0.08	(0.05)	0.24	(0.04)
Indoors, health care facility	1.05	(0.57)	0.38	(0.31)	0.23	(0.15)	0.76	(0.44)	2.42	(0.38)
Indoors, public building	0.30	(0.16)	0.31	(0.24)	0.26	(0.17)	0.34	(0.20)	1.20	(0.19)
Indoors, other location	5.98	(3.22)	1.75	(1.40)	2.31	(1.54)	3.74	(2.17)	13.78	(2.18)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.33	(0.18)	1.05	(0.84)	2.05	(1.37)	0.26	(0.15)	3.69	(0.58)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.13	(0.07)	0.18	(0.14)	0.17	(0.11)	0.24	(0.14)	0.72	(0.11)
Outdoors, park/golf course	0.00	(0.00)	0.08	(0.07)	0.16	(0.11)	0.00	(0.00)	0.24	(0.04)
Outdoors, other location	0.00	(0.00)	0.14	(0.11)	0.29	(0.19)	0.00	(0.00)	0.43	(0.07)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.87	(7.01)	9.64	(5.94)	12.87	(6.64)	14.21	(6.36)	53.59	(6.53)
In transit, bus	0.00	(0.00)	0.39	(0.24)	0.51	(0.26)	0.00	(0.00)	0.90	(0.11)
In transit, truck	18.27	(7.59)	13.46	(8.29)	16.13	(8.33)	15.72	(7.03)	63.58	(7.75)
In transit, van	1.16	(0.48)	0.11	(0.07)	0.00	(0.00)	0.63	(0.28)	1.91	(0.23)
Indoors, public garage	4.54	(1.89)	2.26	(1.39)	1.22	(0.63)	4.78	(2.14)	12.80	(1.56)
Outdoors, in a parking lot	2.44	(1.01)	2.42	(1.49)	2.24	(1.16)	2.97	(1.33)	10.07	(1.23)
Outdoors, along a roadway	28.19	(11.71)	25.20	(15.52)	34.45	(17.78)	28.50	(12.75)	116.34	(14.18)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	8.14	(3.38)	1.13	(0.70)	0.45	(0.23)	4.42	(1.98)	14.15	(1.72)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.38	(0.57)	0.19	(0.12)	0.03	(0.02)	0.69	(0.31)	2.28	(0.28)
Indoors, in a repair shop	0.00	(0.00)	0.16	(0.10)	0.23	(0.12)	0.00	(0.00)	0.39	(0.05)
Indoors, home	97.58	(40.55)	61.99	(38.19)	70.45	(36.37)	95.50	(42.71)	325.52	(39.68)
Indoors, office	4.50	(1.87)	2.57	(1.58)	2.01	(1.04)	2.80	(1.25)	11.89	(1.45)
Indoors, store	1.20	(0.50)	0.42	(0.26)	0.24	(0.12)	0.81	(0.36)	2.67	(0.32)
Indoors, restaurant	4.28	(1.78)	1.72	(1.06)	1.84	(0.95)	3.84	(1.72)	11.69	(1.42)
Indoors, mfg. facility	2.69	(1.12)	5.48	(3.38)	11.68	(6.03)	3.60	(1.61)	23.45	(2.86)
Indoors, school	1.10	(0.46)	1.02	(0.63)	0.57	(0.30)	1.44	(0.65)	4.13	(0.50)
Indoors, church	1.84	(0.77)	0.54	(0.33)	0.28	(0.14)	1.28	(0.57)	3.93	(0.48)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.16	(0.07)	0.35	(0.22)	0.69	(0.35)	0.07	(0.03)	1.26	(0.15)
Indoors, health care facility	0.00	(0.00)	0.24	(0.15)	0.61	(0.32)	0.00	(0.00)	0.85	(0.10)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	6.63	(2.76)	1.41	(0.87)	0.68	(0.35)	4.14	(1.85)	12.87	(1.57)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	13.62	(5.66)	14.05	(8.66)	16.34	(8.43)	12.17	(5.45)	56.19	(6.85)
Outdoors, residential grounds	1.96	(0.81)	1.90	(1.17)	1.70	(0.88)	2.39	(1.07)	7.95	(0.97)
Outdoors, school grounds	0.12	(0.05)	0.11	(0.07)	0.06	(0.03)	0.16	(0.07)	0.45	(0.05)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.54	(0.23)	0.56	(0.35)	0.38	(0.20)	0.77	(0.34)	2.25	(0.27)
Outdoors, other location	23.41	(9.73)	14.98	(9.23)	18.10	(9.34)	22.68	(10.14)	79.17	(9.65)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.47	(5.00)	9.21	(6.52)	12.97	(7.79)	11.36	(5.76)	44.02	(6.16)
In transit, bus	7.79	(3.72)	3.84	(2.72)	2.29	(1.37)	7.03	(3.56)	20.94	(2.93)
In transit, truck	0.09	(0.04)	0.21	(0.15)	0.30	(0.18)	0.16	(0.08)	0.76	(0.11)
In transit, van	0.46	(0.22)	0.23	(0.17)	0.30	(0.18)	0.36	(0.18)	1.35	(0.19)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.05	(0.50)	0.70	(0.50)	0.85	(0.51)	0.88	(0.44)	3.48	(0.49)
Outdoors, along a roadway	20.68	(9.88)	15.79	(11.18)	22.77	(13.68)	19.33	(9.80)	78.57	(11.00)
In transit, motorcycle	0.52	(0.25)	0.08	(0.06)	0.04	(0.02)	0.34	(0.17)	0.97	(0.14)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.05	(0.02)	0.06	(0.04)	0.07	(0.04)	0.07	(0.03)	0.25	(0.03)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	110.89	(52.97)	74.55	(52.78)	90.11	(54.13)	105.29	(53.36)	380.85	(53.32)
Indoors, office	0.31	(0.15)	0.23	(0.17)	0.58	(0.35)	0.19	(0.10)	1.32	(0.18)
Indoors, store	2.00	(0.95)	1.26	(0.89)	1.71	(1.03)	1.73	(0.87)	6.70	(0.94)
Indoors, restaurant	1.31	(0.63)	1.42	(1.01)	2.00	(1.20)	1.80	(0.91)	6.53	(0.91)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	37.83	(18.07)	18.28	(12.94)	10.75	(6.46)	32.99	(16.72)	99.85	(13.98)
Indoors, church	1.00	(0.48)	0.58	(0.41)	0.70	(0.42)	0.86	(0.44)	3.13	(0.44)
Indoors, shopping mall	1.45	(0.69)	0.88	(0.62)	0.56	(0.33)	1.16	(0.59)	4.04	(0.57)
Indoors, auditorium	0.11	(0.05)	0.12	(0.08)	0.15	(0.09)	0.19	(0.10)	0.57	(0.08)
Indoors, health care facility	0.62	(0.30)	0.50	(0.35)	0.43	(0.26)	0.83	(0.42)	2.38	(0.33)
Indoors, public building	0.54	(0.26)	0.41	(0.29)	0.48	(0.29)	0.54	(0.27)	1.96	(0.28)
Indoors, other location	1.57	(0.75)	1.04	(0.74)	1.36	(0.82)	1.45	(0.74)	5.43	(0.76)
Indoors, not specified	0.00	(0.00)	0.03	(0.02)	0.05	(0.03)	0.00	(0.00)	0.07	(0.01)
Outdoors, construction	0.00	(0.00)	0.10	(0.07)	0.15	(0.09)	0.00	(0.00)	0.26	(0.04)
Outdoors, residential grounds	4.01	(1.92)	4.72	(3.34)	8.33	(5.00)	3.94	(2.00)	21.00	(2.94)
Outdoors, school grounds	5.74	(2.74)	3.78	(2.67)	2.42	(1.46)	5.78	(2.93)	17.73	(2.48)
Outdoors, sports arena	0.57	(0.27)	0.57	(0.40)	0.87	(0.53)	0.63	(0.32)	2.65	(0.37)
Outdoors, park/golf course	0.18	(0.09)	0.83	(0.59)	1.83	(1.10)	0.27	(0.14)	3.11	(0.44)
Outdoors, other location	0.07	(0.04)	1.81	(1.28)	4.35	(2.62)	0.12	(0.06)	6.36	(0.89)
Outdoors, not specified	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.00	(5.90)	9.08	(7.11)	11.47	(7.53)	9.63	(5.49)	41.18	(6.41)
In transit, bus	2.78	(1.49)	1.81	(1.41)	1.13	(0.74)	2.93	(1.67)	8.64	(1.35)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.52	(0.28)	0.50	(0.39)	0.44	(0.29)	0.98	(0.56)	2.44	(0.38)
Indoors, public garage	0.00	(0.00)	0.01	(0.01)	0.05	(0.03)	0.00	(0.00)	0.06	(0.01)
Outdoors, in a parking lot	0.57	(0.31)	0.52	(0.41)	0.67	(0.44)	0.51	(0.29)	2.27	(0.35)
Outdoors, along a roadway	5.13	(2.75)	4.97	(3.89)	8.32	(5.46)	4.51	(2.57)	22.93	(3.57)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.04	(0.03)	0.06	(0.04)	0.00	(0.00)	0.10	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.19	(0.10)	0.10	(0.08)	0.06	(0.04)	0.17	(0.10)	0.52	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	139.09	(74.54)	89.54	(70.09)	107.03	(70.25)	130.58	(74.45)	466.24	(72.61)
Indoors, office	6.54	(3.51)	4.18	(3.27)	3.86	(2.54)	5.87	(3.35)	20.46	(3.19)
Indoors, store	1.72	(0.92)	1.47	(1.15)	2.02	(1.33)	1.38	(0.79)	6.59	(1.03)
Indoors, restaurant	3.90	(2.09)	2.41	(1.89)	3.49	(2.29)	3.09	(1.76)	12.89	(2.01)
Indoors, mfg. facility	2.19	(1.18)	1.91	(1.50)	1.55	(1.02)	2.18	(1.24)	7.84	(1.22)
Indoors, school	7.25	(3.88)	4.40	(3.45)	2.63	(1.72)	6.86	(3.91)	21.13	(3.29)
Indoors, church	1.50	(0.80)	0.95	(0.74)	0.70	(0.46)	1.75	(1.00)	4.89	(0.76)
Indoors, shopping mall	0.63	(0.34)	0.92	(0.72)	1.58	(1.04)	0.82	(0.47)	3.95	(0.62)
Indoors, auditorium	0.04	(0.02)	0.03	(0.02)	0.02	(0.01)	0.06	(0.03)	0.15	(0.02)
Indoors, health care facility	0.93	(0.50)	0.52	(0.41)	0.61	(0.40)	0.74	(0.42)	2.80	(0.44)
Indoors, public building	0.06	(0.03)	0.19	(0.15)	0.52	(0.34)	0.06	(0.04)	0.84	(0.13)
Indoors, other location	0.22	(0.12)	0.67	(0.53)	1.06	(0.69)	0.30	(0.17)	2.25	(0.35)
Indoors, not specified	0.08	(0.04)	0.17	(0.13)	0.43	(0.28)	0.03	(0.02)	0.71	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.12	(0.60)	2.13	(1.67)	3.48	(2.28)	1.65	(0.94)	8.38	(1.31)
Outdoors, school grounds	0.89	(0.48)	0.69	(0.54)	0.41	(0.27)	1.13	(0.64)	3.11	(0.48)
Outdoors, sports arena	0.01	(0.00)	0.07	(0.05)	0.06	(0.04)	0.01	(0.01)	0.15	(0.02)
Outdoors, park/golf course	0.21	(0.11)	0.08	(0.06)	0.18	(0.12)	0.11	(0.06)	0.58	(0.09)
Outdoors, other location	0.04	(0.02)	0.38	(0.29)	0.53	(0.35)	0.05	(0.03)	1.00	(0.16)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Baltimore: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.51	(10.74)	13.61	(10.11)	15.54	(9.76)	19.63	(10.45)	70.28	(10.31)
In transit, bus	2.12	(1.06)	1.24	(0.92)	0.98	(0.61)	1.95	(1.04)	6.29	(0.92)
In transit, truck	1.97	(0.98)	1.21	(0.90)	1.18	(0.74)	1.68	(0.90)	6.04	(0.89)
In transit, van	0.66	(0.33)	0.58	(0.43)	0.71	(0.45)	0.80	(0.42)	2.74	(0.40)
Indoors, public garage	0.50	(0.25)	0.25	(0.18)	0.17	(0.10)	0.45	(0.24)	1.36	(0.20)
Outdoors, in a parking lot	0.90	(0.45)	0.84	(0.63)	1.17	(0.74)	0.87	(0.46)	3.79	(0.56)
Outdoors, along a roadway	7.88	(3.94)	7.71	(5.72)	11.43	(7.19)	8.11	(4.32)	35.14	(5.15)
In transit, motorcycle	0.03	(0.01)	0.11	(0.08)	0.24	(0.15)	0.02	(0.01)	0.39	(0.06)
Indoors, service station	0.61	(0.30)	0.23	(0.17)	0.14	(0.09)	0.47	(0.25)	1.46	(0.21)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.18	(0.09)	0.12	(0.09)	0.09	(0.06)	0.22	(0.12)	0.61	(0.09)
Indoors, in a repair shop	0.40	(0.20)	0.05	(0.03)	0.01	(0.00)	0.20	(0.11)	0.65	(0.09)
Indoors, home	122.36	(61.09)	80.02	(59.42)	95.15	(59.81)	115.75	(61.63)	413.28	(60.61)
Indoors, office	11.74	(5.86)	6.33	(4.70)	5.63	(3.54)	9.82	(5.23)	33.52	(4.92)
Indoors, store	3.34	(1.67)	2.41	(1.79)	2.94	(1.85)	3.04	(1.62)	11.72	(1.72)
Indoors, restaurant	4.23	(2.11)	2.60	(1.93)	2.88	(1.81)	3.70	(1.97)	13.41	(1.97)
Indoors, mfg. facility	1.36	(0.68)	1.31	(0.97)	1.56	(0.98)	1.36	(0.72)	5.59	(0.82)
Indoors, school	7.90	(3.94)	5.03	(3.74)	3.70	(2.33)	7.70	(4.10)	24.33	(3.57)
Indoors, church	0.82	(0.41)	0.56	(0.42)	0.60	(0.38)	0.86	(0.46)	2.84	(0.42)
Indoors, shopping mall	1.20	(0.60)	0.73	(0.55)	0.72	(0.45)	1.04	(0.55)	3.69	(0.54)
Indoors, auditorium	0.15	(0.08)	0.10	(0.08)	0.13	(0.08)	0.16	(0.09)	0.55	(0.08)
Indoors, health care facility	1.33	(0.66)	0.84	(0.63)	0.86	(0.54)	1.27	(0.67)	4.30	(0.63)
Indoors, public building	0.37	(0.18)	0.34	(0.25)	0.54	(0.34)	0.36	(0.19)	1.61	(0.24)
Indoors, other location	5.43	(2.71)	3.18	(2.36)	3.13	(1.97)	4.83	(2.57)	16.58	(2.43)
Indoors, not specified	0.28	(0.14)	0.08	(0.06)	0.09	(0.05)	0.17	(0.09)	0.62	(0.09)
Outdoors, construction	0.26	(0.13)	0.27	(0.20)	0.26	(0.17)	0.27	(0.14)	1.06	(0.16)
Outdoors, residential grounds	1.18	(0.59)	2.42	(1.79)	4.94	(3.11)	1.40	(0.74)	9.94	(1.46)
Outdoors, school grounds	0.68	(0.34)	0.64	(0.48)	0.55	(0.34)	0.77	(0.41)	2.64	(0.39)
Outdoors, sports arena	0.09	(0.04)	0.17	(0.13)	0.34	(0.21)	0.08	(0.04)	0.68	(0.10)
Outdoors, park/golf course	0.15	(0.07)	0.45	(0.33)	0.95	(0.60)	0.20	(0.11)	1.75	(0.26)
Outdoors, other location	0.54	(0.27)	1.15	(0.85)	2.42	(1.52)	0.56	(0.30)	4.66	(0.68)
Outdoors, not specified	0.03	(0.01)	0.03	(0.02)	0.03	(0.02)	0.03	(0.02)	0.12	(0.02)
In transit, train	0.11	(0.06)	0.04	(0.03)	0.04	(0.02)	0.08	(0.04)	0.27	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.31	(9.48)	14.06	(10.11)	14.51	(10.66)	15.27	(9.68)	61.15	(9.93)
In transit, bus	2.82	(1.54)	1.58	(1.13)	0.99	(0.73)	2.23	(1.41)	7.61	(1.24)
In transit, truck	0.72	(0.39)	1.20	(0.87)	1.29	(0.94)	1.00	(0.64)	4.21	(0.68)
In transit, van	0.83	(0.45)	0.64	(0.46)	0.68	(0.50)	0.83	(0.52)	2.98	(0.48)
Indoors, public garage	0.41	(0.22)	0.18	(0.13)	0.10	(0.07)	0.28	(0.18)	0.97	(0.16)
Outdoors, in a parking lot	1.51	(0.83)	1.20	(0.86)	1.18	(0.87)	1.21	(0.77)	5.10	(0.83)
Outdoors, along a roadway	8.87	(4.86)	8.93	(6.42)	10.88	(7.99)	8.39	(5.32)	37.08	(6.02)
In transit, motorcycle	0.11	(0.06)	0.14	(0.10)	0.25	(0.19)	0.05	(0.03)	0.55	(0.09)
Indoors, service station	0.46	(0.25)	0.24	(0.17)	0.14	(0.10)	0.36	(0.23)	1.20	(0.20)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.14	(0.07)	0.11	(0.08)	0.08	(0.06)	0.15	(0.10)	0.49	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, home	107.89	(59.08)	77.75	(55.89)	74.22	(54.52)	92.27	(58.50)	352.13	(57.20)
Indoors, office	6.17	(3.38)	4.89	(3.52)	4.63	(3.40)	5.17	(3.28)	20.86	(3.39)
Indoors, store	4.47	(2.45)	3.20	(2.30)	3.07	(2.25)	3.51	(2.22)	14.24	(2.31)
Indoors, restaurant	4.70	(2.57)	3.37	(2.42)	3.14	(2.31)	3.74	(2.37)	14.94	(2.43)
Indoors, mfg. facility	2.38	(1.30)	1.87	(1.35)	1.78	(1.31)	1.96	(1.24)	7.99	(1.30)
Indoors, school	12.35	(6.76)	7.11	(5.11)	4.27	(3.14)	10.18	(6.45)	33.91	(5.51)
Indoors, church	0.84	(0.46)	0.58	(0.42)	0.50	(0.37)	0.76	(0.48)	2.69	(0.44)
Indoors, shopping mall	1.35	(0.74)	1.02	(0.73)	0.74	(0.54)	1.16	(0.73)	4.27	(0.69)
Indoors, auditorium	0.13	(0.07)	0.12	(0.08)	0.14	(0.10)	0.15	(0.10)	0.53	(0.09)
Indoors, health care facility	1.37	(0.75)	0.93	(0.67)	0.72	(0.53)	1.24	(0.79)	4.26	(0.69)
Indoors, public building	0.43	(0.23)	0.44	(0.31)	0.49	(0.36)	0.41	(0.26)	1.77	(0.29)
Indoors, other location	3.26	(1.78)	3.23	(2.32)	3.31	(2.43)	3.16	(2.00)	12.95	(2.10)
Indoors, not specified	0.07	(0.04)	0.06	(0.04)	0.08	(0.06)	0.04	(0.02)	0.24	(0.04)
Outdoors, construction	0.32	(0.18)	0.44	(0.32)	0.39	(0.28)	0.37	(0.23)	1.51	(0.25)
Outdoors, residential grounds	1.81	(0.99)	2.82	(2.03)	4.30	(3.16)	1.91	(1.21)	10.84	(1.76)
Outdoors, school grounds	1.23	(0.67)	1.06	(0.76)	0.84	(0.62)	1.22	(0.77)	4.35	(0.71)
Outdoors, sports arena	0.05	(0.03)	0.21	(0.15)	0.35	(0.26)	0.05	(0.03)	0.66	(0.11)
Outdoors, park/golf course	0.21	(0.11)	0.55	(0.39)	0.93	(0.68)	0.28	(0.17)	1.96	(0.32)
Outdoors, other location	0.36	(0.20)	1.14	(0.82)	2.09	(1.54)	0.32	(0.21)	3.92	(0.64)
Outdoors, not specified	0.05	(0.03)	0.04	(0.03)	0.04	(0.03)	0.04	(0.03)	0.17	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	18.16	(9.68)	11.90	(8.15)	11.30	(7.82)	12.03	(7.80)	53.39	(8.44)
In transit, bus	2.74	(1.46)	4.16	(2.85)	3.84	(2.66)	4.07	(2.64)	14.81	(2.34)
In transit, truck	0.00	(0.00)	0.63	(0.43)	0.92	(0.64)	0.00	(0.00)	1.56	(0.25)
In transit, van	0.00	(0.00)	0.04	(0.03)	0.07	(0.05)	0.00	(0.00)	0.11	(0.02)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.45	(0.77)	1.02	(0.70)	1.27	(0.88)	0.81	(0.52)	4.56	(0.72)
Outdoors, along a roadway	4.90	(2.61)	8.56	(5.87)	12.58	(8.70)	4.72	(3.06)	30.76	(4.86)
In transit, motorcycle	0.06	(0.03)	0.14	(0.10)	0.12	(0.08)	0.17	(0.11)	0.49	(0.08)
Indoors, service station	0.00	(0.00)	0.08	(0.05)	0.12	(0.08)	0.00	(0.00)	0.20	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.04	(0.03)	0.06	(0.04)	0.00	(0.00)	0.10	(0.02)
Indoors, home	129.20	(68.83)	93.90	(64.33)	89.99	(62.24)	106.64	(69.17)	419.73	(66.37)
Indoors, office	0.17	(0.09)	1.97	(1.35)	2.91	(2.01)	0.41	(0.27)	5.47	(0.86)
Indoors, store	1.19	(0.64)	1.23	(0.84)	1.68	(1.16)	1.05	(0.68)	5.16	(0.82)
Indoors, restaurant	2.87	(1.53)	0.93	(0.64)	0.30	(0.21)	1.46	(0.95)	5.57	(0.88)
Indoors, mfg. facility	4.88	(2.60)	1.82	(1.25)	1.16	(0.80)	2.12	(1.37)	9.98	(1.58)
Indoors, school	5.73	(3.05)	6.97	(4.78)	4.73	(3.27)	8.28	(5.37)	25.72	(4.07)
Indoors, church	3.17	(1.69)	1.71	(1.17)	1.21	(0.84)	2.26	(1.47)	8.35	(1.32)
Indoors, shopping mall	0.30	(0.16)	0.49	(0.34)	0.54	(0.37)	0.73	(0.47)	2.06	(0.33)
Indoors, auditorium	0.04	(0.02)	0.05	(0.03)	0.05	(0.04)	0.09	(0.06)	0.23	(0.04)
Indoors, health care facility	1.08	(0.57)	1.55	(1.06)	2.20	(1.52)	1.41	(0.91)	6.24	(0.99)
Indoors, public building	0.03	(0.01)	0.17	(0.11)	0.38	(0.26)	0.08	(0.05)	0.65	(0.10)
Indoors, other location	10.78	(5.74)	3.78	(2.59)	2.65	(1.83)	5.27	(3.42)	22.46	(3.55)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.34	(0.18)	2.58	(1.76)	3.74	(2.59)	0.94	(0.61)	7.60	(1.20)
Outdoors, school grounds	0.39	(0.21)	0.98	(0.67)	0.70	(0.48)	1.08	(0.70)	3.16	(0.50)
Outdoors, sports arena	0.21	(0.11)	0.28	(0.19)	0.30	(0.21)	0.52	(0.34)	1.31	(0.21)
Outdoors, park/golf course	0.00	(0.00)	0.18	(0.12)	0.27	(0.19)	0.00	(0.00)	0.45	(0.07)
Outdoors, other location	0.02	(0.01)	0.42	(0.29)	0.94	(0.65)	0.01	(0.00)	1.38	(0.22)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.36	(0.25)	0.57	(0.40)	0.00	(0.00)	0.93	(0.15)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.04	(8.47)	10.99	(7.92)	10.62	(7.82)	11.31	(7.40)	47.96	(7.92)
In transit, bus	2.23	(1.26)	3.14	(2.26)	3.00	(2.21)	3.10	(2.03)	11.47	(1.90)
In transit, truck	0.00	(0.00)	0.56	(0.41)	0.81	(0.60)	0.00	(0.00)	1.37	(0.23)
In transit, van	0.38	(0.21)	0.60	(0.43)	0.55	(0.40)	0.84	(0.55)	2.36	(0.39)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.22	(0.68)	1.01	(0.73)	1.18	(0.87)	0.86	(0.56)	4.27	(0.71)
Outdoors, along a roadway	5.75	(3.23)	11.73	(8.45)	14.26	(10.49)	9.52	(6.23)	41.25	(6.82)
In transit, motorcycle	0.04	(0.02)	0.10	(0.07)	0.08	(0.06)	0.12	(0.08)	0.34	(0.06)
Indoors, service station	0.00	(0.00)	0.07	(0.05)	0.11	(0.08)	0.00	(0.00)	0.18	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.04	(0.03)	0.05	(0.04)	0.00	(0.00)	0.09	(0.02)
Indoors, home	126.28	(71.08)	88.45	(63.74)	82.86	(60.97)	104.38	(68.33)	401.96	(66.43)
Indoors, office	0.21	(0.12)	2.04	(1.47)	2.87	(2.11)	0.55	(0.36)	5.67	(0.94)
Indoors, store	1.00	(0.56)	1.31	(0.94)	1.80	(1.33)	1.00	(0.65)	5.11	(0.84)
Indoors, restaurant	2.51	(1.41)	0.90	(0.65)	0.34	(0.25)	1.46	(0.95)	5.20	(0.86)
Indoors, mfg. facility	4.15	(2.34)	1.56	(1.12)	1.03	(0.76)	1.87	(1.22)	8.61	(1.42)
Indoors, school	5.45	(3.07)	5.20	(3.75)	3.46	(2.54)	6.63	(4.34)	20.74	(3.43)
Indoors, church	2.49	(1.40)	1.49	(1.08)	1.21	(0.89)	2.15	(1.41)	7.35	(1.21)
Indoors, shopping mall	0.26	(0.15)	0.42	(0.31)	0.46	(0.33)	0.67	(0.44)	1.81	(0.30)
Indoors, auditorium	0.03	(0.02)	0.04	(0.03)	0.04	(0.03)	0.09	(0.06)	0.20	(0.03)
Indoors, health care facility	0.88	(0.50)	1.29	(0.93)	1.85	(1.36)	1.18	(0.77)	5.20	(0.86)
Indoors, public building	0.02	(0.01)	0.14	(0.10)	0.31	(0.23)	0.07	(0.05)	0.55	(0.09)
Indoors, other location	8.79	(4.95)	3.37	(2.42)	2.45	(1.81)	4.69	(3.07)	19.31	(3.19)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.43	(0.24)	2.44	(1.76)	4.00	(2.94)	0.94	(0.61)	7.81	(1.29)
Outdoors, school grounds	0.27	(0.15)	0.68	(0.49)	0.49	(0.36)	0.78	(0.51)	2.22	(0.37)
Outdoors, sports arena	0.18	(0.10)	0.26	(0.19)	0.28	(0.21)	0.48	(0.31)	1.20	(0.20)
Outdoors, park/golf course	0.00	(0.00)	0.15	(0.11)	0.23	(0.17)	0.00	(0.00)	0.38	(0.06)
Outdoors, other location	0.04	(0.02)	0.48	(0.34)	1.10	(0.81)	0.09	(0.06)	1.71	(0.28)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.31	(0.22)	0.48	(0.35)	0.00	(0.00)	0.79	(0.13)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.63	(4.99)	7.92	(5.99)	9.40	(7.29)	7.41	(5.00)	33.36	(5.73)
In transit, bus	2.82	(1.63)	1.58	(1.20)	0.89	(0.69)	2.24	(1.51)	7.52	(1.29)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.14	(0.10)	0.50	(0.39)	0.00	(0.00)	0.63	(0.11)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.88	(0.51)	1.43	(1.08)	1.80	(1.40)	1.17	(0.79)	5.28	(0.91)
Outdoors, along a roadway	7.60	(4.39)	8.18	(6.19)	8.30	(6.44)	8.31	(5.61)	32.39	(5.56)
In transit, motorcycle	0.00	(0.00)	0.08	(0.06)	0.19	(0.15)	0.00	(0.00)	0.27	(0.05)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	130.55	(75.45)	95.61	(72.37)	92.03	(71.41)	111.09	(74.95)	429.28	(73.73)
Indoors, office	0.52	(0.30)	0.16	(0.12)	0.10	(0.08)	0.26	(0.17)	1.04	(0.18)
Indoors, store	3.64	(2.10)	2.95	(2.23)	3.66	(2.84)	2.32	(1.57)	12.57	(2.16)
Indoors, restaurant	4.85	(2.80)	1.58	(1.20)	0.70	(0.54)	2.63	(1.77)	9.76	(1.68)
Indoors, mfg. facility	2.38	(1.38)	1.97	(1.49)	2.16	(1.68)	1.06	(0.72)	7.57	(1.30)
Indoors, school	6.86	(3.96)	4.73	(3.58)	2.36	(1.83)	6.97	(4.70)	20.92	(3.59)
Indoors, church	0.33	(0.19)	0.27	(0.21)	0.18	(0.14)	0.46	(0.31)	1.25	(0.22)
Indoors, shopping mall	0.36	(0.21)	0.79	(0.60)	0.51	(0.40)	1.05	(0.71)	2.72	(0.47)
Indoors, auditorium	0.07	(0.04)	0.11	(0.08)	0.17	(0.13)	0.18	(0.12)	0.53	(0.09)
Indoors, health care facility	0.13	(0.07)	0.31	(0.23)	0.30	(0.23)	0.36	(0.24)	1.10	(0.19)
Indoors, public building	0.67	(0.39)	0.30	(0.23)	0.09	(0.07)	0.37	(0.25)	1.43	(0.25)
Indoors, other location	1.38	(0.80)	1.62	(1.23)	1.73	(1.34)	1.04	(0.70)	5.77	(0.99)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.08	(0.62)	1.44	(1.09)	1.80	(1.40)	0.98	(0.66)	5.31	(0.91)
Outdoors, school grounds	0.09	(0.05)	0.19	(0.15)	0.12	(0.09)	0.24	(0.16)	0.64	(0.11)
Outdoors, sports arena	0.00	(0.00)	0.19	(0.15)	0.34	(0.26)	0.00	(0.00)	0.53	(0.09)
Outdoors, park/golf course	0.19	(0.11)	0.13	(0.10)	0.15	(0.12)	0.08	(0.05)	0.55	(0.09)
Outdoors, other location	0.00	(0.00)	0.41	(0.31)	1.36	(1.06)	0.01	(0.01)	1.79	(0.31)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.55	(8.02)	12.14	(8.66)	12.30	(8.95)	13.35	(8.54)	52.35	(8.51)
In transit, bus	0.88	(0.49)	1.11	(0.79)	0.96	(0.70)	1.13	(0.72)	4.08	(0.66)
In transit, truck	0.56	(0.31)	2.01	(1.43)	2.46	(1.79)	0.73	(0.47)	5.76	(0.94)
In transit, van	0.09	(0.05)	0.16	(0.11)	0.20	(0.15)	0.19	(0.12)	0.64	(0.10)
Indoors, public garage	0.00	(0.00)	0.02	(0.02)	0.07	(0.05)	0.00	(0.00)	0.09	(0.01)
Outdoors, in a parking lot	2.74	(1.51)	1.57	(1.12)	1.44	(1.05)	1.77	(1.13)	7.53	(1.22)
Outdoors, along a roadway	9.78	(5.39)	10.21	(7.28)	13.02	(9.47)	8.67	(5.55)	41.69	(6.77)
In transit, motorcycle	0.00	(0.00)	0.72	(0.51)	1.69	(1.23)	0.00	(0.00)	2.41	(0.39)
Indoors, service station	0.00	(0.00)	0.05	(0.04)	0.12	(0.09)	0.01	(0.00)	0.18	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.18	(0.10)	0.13	(0.10)	0.10	(0.07)	0.24	(0.15)	0.65	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.02	(0.01)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Indoors, home	112.51	(62.01)	81.82	(58.31)	78.87	(57.36)	95.97	(61.42)	369.17	(59.98)
Indoors, office	3.99	(2.20)	3.25	(2.32)	2.82	(2.05)	3.57	(2.29)	13.63	(2.21)
Indoors, store	2.86	(1.58)	2.85	(2.03)	3.28	(2.39)	2.69	(1.72)	11.69	(1.90)
Indoors, restaurant	7.83	(4.32)	4.44	(3.16)	2.70	(1.96)	6.26	(4.01)	21.23	(3.45)
Indoors, mfg. facility	3.66	(2.01)	2.29	(1.63)	1.61	(1.17)	2.83	(1.81)	10.38	(1.69)
Indoors, school	10.59	(5.84)	5.94	(4.24)	3.44	(2.50)	8.08	(5.17)	28.05	(4.56)
Indoors, church	0.69	(0.38)	0.58	(0.41)	0.53	(0.39)	0.76	(0.48)	2.55	(0.41)
Indoors, shopping mall	2.18	(1.20)	1.22	(0.87)	0.52	(0.38)	1.40	(0.90)	5.32	(0.86)
Indoors, auditorium	0.02	(0.01)	0.05	(0.03)	0.06	(0.04)	0.07	(0.04)	0.20	(0.03)
Indoors, health care facility	2.40	(1.32)	1.27	(0.90)	1.10	(0.80)	1.88	(1.20)	6.64	(1.08)
Indoors, public building	0.46	(0.25)	0.20	(0.14)	0.12	(0.09)	0.26	(0.17)	1.04	(0.17)
Indoors, other location	2.51	(1.39)	3.64	(2.59)	3.60	(2.62)	3.44	(2.20)	13.19	(2.14)
Indoors, not specified	0.04	(0.02)	0.06	(0.04)	0.08	(0.06)	0.01	(0.01)	0.19	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.59	(0.88)	2.26	(1.61)	3.33	(2.42)	1.59	(1.02)	8.78	(1.43)
Outdoors, school grounds	1.08	(0.60)	1.18	(0.84)	0.96	(0.70)	1.15	(0.73)	4.37	(0.71)
Outdoors, sports arena	0.00	(0.00)	0.21	(0.15)	0.35	(0.26)	0.00	(0.00)	0.57	(0.09)
Outdoors, park/golf course	0.04	(0.02)	0.33	(0.23)	0.87	(0.63)	0.11	(0.07)	1.35	(0.22)
Outdoors, other location	0.00	(0.00)	0.53	(0.38)	0.86	(0.62)	0.00	(0.00)	1.39	(0.23)
Outdoors, not specified	0.20	(0.11)	0.04	(0.03)	0.00	(0.00)	0.10	(0.06)	0.34	(0.06)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.93	(9.80)	14.01	(10.04)	14.26	(10.43)	15.52	(9.83)	61.72	(10.00)
In transit, bus	3.19	(1.75)	1.60	(1.15)	1.06	(0.77)	2.26	(1.43)	8.11	(1.31)
In transit, truck	0.45	(0.25)	0.93	(0.67)	0.95	(0.70)	0.71	(0.45)	3.05	(0.49)
In transit, van	1.78	(0.97)	1.26	(0.90)	1.22	(0.89)	1.63	(1.03)	5.89	(0.95)
Indoors, public garage	0.99	(0.54)	0.35	(0.25)	0.11	(0.08)	0.65	(0.41)	2.10	(0.34)
Outdoors, in a parking lot	1.30	(0.71)	1.08	(0.78)	1.09	(0.80)	1.08	(0.68)	4.56	(0.74)
Outdoors, along a roadway	8.09	(4.42)	9.75	(6.98)	11.90	(8.70)	9.02	(5.71)	38.76	(6.28)
In transit, motorcycle	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, service station	0.09	(0.05)	0.06	(0.04)	0.04	(0.03)	0.07	(0.04)	0.26	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.21	(0.12)	0.14	(0.10)	0.08	(0.06)	0.19	(0.12)	0.62	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	110.02	(60.15)	78.68	(56.37)	74.57	(54.54)	93.37	(59.13)	356.65	(57.79)
Indoors, office	5.63	(3.08)	4.82	(3.45)	4.63	(3.39)	5.20	(3.29)	20.28	(3.29)
Indoors, store	4.01	(2.19)	2.98	(2.13)	3.09	(2.26)	2.96	(1.88)	13.04	(2.11)
Indoors, restaurant	3.14	(1.71)	2.38	(1.70)	2.30	(1.68)	2.68	(1.69)	10.48	(1.70)
Indoors, mfg. facility	2.60	(1.42)	2.09	(1.50)	2.06	(1.51)	2.19	(1.38)	8.94	(1.45)
Indoors, school	10.32	(5.64)	5.98	(4.29)	3.83	(2.80)	8.05	(5.10)	28.19	(4.57)
Indoors, church	1.49	(0.81)	0.83	(0.59)	0.60	(0.44)	1.24	(0.78)	4.15	(0.67)
Indoors, shopping mall	1.40	(0.77)	0.82	(0.59)	0.50	(0.36)	1.07	(0.68)	3.80	(0.61)
Indoors, auditorium	0.13	(0.07)	0.11	(0.08)	0.11	(0.08)	0.16	(0.10)	0.51	(0.08)
Indoors, health care facility	1.16	(0.63)	0.88	(0.63)	0.70	(0.51)	1.10	(0.70)	3.84	(0.62)
Indoors, public building	0.44	(0.24)	0.56	(0.40)	0.74	(0.54)	0.46	(0.29)	2.20	(0.36)
Indoors, other location	4.35	(2.38)	3.30	(2.36)	3.11	(2.27)	3.62	(2.29)	14.37	(2.33)
Indoors, not specified	0.12	(0.06)	0.08	(0.06)	0.11	(0.08)	0.05	(0.03)	0.36	(0.06)
Outdoors, construction	0.71	(0.39)	0.89	(0.64)	0.74	(0.54)	0.80	(0.51)	3.14	(0.51)
Outdoors, residential grounds	1.43	(0.78)	3.17	(2.27)	4.78	(3.49)	1.97	(1.25)	11.35	(1.84)
Outdoors, school grounds	1.12	(0.61)	0.93	(0.67)	0.78	(0.57)	1.05	(0.67)	3.88	(0.63)
Outdoors, sports arena	0.01	(0.00)	0.13	(0.09)	0.26	(0.19)	0.02	(0.01)	0.41	(0.07)
Outdoors, park/golf course	0.18	(0.10)	0.47	(0.34)	0.68	(0.50)	0.25	(0.16)	1.58	(0.26)
Outdoors, other location	0.61	(0.33)	1.22	(0.88)	2.33	(1.70)	0.56	(0.36)	4.72	(0.76)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.05	(0.04)	0.08	(0.06)	0.00	(0.00)	0.14	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.05	(11.96)	17.50	(12.42)	17.42	(12.63)	19.74	(12.35)	76.71	(12.31)
In transit, bus	2.42	(1.31)	1.86	(1.32)	1.10	(0.80)	2.61	(1.63)	7.99	(1.28)
In transit, truck	0.20	(0.11)	0.60	(0.43)	1.04	(0.76)	0.36	(0.23)	2.21	(0.35)
In transit, van	0.00	(0.00)	0.18	(0.13)	0.34	(0.25)	0.01	(0.01)	0.53	(0.08)
Indoors, public garage	0.05	(0.03)	0.03	(0.02)	0.03	(0.02)	0.04	(0.03)	0.16	(0.03)
Outdoors, in a parking lot	1.23	(0.67)	1.04	(0.73)	0.97	(0.70)	1.11	(0.70)	4.35	(0.70)
Outdoors, along a roadway	9.04	(4.91)	8.58	(6.09)	10.73	(7.78)	8.06	(5.05)	36.42	(5.85)
In transit, motorcycle	0.40	(0.22)	0.07	(0.05)	0.00	(0.00)	0.19	(0.12)	0.66	(0.11)
Indoors, service station	0.00	(0.00)	0.02	(0.02)	0.04	(0.03)	0.00	(0.00)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.09	(0.07)	0.12	(0.09)	0.03	(0.02)	0.26	(0.04)
Indoors, in a repair shop	0.01	(0.01)	0.03	(0.02)	0.02	(0.01)	0.03	(0.02)	0.09	(0.01)
Indoors, home	104.97	(56.95)	74.45	(52.84)	70.30	(50.95)	89.05	(55.71)	338.76	(54.38)
Indoors, office	10.51	(5.71)	7.37	(5.23)	6.76	(4.90)	8.18	(5.12)	32.82	(5.27)
Indoors, store	4.25	(2.30)	3.18	(2.26)	3.05	(2.21)	3.35	(2.10)	13.83	(2.22)
Indoors, restaurant	3.62	(1.96)	3.32	(2.36)	3.57	(2.59)	3.42	(2.14)	13.93	(2.24)
Indoors, mfg. facility	3.13	(1.70)	2.19	(1.56)	1.82	(1.32)	2.49	(1.55)	9.63	(1.55)
Indoors, school	11.49	(6.24)	7.12	(5.05)	3.70	(2.68)	10.63	(6.65)	32.94	(5.29)
Indoors, church	0.45	(0.24)	0.46	(0.33)	0.51	(0.37)	0.46	(0.29)	1.88	(0.30)
Indoors, shopping mall	0.89	(0.48)	1.58	(1.12)	1.75	(1.27)	1.26	(0.79)	5.47	(0.88)
Indoors, auditorium	0.09	(0.05)	0.14	(0.10)	0.24	(0.17)	0.10	(0.06)	0.57	(0.09)
Indoors, health care facility	1.27	(0.69)	0.91	(0.64)	0.92	(0.67)	1.11	(0.70)	4.21	(0.68)
Indoors, public building	0.28	(0.15)	0.35	(0.25)	0.35	(0.25)	0.33	(0.21)	1.31	(0.21)
Indoors, other location	4.37	(2.37)	3.03	(2.15)	2.42	(1.75)	3.53	(2.21)	13.35	(2.14)
Indoors, not specified	0.07	(0.04)	0.06	(0.04)	0.04	(0.03)	0.06	(0.04)	0.22	(0.04)
Outdoors, construction	0.00	(0.00)	0.09	(0.07)	0.13	(0.10)	0.00	(0.00)	0.23	(0.04)
Outdoors, residential grounds	2.13	(1.16)	3.08	(2.19)	5.45	(3.95)	1.84	(1.15)	12.51	(2.01)
Outdoors, school grounds	1.02	(0.55)	0.93	(0.66)	0.62	(0.45)	1.19	(0.74)	3.76	(0.60)
Outdoors, sports arena	0.04	(0.02)	0.34	(0.24)	0.49	(0.36)	0.11	(0.07)	0.98	(0.16)
Outdoors, park/golf course	0.22	(0.12)	0.57	(0.41)	1.12	(0.81)	0.41	(0.26)	2.32	(0.37)
Outdoors, other location	0.08	(0.04)	1.74	(1.23)	2.90	(2.10)	0.11	(0.07)	4.83	(0.78)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.01	(5.96)	12.08	(8.74)	14.49	(10.64)	10.56	(6.69)	48.14	(7.80)
In transit, bus	1.67	(0.90)	0.34	(0.25)	0.16	(0.12)	0.72	(0.46)	2.89	(0.47)
In transit, truck	6.28	(3.40)	2.58	(1.87)	1.25	(0.91)	4.42	(2.80)	14.52	(2.35)
In transit, van	0.56	(0.31)	0.96	(0.69)	0.90	(0.66)	1.55	(0.98)	3.97	(0.64)
Indoors, public garage	0.00	(0.00)	0.06	(0.04)	0.08	(0.06)	0.00	(0.00)	0.14	(0.02)
Outdoors, in a parking lot	0.50	(0.27)	0.84	(0.61)	1.26	(0.93)	0.40	(0.25)	3.00	(0.49)
Outdoors, along a roadway	10.92	(5.91)	8.27	(5.98)	9.87	(7.25)	9.07	(5.74)	38.13	(6.18)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	3.70	(2.01)	0.72	(0.52)	0.00	(0.00)	1.64	(1.04)	6.07	(0.98)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	105.02	(56.89)	77.57	(56.11)	72.27	(53.07)	91.28	(57.81)	346.15	(56.12)
Indoors, office	6.78	(3.67)	6.18	(4.47)	6.77	(4.97)	4.87	(3.08)	24.60	(3.99)
Indoors, store	0.05	(0.03)	0.97	(0.70)	1.52	(1.12)	0.15	(0.09)	2.69	(0.44)
Indoors, restaurant	5.80	(3.14)	5.09	(3.68)	5.75	(4.23)	4.59	(2.91)	21.24	(3.44)
Indoors, mfg. facility	0.00	(0.00)	0.12	(0.09)	0.18	(0.13)	0.00	(0.00)	0.30	(0.05)
Indoors, school	22.64	(12.26)	9.43	(6.82)	5.97	(4.39)	15.15	(9.60)	53.20	(8.62)
Indoors, church	0.53	(0.29)	0.44	(0.32)	0.40	(0.30)	0.40	(0.25)	1.77	(0.29)
Indoors, shopping mall	0.08	(0.04)	0.18	(0.13)	0.12	(0.09)	0.23	(0.14)	0.62	(0.10)
Indoors, auditorium	0.26	(0.14)	0.29	(0.21)	0.31	(0.23)	0.54	(0.34)	1.40	(0.23)
Indoors, health care facility	1.09	(0.59)	0.64	(0.47)	0.40	(0.29)	1.07	(0.68)	3.20	(0.52)
Indoors, public building	0.00	(0.00)	0.14	(0.10)	0.49	(0.36)	0.00	(0.00)	0.63	(0.10)
Indoors, other location	1.11	(0.60)	2.36	(1.71)	3.31	(2.43)	3.02	(1.91)	9.80	(1.59)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.40	(0.29)	0.58	(0.43)	0.00	(0.00)	0.99	(0.16)
Outdoors, residential grounds	5.25	(2.84)	5.20	(3.76)	4.93	(3.62)	5.65	(3.58)	21.03	(3.41)
Outdoors, school grounds	0.70	(0.38)	1.13	(0.82)	1.06	(0.78)	1.64	(1.04)	4.54	(0.74)
Outdoors, sports arena	0.00	(0.00)	0.04	(0.03)	0.14	(0.11)	0.00	(0.00)	0.18	(0.03)
Outdoors, park/golf course	0.66	(0.36)	1.44	(1.04)	2.26	(1.66)	0.94	(0.59)	5.30	(0.86)
Outdoors, other location	0.00	(0.00)	0.76	(0.55)	1.65	(1.22)	0.00	(0.00)	2.41	(0.39)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.78	(6.46)	9.82	(7.07)	10.66	(7.81)	10.29	(6.54)	42.55	(6.92)
In transit, bus	4.42	(2.42)	2.83	(2.03)	1.68	(1.23)	4.04	(2.57)	12.97	(2.11)
In transit, truck	0.51	(0.28)	0.27	(0.20)	0.34	(0.25)	0.30	(0.19)	1.42	(0.23)
In transit, van	0.93	(0.51)	0.73	(0.53)	0.75	(0.55)	1.19	(0.76)	3.60	(0.58)
Indoors, public garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.74	(0.40)	0.70	(0.50)	0.77	(0.56)	0.60	(0.38)	2.81	(0.46)
Outdoors, along a roadway	12.57	(6.89)	13.03	(9.38)	16.65	(12.19)	11.32	(7.20)	53.57	(8.71)
In transit, motorcycle	0.27	(0.15)	0.08	(0.05)	0.04	(0.03)	0.14	(0.09)	0.53	(0.09)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.05	(0.03)	0.13	(0.09)	0.11	(0.08)	0.14	(0.09)	0.43	(0.07)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	110.31	(60.51)	80.28	(57.79)	76.70	(56.15)	94.73	(60.22)	362.03	(58.86)
Indoors, office	0.13	(0.07)	0.28	(0.20)	0.45	(0.33)	0.11	(0.07)	0.96	(0.16)
Indoors, store	2.13	(1.17)	1.62	(1.17)	1.63	(1.20)	1.78	(1.13)	7.17	(1.17)
Indoors, restaurant	1.50	(0.82)	1.70	(1.22)	2.04	(1.50)	1.41	(0.90)	6.65	(1.08)
Indoors, mfg. facility	0.01	(0.00)	0.02	(0.01)	0.01	(0.01)	0.03	(0.02)	0.06	(0.01)
Indoors, school	26.80	(14.70)	15.04	(10.82)	8.87	(6.50)	21.31	(13.55)	72.02	(11.71)
Indoors, church	0.78	(0.43)	0.52	(0.38)	0.45	(0.33)	0.64	(0.41)	2.39	(0.39)
Indoors, shopping mall	0.95	(0.52)	0.95	(0.69)	0.77	(0.57)	0.94	(0.60)	3.62	(0.59)
Indoors, auditorium	0.11	(0.06)	0.11	(0.08)	0.12	(0.09)	0.17	(0.11)	0.50	(0.08)
Indoors, health care facility	0.78	(0.43)	0.54	(0.39)	0.50	(0.36)	0.77	(0.49)	2.59	(0.42)
Indoors, public building	0.15	(0.08)	0.19	(0.14)	0.28	(0.21)	0.16	(0.10)	0.78	(0.13)
Indoors, other location	1.04	(0.57)	0.83	(0.60)	1.07	(0.78)	0.94	(0.60)	3.88	(0.63)
Indoors, not specified	0.00	(0.00)	0.04	(0.03)	0.07	(0.05)	0.00	(0.00)	0.11	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	3.19	(1.75)	4.44	(3.19)	6.30	(4.61)	3.11	(1.98)	17.04	(2.77)
Outdoors, school grounds	2.83	(1.55)	2.44	(1.75)	1.97	(1.44)	2.64	(1.68)	9.88	(1.61)
Outdoors, sports arena	0.16	(0.09)	0.29	(0.21)	0.41	(0.30)	0.21	(0.13)	1.07	(0.17)
Outdoors, park/golf course	0.17	(0.09)	0.79	(0.57)	1.36	(1.00)	0.22	(0.14)	2.54	(0.41)
Outdoors, other location	0.01	(0.01)	1.22	(0.88)	2.54	(1.86)	0.03	(0.02)	3.80	(0.62)
Outdoors, not specified	0.03	(0.02)	0.03	(0.02)	0.03	(0.02)	0.06	(0.04)	0.14	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	32.70	(16.84)	18.92	(13.05)	17.40	(12.36)	23.23	(14.04)	92.25	(14.29)
In transit, bus	1.33	(0.68)	0.28	(0.19)	0.00	(0.00)	0.59	(0.35)	2.19	(0.34)
In transit, truck	1.32	(0.68)	2.92	(2.01)	5.38	(3.82)	1.88	(1.14)	11.50	(1.78)
In transit, van	0.00	(0.00)	0.39	(0.27)	0.79	(0.56)	0.00	(0.00)	1.17	(0.18)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.88	(0.45)	1.04	(0.72)	1.13	(0.80)	1.15	(0.70)	4.20	(0.65)
Outdoors, along a roadway	15.76	(8.12)	14.34	(9.90)	11.54	(8.20)	17.59	(10.64)	59.24	(9.18)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.03	(0.02)	0.04	(0.03)	0.03	(0.02)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	109.33	(56.29)	76.41	(52.71)	69.20	(49.15)	93.42	(56.46)	348.36	(53.99)
Indoors, office	4.63	(2.39)	6.91	(4.77)	7.34	(5.21)	4.26	(2.58)	23.15	(3.59)
Indoors, store	0.77	(0.39)	0.80	(0.55)	0.79	(0.56)	0.79	(0.48)	3.15	(0.49)
Indoors, restaurant	3.34	(1.72)	2.02	(1.39)	1.54	(1.09)	2.31	(1.40)	9.20	(1.43)
Indoors, mfg. facility	0.00	(0.00)	1.68	(1.16)	5.01	(3.56)	0.00	(0.00)	6.69	(1.04)
Indoors, school	12.71	(6.54)	5.89	(4.06)	2.51	(1.78)	9.50	(5.74)	30.61	(4.74)
Indoors, church	0.05	(0.03)	0.40	(0.28)	0.58	(0.41)	0.15	(0.09)	1.18	(0.18)
Indoors, shopping mall	0.21	(0.11)	0.40	(0.28)	0.27	(0.19)	0.62	(0.37)	1.50	(0.23)
Indoors, auditorium	0.06	(0.03)	0.32	(0.22)	0.80	(0.56)	0.02	(0.01)	1.20	(0.19)
Indoors, health care facility	0.41	(0.21)	0.31	(0.22)	0.25	(0.18)	0.39	(0.24)	1.37	(0.21)
Indoors, public building	1.42	(0.73)	1.07	(0.74)	0.60	(0.43)	1.73	(1.05)	4.82	(0.75)
Indoors, other location	6.56	(3.38)	4.14	(2.85)	3.06	(2.17)	4.57	(2.76)	18.33	(2.84)
Indoors, not specified	0.01	(0.00)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.05	(0.01)
Outdoors, construction	0.00	(0.00)	0.97	(0.67)	1.40	(0.99)	0.00	(0.00)	2.37	(0.37)
Outdoors, residential grounds	0.64	(0.33)	1.69	(1.16)	2.19	(1.55)	0.85	(0.51)	5.36	(0.83)
Outdoors, school grounds	0.55	(0.28)	1.19	(0.82)	0.76	(0.54)	1.59	(0.96)	4.10	(0.63)
Outdoors, sports arena	0.41	(0.21)	0.39	(0.27)	0.70	(0.50)	0.17	(0.10)	1.67	(0.26)
Outdoors, park/golf course	0.20	(0.10)	0.46	(0.32)	0.59	(0.42)	0.13	(0.08)	1.37	(0.21)
Outdoors, other location	0.30	(0.16)	1.87	(1.29)	6.93	(4.92)	0.14	(0.08)	9.24	(1.43)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.61	(0.31)	0.11	(0.08)	0.00	(0.00)	0.29	(0.18)	1.01	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	27.07	(13.83)	20.41	(13.73)	19.05	(13.22)	23.77	(14.17)	90.31	(13.76)
In transit, bus	0.53	(0.27)	0.59	(0.40)	0.72	(0.50)	0.30	(0.18)	2.14	(0.33)
In transit, truck	4.96	(2.54)	4.00	(2.69)	3.91	(2.71)	3.62	(2.16)	16.48	(2.51)
In transit, van	1.31	(0.67)	1.05	(0.70)	1.15	(0.80)	1.19	(0.71)	4.69	(0.71)
Indoors, public garage	1.66	(0.85)	1.09	(0.73)	0.66	(0.46)	1.56	(0.93)	4.96	(0.76)
Outdoors, in a parking lot	1.39	(0.71)	1.50	(1.01)	1.51	(1.05)	1.27	(0.76)	5.67	(0.86)
Outdoors, along a roadway	7.90	(4.04)	8.69	(5.84)	9.85	(6.83)	8.73	(5.20)	35.16	(5.36)
In transit, motorcycle	0.00	(0.00)	0.11	(0.08)	0.19	(0.13)	0.00	(0.00)	0.30	(0.05)
Indoors, service station	2.83	(1.45)	1.36	(0.92)	0.73	(0.50)	2.07	(1.24)	6.99	(1.07)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.62	(0.32)	0.44	(0.30)	0.37	(0.26)	0.85	(0.51)	2.29	(0.35)
Indoors, in a repair shop	2.67	(1.37)	0.62	(0.42)	0.02	(0.01)	1.18	(0.70)	4.49	(0.68)
Indoors, home	95.20	(48.63)	68.87	(46.32)	64.98	(45.10)	82.57	(49.24)	311.62	(47.48)
Indoors, office	19.22	(9.82)	11.91	(8.01)	10.56	(7.33)	14.94	(8.91)	56.62	(8.63)
Indoors, store	3.74	(1.91)	3.13	(2.11)	3.60	(2.50)	2.67	(1.59)	13.14	(2.00)
Indoors, restaurant	5.76	(2.94)	3.92	(2.64)	3.26	(2.26)	4.17	(2.48)	17.11	(2.61)
Indoors, mfg. facility	3.25	(1.66)	3.87	(2.60)	4.37	(3.03)	3.06	(1.82)	14.54	(2.22)
Indoors, school	1.94	(0.99)	1.13	(0.76)	0.77	(0.54)	1.60	(0.95)	5.44	(0.83)
Indoors, church	0.57	(0.29)	0.46	(0.31)	0.41	(0.29)	0.65	(0.39)	2.09	(0.32)
Indoors, shopping mall	0.63	(0.32)	0.41	(0.28)	0.23	(0.16)	0.56	(0.33)	1.82	(0.28)
Indoors, auditorium	0.25	(0.13)	0.08	(0.05)	0.05	(0.03)	0.12	(0.07)	0.49	(0.08)
Indoors, health care facility	0.99	(0.50)	0.92	(0.62)	0.92	(0.64)	0.96	(0.57)	3.78	(0.58)
Indoors, public building	0.52	(0.26)	0.60	(0.40)	1.04	(0.72)	0.34	(0.20)	2.49	(0.38)
Indoors, other location	7.65	(3.91)	6.37	(4.29)	6.27	(4.36)	5.92	(3.53)	26.21	(3.99)
Indoors, not specified	0.96	(0.49)	0.33	(0.22)	0.07	(0.05)	0.55	(0.33)	1.91	(0.29)
Outdoors, construction	0.95	(0.48)	1.53	(1.03)	1.35	(0.93)	1.29	(0.77)	5.12	(0.78)
Outdoors, residential grounds	0.67	(0.34)	1.55	(1.04)	3.06	(2.12)	0.88	(0.52)	6.15	(0.94)
Outdoors, school grounds	0.11	(0.05)	0.13	(0.09)	0.11	(0.08)	0.15	(0.09)	0.49	(0.08)
Outdoors, sports arena	0.07	(0.04)	0.24	(0.16)	0.39	(0.27)	0.05	(0.03)	0.76	(0.12)
Outdoors, park/golf course	0.14	(0.07)	0.41	(0.28)	0.67	(0.47)	0.28	(0.17)	1.50	(0.23)
Outdoors, other location	1.77	(0.91)	2.68	(1.80)	3.51	(2.44)	2.24	(1.34)	10.21	(1.56)
Outdoors, not specified	0.01	(0.01)	0.10	(0.07)	0.13	(0.09)	0.03	(0.02)	0.27	(0.04)
In transit, train	0.39	(0.20)	0.19	(0.13)	0.18	(0.12)	0.19	(0.11)	0.95	(0.14)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.46	(10.91)	14.96	(11.05)	14.48	(10.97)	17.16	(11.24)	66.07	(11.04)
In transit, bus	1.52	(0.85)	0.55	(0.41)	0.37	(0.28)	0.85	(0.56)	3.30	(0.55)
In transit, truck	2.32	(1.30)	0.58	(0.42)	0.00	(0.00)	1.02	(0.67)	3.92	(0.65)
In transit, van	0.02	(0.01)	0.06	(0.05)	0.12	(0.09)	0.06	(0.04)	0.26	(0.04)
Indoors, public garage	0.05	(0.03)	0.04	(0.03)	0.02	(0.01)	0.06	(0.04)	0.16	(0.03)
Outdoors, in a parking lot	0.54	(0.30)	0.79	(0.59)	1.01	(0.77)	0.57	(0.37)	2.91	(0.49)
Outdoors, along a roadway	5.65	(3.16)	6.85	(5.06)	8.49	(6.43)	5.68	(3.72)	26.67	(4.46)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.03	(0.02)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.20	(0.11)	0.06	(0.04)	0.01	(0.01)	0.10	(0.06)	0.37	(0.06)
Indoors, in a repair shop	0.02	(0.01)	0.05	(0.03)	0.03	(0.02)	0.05	(0.04)	0.15	(0.02)
Indoors, home	129.84	(72.76)	92.53	(68.37)	86.68	(65.65)	108.72	(71.19)	417.78	(69.81)
Indoors, office	1.13	(0.63)	0.56	(0.41)	0.46	(0.35)	0.58	(0.38)	2.73	(0.46)
Indoors, store	3.14	(1.76)	3.38	(2.50)	4.44	(3.36)	2.58	(1.69)	13.54	(2.26)
Indoors, restaurant	3.29	(1.84)	2.72	(2.01)	2.42	(1.83)	2.87	(1.88)	11.30	(1.89)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	2.16	(1.21)	2.49	(1.84)	2.06	(1.56)	3.51	(2.30)	10.21	(1.71)
Indoors, church	0.53	(0.30)	0.42	(0.31)	0.39	(0.30)	0.64	(0.42)	1.98	(0.33)
Indoors, shopping mall	1.71	(0.96)	1.04	(0.77)	0.93	(0.71)	0.72	(0.47)	4.40	(0.74)
Indoors, auditorium	0.28	(0.16)	0.21	(0.16)	0.22	(0.17)	0.30	(0.20)	1.02	(0.17)
Indoors, health care facility	0.36	(0.20)	0.43	(0.32)	0.44	(0.34)	0.43	(0.28)	1.66	(0.28)
Indoors, public building	0.56	(0.31)	0.25	(0.19)	0.17	(0.13)	0.39	(0.25)	1.37	(0.23)
Indoors, other location	4.49	(2.51)	3.56	(2.63)	3.36	(2.55)	4.44	(2.91)	15.85	(2.65)
Indoors, not specified	0.00	(0.00)	0.02	(0.01)	0.07	(0.05)	0.00	(0.00)	0.09	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.53	(0.30)	1.97	(1.45)	2.66	(2.01)	1.24	(0.81)	6.39	(1.07)
Outdoors, school grounds	0.11	(0.06)	0.35	(0.26)	0.39	(0.30)	0.33	(0.22)	1.18	(0.20)
Outdoors, sports arena	0.27	(0.15)	0.17	(0.13)	0.21	(0.16)	0.11	(0.07)	0.75	(0.13)
Outdoors, park/golf course	0.05	(0.03)	0.52	(0.38)	1.01	(0.77)	0.13	(0.08)	1.71	(0.29)
Outdoors, other location	0.13	(0.08)	0.75	(0.56)	1.54	(1.17)	0.15	(0.10)	2.58	(0.43)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.09	(0.05)	0.02	(0.01)	0.00	(0.00)	0.04	(0.03)	0.16	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	27.23	(14.55)	18.35	(13.10)	17.09	(12.48)	21.61	(13.64)	84.28	(13.54)
In transit, bus	1.70	(0.91)	1.20	(0.86)	1.01	(0.74)	1.47	(0.93)	5.38	(0.86)
In transit, truck	1.16	(0.62)	0.90	(0.64)	0.82	(0.60)	1.10	(0.70)	3.97	(0.64)
In transit, van	0.02	(0.01)	0.29	(0.21)	0.43	(0.31)	0.01	(0.00)	0.75	(0.12)
Indoors, public garage	0.48	(0.26)	0.21	(0.15)	0.12	(0.08)	0.30	(0.19)	1.11	(0.18)
Outdoors, in a parking lot	0.67	(0.36)	0.86	(0.61)	1.07	(0.78)	0.71	(0.45)	3.32	(0.53)
Outdoors, along a roadway	5.92	(3.16)	6.11	(4.36)	7.46	(5.45)	5.45	(3.44)	24.95	(4.01)
In transit, motorcycle	0.00	(0.00)	0.70	(0.50)	1.53	(1.12)	0.00	(0.00)	2.23	(0.36)
Indoors, service station	0.02	(0.01)	0.02	(0.02)	0.02	(0.01)	0.02	(0.02)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
Indoors, in a repair shop	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, home	99.02	(52.91)	73.12	(52.20)	71.42	(52.15)	85.69	(54.09)	329.25	(52.88)
Indoors, office	19.81	(10.58)	14.72	(10.51)	12.70	(9.27)	16.22	(10.24)	63.44	(10.19)
Indoors, store	5.44	(2.90)	4.60	(3.28)	4.18	(3.05)	5.10	(3.22)	19.31	(3.10)
Indoors, restaurant	6.92	(3.70)	4.73	(3.37)	4.43	(3.24)	4.96	(3.13)	21.04	(3.38)
Indoors, mfg. facility	1.37	(0.73)	1.14	(0.81)	0.88	(0.64)	1.31	(0.83)	4.70	(0.75)
Indoors, school	4.93	(2.63)	2.93	(2.09)	1.66	(1.21)	4.08	(2.58)	13.60	(2.18)
Indoors, church	0.79	(0.42)	0.58	(0.41)	0.51	(0.38)	0.81	(0.51)	2.69	(0.43)
Indoors, shopping mall	1.68	(0.90)	0.91	(0.65)	0.52	(0.38)	1.41	(0.89)	4.52	(0.73)
Indoors, auditorium	0.12	(0.06)	0.10	(0.07)	0.12	(0.09)	0.12	(0.08)	0.46	(0.07)
Indoors, health care facility	2.25	(1.20)	1.44	(1.02)	1.21	(0.88)	1.89	(1.19)	6.78	(1.09)
Indoors, public building	0.45	(0.24)	0.33	(0.24)	0.39	(0.28)	0.37	(0.23)	1.53	(0.25)
Indoors, other location	6.55	(3.50)	4.27	(3.05)	4.01	(2.93)	4.81	(3.04)	19.65	(3.16)
Indoors, not specified	0.07	(0.04)	0.05	(0.03)	0.02	(0.02)	0.07	(0.04)	0.21	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.28	(0.15)	1.17	(0.84)	2.40	(1.75)	0.45	(0.28)	4.29	(0.69)
Outdoors, school grounds	0.07	(0.04)	0.28	(0.20)	0.34	(0.25)	0.13	(0.08)	0.82	(0.13)
Outdoors, sports arena	0.01	(0.00)	0.27	(0.19)	0.44	(0.32)	0.02	(0.01)	0.73	(0.12)
Outdoors, park/golf course	0.04	(0.02)	0.19	(0.13)	0.48	(0.35)	0.08	(0.05)	0.78	(0.13)
Outdoors, other location	0.10	(0.05)	0.55	(0.40)	1.61	(1.18)	0.07	(0.05)	2.34	(0.38)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
In transit, train	0.07	(0.04)	0.07	(0.05)	0.05	(0.03)	0.11	(0.07)	0.30	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.28	(9.87)	16.01	(11.50)	15.55	(11.19)	15.37	(10.22)	64.21	(10.64)
In transit, bus	1.29	(0.74)	4.40	(3.16)	5.90	(4.24)	0.52	(0.35)	12.11	(2.01)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.15	(0.09)	0.20	(0.14)	0.21	(0.15)	0.38	(0.25)	0.94	(0.16)
Indoors, public garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, in a parking lot	1.06	(0.61)	3.17	(2.28)	4.05	(2.92)	1.18	(0.78)	9.46	(1.57)
Outdoors, along a roadway	4.71	(2.69)	5.74	(4.13)	6.16	(4.43)	5.56	(3.69)	22.17	(3.67)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.79	(0.45)	0.93	(0.67)	0.72	(0.52)	1.54	(1.02)	3.98	(0.66)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	132.14	(75.45)	87.63	(62.98)	76.80	(55.27)	109.75	(72.95)	406.33	(67.31)
Indoors, office	0.78	(0.45)	0.28	(0.20)	0.16	(0.12)	0.42	(0.28)	1.64	(0.27)
Indoors, store	2.36	(1.35)	2.16	(1.55)	2.83	(2.04)	1.93	(1.28)	9.29	(1.54)
Indoors, restaurant	2.54	(1.45)	0.75	(0.54)	0.51	(0.36)	1.25	(0.83)	5.04	(0.84)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.83	(0.48)	1.51	(1.09)	1.18	(0.85)	2.39	(1.59)	5.92	(0.98)
Indoors, church	0.51	(0.29)	0.45	(0.32)	0.29	(0.21)	0.71	(0.47)	1.96	(0.32)
Indoors, shopping mall	3.55	(2.03)	1.01	(0.73)	0.00	(0.00)	1.45	(0.96)	6.01	(1.00)
Indoors, auditorium	0.13	(0.08)	0.17	(0.13)	0.22	(0.16)	0.06	(0.04)	0.59	(0.10)
Indoors, health care facility	1.51	(0.86)	1.70	(1.22)	1.00	(0.72)	2.42	(1.61)	6.63	(1.10)
Indoors, public building	0.16	(0.09)	0.10	(0.08)	0.38	(0.27)	0.07	(0.05)	0.71	(0.12)
Indoors, other location	3.50	(2.00)	6.09	(4.37)	7.18	(5.17)	3.40	(2.26)	20.17	(3.34)
Indoors, not specified	0.46	(0.26)	0.09	(0.06)	0.00	(0.00)	0.22	(0.14)	0.77	(0.13)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.08	(0.62)	4.00	(2.88)	11.24	(8.09)	1.71	(1.14)	18.03	(2.99)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.36	(0.26)	0.56	(0.40)	0.00	(0.00)	0.92	(0.15)
Outdoors, park/golf course	0.29	(0.17)	0.19	(0.14)	0.63	(0.45)	0.12	(0.08)	1.24	(0.21)
Outdoors, other location	0.00	(0.00)	2.20	(1.58)	3.40	(2.45)	0.00	(0.00)	5.60	(0.93)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	30.81	(15.67)	22.31	(15.15)	21.06	(14.88)	26.65	(15.81)	100.82	(15.42)
In transit, bus	4.48	(2.28)	1.67	(1.14)	0.79	(0.56)	2.78	(1.65)	9.72	(1.49)
In transit, truck	4.35	(2.21)	4.21	(2.86)	3.13	(2.21)	4.99	(2.96)	16.68	(2.55)
In transit, van	0.46	(0.23)	1.63	(1.10)	2.01	(1.42)	0.60	(0.35)	4.69	(0.72)
Indoors, public garage	0.29	(0.15)	0.36	(0.25)	0.23	(0.16)	0.50	(0.30)	1.39	(0.21)
Outdoors, in a parking lot	1.08	(0.55)	0.96	(0.65)	0.90	(0.63)	1.01	(0.60)	3.94	(0.60)
Outdoors, along a roadway	7.75	(3.94)	7.76	(5.27)	9.12	(6.45)	6.87	(4.08)	31.50	(4.82)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.40	(0.71)	0.44	(0.30)	0.18	(0.12)	0.85	(0.50)	2.87	(0.44)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.01)	0.04	(0.03)	0.06	(0.04)	0.01	(0.01)	0.14	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	88.78	(45.17)	64.48	(43.79)	60.23	(42.56)	78.32	(46.48)	291.80	(44.63)
Indoors, office	24.65	(12.54)	15.54	(10.56)	16.00	(11.31)	17.80	(10.56)	73.99	(11.32)
Indoors, store	5.92	(3.01)	3.42	(2.32)	2.33	(1.65)	4.74	(2.81)	16.42	(2.51)
Indoors, restaurant	4.93	(2.51)	3.81	(2.59)	3.78	(2.67)	4.42	(2.62)	16.94	(2.59)
Indoors, mfg. facility	2.24	(1.14)	4.43	(3.01)	6.18	(4.37)	3.55	(2.10)	16.40	(2.51)
Indoors, school	0.61	(0.31)	1.97	(1.34)	2.06	(1.46)	1.34	(0.79)	5.98	(0.91)
Indoors, church	0.96	(0.49)	0.73	(0.49)	0.72	(0.51)	0.89	(0.53)	3.31	(0.51)
Indoors, shopping mall	1.62	(0.83)	0.70	(0.48)	0.36	(0.25)	0.74	(0.44)	3.42	(0.52)
Indoors, auditorium	0.13	(0.06)	0.06	(0.04)	0.05	(0.03)	0.06	(0.03)	0.29	(0.04)
Indoors, health care facility	1.39	(0.71)	0.37	(0.25)	0.11	(0.08)	0.69	(0.41)	2.57	(0.39)
Indoors, public building	0.32	(0.16)	1.08	(0.73)	1.42	(1.00)	0.48	(0.29)	3.30	(0.51)
Indoors, other location	10.87	(5.53)	6.31	(4.29)	3.93	(2.78)	8.71	(5.17)	29.83	(4.56)
Indoors, not specified	1.30	(0.66)	0.35	(0.24)	0.07	(0.05)	0.63	(0.37)	2.35	(0.36)
Outdoors, construction	0.00	(0.00)	0.32	(0.22)	0.67	(0.47)	0.00	(0.00)	0.99	(0.15)
Outdoors, residential grounds	0.25	(0.13)	2.45	(1.67)	4.22	(2.99)	0.34	(0.20)	7.27	(1.11)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.28	(0.14)	0.56	(0.38)	0.78	(0.55)	0.41	(0.24)	2.03	(0.31)
Outdoors, other location	1.48	(0.75)	1.21	(0.82)	1.13	(0.80)	1.04	(0.62)	4.86	(0.74)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.16	(0.08)	0.03	(0.02)	0.00	(0.00)	0.07	(0.04)	0.26	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.64	(10.07)	12.35	(9.47)	12.07	(9.46)	13.22	(8.92)	55.27	(9.51)
In transit, bus	0.69	(0.39)	0.41	(0.32)	0.30	(0.24)	0.46	(0.31)	1.86	(0.32)
In transit, truck	1.43	(0.82)	0.38	(0.29)	0.00	(0.00)	0.62	(0.42)	2.43	(0.42)
In transit, van	0.25	(0.14)	0.33	(0.25)	0.31	(0.24)	0.63	(0.43)	1.52	(0.26)
Indoors, public garage	0.11	(0.06)	0.03	(0.02)	0.00	(0.00)	0.06	(0.04)	0.20	(0.03)
Outdoors, in a parking lot	0.45	(0.25)	0.74	(0.56)	1.01	(0.79)	0.45	(0.30)	2.64	(0.45)
Outdoors, along a roadway	6.93	(3.96)	5.20	(3.99)	5.82	(4.56)	4.91	(3.32)	22.87	(3.93)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.03	(0.02)	0.02	(0.01)	0.02	(0.01)	0.01	(0.01)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	132.84	(75.87)	96.18	(73.74)	89.66	(70.30)	114.64	(77.36)	433.32	(74.55)
Indoors, office	0.63	(0.36)	0.44	(0.34)	0.34	(0.27)	0.54	(0.37)	1.96	(0.34)
Indoors, store	2.89	(1.65)	2.31	(1.77)	2.20	(1.72)	2.34	(1.58)	9.73	(1.67)
Indoors, restaurant	2.31	(1.32)	2.20	(1.68)	2.74	(2.15)	2.28	(1.54)	9.52	(1.64)
Indoors, mfg. facility	0.00	(0.00)	0.03	(0.02)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Indoors, school	0.44	(0.25)	0.36	(0.27)	0.34	(0.27)	0.48	(0.32)	1.62	(0.28)
Indoors, church	0.84	(0.48)	0.79	(0.61)	0.71	(0.56)	1.05	(0.71)	3.39	(0.58)
Indoors, shopping mall	1.86	(1.06)	1.10	(0.84)	1.11	(0.87)	1.30	(0.88)	5.36	(0.92)
Indoors, auditorium	0.07	(0.04)	0.03	(0.02)	0.02	(0.02)	0.03	(0.02)	0.15	(0.03)
Indoors, health care facility	0.65	(0.37)	0.90	(0.69)	1.16	(0.91)	0.48	(0.33)	3.20	(0.55)
Indoors, public building	0.12	(0.07)	0.24	(0.18)	0.25	(0.19)	0.29	(0.20)	0.90	(0.15)
Indoors, other location	3.09	(1.76)	3.08	(2.36)	3.45	(2.70)	2.57	(1.74)	12.19	(2.10)
Indoors, not specified	0.47	(0.27)	0.09	(0.07)	0.00	(0.00)	0.22	(0.15)	0.79	(0.14)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.09	(0.62)	2.28	(1.75)	4.05	(3.18)	1.41	(0.95)	8.83	(1.52)
Outdoors, school grounds	0.07	(0.04)	0.02	(0.01)	0.00	(0.00)	0.03	(0.02)	0.12	(0.02)
Outdoors, sports arena	0.00	(0.00)	0.20	(0.16)	0.31	(0.24)	0.00	(0.00)	0.52	(0.09)
Outdoors, park/golf course	0.00	(0.00)	0.50	(0.38)	1.00	(0.78)	0.00	(0.00)	1.50	(0.26)
Outdoors, other location	0.02	(0.01)	0.22	(0.17)	0.62	(0.49)	0.05	(0.03)	0.91	(0.16)
Outdoors, not specified	0.18	(0.10)	0.04	(0.03)	0.00	(0.00)	0.08	(0.06)	0.29	(0.05)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	23.40	(12.77)	17.14	(12.41)	16.62	(12.34)	18.22	(11.64)	75.38	(12.31)
In transit, bus	2.49	(1.36)	1.19	(0.86)	0.91	(0.67)	1.71	(1.09)	6.29	(1.03)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.70	(0.38)	0.23	(0.17)	0.07	(0.05)	0.43	(0.28)	1.43	(0.23)
Indoors, public garage	0.08	(0.04)	0.04	(0.03)	0.02	(0.01)	0.06	(0.04)	0.20	(0.03)
Outdoors, in a parking lot	0.92	(0.50)	0.95	(0.69)	1.41	(1.05)	0.75	(0.48)	4.04	(0.66)
Outdoors, along a roadway	6.70	(3.66)	5.20	(3.76)	5.89	(4.37)	5.42	(3.46)	23.20	(3.79)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.00)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	103.13	(56.28)	73.80	(53.41)	71.26	(52.93)	88.77	(56.75)	336.95	(55.02)
Indoors, office	19.41	(10.59)	12.77	(9.24)	9.61	(7.14)	15.91	(10.17)	57.70	(9.42)
Indoors, store	3.75	(2.05)	3.94	(2.85)	4.28	(3.18)	3.72	(2.38)	15.69	(2.56)
Indoors, restaurant	5.28	(2.88)	4.81	(3.48)	4.50	(3.34)	5.88	(3.76)	20.47	(3.34)
Indoors, mfg. facility	0.00	(0.00)	3.55	(2.57)	6.26	(4.65)	0.00	(0.00)	9.81	(1.60)
Indoors, school	4.24	(2.32)	2.17	(1.57)	1.39	(1.03)	3.31	(2.12)	11.12	(1.81)
Indoors, church	1.05	(0.57)	0.76	(0.55)	0.86	(0.64)	0.79	(0.50)	3.45	(0.56)
Indoors, shopping mall	1.13	(0.62)	1.51	(1.09)	1.19	(0.88)	1.85	(1.18)	5.67	(0.93)
Indoors, auditorium	0.03	(0.01)	0.04	(0.03)	0.03	(0.02)	0.07	(0.04)	0.16	(0.03)
Indoors, health care facility	2.28	(1.24)	2.03	(1.47)	1.62	(1.20)	2.42	(1.55)	8.35	(1.36)
Indoors, public building	0.29	(0.16)	0.12	(0.09)	0.13	(0.10)	0.14	(0.09)	0.69	(0.11)
Indoors, other location	7.83	(4.27)	6.21	(4.49)	5.71	(4.24)	6.08	(3.88)	25.82	(4.22)
Indoors, not specified	0.01	(0.00)	0.06	(0.04)	0.26	(0.19)	0.02	(0.01)	0.34	(0.05)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.33	(0.18)	1.29	(0.93)	2.04	(1.51)	0.59	(0.38)	4.25	(0.69)
Outdoors, school grounds	0.05	(0.03)	0.16	(0.12)	0.15	(0.11)	0.15	(0.09)	0.50	(0.08)
Outdoors, sports arena	0.08	(0.04)	0.07	(0.05)	0.18	(0.13)	0.03	(0.02)	0.36	(0.06)
Outdoors, park/golf course	0.04	(0.02)	0.01	(0.01)	0.00	(0.00)	0.02	(0.01)	0.07	(0.01)
Outdoors, other location	0.03	(0.02)	0.12	(0.09)	0.26	(0.20)	0.09	(0.06)	0.51	(0.08)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	26.66	(14.92)	20.77	(15.03)	19.21	(13.99)	25.43	(16.32)	92.08	(15.10)
In transit, bus	0.52	(0.29)	1.09	(0.79)	0.70	(0.51)	1.47	(0.94)	3.78	(0.62)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.00	(0.00)	0.03	(0.00)
Indoors, public garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)
Outdoors, in a parking lot	0.67	(0.37)	1.64	(1.18)	2.47	(1.80)	0.86	(0.55)	5.64	(0.92)
Outdoors, along a roadway	4.88	(2.73)	7.51	(5.44)	12.28	(8.94)	5.90	(3.79)	30.58	(5.01)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.09	(0.07)	0.16	(0.12)	0.00	(0.00)	0.25	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.02	(0.02)	0.02	(0.02)	0.02	(0.01)	0.07	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, home	121.33	(67.91)	86.27	(62.44)	80.88	(58.91)	99.77	(64.04)	388.26	(63.65)
Indoors, office	6.13	(3.43)	3.31	(2.39)	2.16	(1.57)	5.48	(3.51)	17.08	(2.80)
Indoors, store	1.66	(0.93)	1.24	(0.90)	1.59	(1.16)	1.18	(0.76)	5.68	(0.93)
Indoors, restaurant	3.54	(1.98)	3.00	(2.17)	3.46	(2.52)	3.77	(2.42)	13.77	(2.26)
Indoors, mfg. facility	1.62	(0.91)	0.91	(0.66)	0.42	(0.30)	1.42	(0.91)	4.37	(0.72)
Indoors, school	1.06	(0.59)	0.44	(0.32)	0.33	(0.24)	0.48	(0.31)	2.32	(0.38)
Indoors, church	0.92	(0.51)	0.72	(0.52)	0.60	(0.44)	1.15	(0.74)	3.39	(0.56)
Indoors, shopping mall	2.84	(1.59)	1.56	(1.13)	2.27	(1.65)	1.29	(0.83)	7.96	(1.30)
Indoors, auditorium	0.44	(0.25)	0.39	(0.28)	0.33	(0.24)	0.74	(0.47)	1.89	(0.31)
Indoors, health care facility	0.22	(0.12)	0.50	(0.36)	0.85	(0.62)	0.30	(0.19)	1.86	(0.31)
Indoors, public building	0.16	(0.09)	0.39	(0.28)	0.53	(0.38)	0.11	(0.07)	1.20	(0.20)
Indoors, other location	1.73	(0.97)	1.77	(1.28)	1.13	(0.83)	2.56	(1.64)	7.18	(1.18)
Indoors, not specified	0.00	(0.00)	0.32	(0.24)	0.47	(0.34)	0.00	(0.00)	0.79	(0.13)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.49	(1.39)	4.91	(3.55)	6.44	(4.69)	2.04	(1.31)	15.88	(2.60)
Outdoors, school grounds	0.16	(0.09)	0.32	(0.23)	0.22	(0.16)	0.49	(0.32)	1.19	(0.19)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.96	(0.54)	0.62	(0.45)	0.30	(0.21)	0.93	(0.60)	2.81	(0.46)
Outdoors, other location	0.00	(0.00)	0.16	(0.11)	0.43	(0.32)	0.00	(0.00)	0.59	(0.10)
Outdoors, not specified	0.04	(0.02)	0.09	(0.07)	0.06	(0.04)	0.12	(0.07)	0.31	(0.05)
In transit, train	0.60	(0.34)	0.12	(0.09)	0.00	(0.00)	0.28	(0.18)	1.00	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.54	(9.03)	12.00	(9.24)	13.12	(10.30)	12.18	(8.31)	52.85	(9.17)
In transit, bus	0.14	(0.08)	0.36	(0.27)	0.47	(0.37)	0.38	(0.26)	1.34	(0.23)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.27	(0.16)	0.05	(0.04)	0.00	(0.00)	0.12	(0.08)	0.45	(0.08)
Indoors, public garage	0.05	(0.03)	0.04	(0.03)	0.09	(0.07)	0.04	(0.02)	0.22	(0.04)
Outdoors, in a parking lot	0.22	(0.13)	0.45	(0.35)	0.66	(0.52)	0.20	(0.14)	1.53	(0.27)
Outdoors, along a roadway	5.90	(3.43)	4.95	(3.81)	6.11	(4.80)	4.14	(2.82)	21.09	(3.66)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.03	(0.02)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	131.83	(76.62)	98.33	(75.69)	93.15	(73.12)	115.44	(78.72)	438.74	(76.18)
Indoors, office	1.74	(1.01)	0.52	(0.40)	0.23	(0.18)	0.81	(0.56)	3.31	(0.57)
Indoors, store	1.56	(0.91)	2.02	(1.56)	3.78	(2.97)	1.01	(0.69)	8.37	(1.45)
Indoors, restaurant	2.27	(1.32)	2.29	(1.76)	2.38	(1.87)	2.20	(1.50)	9.14	(1.59)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.06	(0.05)	0.09	(0.07)	0.00	(0.00)	0.15	(0.03)
Indoors, church	1.86	(1.08)	1.26	(0.97)	0.79	(0.62)	1.64	(1.12)	5.56	(0.96)
Indoors, shopping mall	0.94	(0.55)	2.02	(1.55)	1.34	(1.05)	2.61	(1.78)	6.90	(1.20)
Indoors, auditorium	0.03	(0.02)	0.06	(0.05)	0.04	(0.03)	0.07	(0.05)	0.20	(0.03)
Indoors, health care facility	1.43	(0.83)	0.60	(0.46)	0.27	(0.21)	0.86	(0.59)	3.15	(0.55)
Indoors, public building	0.23	(0.13)	0.36	(0.28)	0.35	(0.27)	0.30	(0.21)	1.24	(0.22)
Indoors, other location	7.68	(4.46)	2.64	(2.04)	1.37	(1.07)	4.23	(2.89)	15.92	(2.76)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.30	(0.17)	1.33	(1.03)	2.28	(1.79)	0.20	(0.13)	4.11	(0.71)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.08	(0.05)	0.17	(0.13)	0.21	(0.16)	0.20	(0.14)	0.66	(0.11)
Outdoors, park/golf course	0.00	(0.00)	0.15	(0.11)	0.23	(0.18)	0.00	(0.00)	0.38	(0.07)
Outdoors, other location	0.00	(0.00)	0.22	(0.17)	0.38	(0.30)	0.00	(0.00)	0.61	(0.11)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.61	(7.37)	9.84	(5.79)	9.45	(5.67)	13.03	(6.85)	48.93	(6.51)
In transit, bus	0.00	(0.00)	0.46	(0.27)	0.67	(0.40)	0.00	(0.00)	1.14	(0.15)
In transit, truck	18.79	(8.34)	16.52	(9.72)	18.42	(11.06)	13.55	(7.13)	67.27	(8.95)
In transit, van	1.72	(0.76)	0.36	(0.21)	0.00	(0.00)	0.79	(0.42)	2.87	(0.38)
Indoors, public garage	4.30	(1.91)	2.41	(1.42)	1.15	(0.69)	4.18	(2.20)	12.05	(1.60)
Outdoors, in a parking lot	1.18	(0.53)	2.05	(1.21)	1.93	(1.16)	2.14	(1.13)	7.31	(0.97)
Outdoors, along a roadway	26.39	(11.71)	25.70	(15.13)	30.18	(18.12)	25.64	(13.49)	107.92	(14.35)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	11.08	(4.92)	2.67	(1.57)	0.62	(0.37)	5.04	(2.65)	19.41	(2.58)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.75	(0.78)	0.54	(0.32)	0.03	(0.02)	0.83	(0.44)	3.15	(0.42)
Indoors, in a repair shop	0.00	(0.00)	0.20	(0.12)	0.30	(0.18)	0.00	(0.00)	0.51	(0.07)
Indoors, home	82.22	(36.49)	58.15	(34.22)	52.86	(31.73)	73.35	(38.60)	266.58	(35.46)
Indoors, office	5.57	(2.47)	4.40	(2.59)	4.45	(2.67)	2.92	(1.53)	17.34	(2.31)
Indoors, store	1.49	(0.66)	0.69	(0.41)	0.29	(0.18)	0.92	(0.48)	3.39	(0.45)
Indoors, restaurant	6.47	(2.87)	2.24	(1.32)	1.45	(0.87)	4.50	(2.37)	14.66	(1.95)
Indoors, mfg. facility	0.90	(0.40)	2.92	(1.72)	6.23	(3.74)	2.55	(1.34)	12.60	(1.68)
Indoors, school	0.36	(0.16)	0.78	(0.46)	0.51	(0.30)	1.02	(0.53)	2.67	(0.36)
Indoors, church	1.83	(0.81)	0.78	(0.46)	0.25	(0.15)	1.19	(0.63)	4.05	(0.54)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.21	(0.09)	0.51	(0.30)	0.88	(0.53)	0.09	(0.05)	1.68	(0.22)
Indoors, health care facility	0.00	(0.00)	0.21	(0.12)	0.42	(0.25)	0.00	(0.00)	0.63	(0.08)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	8.48	(3.77)	2.64	(1.55)	0.83	(0.50)	4.44	(2.33)	16.39	(2.18)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	11.24	(4.99)	17.53	(10.32)	18.80	(11.28)	10.75	(5.66)	58.32	(7.76)
Outdoors, residential grounds	1.03	(0.46)	1.97	(1.16)	1.76	(1.06)	1.94	(1.02)	6.70	(0.89)
Outdoors, school grounds	0.05	(0.02)	0.10	(0.06)	0.06	(0.04)	0.14	(0.07)	0.35	(0.05)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.22	(0.10)	0.48	(0.28)	0.39	(0.23)	0.61	(0.32)	1.71	(0.23)
Outdoors, other location	23.39	(10.38)	15.75	(9.27)	14.67	(8.80)	20.48	(10.77)	74.28	(9.88)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.56	(4.93)	9.50	(6.53)	11.21	(7.91)	9.94	(5.96)	40.20	(6.20)
In transit, bus	7.12	(3.67)	3.92	(2.69)	2.11	(1.49)	5.97	(3.58)	19.13	(2.95)
In transit, truck	0.05	(0.03)	0.21	(0.14)	0.32	(0.23)	0.13	(0.08)	0.71	(0.11)
In transit, van	0.74	(0.38)	0.35	(0.24)	0.33	(0.23)	0.46	(0.27)	1.88	(0.29)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.13	(0.58)	0.88	(0.60)	0.80	(0.57)	0.89	(0.53)	3.69	(0.57)
Outdoors, along a roadway	24.27	(12.51)	19.29	(13.25)	22.27	(15.71)	19.59	(11.74)	85.41	(13.18)
In transit, motorcycle	0.81	(0.42)	0.20	(0.14)	0.05	(0.03)	0.44	(0.26)	1.49	(0.23)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.08	(0.05)	0.09	(0.06)	0.05	(0.03)	0.24	(0.04)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	94.39	(48.65)	71.38	(49.05)	70.19	(49.53)	81.87	(49.09)	317.83	(49.04)
Indoors, office	0.39	(0.20)	0.22	(0.15)	0.39	(0.28)	0.20	(0.12)	1.20	(0.19)
Indoors, store	2.55	(1.32)	1.62	(1.11)	1.66	(1.17)	1.91	(1.14)	7.74	(1.19)
Indoors, restaurant	0.77	(0.40)	1.31	(0.90)	1.67	(1.18)	1.36	(0.81)	5.11	(0.79)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	36.08	(18.60)	18.98	(13.04)	9.91	(6.99)	28.46	(17.06)	93.42	(14.42)
Indoors, church	1.02	(0.53)	0.63	(0.43)	0.54	(0.38)	0.79	(0.47)	2.98	(0.46)
Indoors, shopping mall	1.57	(0.81)	1.22	(0.84)	0.76	(0.54)	1.27	(0.76)	4.82	(0.74)
Indoors, auditorium	0.05	(0.03)	0.09	(0.06)	0.12	(0.08)	0.15	(0.09)	0.41	(0.06)
Indoors, health care facility	0.50	(0.26)	0.47	(0.32)	0.37	(0.26)	0.76	(0.45)	2.11	(0.32)
Indoors, public building	0.51	(0.26)	0.43	(0.30)	0.39	(0.27)	0.48	(0.29)	1.81	(0.28)
Indoors, other location	1.46	(0.75)	1.08	(0.74)	1.07	(0.75)	1.35	(0.81)	4.96	(0.77)
Indoors, not specified	0.00	(0.00)	0.05	(0.03)	0.07	(0.05)	0.00	(0.00)	0.12	(0.02)
Outdoors, construction	0.00	(0.00)	0.17	(0.12)	0.25	(0.18)	0.00	(0.00)	0.42	(0.06)
Outdoors, residential grounds	4.49	(2.31)	5.42	(3.72)	7.60	(5.36)	4.00	(2.40)	21.50	(3.32)
Outdoors, school grounds	5.70	(2.94)	4.41	(3.03)	3.00	(2.12)	5.76	(3.45)	18.87	(2.91)
Outdoors, sports arena	0.55	(0.28)	0.65	(0.45)	0.78	(0.55)	0.62	(0.37)	2.59	(0.40)
Outdoors, park/golf course	0.20	(0.10)	0.95	(0.65)	1.75	(1.24)	0.26	(0.16)	3.16	(0.49)
Outdoors, other location	0.04	(0.02)	2.02	(1.39)	4.02	(2.84)	0.09	(0.06)	6.17	(0.95)
Outdoors, not specified	0.03	(0.01)	0.01	(0.00)	0.00	(0.00)	0.01	(0.01)	0.05	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.57	(6.22)	10.90	(8.23)	12.21	(9.34)	8.88	(6.04)	42.55	(7.34)
In transit, bus	1.91	(1.13)	1.71	(1.30)	1.04	(0.79)	2.46	(1.67)	7.13	(1.23)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.37	(0.22)	0.45	(0.34)	0.47	(0.36)	0.90	(0.61)	2.18	(0.38)
Indoors, public garage	0.00	(0.00)	0.01	(0.00)	0.03	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, in a parking lot	0.55	(0.33)	0.62	(0.47)	0.72	(0.55)	0.46	(0.31)	2.36	(0.41)
Outdoors, along a roadway	5.82	(3.43)	6.26	(4.73)	8.21	(6.28)	4.51	(3.07)	24.81	(4.28)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.06	(0.04)	0.08	(0.06)	0.00	(0.00)	0.14	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.22	(0.13)	0.13	(0.10)	0.09	(0.07)	0.18	(0.13)	0.63	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	126.25	(74.31)	89.13	(67.34)	85.25	(65.21)	106.57	(72.47)	407.21	(70.20)
Indoors, office	6.10	(3.59)	4.49	(3.39)	3.62	(2.77)	5.19	(3.53)	19.41	(3.35)
Indoors, store	2.03	(1.19)	1.98	(1.50)	2.23	(1.71)	1.51	(1.03)	7.75	(1.34)
Indoors, restaurant	4.16	(2.45)	2.80	(2.11)	2.70	(2.07)	3.15	(2.14)	12.80	(2.21)
Indoors, mfg. facility	1.57	(0.92)	2.12	(1.60)	1.93	(1.48)	1.74	(1.18)	7.35	(1.27)
Indoors, school	5.74	(3.38)	4.36	(3.30)	2.66	(2.04)	5.51	(3.75)	18.28	(3.15)
Indoors, church	1.23	(0.73)	0.97	(0.73)	0.80	(0.61)	1.53	(1.04)	4.53	(0.78)
Indoors, shopping mall	0.22	(0.13)	0.67	(0.51)	0.83	(0.64)	0.61	(0.42)	2.33	(0.40)
Indoors, auditorium	0.01	(0.01)	0.03	(0.02)	0.02	(0.01)	0.04	(0.03)	0.11	(0.02)
Indoors, health care facility	0.88	(0.52)	0.56	(0.42)	0.54	(0.41)	0.63	(0.43)	2.61	(0.45)
Indoors, public building	0.06	(0.03)	0.10	(0.07)	0.29	(0.22)	0.06	(0.04)	0.51	(0.09)
Indoors, other location	0.13	(0.08)	0.84	(0.64)	1.27	(0.97)	0.24	(0.16)	2.48	(0.43)
Indoors, not specified	0.12	(0.07)	0.22	(0.17)	0.41	(0.31)	0.05	(0.03)	0.80	(0.14)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.05	(0.62)	2.40	(1.81)	3.75	(2.87)	1.58	(1.08)	8.78	(1.51)
Outdoors, school grounds	0.50	(0.30)	0.72	(0.54)	0.43	(0.33)	1.01	(0.68)	2.66	(0.46)
Outdoors, sports arena	0.00	(0.00)	0.12	(0.09)	0.17	(0.13)	0.01	(0.01)	0.31	(0.05)
Outdoors, park/golf course	0.39	(0.23)	0.12	(0.09)	0.10	(0.08)	0.18	(0.12)	0.78	(0.14)
Outdoors, other location	0.02	(0.01)	0.58	(0.44)	0.85	(0.65)	0.05	(0.03)	1.49	(0.26)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Boston: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.80	(12.25)	15.95	(11.35)	14.93	(10.90)	18.57	(11.68)	72.25	(11.61)
In transit, bus	1.97	(1.06)	1.36	(0.97)	1.01	(0.74)	1.72	(1.08)	6.06	(0.97)
In transit, truck	2.06	(1.11)	1.47	(1.05)	1.27	(0.92)	1.57	(0.98)	6.37	(1.02)
In transit, van	0.58	(0.31)	0.57	(0.40)	0.63	(0.46)	0.65	(0.41)	2.42	(0.39)
Indoors, public garage	0.51	(0.27)	0.28	(0.20)	0.15	(0.11)	0.42	(0.27)	1.36	(0.22)
Outdoors, in a parking lot	0.83	(0.45)	0.96	(0.68)	1.13	(0.82)	0.78	(0.49)	3.70	(0.59)
Outdoors, along a roadway	7.76	(4.17)	8.68	(6.18)	10.91	(7.96)	7.59	(4.77)	34.93	(5.61)
In transit, motorcycle	0.04	(0.02)	0.12	(0.09)	0.24	(0.18)	0.02	(0.01)	0.42	(0.07)
Indoors, service station	0.71	(0.38)	0.30	(0.22)	0.15	(0.11)	0.48	(0.30)	1.64	(0.26)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.16	(0.09)	0.13	(0.09)	0.10	(0.08)	0.20	(0.13)	0.59	(0.10)
Indoors, in a repair shop	0.58	(0.31)	0.14	(0.10)	0.01	(0.00)	0.26	(0.16)	0.98	(0.16)
Indoors, home	107.01	(57.52)	78.27	(55.71)	75.33	(55.01)	92.24	(58.01)	352.85	(56.68)
Indoors, office	12.38	(6.65)	7.22	(5.14)	5.36	(3.91)	9.22	(5.79)	34.17	(5.49)
Indoors, store	3.70	(1.99)	2.94	(2.09)	2.99	(2.18)	3.05	(1.92)	12.68	(2.04)
Indoors, restaurant	4.59	(2.47)	3.23	(2.30)	2.96	(2.17)	3.59	(2.26)	14.37	(2.31)
Indoors, mfg. facility	1.19	(0.64)	1.43	(1.02)	1.61	(1.17)	1.15	(0.72)	5.38	(0.86)
Indoors, school	6.60	(3.55)	4.98	(3.55)	3.53	(2.58)	6.38	(4.01)	21.49	(3.45)
Indoors, church	0.74	(0.40)	0.57	(0.41)	0.53	(0.39)	0.73	(0.46)	2.58	(0.41)
Indoors, shopping mall	1.32	(0.71)	0.93	(0.66)	0.70	(0.51)	1.09	(0.69)	4.04	(0.65)
Indoors, auditorium	0.16	(0.08)	0.11	(0.08)	0.12	(0.09)	0.15	(0.09)	0.54	(0.09)
Indoors, health care facility	1.30	(0.70)	0.88	(0.63)	0.76	(0.55)	1.12	(0.71)	4.06	(0.65)
Indoors, public building	0.38	(0.20)	0.38	(0.27)	0.46	(0.33)	0.33	(0.21)	1.55	(0.25)
Indoors, other location	5.79	(3.11)	3.86	(2.74)	3.38	(2.47)	4.43	(2.78)	17.45	(2.80)
Indoors, not specified	0.35	(0.19)	0.14	(0.10)	0.09	(0.06)	0.19	(0.12)	0.76	(0.12)
Outdoors, construction	0.18	(0.10)	0.33	(0.23)	0.33	(0.24)	0.23	(0.14)	1.06	(0.17)
Outdoors, residential grounds	0.98	(0.53)	2.50	(1.78)	4.17	(3.04)	1.28	(0.81)	8.93	(1.43)
Outdoors, school grounds	0.54	(0.29)	0.76	(0.54)	0.71	(0.52)	0.71	(0.45)	2.72	(0.44)
Outdoors, sports arena	0.09	(0.05)	0.22	(0.16)	0.34	(0.25)	0.09	(0.05)	0.74	(0.12)
Outdoors, park/golf course	0.12	(0.07)	0.49	(0.35)	0.86	(0.63)	0.19	(0.12)	1.66	(0.27)
Outdoors, other location	0.49	(0.26)	1.21	(0.86)	2.12	(1.55)	0.51	(0.32)	4.33	(0.70)
Outdoors, not specified	0.02	(0.01)	0.03	(0.02)	0.04	(0.03)	0.03	(0.02)	0.13	(0.02)
In transit, train	0.14	(0.08)	0.06	(0.04)	0.04	(0.03)	0.08	(0.05)	0.32	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.42	(9.05)	10.74	(9.35)	11.37	(9.76)	11.35	(8.91)	44.89	(9.26)
In transit, bus	1.94	(1.54)	1.18	(1.03)	0.85	(0.73)	1.83	(1.43)	5.80	(1.20)
In transit, truck	0.47	(0.37)	0.92	(0.80)	1.08	(0.93)	0.70	(0.55)	3.18	(0.65)
In transit, van	0.50	(0.40)	0.61	(0.53)	0.58	(0.49)	0.56	(0.44)	2.24	(0.46)
Indoors, public garage	0.27	(0.22)	0.13	(0.11)	0.08	(0.07)	0.23	(0.18)	0.71	(0.15)
Outdoors, in a parking lot	1.04	(0.82)	0.86	(0.74)	0.93	(0.80)	0.98	(0.77)	3.79	(0.78)
Outdoors, along a roadway	5.64	(4.47)	6.93	(6.03)	8.27	(7.09)	5.79	(4.55)	26.62	(5.49)
In transit, motorcycle	0.07	(0.06)	0.10	(0.09)	0.17	(0.15)	0.04	(0.04)	0.39	(0.08)
Indoors, service station	0.31	(0.25)	0.18	(0.15)	0.11	(0.09)	0.29	(0.23)	0.89	(0.18)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.09	(0.07)	0.08	(0.07)	0.06	(0.06)	0.10	(0.08)	0.34	(0.07)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	76.06	(60.31)	67.94	(59.12)	67.31	(57.77)	77.41	(60.79)	288.73	(59.54)
Indoors, office	4.27	(3.38)	3.75	(3.27)	3.91	(3.35)	4.21	(3.31)	16.14	(3.33)
Indoors, store	2.99	(2.37)	2.26	(1.97)	2.35	(2.02)	2.71	(2.12)	10.31	(2.13)
Indoors, restaurant	3.16	(2.51)	2.38	(2.07)	2.40	(2.06)	2.91	(2.29)	10.86	(2.24)
Indoors, mfg. facility	1.65	(1.31)	1.48	(1.29)	1.57	(1.35)	1.60	(1.26)	6.31	(1.30)
Indoors, school	8.62	(6.83)	5.69	(4.95)	3.72	(3.19)	8.54	(6.71)	26.57	(5.48)
Indoors, church	0.57	(0.45)	0.47	(0.41)	0.41	(0.35)	0.60	(0.47)	2.05	(0.42)
Indoors, shopping mall	0.95	(0.76)	0.63	(0.55)	0.56	(0.48)	0.89	(0.70)	3.04	(0.63)
Indoors, auditorium	0.07	(0.06)	0.10	(0.09)	0.10	(0.09)	0.09	(0.07)	0.37	(0.08)
Indoors, health care facility	0.91	(0.72)	0.74	(0.64)	0.61	(0.52)	0.94	(0.74)	3.20	(0.66)
Indoors, public building	0.28	(0.23)	0.34	(0.30)	0.40	(0.34)	0.30	(0.24)	1.33	(0.27)
Indoors, other location	2.19	(1.74)	2.50	(2.18)	2.83	(2.43)	2.40	(1.88)	9.92	(2.05)
Indoors, not specified	0.05	(0.04)	0.04	(0.03)	0.06	(0.05)	0.04	(0.03)	0.18	(0.04)
Outdoors, construction	0.23	(0.18)	0.28	(0.25)	0.32	(0.28)	0.29	(0.22)	1.12	(0.23)
Outdoors, residential grounds	1.12	(0.89)	2.29	(2.00)	3.22	(2.76)	1.24	(0.97)	7.87	(1.62)
Outdoors, school grounds	0.79	(0.63)	0.74	(0.65)	0.66	(0.57)	0.84	(0.66)	3.03	(0.63)
Outdoors, sports arena	0.03	(0.02)	0.15	(0.13)	0.27	(0.23)	0.04	(0.03)	0.48	(0.10)
Outdoors, park/golf course	0.12	(0.09)	0.45	(0.39)	0.68	(0.58)	0.15	(0.12)	1.39	(0.29)
Outdoors, other location	0.25	(0.20)	0.90	(0.78)	1.59	(1.36)	0.25	(0.20)	2.99	(0.62)
Outdoors, not specified	0.03	(0.02)	0.03	(0.03)	0.04	(0.03)	0.03	(0.02)	0.13	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.73	(9.78)	7.64	(7.13)	8.31	(7.33)	10.26	(8.44)	37.94	(8.21)
In transit, bus	1.85	(1.54)	3.22	(3.00)	3.09	(2.73)	2.97	(2.44)	11.13	(2.41)
In transit, truck	0.00	(0.00)	0.34	(0.32)	0.81	(0.72)	0.00	(0.00)	1.16	(0.25)
In transit, van	0.00	(0.00)	0.02	(0.02)	0.04	(0.04)	0.00	(0.00)	0.07	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.96	(0.80)	0.64	(0.60)	0.87	(0.77)	0.75	(0.62)	3.23	(0.70)
Outdoors, along a roadway	2.98	(2.48)	5.78	(5.39)	8.84	(7.80)	3.33	(2.74)	20.92	(4.53)
In transit, motorcycle	0.03	(0.03)	0.09	(0.08)	0.07	(0.06)	0.09	(0.07)	0.28	(0.06)
Indoors, service station	0.00	(0.00)	0.05	(0.04)	0.11	(0.10)	0.00	(0.00)	0.16	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.03	(0.02)	0.06	(0.06)	0.00	(0.00)	0.09	(0.02)
Indoors, home	82.52	(68.83)	71.44	(66.63)	72.31	(63.79)	83.71	(68.89)	309.99	(67.10)
Indoors, office	0.05	(0.04)	1.27	(1.18)	2.42	(2.13)	0.22	(0.19)	3.96	(0.86)
Indoors, store	0.74	(0.62)	0.95	(0.88)	1.18	(1.04)	0.80	(0.65)	3.66	(0.79)
Indoors, restaurant	1.89	(1.57)	0.44	(0.41)	0.24	(0.21)	1.43	(1.17)	4.00	(0.87)
Indoors, mfg. facility	3.17	(2.64)	1.02	(0.95)	1.09	(0.96)	2.10	(1.72)	7.37	(1.60)
Indoors, school	3.88	(3.24)	5.59	(5.21)	3.97	(3.50)	6.36	(5.23)	19.79	(4.28)
Indoors, church	2.08	(1.73)	1.14	(1.06)	0.90	(0.79)	1.92	(1.58)	6.03	(1.31)
Indoors, shopping mall	0.08	(0.06)	0.50	(0.47)	0.39	(0.34)	0.30	(0.25)	1.27	(0.27)
Indoors, auditorium	0.01	(0.01)	0.05	(0.05)	0.03	(0.03)	0.04	(0.03)	0.13	(0.03)
Indoors, health care facility	0.70	(0.58)	1.41	(1.32)	1.69	(1.49)	1.02	(0.84)	4.82	(1.04)
Indoors, public building	0.02	(0.01)	0.14	(0.13)	0.22	(0.19)	0.04	(0.04)	0.42	(0.09)
Indoors, other location	6.76	(5.64)	2.20	(2.05)	1.91	(1.69)	4.87	(4.01)	15.74	(3.41)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.17	(0.14)	1.63	(1.52)	2.64	(2.33)	0.48	(0.40)	4.92	(1.07)
Outdoors, school grounds	0.23	(0.19)	0.70	(0.65)	0.54	(0.47)	0.62	(0.51)	2.09	(0.45)
Outdoors, sports arena	0.05	(0.04)	0.29	(0.27)	0.19	(0.17)	0.20	(0.17)	0.73	(0.16)
Outdoors, park/golf course	0.00	(0.00)	0.08	(0.08)	0.19	(0.17)	0.00	(0.00)	0.28	(0.06)
Outdoors, other location	0.01	(0.01)	0.32	(0.30)	0.68	(0.60)	0.01	(0.01)	1.01	(0.22)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.23	(0.22)	0.56	(0.49)	0.00	(0.00)	0.79	(0.17)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.10	(8.47)	7.62	(7.04)	8.07	(7.33)	9.29	(7.65)	35.08	(7.64)
In transit, bus	1.50	(1.26)	2.46	(2.27)	2.45	(2.22)	2.22	(1.82)	8.63	(1.88)
In transit, truck	0.00	(0.00)	0.32	(0.29)	0.74	(0.67)	0.00	(0.00)	1.06	(0.23)
In transit, van	0.17	(0.14)	0.48	(0.45)	0.38	(0.34)	0.40	(0.33)	1.43	(0.31)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.84	(0.70)	0.69	(0.64)	0.84	(0.77)	0.73	(0.60)	3.11	(0.68)
Outdoors, along a roadway	3.53	(2.96)	8.93	(8.26)	10.48	(9.53)	5.99	(4.93)	28.94	(6.30)
In transit, motorcycle	0.02	(0.02)	0.07	(0.06)	0.05	(0.05)	0.06	(0.05)	0.20	(0.04)
Indoors, service station	0.00	(0.00)	0.04	(0.04)	0.10	(0.09)	0.00	(0.00)	0.14	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.02	(0.02)	0.06	(0.05)	0.00	(0.00)	0.08	(0.02)
Indoors, home	85.43	(71.59)	71.03	(65.65)	69.29	(62.96)	84.97	(69.96)	310.72	(67.69)
Indoors, office	0.08	(0.07)	1.38	(1.28)	2.48	(2.26)	0.31	(0.26)	4.26	(0.93)
Indoors, store	0.64	(0.54)	1.00	(0.92)	1.30	(1.18)	0.73	(0.60)	3.67	(0.80)
Indoors, restaurant	1.71	(1.43)	0.51	(0.47)	0.27	(0.24)	1.32	(1.09)	3.81	(0.83)
Indoors, mfg. facility	2.81	(2.35)	0.91	(0.84)	0.98	(0.89)	1.83	(1.51)	6.53	(1.42)
Indoors, school	3.81	(3.19)	4.24	(3.92)	2.94	(2.67)	5.19	(4.27)	16.19	(3.53)
Indoors, church	1.64	(1.37)	1.18	(1.09)	0.92	(0.83)	1.63	(1.34)	5.36	(1.17)
Indoors, shopping mall	0.07	(0.06)	0.45	(0.42)	0.34	(0.31)	0.27	(0.23)	1.14	(0.25)
Indoors, auditorium	0.01	(0.01)	0.04	(0.04)	0.03	(0.03)	0.03	(0.03)	0.11	(0.02)
Indoors, health care facility	0.61	(0.51)	1.25	(1.16)	1.46	(1.32)	0.89	(0.74)	4.21	(0.92)
Indoors, public building	0.01	(0.01)	0.12	(0.11)	0.19	(0.17)	0.04	(0.03)	0.36	(0.08)
Indoors, other location	5.86	(4.91)	2.13	(1.97)	1.83	(1.67)	4.35	(3.58)	14.18	(3.09)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.25	(0.21)	1.78	(1.64)	2.80	(2.55)	0.52	(0.43)	5.35	(1.17)
Outdoors, school grounds	0.16	(0.14)	0.51	(0.47)	0.39	(0.36)	0.44	(0.37)	1.51	(0.33)
Outdoors, sports arena	0.04	(0.04)	0.27	(0.25)	0.19	(0.18)	0.18	(0.15)	0.69	(0.15)
Outdoors, park/golf course	0.00	(0.00)	0.08	(0.07)	0.16	(0.15)	0.00	(0.00)	0.24	(0.05)
Outdoors, other location	0.03	(0.02)	0.42	(0.39)	0.77	(0.70)	0.06	(0.05)	1.27	(0.28)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.22	(0.20)	0.51	(0.46)	0.00	(0.00)	0.73	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	5.53	(4.77)	5.90	(5.62)	6.89	(6.52)	5.44	(4.65)	23.75	(5.36)
In transit, bus	1.94	(1.67)	1.15	(1.09)	0.71	(0.67)	1.84	(1.57)	5.63	(1.27)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.19	(0.19)	0.30	(0.29)	0.00	(0.00)	0.50	(0.11)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.47	(0.41)	1.05	(1.00)	1.27	(1.21)	0.64	(0.55)	3.44	(0.77)
Outdoors, along a roadway	4.67	(4.03)	5.74	(5.47)	6.09	(5.76)	5.43	(4.64)	21.93	(4.94)
In transit, motorcycle	0.00	(0.00)	0.07	(0.06)	0.13	(0.12)	0.00	(0.00)	0.19	(0.04)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	87.87	(75.83)	78.54	(74.90)	78.10	(73.89)	88.91	(75.98)	333.42	(75.19)
Indoors, office	0.38	(0.33)	0.12	(0.11)	0.08	(0.07)	0.28	(0.24)	0.86	(0.19)
Indoors, store	2.55	(2.20)	2.01	(1.91)	2.74	(2.59)	2.10	(1.80)	9.39	(2.12)
Indoors, restaurant	3.10	(2.67)	0.91	(0.87)	0.51	(0.49)	2.30	(1.97)	6.82	(1.54)
Indoors, mfg. facility	1.72	(1.49)	1.17	(1.12)	1.92	(1.81)	1.17	(1.00)	5.98	(1.35)
Indoors, school	4.73	(4.08)	3.86	(3.68)	2.03	(1.92)	5.55	(4.74)	16.17	(3.65)
Indoors, church	0.20	(0.17)	0.23	(0.21)	0.12	(0.12)	0.27	(0.23)	0.81	(0.18)
Indoors, shopping mall	0.21	(0.18)	0.59	(0.56)	0.36	(0.34)	0.56	(0.48)	1.72	(0.39)
Indoors, auditorium	0.02	(0.02)	0.13	(0.13)	0.11	(0.10)	0.07	(0.06)	0.33	(0.07)
Indoors, health care facility	0.08	(0.07)	0.27	(0.26)	0.21	(0.20)	0.23	(0.20)	0.79	(0.18)
Indoors, public building	0.51	(0.44)	0.13	(0.12)	0.07	(0.07)	0.39	(0.34)	1.10	(0.25)
Indoors, other location	1.00	(0.86)	0.91	(0.87)	1.34	(1.27)	0.89	(0.76)	4.14	(0.93)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.70	(0.60)	1.03	(0.98)	1.39	(1.31)	0.70	(0.60)	3.81	(0.86)
Outdoors, school grounds	0.05	(0.04)	0.15	(0.14)	0.09	(0.09)	0.14	(0.12)	0.43	(0.10)
Outdoors, sports arena	0.00	(0.00)	0.13	(0.13)	0.26	(0.25)	0.00	(0.00)	0.40	(0.09)
Outdoors, park/golf course	0.15	(0.13)	0.08	(0.07)	0.10	(0.10)	0.09	(0.08)	0.42	(0.10)
Outdoors, other location	0.00	(0.00)	0.52	(0.50)	0.85	(0.80)	0.01	(0.01)	1.38	(0.31)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.39	(7.57)	9.11	(8.09)	9.38	(8.15)	9.53	(7.63)	37.41	(7.85)
In transit, bus	0.61	(0.49)	0.88	(0.78)	0.86	(0.75)	0.87	(0.70)	3.22	(0.68)
In transit, truck	0.40	(0.32)	1.22	(1.08)	2.13	(1.85)	0.53	(0.43)	4.28	(0.90)
In transit, van	0.03	(0.03)	0.15	(0.13)	0.16	(0.14)	0.08	(0.06)	0.42	(0.09)
Indoors, public garage	0.00	(0.00)	0.03	(0.03)	0.05	(0.04)	0.00	(0.00)	0.09	(0.02)
Outdoors, in a parking lot	2.00	(1.61)	1.05	(0.93)	1.05	(0.91)	1.69	(1.35)	5.79	(1.21)
Outdoors, along a roadway	6.19	(4.99)	7.72	(6.85)	9.81	(8.53)	6.09	(4.87)	29.80	(6.25)
In transit, motorcycle	0.00	(0.00)	0.56	(0.50)	1.11	(0.96)	0.00	(0.00)	1.66	(0.35)
Indoors, service station	0.00	(0.00)	0.05	(0.04)	0.09	(0.08)	0.00	(0.00)	0.14	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.09	(0.07)	0.12	(0.11)	0.07	(0.06)	0.12	(0.10)	0.41	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.03	(0.02)	0.00	(0.00)	0.04	(0.01)
Indoors, home	77.71	(62.63)	69.36	(61.54)	69.07	(60.04)	78.67	(62.95)	294.80	(61.84)
Indoors, office	2.69	(2.16)	2.38	(2.12)	2.29	(1.99)	2.73	(2.19)	10.09	(2.12)
Indoors, store	1.84	(1.48)	2.12	(1.88)	2.50	(2.17)	1.90	(1.52)	8.35	(1.75)
Indoors, restaurant	5.53	(4.46)	3.12	(2.77)	2.05	(1.78)	5.21	(4.17)	15.91	(3.34)
Indoors, mfg. facility	2.60	(2.10)	1.86	(1.65)	1.58	(1.37)	2.51	(2.01)	8.55	(1.79)
Indoors, school	7.50	(6.05)	4.52	(4.01)	3.13	(2.72)	7.09	(5.68)	22.24	(4.66)
Indoors, church	0.45	(0.37)	0.51	(0.45)	0.44	(0.38)	0.57	(0.46)	1.97	(0.41)
Indoors, shopping mall	1.62	(1.30)	0.57	(0.51)	0.42	(0.36)	1.33	(1.06)	3.93	(0.82)
Indoors, auditorium	0.01	(0.01)	0.05	(0.04)	0.04	(0.03)	0.03	(0.03)	0.13	(0.03)
Indoors, health care facility	1.63	(1.31)	1.02	(0.91)	0.84	(0.73)	1.52	(1.22)	5.01	(1.05)
Indoors, public building	0.33	(0.26)	0.12	(0.11)	0.09	(0.08)	0.24	(0.19)	0.78	(0.16)
Indoors, other location	1.60	(1.29)	2.66	(2.36)	2.90	(2.52)	2.26	(1.81)	9.42	(1.98)
Indoors, not specified	0.03	(0.02)	0.03	(0.03)	0.07	(0.06)	0.02	(0.01)	0.15	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.94	(0.76)	1.83	(1.62)	2.54	(2.21)	0.99	(0.79)	6.30	(1.32)
Outdoors, school grounds	0.73	(0.59)	0.77	(0.69)	0.75	(0.66)	0.84	(0.67)	3.10	(0.65)
Outdoors, sports arena	0.00	(0.00)	0.14	(0.13)	0.29	(0.25)	0.00	(0.00)	0.43	(0.09)
Outdoors, park/golf course	0.02	(0.02)	0.35	(0.31)	0.58	(0.51)	0.06	(0.05)	1.02	(0.21)
Outdoors, other location	0.00	(0.00)	0.35	(0.31)	0.72	(0.63)	0.00	(0.00)	1.07	(0.22)
Outdoors, not specified	0.13	(0.11)	0.02	(0.02)	0.00	(0.00)	0.08	(0.07)	0.24	(0.05)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.78	(9.40)	10.65	(9.35)	11.12	(9.56)	11.64	(9.18)	45.19	(9.37)
In transit, bus	2.16	(1.72)	1.15	(1.01)	0.91	(0.79)	1.86	(1.47)	6.09	(1.26)
In transit, truck	0.29	(0.23)	0.65	(0.57)	0.80	(0.68)	0.47	(0.37)	2.21	(0.46)
In transit, van	1.10	(0.88)	1.11	(0.98)	1.04	(0.89)	1.14	(0.90)	4.38	(0.91)
Indoors, public garage	0.66	(0.53)	0.24	(0.21)	0.09	(0.07)	0.53	(0.42)	1.51	(0.31)
Outdoors, in a parking lot	0.87	(0.69)	0.77	(0.67)	0.85	(0.73)	0.84	(0.66)	3.32	(0.69)
Outdoors, along a roadway	5.00	(3.99)	7.64	(6.71)	9.03	(7.76)	5.87	(4.63)	27.54	(5.71)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, service station	0.06	(0.05)	0.04	(0.04)	0.04	(0.03)	0.06	(0.04)	0.19	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.15	(0.12)	0.09	(0.08)	0.06	(0.05)	0.15	(0.12)	0.45	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	77.00	(61.40)	67.60	(59.38)	67.37	(57.89)	78.00	(61.53)	289.96	(60.11)
Indoors, office	3.89	(3.11)	3.82	(3.35)	3.83	(3.29)	4.17	(3.29)	15.71	(3.26)
Indoors, store	2.68	(2.14)	2.06	(1.81)	2.36	(2.03)	2.33	(1.84)	9.44	(1.96)
Indoors, restaurant	2.07	(1.65)	1.68	(1.48)	1.70	(1.46)	2.01	(1.58)	7.46	(1.55)
Indoors, mfg. facility	1.75	(1.40)	1.66	(1.45)	1.78	(1.53)	1.72	(1.36)	6.91	(1.43)
Indoors, school	7.17	(5.72)	4.58	(4.03)	3.42	(2.94)	6.84	(5.39)	22.01	(4.56)
Indoors, church	0.99	(0.79)	0.64	(0.56)	0.48	(0.41)	0.98	(0.77)	3.09	(0.64)
Indoors, shopping mall	0.99	(0.79)	0.49	(0.43)	0.38	(0.32)	0.85	(0.67)	2.70	(0.56)
Indoors, auditorium	0.07	(0.06)	0.10	(0.08)	0.08	(0.07)	0.10	(0.08)	0.35	(0.07)
Indoors, health care facility	0.76	(0.60)	0.68	(0.60)	0.59	(0.51)	0.81	(0.64)	2.84	(0.59)
Indoors, public building	0.28	(0.22)	0.45	(0.40)	0.59	(0.51)	0.31	(0.24)	1.63	(0.34)
Indoors, other location	2.95	(2.35)	2.50	(2.20)	2.60	(2.23)	2.93	(2.31)	10.98	(2.28)
Indoors, not specified	0.08	(0.06)	0.05	(0.05)	0.08	(0.07)	0.05	(0.04)	0.26	(0.05)
Outdoors, construction	0.51	(0.41)	0.57	(0.50)	0.61	(0.52)	0.62	(0.49)	2.32	(0.48)
Outdoors, residential grounds	0.86	(0.68)	2.47	(2.17)	3.51	(3.02)	1.17	(0.92)	8.01	(1.66)
Outdoors, school grounds	0.71	(0.57)	0.65	(0.57)	0.62	(0.53)	0.72	(0.57)	2.70	(0.56)
Outdoors, sports arena	0.00	(0.00)	0.10	(0.09)	0.19	(0.16)	0.01	(0.01)	0.30	(0.06)
Outdoors, park/golf course	0.10	(0.08)	0.35	(0.31)	0.51	(0.44)	0.14	(0.11)	1.10	(0.23)
Outdoors, other location	0.44	(0.35)	1.01	(0.88)	1.63	(1.40)	0.45	(0.35)	3.52	(0.73)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.04	(0.04)	0.10	(0.08)	0.00	(0.00)	0.14	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.47	(11.46)	13.29	(11.49)	13.73	(11.63)	14.65	(11.39)	56.14	(11.49)
In transit, bus	1.65	(1.30)	1.39	(1.20)	0.89	(0.76)	1.95	(1.51)	5.88	(1.20)
In transit, truck	0.13	(0.10)	0.59	(0.51)	0.81	(0.69)	0.25	(0.19)	1.78	(0.36)
In transit, van	0.00	(0.00)	0.16	(0.14)	0.28	(0.24)	0.00	(0.00)	0.44	(0.09)
Indoors, public garage	0.03	(0.02)	0.03	(0.02)	0.02	(0.02)	0.03	(0.02)	0.11	(0.02)
Outdoors, in a parking lot	0.81	(0.64)	0.76	(0.66)	0.80	(0.68)	0.81	(0.63)	3.18	(0.65)
Outdoors, along a roadway	5.83	(4.62)	6.62	(5.72)	8.00	(6.78)	5.82	(4.52)	26.27	(5.38)
In transit, motorcycle	0.26	(0.20)	0.04	(0.03)	0.00	(0.00)	0.16	(0.13)	0.46	(0.09)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.04	(0.03)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.06	(0.05)	0.10	(0.09)	0.02	(0.02)	0.19	(0.04)
Indoors, in a repair shop	0.01	(0.01)	0.02	(0.02)	0.01	(0.01)	0.02	(0.02)	0.06	(0.01)
Indoors, home	73.59	(58.27)	64.77	(56.02)	64.31	(54.46)	74.99	(58.28)	277.66	(56.84)
Indoors, office	7.22	(5.72)	5.60	(4.85)	5.73	(4.86)	6.79	(5.28)	25.35	(5.19)
Indoors, store	2.86	(2.26)	2.18	(1.89)	2.35	(1.99)	2.63	(2.04)	10.02	(2.05)
Indoors, restaurant	2.26	(1.79)	2.50	(2.16)	2.76	(2.33)	2.35	(1.83)	9.87	(2.02)
Indoors, mfg. facility	2.15	(1.70)	1.61	(1.39)	1.60	(1.35)	2.01	(1.57)	7.37	(1.51)
Indoors, school	7.90	(6.26)	5.74	(4.97)	3.21	(2.72)	8.61	(6.69)	25.48	(5.21)
Indoors, church	0.28	(0.23)	0.38	(0.33)	0.43	(0.36)	0.34	(0.26)	1.43	(0.29)
Indoors, shopping mall	0.56	(0.44)	1.10	(0.95)	1.31	(1.11)	0.78	(0.61)	3.76	(0.77)
Indoors, auditorium	0.06	(0.04)	0.11	(0.10)	0.17	(0.14)	0.06	(0.05)	0.40	(0.08)
Indoors, health care facility	0.81	(0.64)	0.77	(0.66)	0.77	(0.66)	0.83	(0.64)	3.18	(0.65)
Indoors, public building	0.17	(0.14)	0.26	(0.22)	0.32	(0.27)	0.22	(0.17)	0.96	(0.20)
Indoors, other location	3.01	(2.39)	2.27	(1.96)	2.17	(1.83)	2.93	(2.28)	10.38	(2.12)
Indoors, not specified	0.05	(0.04)	0.03	(0.03)	0.03	(0.02)	0.05	(0.04)	0.16	(0.03)
Outdoors, construction	0.00	(0.00)	0.05	(0.04)	0.11	(0.10)	0.00	(0.00)	0.17	(0.03)
Outdoors, residential grounds	1.31	(1.04)	2.65	(2.29)	4.03	(3.41)	1.24	(0.97)	9.23	(1.89)
Outdoors, school grounds	0.66	(0.52)	0.65	(0.56)	0.48	(0.41)	0.79	(0.61)	2.58	(0.53)
Outdoors, sports arena	0.02	(0.02)	0.22	(0.19)	0.37	(0.31)	0.06	(0.04)	0.67	(0.14)
Outdoors, park/golf course	0.11	(0.08)	0.56	(0.48)	0.77	(0.66)	0.20	(0.15)	1.64	(0.34)
Outdoors, other location	0.05	(0.04)	1.20	(1.03)	2.46	(2.08)	0.07	(0.05)	3.77	(0.77)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.17	(5.66)	9.32	(8.04)	11.66	(9.99)	7.72	(5.98)	35.87	(7.34)
In transit, bus	1.32	(1.05)	0.30	(0.26)	0.09	(0.08)	0.96	(0.74)	2.68	(0.55)
In transit, truck	4.05	(3.20)	1.98	(1.71)	1.14	(0.98)	3.45	(2.68)	10.64	(2.18)
In transit, van	0.20	(0.16)	0.97	(0.83)	0.68	(0.58)	0.71	(0.55)	2.55	(0.52)
Indoors, public garage	0.00	(0.00)	0.04	(0.03)	0.08	(0.07)	0.00	(0.00)	0.12	(0.02)
Outdoors, in a parking lot	0.32	(0.25)	0.66	(0.57)	1.02	(0.87)	0.31	(0.24)	2.30	(0.47)
Outdoors, along a roadway	6.68	(5.27)	6.81	(5.87)	7.69	(6.58)	6.31	(4.89)	27.49	(5.63)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	2.73	(2.16)	0.50	(0.43)	0.00	(0.00)	1.96	(1.52)	5.19	(1.06)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	74.02	(58.41)	66.90	(57.69)	65.58	(56.16)	77.52	(60.07)	284.02	(58.14)
Indoors, office	4.68	(3.69)	4.46	(3.84)	5.96	(5.10)	4.16	(3.22)	19.25	(3.94)
Indoors, store	0.03	(0.02)	0.67	(0.58)	1.24	(1.06)	0.09	(0.07)	2.03	(0.42)
Indoors, restaurant	3.78	(2.98)	3.75	(3.23)	4.51	(3.86)	3.50	(2.71)	15.53	(3.18)
Indoors, mfg. facility	0.00	(0.00)	0.08	(0.07)	0.18	(0.15)	0.00	(0.00)	0.25	(0.05)
Indoors, school	15.90	(12.55)	7.84	(6.76)	4.63	(3.96)	13.81	(10.70)	42.17	(8.63)
Indoors, church	0.45	(0.35)	0.30	(0.26)	0.34	(0.29)	0.44	(0.34)	1.53	(0.31)
Indoors, shopping mall	0.05	(0.04)	0.15	(0.13)	0.09	(0.08)	0.13	(0.10)	0.41	(0.08)
Indoors, auditorium	0.09	(0.07)	0.33	(0.28)	0.24	(0.20)	0.24	(0.19)	0.90	(0.18)
Indoors, health care facility	0.66	(0.52)	0.50	(0.43)	0.30	(0.26)	0.68	(0.52)	2.13	(0.44)
Indoors, public building	0.00	(0.00)	0.21	(0.18)	0.37	(0.32)	0.00	(0.00)	0.58	(0.12)
Indoors, other location	0.33	(0.26)	3.18	(2.74)	3.03	(2.59)	1.62	(1.25)	8.16	(1.67)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.24	(0.20)	0.53	(0.46)	0.00	(0.00)	0.77	(0.16)
Outdoors, residential grounds	3.62	(2.85)	3.78	(3.26)	3.57	(3.06)	4.21	(3.27)	15.19	(3.11)
Outdoors, school grounds	0.32	(0.25)	1.08	(0.93)	0.77	(0.66)	0.80	(0.62)	2.98	(0.61)
Outdoors, sports arena	0.00	(0.00)	0.06	(0.05)	0.09	(0.08)	0.00	(0.00)	0.15	(0.03)
Outdoors, park/golf course	0.32	(0.25)	1.20	(1.04)	1.74	(1.49)	0.45	(0.35)	3.71	(0.76)
Outdoors, other location	0.00	(0.00)	0.65	(0.56)	1.27	(1.09)	0.00	(0.00)	1.92	(0.39)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.62	(6.17)	7.31	(6.52)	8.21	(7.09)	7.52	(6.01)	30.67	(6.43)
In transit, bus	3.01	(2.43)	2.17	(1.94)	1.46	(1.26)	3.16	(2.53)	9.80	(2.06)
In transit, truck	0.32	(0.26)	0.21	(0.18)	0.26	(0.23)	0.25	(0.20)	1.03	(0.22)
In transit, van	0.50	(0.40)	0.77	(0.69)	0.62	(0.53)	0.69	(0.55)	2.57	(0.54)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.49	(0.40)	0.48	(0.42)	0.59	(0.51)	0.46	(0.37)	2.02	(0.42)
Outdoors, along a roadway	7.85	(6.34)	9.64	(8.60)	12.37	(10.68)	7.76	(6.20)	37.61	(7.89)
In transit, motorcycle	0.17	(0.14)	0.05	(0.04)	0.03	(0.03)	0.12	(0.10)	0.37	(0.08)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.02)	0.09	(0.08)	0.08	(0.07)	0.08	(0.06)	0.28	(0.06)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	76.23	(61.64)	67.98	(60.62)	69.07	(59.65)	77.79	(62.17)	291.08	(61.05)
Indoors, office	0.08	(0.06)	0.21	(0.19)	0.39	(0.33)	0.08	(0.06)	0.75	(0.16)
Indoors, store	1.35	(1.09)	1.16	(1.03)	1.27	(1.09)	1.26	(1.01)	5.04	(1.06)
Indoors, restaurant	0.95	(0.77)	1.19	(1.06)	1.51	(1.30)	0.98	(0.78)	4.62	(0.97)
Indoors, mfg. facility	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.04	(0.01)
Indoors, school	18.60	(15.04)	11.69	(10.43)	7.83	(6.76)	18.18	(14.53)	56.30	(11.81)
Indoors, church	0.53	(0.43)	0.39	(0.35)	0.37	(0.32)	0.53	(0.43)	1.83	(0.38)
Indoors, shopping mall	0.65	(0.53)	0.58	(0.52)	0.59	(0.51)	0.67	(0.53)	2.49	(0.52)
Indoors, auditorium	0.05	(0.04)	0.10	(0.09)	0.09	(0.08)	0.09	(0.07)	0.33	(0.07)
Indoors, health care facility	0.49	(0.40)	0.44	(0.40)	0.38	(0.32)	0.52	(0.42)	1.83	(0.38)
Indoors, public building	0.10	(0.08)	0.16	(0.14)	0.22	(0.19)	0.11	(0.09)	0.58	(0.12)
Indoors, other location	0.67	(0.54)	0.78	(0.69)	0.85	(0.74)	0.69	(0.55)	2.98	(0.63)
Indoors, not specified	0.00	(0.00)	0.03	(0.02)	0.06	(0.05)	0.00	(0.00)	0.08	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.98	(1.60)	3.29	(2.93)	4.70	(4.06)	2.05	(1.64)	12.01	(2.52)
Outdoors, school grounds	1.80	(1.46)	1.65	(1.47)	1.58	(1.36)	1.85	(1.47)	6.87	(1.44)
Outdoors, sports arena	0.09	(0.07)	0.22	(0.20)	0.31	(0.27)	0.12	(0.10)	0.74	(0.16)
Outdoors, park/golf course	0.09	(0.07)	0.56	(0.50)	1.01	(0.87)	0.12	(0.09)	1.77	(0.37)
Outdoors, other location	0.01	(0.00)	0.95	(0.84)	1.94	(1.67)	0.02	(0.01)	2.91	(0.61)
Outdoors, not specified	0.01	(0.01)	0.04	(0.03)	0.02	(0.02)	0.03	(0.02)	0.10	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.39	(16.34)	13.75	(11.84)	13.41	(11.49)	18.69	(14.17)	67.24	(13.57)
In transit, bus	0.99	(0.75)	0.16	(0.14)	0.00	(0.00)	0.70	(0.53)	1.85	(0.37)
In transit, truck	0.91	(0.70)	2.67	(2.30)	4.09	(3.51)	1.32	(1.00)	8.99	(1.81)
In transit, van	0.00	(0.00)	0.45	(0.39)	0.78	(0.67)	0.00	(0.00)	1.23	(0.25)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.52	(0.40)	0.99	(0.85)	0.99	(0.85)	0.72	(0.55)	3.23	(0.65)
Outdoors, along a roadway	10.03	(7.66)	11.06	(9.53)	9.16	(7.85)	12.20	(9.25)	42.45	(8.57)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.03	(0.03)	0.03	(0.03)	0.02	(0.01)	0.08	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	74.86	(57.21)	64.09	(55.21)	61.43	(52.63)	76.58	(58.07)	276.96	(55.89)
Indoors, office	3.08	(2.35)	4.50	(3.87)	6.43	(5.51)	3.30	(2.50)	17.30	(3.49)
Indoors, store	0.49	(0.37)	0.60	(0.52)	0.65	(0.55)	0.57	(0.43)	2.30	(0.46)
Indoors, restaurant	2.12	(1.62)	1.29	(1.11)	1.22	(1.05)	1.82	(1.38)	6.45	(1.30)
Indoors, mfg. facility	0.00	(0.00)	1.69	(1.46)	3.37	(2.89)	0.00	(0.00)	5.06	(1.02)
Indoors, school	8.94	(6.83)	4.56	(3.93)	2.12	(1.82)	8.33	(6.32)	23.95	(4.83)
Indoors, church	0.03	(0.02)	0.29	(0.25)	0.46	(0.40)	0.08	(0.06)	0.86	(0.17)
Indoors, shopping mall	0.12	(0.09)	0.30	(0.26)	0.18	(0.15)	0.32	(0.24)	0.91	(0.18)
Indoors, auditorium	0.04	(0.03)	0.27	(0.23)	0.53	(0.46)	0.03	(0.02)	0.87	(0.18)
Indoors, health care facility	0.25	(0.19)	0.24	(0.20)	0.22	(0.19)	0.25	(0.19)	0.96	(0.19)
Indoors, public building	0.84	(0.64)	0.79	(0.68)	0.43	(0.36)	1.06	(0.81)	3.12	(0.63)
Indoors, other location	4.54	(3.47)	2.60	(2.24)	2.53	(2.17)	3.88	(2.94)	13.54	(2.73)
Indoors, not specified	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.04	(0.01)
Outdoors, construction	0.00	(0.00)	0.56	(0.48)	1.28	(1.09)	0.00	(0.00)	1.83	(0.37)
Outdoors, residential grounds	0.40	(0.31)	1.24	(1.07)	1.80	(1.54)	0.52	(0.40)	3.96	(0.80)
Outdoors, school grounds	0.31	(0.24)	0.86	(0.74)	0.53	(0.46)	0.83	(0.63)	2.54	(0.51)
Outdoors, sports arena	0.29	(0.22)	0.36	(0.31)	0.52	(0.44)	0.19	(0.15)	1.37	(0.28)
Outdoors, park/golf course	0.14	(0.11)	0.24	(0.21)	0.44	(0.38)	0.11	(0.09)	0.94	(0.19)
Outdoors, other location	0.20	(0.15)	2.42	(2.08)	4.11	(3.52)	0.12	(0.09)	6.85	(1.38)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.38	(0.29)	0.06	(0.05)	0.00	(0.00)	0.24	(0.18)	0.69	(0.14)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.94	(13.41)	15.54	(12.90)	14.93	(12.26)	17.95	(13.31)	66.36	(12.99)
In transit, bus	0.35	(0.26)	0.39	(0.32)	0.67	(0.55)	0.27	(0.20)	1.68	(0.33)
In transit, truck	3.39	(2.53)	2.78	(2.31)	3.33	(2.73)	3.04	(2.26)	12.54	(2.45)
In transit, van	0.86	(0.64)	0.97	(0.81)	0.94	(0.77)	0.90	(0.67)	3.68	(0.72)
Indoors, public garage	1.11	(0.83)	0.83	(0.69)	0.54	(0.44)	1.17	(0.87)	3.65	(0.71)
Outdoors, in a parking lot	0.99	(0.74)	1.04	(0.87)	1.21	(0.99)	1.05	(0.78)	4.29	(0.84)
Outdoors, along a roadway	4.99	(3.73)	6.94	(5.76)	7.60	(6.24)	5.90	(4.38)	25.43	(4.98)
In transit, motorcycle	0.00	(0.00)	0.07	(0.06)	0.16	(0.13)	0.00	(0.00)	0.23	(0.04)
Indoors, service station	1.96	(1.47)	0.98	(0.81)	0.56	(0.46)	1.75	(1.30)	5.26	(1.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.32	(0.24)	0.44	(0.37)	0.28	(0.23)	0.46	(0.34)	1.50	(0.29)
Indoors, in a repair shop	1.91	(1.43)	0.30	(0.25)	0.02	(0.02)	1.31	(0.97)	3.54	(0.69)
Indoors, home	66.18	(49.48)	59.81	(49.65)	58.02	(47.65)	68.18	(50.54)	252.18	(49.36)
Indoors, office	13.26	(9.92)	9.51	(7.89)	8.54	(7.02)	12.64	(9.37)	43.96	(8.60)
Indoors, store	2.54	(1.90)	2.20	(1.82)	2.85	(2.34)	2.21	(1.64)	9.79	(1.92)
Indoors, restaurant	3.91	(2.92)	2.65	(2.20)	2.76	(2.27)	3.45	(2.56)	12.77	(2.50)
Indoors, mfg. facility	2.25	(1.69)	3.02	(2.50)	3.95	(3.24)	2.46	(1.83)	11.68	(2.29)
Indoors, school	1.33	(0.99)	0.89	(0.74)	0.60	(0.49)	1.32	(0.98)	4.13	(0.81)
Indoors, church	0.36	(0.27)	0.42	(0.35)	0.35	(0.28)	0.46	(0.34)	1.59	(0.31)
Indoors, shopping mall	0.44	(0.33)	0.26	(0.22)	0.16	(0.13)	0.44	(0.33)	1.31	(0.26)
Indoors, auditorium	0.18	(0.13)	0.04	(0.03)	0.03	(0.03)	0.12	(0.09)	0.37	(0.07)
Indoors, health care facility	0.66	(0.49)	0.75	(0.62)	0.78	(0.64)	0.74	(0.55)	2.92	(0.57)
Indoors, public building	0.35	(0.26)	0.50	(0.42)	0.80	(0.66)	0.29	(0.22)	1.95	(0.38)
Indoors, other location	5.18	(3.87)	4.51	(3.75)	5.53	(4.55)	4.78	(3.54)	20.00	(3.91)
Indoors, not specified	0.73	(0.55)	0.18	(0.15)	0.05	(0.04)	0.58	(0.43)	1.54	(0.30)
Outdoors, construction	0.66	(0.49)	1.01	(0.84)	1.15	(0.95)	0.94	(0.70)	3.76	(0.74)
Outdoors, residential grounds	0.41	(0.31)	1.44	(1.20)	2.08	(1.71)	0.55	(0.41)	4.48	(0.88)
Outdoors, school grounds	0.07	(0.05)	0.10	(0.08)	0.09	(0.07)	0.10	(0.08)	0.37	(0.07)
Outdoors, sports arena	0.05	(0.04)	0.15	(0.12)	0.28	(0.23)	0.04	(0.03)	0.53	(0.10)
Outdoors, park/golf course	0.06	(0.05)	0.35	(0.29)	0.46	(0.38)	0.14	(0.10)	1.02	(0.20)
Outdoors, other location	1.07	(0.80)	2.17	(1.80)	2.71	(2.22)	1.42	(1.05)	7.37	(1.44)
Outdoors, not specified	0.01	(0.01)	0.07	(0.06)	0.14	(0.11)	0.02	(0.01)	0.23	(0.05)
In transit, train	0.26	(0.20)	0.14	(0.12)	0.21	(0.17)	0.18	(0.14)	0.79	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.88	(10.59)	11.08	(10.16)	10.92	(9.87)	12.86	(10.50)	47.74	(10.29)
In transit, bus	1.03	(0.85)	0.38	(0.35)	0.28	(0.25)	0.77	(0.63)	2.46	(0.53)
In transit, truck	1.64	(1.35)	0.21	(0.19)	0.00	(0.00)	1.12	(0.91)	2.97	(0.64)
In transit, van	0.01	(0.01)	0.08	(0.07)	0.09	(0.08)	0.03	(0.02)	0.21	(0.04)
Indoors, public garage	0.03	(0.03)	0.03	(0.02)	0.01	(0.01)	0.04	(0.03)	0.11	(0.02)
Outdoors, in a parking lot	0.35	(0.29)	0.58	(0.53)	0.79	(0.71)	0.40	(0.33)	2.12	(0.46)
Outdoors, along a roadway	3.62	(2.98)	5.11	(4.68)	6.30	(5.70)	3.97	(3.24)	19.00	(4.10)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.15	(0.12)	0.03	(0.02)	0.01	(0.01)	0.10	(0.08)	0.28	(0.06)
Indoors, in a repair shop	0.01	(0.01)	0.04	(0.03)	0.02	(0.02)	0.03	(0.03)	0.10	(0.02)
Indoors, home	89.72	(73.80)	77.33	(70.90)	76.44	(69.10)	90.03	(73.50)	333.52	(71.91)
Indoors, office	0.78	(0.64)	0.36	(0.33)	0.44	(0.39)	0.56	(0.46)	2.13	(0.46)
Indoors, store	2.09	(1.72)	2.48	(2.27)	3.29	(2.98)	1.97	(1.61)	9.84	(2.12)
Indoors, restaurant	2.20	(1.81)	1.80	(1.65)	1.88	(1.70)	2.18	(1.78)	8.06	(1.74)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.27	(1.04)	2.28	(2.09)	1.69	(1.52)	2.22	(1.82)	7.46	(1.61)
Indoors, church	0.33	(0.27)	0.40	(0.37)	0.31	(0.28)	0.43	(0.35)	1.47	(0.32)
Indoors, shopping mall	1.24	(1.02)	0.51	(0.47)	0.75	(0.68)	0.81	(0.66)	3.30	(0.71)
Indoors, auditorium	0.18	(0.15)	0.18	(0.17)	0.16	(0.14)	0.22	(0.18)	0.74	(0.16)
Indoors, health care facility	0.24	(0.20)	0.33	(0.30)	0.37	(0.33)	0.30	(0.25)	1.24	(0.27)
Indoors, public building	0.37	(0.30)	0.19	(0.18)	0.13	(0.12)	0.31	(0.25)	1.00	(0.22)
Indoors, other location	2.69	(2.21)	2.77	(2.54)	2.51	(2.27)	2.94	(2.40)	10.92	(2.35)
Indoors, not specified	0.00	(0.00)	0.02	(0.02)	0.04	(0.04)	0.00	(0.00)	0.06	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.31	(0.26)	1.46	(1.34)	1.95	(1.76)	0.68	(0.56)	4.41	(0.95)
Outdoors, school grounds	0.07	(0.05)	0.27	(0.25)	0.27	(0.25)	0.19	(0.16)	0.80	(0.17)
Outdoors, sports arena	0.19	(0.16)	0.09	(0.08)	0.15	(0.13)	0.13	(0.10)	0.56	(0.12)
Outdoors, park/golf course	0.01	(0.01)	0.44	(0.40)	0.71	(0.64)	0.05	(0.04)	1.21	(0.26)
Outdoors, other location	0.09	(0.07)	0.61	(0.56)	1.10	(0.99)	0.10	(0.08)	1.89	(0.41)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.06	(0.05)	0.01	(0.01)	0.00	(0.00)	0.04	(0.03)	0.10	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.99	(14.07)	13.60	(11.94)	13.18	(11.49)	16.77	(13.08)	61.53	(12.70)
In transit, bus	1.17	(0.92)	0.92	(0.81)	0.85	(0.74)	1.18	(0.92)	4.12	(0.85)
In transit, truck	0.76	(0.60)	0.71	(0.63)	0.65	(0.57)	0.81	(0.63)	2.94	(0.61)
In transit, van	0.01	(0.01)	0.16	(0.14)	0.35	(0.30)	0.01	(0.01)	0.52	(0.11)
Indoors, public garage	0.33	(0.26)	0.14	(0.12)	0.10	(0.09)	0.27	(0.21)	0.84	(0.17)
Outdoors, in a parking lot	0.43	(0.34)	0.68	(0.60)	0.85	(0.74)	0.49	(0.38)	2.45	(0.51)
Outdoors, along a roadway	3.80	(2.97)	4.65	(4.09)	5.66	(4.94)	3.88	(3.02)	17.99	(3.71)
In transit, motorcycle	0.00	(0.00)	0.51	(0.44)	0.98	(0.85)	0.00	(0.00)	1.48	(0.31)
Indoors, service station	0.01	(0.01)	0.02	(0.02)	0.02	(0.01)	0.02	(0.01)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
Indoors, in a repair shop	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, home	68.77	(53.80)	63.81	(56.07)	63.16	(55.05)	71.04	(55.40)	266.78	(55.04)
Indoors, office	13.62	(10.65)	10.95	(9.62)	11.00	(9.59)	13.40	(10.45)	48.97	(10.10)
Indoors, store	3.50	(2.74)	3.27	(2.87)	3.21	(2.80)	3.60	(2.80)	13.58	(2.80)
Indoors, restaurant	4.78	(3.74)	3.13	(2.75)	3.32	(2.90)	4.24	(3.31)	15.48	(3.19)
Indoors, mfg. facility	0.94	(0.74)	0.91	(0.80)	0.80	(0.70)	1.08	(0.84)	3.73	(0.77)
Indoors, school	3.43	(2.68)	2.22	(1.95)	1.45	(1.27)	3.44	(2.68)	10.55	(2.18)
Indoors, church	0.50	(0.39)	0.51	(0.44)	0.41	(0.36)	0.58	(0.45)	1.99	(0.41)
Indoors, shopping mall	1.12	(0.87)	0.64	(0.56)	0.38	(0.33)	1.04	(0.81)	3.18	(0.66)
Indoors, auditorium	0.08	(0.06)	0.08	(0.07)	0.08	(0.07)	0.09	(0.07)	0.33	(0.07)
Indoors, health care facility	1.51	(1.18)	1.15	(1.01)	1.01	(0.88)	1.50	(1.17)	5.17	(1.07)
Indoors, public building	0.31	(0.24)	0.28	(0.25)	0.31	(0.27)	0.30	(0.23)	1.20	(0.25)
Indoors, other location	4.37	(3.42)	3.05	(2.68)	3.11	(2.71)	3.91	(3.05)	14.45	(2.98)
Indoors, not specified	0.05	(0.04)	0.03	(0.03)	0.02	(0.01)	0.05	(0.04)	0.15	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.16	(0.13)	1.13	(0.99)	1.73	(1.51)	0.27	(0.21)	3.29	(0.68)
Outdoors, school grounds	0.04	(0.03)	0.17	(0.15)	0.27	(0.24)	0.08	(0.06)	0.56	(0.12)
Outdoors, sports arena	0.00	(0.00)	0.18	(0.16)	0.33	(0.29)	0.01	(0.01)	0.52	(0.11)
Outdoors, park/golf course	0.03	(0.02)	0.22	(0.19)	0.35	(0.31)	0.05	(0.04)	0.64	(0.13)
Outdoors, other location	0.06	(0.05)	0.64	(0.56)	1.08	(0.94)	0.06	(0.04)	1.84	(0.38)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.04	(0.03)	0.06	(0.06)	0.04	(0.03)	0.08	(0.06)	0.22	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.76	(9.81)	11.00	(9.92)	11.95	(10.14)	12.05	(9.95)	46.76	(9.96)
In transit, bus	1.05	(0.87)	2.36	(2.13)	5.01	(4.25)	0.75	(0.62)	9.17	(1.95)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.04	(0.04)	0.26	(0.23)	0.18	(0.15)	0.18	(0.15)	0.66	(0.14)
Indoors, public garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.67	(0.56)	1.82	(1.64)	2.96	(2.51)	0.80	(0.66)	6.25	(1.33)
Outdoors, along a roadway	2.75	(2.29)	4.14	(3.73)	4.80	(4.07)	3.22	(2.66)	14.90	(3.17)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.37	(0.31)	0.84	(0.75)	0.53	(0.45)	0.74	(0.61)	2.48	(0.53)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	91.19	(76.10)	73.33	(66.13)	69.23	(58.76)	90.94	(75.07)	324.69	(69.13)
Indoors, office	0.55	(0.46)	0.19	(0.17)	0.12	(0.10)	0.40	(0.33)	1.26	(0.27)
Indoors, store	1.60	(1.34)	1.65	(1.49)	1.94	(1.64)	1.49	(1.23)	6.68	(1.42)
Indoors, restaurant	1.80	(1.51)	0.59	(0.53)	0.36	(0.31)	1.31	(1.08)	4.06	(0.86)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.37	(0.31)	1.38	(1.24)	0.88	(0.75)	1.17	(0.96)	3.79	(0.81)
Indoors, church	0.32	(0.27)	0.39	(0.35)	0.22	(0.19)	0.45	(0.37)	1.37	(0.29)
Indoors, shopping mall	2.77	(2.32)	0.25	(0.22)	0.00	(0.00)	2.05	(1.69)	5.08	(1.08)
Indoors, auditorium	0.09	(0.08)	0.11	(0.10)	0.24	(0.20)	0.06	(0.05)	0.50	(0.11)
Indoors, health care facility	0.98	(0.82)	1.50	(1.35)	0.90	(0.77)	1.74	(1.43)	5.12	(1.09)
Indoors, public building	0.11	(0.09)	0.14	(0.13)	0.22	(0.19)	0.07	(0.06)	0.54	(0.11)
Indoors, other location	2.37	(1.98)	4.26	(3.84)	6.95	(5.90)	2.51	(2.08)	16.10	(3.43)
Indoors, not specified	0.29	(0.24)	0.05	(0.04)	0.00	(0.00)	0.18	(0.15)	0.52	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.52	(0.44)	4.95	(4.46)	7.68	(6.52)	0.89	(0.73)	14.04	(2.99)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.21	(0.19)	0.48	(0.41)	0.00	(0.00)	0.69	(0.15)
Outdoors, park/golf course	0.20	(0.17)	0.20	(0.18)	0.33	(0.28)	0.14	(0.11)	0.87	(0.18)
Outdoors, other location	0.00	(0.00)	1.28	(1.16)	2.86	(2.43)	0.00	(0.00)	4.14	(0.88)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.27	(15.06)	17.26	(14.37)	16.87	(13.86)	20.10	(14.78)	74.50	(14.54)
In transit, bus	3.00	(2.23)	1.16	(0.97)	0.68	(0.56)	2.39	(1.75)	7.23	(1.41)
In transit, truck	2.92	(2.17)	3.23	(2.69)	2.67	(2.19)	3.72	(2.73)	12.53	(2.45)
In transit, van	0.30	(0.22)	1.05	(0.87)	1.87	(1.53)	0.40	(0.29)	3.61	(0.70)
Indoors, public garage	0.19	(0.14)	0.31	(0.26)	0.20	(0.16)	0.35	(0.26)	1.05	(0.21)
Outdoors, in a parking lot	0.73	(0.54)	0.70	(0.58)	0.72	(0.59)	0.77	(0.57)	2.92	(0.57)
Outdoors, along a roadway	5.08	(3.78)	5.82	(4.84)	7.29	(5.99)	5.06	(3.72)	23.25	(4.54)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.95	(0.71)	0.35	(0.29)	0.14	(0.12)	0.76	(0.56)	2.21	(0.43)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.02)	0.03	(0.02)	0.05	(0.04)	0.01	(0.01)	0.11	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	62.63	(46.54)	56.72	(47.21)	54.83	(45.04)	65.53	(48.16)	239.71	(46.78)
Indoors, office	16.92	(12.58)	12.32	(10.25)	12.92	(10.62)	15.22	(11.18)	57.39	(11.20)
Indoors, store	3.96	(2.94)	2.58	(2.15)	1.90	(1.56)	3.78	(2.78)	12.23	(2.39)
Indoors, restaurant	3.10	(2.31)	2.86	(2.38)	2.89	(2.37)	3.10	(2.28)	11.96	(2.33)
Indoors, mfg. facility	1.21	(0.90)	3.86	(3.21)	5.36	(4.40)	2.02	(1.48)	12.45	(2.43)
Indoors, school	0.38	(0.28)	1.46	(1.21)	1.98	(1.63)	0.89	(0.65)	4.71	(0.92)
Indoors, church	0.59	(0.44)	0.61	(0.51)	0.60	(0.49)	0.62	(0.45)	2.42	(0.47)
Indoors, shopping mall	1.19	(0.89)	0.28	(0.23)	0.34	(0.28)	0.85	(0.62)	2.66	(0.52)
Indoors, auditorium	0.09	(0.06)	0.03	(0.02)	0.04	(0.03)	0.06	(0.04)	0.21	(0.04)
Indoors, health care facility	0.95	(0.70)	0.23	(0.19)	0.10	(0.08)	0.66	(0.49)	1.94	(0.38)
Indoors, public building	0.18	(0.13)	0.74	(0.62)	1.24	(1.02)	0.27	(0.20)	2.43	(0.47)
Indoors, other location	7.48	(5.56)	4.98	(4.15)	3.64	(2.99)	7.41	(5.44)	23.51	(4.59)
Indoors, not specified	0.90	(0.67)	0.20	(0.17)	0.05	(0.04)	0.62	(0.46)	1.78	(0.35)
Outdoors, construction	0.00	(0.00)	0.30	(0.25)	0.51	(0.42)	0.00	(0.00)	0.81	(0.16)
Outdoors, residential grounds	0.16	(0.12)	1.87	(1.56)	3.32	(2.73)	0.22	(0.16)	5.57	(1.09)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.15	(0.11)	0.46	(0.38)	0.59	(0.49)	0.22	(0.16)	1.42	(0.28)
Outdoors, other location	1.10	(0.82)	0.71	(0.59)	0.90	(0.74)	0.98	(0.72)	3.69	(0.72)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.10	(0.08)	0.02	(0.01)	0.00	(0.00)	0.07	(0.05)	0.19	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in µg/m³-year, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.42	(9.54)	8.67	(8.16)	9.49	(8.69)	9.91	(8.29)	39.49	(8.69)
In transit, bus	0.46	(0.39)	0.27	(0.25)	0.26	(0.24)	0.38	(0.32)	1.37	(0.30)
In transit, truck	1.00	(0.84)	0.11	(0.10)	0.00	(0.00)	0.66	(0.55)	1.76	(0.39)
In transit, van	0.09	(0.07)	0.35	(0.33)	0.22	(0.20)	0.27	(0.23)	0.93	(0.20)
Indoors, public garage	0.07	(0.06)	0.02	(0.02)	0.00	(0.00)	0.06	(0.05)	0.16	(0.03)
Outdoors, in a parking lot	0.29	(0.24)	0.55	(0.52)	0.80	(0.74)	0.32	(0.27)	1.97	(0.43)
Outdoors, along a roadway	4.55	(3.80)	3.73	(3.51)	4.49	(4.11)	3.84	(3.22)	16.62	(3.66)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.02)	0.01	(0.01)	0.02	(0.01)	0.01	(0.01)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	92.21	(77.02)	81.17	(76.38)	79.69	(72.98)	94.42	(79.03)	347.49	(76.43)
Indoors, office	0.42	(0.35)	0.32	(0.31)	0.27	(0.25)	0.41	(0.35)	1.43	(0.32)
Indoors, store	1.94	(1.62)	1.62	(1.52)	1.77	(1.62)	1.82	(1.53)	7.15	(1.57)
Indoors, restaurant	1.44	(1.21)	1.76	(1.66)	1.97	(1.80)	1.56	(1.30)	6.74	(1.48)
Indoors, mfg. facility	0.00	(0.00)	0.02	(0.01)	0.04	(0.03)	0.00	(0.00)	0.05	(0.01)
Indoors, school	0.26	(0.22)	0.29	(0.27)	0.27	(0.25)	0.30	(0.25)	1.11	(0.25)
Indoors, church	0.53	(0.44)	0.68	(0.64)	0.57	(0.52)	0.70	(0.59)	2.48	(0.55)
Indoors, shopping mall	1.21	(1.01)	0.86	(0.81)	0.84	(0.77)	1.00	(0.84)	3.92	(0.86)
Indoors, auditorium	0.05	(0.04)	0.02	(0.01)	0.02	(0.02)	0.03	(0.03)	0.11	(0.03)
Indoors, health care facility	0.46	(0.38)	0.62	(0.58)	0.98	(0.90)	0.41	(0.34)	2.47	(0.54)
Indoors, public building	0.06	(0.05)	0.20	(0.19)	0.18	(0.17)	0.15	(0.13)	0.59	(0.13)
Indoors, other location	2.13	(1.78)	2.18	(2.05)	2.92	(2.67)	2.03	(1.70)	9.27	(2.04)
Indoors, not specified	0.30	(0.25)	0.05	(0.05)	0.00	(0.00)	0.19	(0.16)	0.54	(0.12)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.64	(0.53)	2.02	(1.90)	2.95	(2.70)	0.86	(0.72)	6.46	(1.42)
Outdoors, school grounds	0.05	(0.04)	0.01	(0.01)	0.00	(0.00)	0.03	(0.02)	0.09	(0.02)
Outdoors, sports arena	0.00	(0.00)	0.11	(0.11)	0.26	(0.24)	0.00	(0.00)	0.37	(0.08)
Outdoors, park/golf course	0.00	(0.00)	0.37	(0.34)	0.74	(0.67)	0.00	(0.00)	1.10	(0.24)
Outdoors, other location	0.01	(0.01)	0.24	(0.22)	0.42	(0.39)	0.03	(0.02)	0.70	(0.15)
Outdoors, not specified	0.11	(0.10)	0.02	(0.02)	0.00	(0.00)	0.07	(0.06)	0.20	(0.04)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.64	(12.44)	12.34	(10.93)	13.38	(11.59)	14.31	(11.29)	55.67	(11.58)
In transit, bus	1.66	(1.32)	0.92	(0.81)	0.75	(0.65)	1.42	(1.12)	4.74	(0.99)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.51	(0.40)	0.17	(0.15)	0.05	(0.05)	0.43	(0.34)	1.16	(0.24)
Indoors, public garage	0.05	(0.04)	0.03	(0.03)	0.02	(0.01)	0.05	(0.04)	0.15	(0.03)
Outdoors, in a parking lot	0.63	(0.50)	0.75	(0.66)	1.01	(0.87)	0.60	(0.48)	2.98	(0.62)
Outdoors, along a roadway	4.44	(3.53)	4.15	(3.68)	4.70	(4.07)	4.14	(3.26)	17.43	(3.63)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.01	(0.01)	0.04	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	71.84	(57.14)	64.32	(56.98)	63.37	(54.90)	73.66	(58.10)	273.18	(56.82)
Indoors, office	13.36	(10.62)	9.86	(8.74)	8.44	(7.32)	13.28	(10.47)	44.94	(9.35)
Indoors, store	2.42	(1.93)	2.81	(2.49)	3.29	(2.85)	2.59	(2.04)	11.11	(2.31)
Indoors, restaurant	3.42	(2.72)	3.88	(3.44)	3.40	(2.95)	4.09	(3.23)	14.79	(3.08)
Indoors, mfg. facility	0.00	(0.00)	2.58	(2.29)	5.70	(4.94)	0.00	(0.00)	8.28	(1.72)
Indoors, school	2.96	(2.36)	1.75	(1.55)	1.09	(0.94)	2.86	(2.25)	8.65	(1.80)
Indoors, church	0.71	(0.57)	0.63	(0.55)	0.71	(0.61)	0.67	(0.52)	2.71	(0.56)
Indoors, shopping mall	0.66	(0.52)	1.19	(1.05)	0.92	(0.80)	1.05	(0.83)	3.81	(0.79)
Indoors, auditorium	0.01	(0.01)	0.04	(0.03)	0.02	(0.02)	0.03	(0.02)	0.10	(0.02)
Indoors, health care facility	1.52	(1.21)	1.72	(1.52)	1.55	(1.35)	1.84	(1.45)	6.64	(1.38)
Indoors, public building	0.21	(0.17)	0.11	(0.10)	0.11	(0.10)	0.16	(0.12)	0.59	(0.12)
Indoors, other location	5.38	(4.28)	4.14	(3.67)	4.75	(4.12)	5.05	(3.98)	19.32	(4.02)
Indoors, not specified	0.00	(0.00)	0.09	(0.08)	0.14	(0.12)	0.01	(0.01)	0.25	(0.05)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.17	(0.13)	1.05	(0.93)	1.57	(1.36)	0.36	(0.28)	3.15	(0.65)
Outdoors, school grounds	0.03	(0.02)	0.12	(0.10)	0.12	(0.10)	0.08	(0.07)	0.35	(0.07)
Outdoors, sports arena	0.06	(0.05)	0.08	(0.07)	0.12	(0.10)	0.04	(0.03)	0.29	(0.06)
Outdoors, park/golf course	0.03	(0.03)	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.06	(0.01)
Outdoors, other location	0.01	(0.01)	0.14	(0.12)	0.19	(0.16)	0.04	(0.03)	0.38	(0.08)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3$ -year, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.48	(14.16)	16.38	(14.29)	15.00	(12.85)	18.41	(14.61)	67.27	(13.99)
In transit, bus	0.31	(0.25)	0.94	(0.82)	0.58	(0.50)	0.92	(0.73)	2.75	(0.57)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, public garage	0.02	(0.02)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
Outdoors, in a parking lot	0.43	(0.35)	1.24	(1.09)	1.88	(1.61)	0.58	(0.46)	4.14	(0.86)
Outdoors, along a roadway	2.93	(2.38)	6.80	(5.94)	9.06	(7.77)	3.65	(2.89)	22.45	(4.67)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.08	(0.07)	0.17	(0.14)	0.00	(0.00)	0.24	(0.05)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.02	(0.01)	0.02	(0.02)	0.01	(0.01)	0.06	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, home	85.90	(69.58)	72.55	(63.31)	72.98	(62.53)	85.76	(68.08)	317.19	(65.97)
Indoors, office	4.07	(3.30)	2.90	(2.53)	1.78	(1.53)	4.07	(3.23)	12.83	(2.67)
Indoors, store	1.10	(0.89)	0.97	(0.84)	1.18	(1.01)	0.94	(0.74)	4.18	(0.87)
Indoors, restaurant	2.30	(1.87)	2.87	(2.50)	2.61	(2.24)	2.71	(2.15)	10.49	(2.18)
Indoors, mfg. facility	1.15	(0.93)	0.74	(0.65)	0.36	(0.31)	1.22	(0.97)	3.47	(0.72)
Indoors, school	0.73	(0.59)	0.25	(0.22)	0.26	(0.22)	0.47	(0.37)	1.71	(0.36)
Indoors, church	0.56	(0.45)	0.70	(0.61)	0.50	(0.43)	0.75	(0.60)	2.51	(0.52)
Indoors, shopping mall	1.95	(1.58)	1.13	(0.99)	1.60	(1.37)	1.23	(0.98)	5.91	(1.23)
Indoors, auditorium	0.23	(0.19)	0.40	(0.35)	0.25	(0.21)	0.40	(0.32)	1.27	(0.26)
Indoors, health care facility	0.15	(0.12)	0.44	(0.38)	0.66	(0.56)	0.21	(0.16)	1.45	(0.30)
Indoors, public building	0.11	(0.09)	0.24	(0.21)	0.43	(0.37)	0.09	(0.07)	0.87	(0.18)
Indoors, other location	1.14	(0.93)	1.46	(1.28)	0.89	(0.76)	1.70	(1.35)	5.20	(1.08)
Indoors, not specified	0.00	(0.00)	0.18	(0.15)	0.40	(0.34)	0.00	(0.00)	0.58	(0.12)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.69	(1.37)	3.24	(2.83)	5.34	(4.57)	1.57	(1.24)	11.84	(2.46)
Outdoors, school grounds	0.09	(0.08)	0.25	(0.22)	0.15	(0.13)	0.27	(0.21)	0.77	(0.16)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.63	(0.51)	0.47	(0.41)	0.23	(0.20)	0.66	(0.52)	1.99	(0.41)
Outdoors, other location	0.00	(0.00)	0.18	(0.16)	0.32	(0.27)	0.00	(0.00)	0.50	(0.10)
Outdoors, not specified	0.02	(0.02)	0.07	(0.06)	0.04	(0.04)	0.06	(0.05)	0.21	(0.04)
In transit, train	0.43	(0.35)	0.08	(0.07)	0.00	(0.00)	0.29	(0.23)	0.80	(0.17)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3$ -year, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.50	(8.79)	8.81	(8.21)	9.55	(8.77)	9.59	(7.97)	38.45	(8.43)
In transit, bus	0.08	(0.07)	0.34	(0.31)	0.30	(0.27)	0.24	(0.20)	0.96	(0.21)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.17	(0.14)	0.03	(0.03)	0.00	(0.00)	0.11	(0.09)	0.31	(0.07)
Indoors, public garage	0.04	(0.03)	0.04	(0.03)	0.05	(0.05)	0.03	(0.03)	0.17	(0.04)
Outdoors, in a parking lot	0.15	(0.13)	0.31	(0.29)	0.49	(0.45)	0.15	(0.12)	1.10	(0.24)
Outdoors, along a roadway	3.85	(3.22)	3.68	(3.42)	4.83	(4.44)	3.22	(2.67)	15.57	(3.41)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.02	(0.02)	0.04	(0.04)	0.00	(0.00)	0.06	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	91.96	(76.98)	84.05	(78.27)	83.16	(76.36)	95.15	(79.02)	354.32	(77.67)
Indoors, office	1.23	(1.03)	0.33	(0.31)	0.23	(0.21)	0.84	(0.70)	2.63	(0.58)
Indoors, store	1.10	(0.92)	1.64	(1.53)	2.63	(2.42)	0.89	(0.74)	6.27	(1.37)
Indoors, restaurant	1.55	(1.29)	1.67	(1.55)	1.69	(1.55)	1.62	(1.34)	6.52	(1.43)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.04	(0.04)	0.09	(0.08)	0.00	(0.00)	0.13	(0.03)
Indoors, church	1.41	(1.18)	0.89	(0.83)	0.67	(0.62)	1.54	(1.27)	4.51	(0.99)
Indoors, shopping mall	0.54	(0.45)	1.73	(1.62)	1.08	(0.99)	1.59	(1.32)	4.94	(1.08)
Indoors, auditorium	0.02	(0.01)	0.05	(0.04)	0.03	(0.03)	0.04	(0.03)	0.13	(0.03)
Indoors, health care facility	0.96	(0.80)	0.35	(0.33)	0.23	(0.21)	0.75	(0.63)	2.29	(0.50)
Indoors, public building	0.14	(0.12)	0.26	(0.24)	0.29	(0.26)	0.20	(0.17)	0.89	(0.19)
Indoors, other location	5.50	(4.61)	1.80	(1.68)	1.02	(0.93)	4.17	(3.46)	12.49	(2.74)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.23	(0.19)	0.95	(0.88)	1.86	(1.71)	0.20	(0.17)	3.24	(0.71)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.02	(0.02)	0.17	(0.16)	0.17	(0.16)	0.09	(0.08)	0.46	(0.10)
Outdoors, park/golf course	0.00	(0.00)	0.09	(0.08)	0.19	(0.18)	0.00	(0.00)	0.28	(0.06)
Outdoors, other location	0.00	(0.00)	0.14	(0.13)	0.30	(0.27)	0.00	(0.00)	0.43	(0.10)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.45	(7.43)	7.70	(5.70)	7.05	(5.00)	10.72	(7.00)	36.92	(6.33)
In transit, bus	0.00	(0.00)	0.34	(0.26)	0.83	(0.59)	0.00	(0.00)	1.17	(0.20)
In transit, truck	12.83	(8.33)	11.97	(8.86)	15.42	(10.94)	11.49	(7.51)	51.71	(8.87)
In transit, van	1.21	(0.78)	0.22	(0.17)	0.00	(0.00)	0.82	(0.53)	2.25	(0.39)
Indoors, public garage	2.72	(1.77)	1.82	(1.35)	0.91	(0.65)	2.94	(1.92)	8.40	(1.44)
Outdoors, in a parking lot	0.77	(0.50)	1.66	(1.23)	1.59	(1.13)	1.47	(0.96)	5.49	(0.94)
Outdoors, along a roadway	17.22	(11.18)	20.59	(15.23)	23.69	(16.81)	18.52	(12.10)	80.02	(13.72)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	7.93	(5.15)	1.77	(1.31)	0.65	(0.46)	5.53	(3.61)	15.87	(2.72)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.30	(0.85)	0.13	(0.09)	0.02	(0.02)	0.97	(0.64)	2.43	(0.42)
Indoors, in a repair shop	0.00	(0.00)	0.14	(0.10)	0.33	(0.24)	0.00	(0.00)	0.47	(0.08)
Indoors, home	56.84	(36.90)	51.95	(38.45)	49.66	(35.24)	59.66	(38.96)	218.11	(37.39)
Indoors, office	4.03	(2.62)	2.49	(1.84)	3.47	(2.46)	3.03	(1.98)	13.02	(2.23)
Indoors, store	1.07	(0.69)	0.33	(0.25)	0.23	(0.17)	0.84	(0.55)	2.47	(0.42)
Indoors, restaurant	3.90	(2.53)	1.82	(1.35)	1.09	(0.78)	3.01	(1.97)	9.83	(1.68)
Indoors, mfg. facility	0.56	(0.36)	3.46	(2.56)	4.56	(3.24)	1.61	(1.05)	10.19	(1.75)
Indoors, school	0.23	(0.15)	0.67	(0.50)	0.43	(0.30)	0.65	(0.43)	1.98	(0.34)
Indoors, church	1.35	(0.87)	0.41	(0.30)	0.20	(0.14)	1.19	(0.78)	3.14	(0.54)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.16	(0.10)	0.30	(0.22)	0.61	(0.43)	0.11	(0.07)	1.18	(0.20)
Indoors, health care facility	0.00	(0.00)	0.20	(0.15)	0.38	(0.27)	0.00	(0.00)	0.58	(0.10)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	6.01	(3.90)	1.56	(1.15)	0.72	(0.51)	4.51	(2.95)	12.80	(2.19)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	8.11	(5.27)	11.10	(8.21)	15.83	(11.23)	8.90	(5.81)	43.94	(7.54)
Outdoors, residential grounds	0.67	(0.44)	1.43	(1.06)	1.43	(1.02)	1.23	(0.81)	4.77	(0.82)
Outdoors, school grounds	0.03	(0.02)	0.08	(0.06)	0.05	(0.03)	0.07	(0.05)	0.23	(0.04)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.11	(0.07)	0.43	(0.31)	0.31	(0.22)	0.35	(0.23)	1.19	(0.20)
Outdoors, other location	15.53	(10.08)	12.59	(9.31)	11.46	(8.13)	15.46	(10.10)	55.04	(9.44)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in µg/m³-year, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.02	(4.60)	7.56	(6.48)	8.54	(7.15)	6.73	(5.11)	28.86	(5.78)
In transit, bus	4.86	(3.71)	3.00	(2.57)	1.85	(1.55)	4.85	(3.68)	14.57	(2.92)
In transit, truck	0.01	(0.01)	0.19	(0.16)	0.28	(0.23)	0.06	(0.05)	0.54	(0.11)
In transit, van	0.44	(0.34)	0.25	(0.21)	0.26	(0.22)	0.33	(0.25)	1.28	(0.26)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.76	(0.58)	0.56	(0.48)	0.63	(0.53)	0.70	(0.53)	2.65	(0.53)
Outdoors, along a roadway	15.15	(11.57)	14.03	(12.02)	16.50	(13.81)	13.79	(10.46)	59.46	(11.92)
In transit, motorcycle	0.52	(0.40)	0.12	(0.10)	0.03	(0.03)	0.36	(0.27)	1.03	(0.21)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.05	(0.04)	0.06	(0.05)	0.03	(0.02)	0.15	(0.03)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	65.52	(50.05)	60.94	(52.22)	63.94	(53.53)	67.57	(51.26)	257.98	(51.71)
Indoors, office	0.27	(0.21)	0.20	(0.17)	0.29	(0.24)	0.20	(0.15)	0.96	(0.19)
Indoors, store	1.61	(1.23)	1.12	(0.96)	1.26	(1.05)	1.39	(1.05)	5.38	(1.08)
Indoors, restaurant	0.45	(0.34)	1.12	(0.96)	1.19	(1.00)	0.80	(0.61)	3.56	(0.71)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	25.00	(19.10)	14.86	(12.74)	8.77	(7.34)	24.36	(18.48)	72.99	(14.63)
Indoors, church	0.70	(0.53)	0.48	(0.41)	0.45	(0.38)	0.67	(0.51)	2.30	(0.46)
Indoors, shopping mall	1.13	(0.87)	0.62	(0.53)	0.56	(0.47)	1.01	(0.77)	3.32	(0.67)
Indoors, auditorium	0.02	(0.02)	0.09	(0.08)	0.08	(0.07)	0.07	(0.05)	0.26	(0.05)
Indoors, health care facility	0.29	(0.22)	0.41	(0.35)	0.27	(0.23)	0.41	(0.31)	1.38	(0.28)
Indoors, public building	0.34	(0.26)	0.32	(0.27)	0.31	(0.26)	0.37	(0.28)	1.34	(0.27)
Indoors, other location	1.01	(0.77)	0.85	(0.73)	0.81	(0.68)	1.03	(0.78)	3.70	(0.74)
Indoors, not specified	0.00	(0.00)	0.03	(0.02)	0.06	(0.05)	0.00	(0.00)	0.09	(0.02)
Outdoors, construction	0.00	(0.00)	0.10	(0.08)	0.23	(0.19)	0.00	(0.00)	0.33	(0.07)
Outdoors, residential grounds	2.76	(2.11)	3.97	(3.41)	5.71	(4.78)	2.69	(2.04)	15.14	(3.03)
Outdoors, school grounds	3.55	(2.71)	3.07	(2.63)	2.33	(1.95)	3.83	(2.90)	12.79	(2.56)
Outdoors, sports arena	0.33	(0.25)	0.48	(0.41)	0.58	(0.49)	0.38	(0.29)	1.78	(0.36)
Outdoors, park/golf course	0.09	(0.07)	0.72	(0.61)	1.29	(1.08)	0.12	(0.09)	2.22	(0.45)
Outdoors, other location	0.01	(0.01)	1.54	(1.32)	3.16	(2.65)	0.05	(0.04)	4.77	(0.96)
Outdoors, not specified	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3$ -year, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.35	(6.28)	7.62	(7.05)	9.65	(8.68)	7.24	(6.07)	31.87	(6.99)
In transit, bus	1.29	(1.10)	1.34	(1.24)	0.78	(0.70)	1.74	(1.46)	5.15	(1.13)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.11	(0.10)	0.51	(0.47)	0.33	(0.30)	0.36	(0.30)	1.31	(0.29)
Indoors, public garage	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.01)
Outdoors, in a parking lot	0.38	(0.33)	0.43	(0.40)	0.58	(0.52)	0.38	(0.32)	1.77	(0.39)
Outdoors, along a roadway	3.85	(3.29)	4.48	(4.15)	6.30	(5.67)	3.49	(2.93)	18.13	(3.98)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.04	(0.03)	0.08	(0.08)	0.00	(0.00)	0.12	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.14	(0.12)	0.09	(0.08)	0.07	(0.07)	0.13	(0.11)	0.43	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	87.28	(74.58)	76.24	(70.52)	75.28	(67.68)	87.86	(73.70)	326.67	(71.71)
Indoors, office	4.28	(3.66)	3.42	(3.17)	3.04	(2.73)	4.31	(3.62)	15.05	(3.30)
Indoors, store	1.39	(1.19)	1.30	(1.20)	1.75	(1.57)	1.21	(1.01)	5.64	(1.24)
Indoors, restaurant	2.90	(2.48)	1.98	(1.83)	1.93	(1.74)	2.64	(2.22)	9.46	(2.08)
Indoors, mfg. facility	1.11	(0.95)	1.53	(1.42)	1.82	(1.64)	1.40	(1.18)	5.87	(1.29)
Indoors, school	4.10	(3.50)	3.35	(3.10)	2.44	(2.19)	4.64	(3.89)	14.53	(3.19)
Indoors, church	0.76	(0.65)	0.86	(0.80)	0.59	(0.53)	1.00	(0.84)	3.22	(0.71)
Indoors, shopping mall	0.14	(0.12)	0.70	(0.64)	0.69	(0.62)	0.40	(0.33)	1.91	(0.42)
Indoors, auditorium	0.01	(0.01)	0.02	(0.02)	0.01	(0.01)	0.02	(0.02)	0.07	(0.02)
Indoors, health care facility	0.64	(0.55)	0.42	(0.39)	0.41	(0.37)	0.60	(0.50)	2.07	(0.45)
Indoors, public building	0.04	(0.03)	0.13	(0.12)	0.20	(0.18)	0.04	(0.04)	0.41	(0.09)
Indoors, other location	0.08	(0.07)	0.59	(0.55)	0.99	(0.89)	0.15	(0.12)	1.81	(0.40)
Indoors, not specified	0.08	(0.07)	0.15	(0.13)	0.29	(0.26)	0.06	(0.05)	0.57	(0.13)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.51	(0.44)	1.90	(1.75)	2.73	(2.45)	0.77	(0.65)	5.90	(1.30)
Outdoors, school grounds	0.30	(0.26)	0.51	(0.47)	0.31	(0.28)	0.57	(0.48)	1.70	(0.37)
Outdoors, sports arena	0.00	(0.00)	0.06	(0.06)	0.12	(0.11)	0.01	(0.00)	0.19	(0.04)
Outdoors, park/golf course	0.26	(0.22)	0.09	(0.08)	0.08	(0.07)	0.16	(0.13)	0.58	(0.13)
Outdoors, other location	0.01	(0.01)	0.35	(0.32)	0.72	(0.65)	0.03	(0.02)	1.11	(0.24)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Chicago: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.08	(11.87)	11.77	(10.33)	11.60	(10.02)	14.25	(11.15)	52.70	(10.88)
In transit, bus	1.33	(1.05)	1.02	(0.90)	0.86	(0.75)	1.35	(1.06)	4.57	(0.94)
In transit, truck	1.41	(1.11)	1.02	(0.90)	1.06	(0.91)	1.30	(1.01)	4.78	(0.99)
In transit, van	0.35	(0.27)	0.52	(0.46)	0.52	(0.45)	0.43	(0.33)	1.81	(0.37)
Indoors, public garage	0.34	(0.27)	0.21	(0.18)	0.13	(0.11)	0.33	(0.26)	1.01	(0.21)
Outdoors, in a parking lot	0.56	(0.44)	0.70	(0.62)	0.87	(0.76)	0.59	(0.46)	2.73	(0.56)
Outdoors, along a roadway	4.93	(3.88)	6.67	(5.86)	8.22	(7.11)	5.24	(4.10)	25.06	(5.17)
In transit, motorcycle	0.02	(0.02)	0.09	(0.08)	0.16	(0.14)	0.02	(0.01)	0.29	(0.06)
Indoors, service station	0.49	(0.38)	0.22	(0.19)	0.12	(0.10)	0.41	(0.32)	1.24	(0.26)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.09	(0.07)	0.11	(0.09)	0.08	(0.07)	0.12	(0.09)	0.40	(0.08)
Indoors, in a repair shop	0.41	(0.32)	0.07	(0.06)	0.01	(0.01)	0.28	(0.22)	0.77	(0.16)
Indoors, home	74.26	(58.44)	67.18	(58.98)	67.12	(58.01)	76.19	(59.59)	284.75	(58.77)
Indoors, office	8.55	(6.73)	5.42	(4.76)	4.52	(3.90)	7.81	(6.11)	26.30	(5.43)
Indoors, store	2.45	(1.92)	2.11	(1.85)	2.29	(1.98)	2.30	(1.80)	9.14	(1.89)
Indoors, restaurant	3.09	(2.43)	2.26	(1.99)	2.26	(1.96)	2.85	(2.23)	10.47	(2.16)
Indoors, mfg. facility	0.80	(0.63)	1.11	(0.98)	1.42	(1.23)	0.88	(0.69)	4.22	(0.87)
Indoors, school	4.55	(3.58)	3.99	(3.50)	3.07	(2.65)	5.09	(3.98)	16.69	(3.45)
Indoors, church	0.48	(0.38)	0.48	(0.42)	0.43	(0.37)	0.55	(0.43)	1.94	(0.40)
Indoors, shopping mall	0.90	(0.71)	0.61	(0.54)	0.53	(0.46)	0.84	(0.66)	2.89	(0.60)
Indoors, auditorium	0.10	(0.08)	0.09	(0.08)	0.09	(0.08)	0.10	(0.08)	0.38	(0.08)
Indoors, health care facility	0.87	(0.68)	0.71	(0.62)	0.63	(0.54)	0.87	(0.68)	3.07	(0.63)
Indoors, public building	0.25	(0.20)	0.29	(0.26)	0.37	(0.32)	0.25	(0.20)	1.16	(0.24)
Indoors, other location	3.90	(3.07)	2.81	(2.47)	2.82	(2.44)	3.59	(2.81)	13.12	(2.71)
Indoors, not specified	0.25	(0.20)	0.08	(0.07)	0.06	(0.05)	0.19	(0.15)	0.58	(0.12)
Outdoors, construction	0.12	(0.10)	0.21	(0.19)	0.27	(0.24)	0.17	(0.13)	0.78	(0.16)
Outdoors, residential grounds	0.59	(0.46)	2.03	(1.78)	3.08	(2.66)	0.78	(0.61)	6.48	(1.34)
Outdoors, school grounds	0.34	(0.26)	0.53	(0.47)	0.56	(0.48)	0.45	(0.35)	1.88	(0.39)
Outdoors, sports arena	0.06	(0.05)	0.16	(0.14)	0.26	(0.22)	0.06	(0.05)	0.53	(0.11)
Outdoors, park/golf course	0.07	(0.05)	0.39	(0.34)	0.63	(0.54)	0.10	(0.08)	1.18	(0.24)
Outdoors, other location	0.32	(0.25)	0.97	(0.85)	1.59	(1.37)	0.35	(0.28)	3.23	(0.67)
Outdoors, not specified	0.01	(0.01)	0.03	(0.03)	0.04	(0.03)	0.02	(0.01)	0.10	(0.02)
In transit, train	0.09	(0.07)	0.04	(0.04)	0.04	(0.04)	0.07	(0.06)	0.25	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.52	(8.98)	9.14	(9.32)	11.22	(9.88)	16.43	(9.31)	52.32	(9.33)
In transit, bus	2.70	(1.56)	1.02	(1.04)	0.77	(0.67)	2.53	(1.44)	7.02	(1.25)
In transit, truck	0.75	(0.43)	0.77	(0.79)	0.99	(0.88)	1.16	(0.66)	3.68	(0.66)
In transit, van	0.93	(0.54)	0.52	(0.53)	0.52	(0.45)	0.82	(0.46)	2.78	(0.50)
Indoors, public garage	0.31	(0.18)	0.10	(0.10)	0.07	(0.06)	0.28	(0.16)	0.76	(0.13)
Outdoors, in a parking lot	1.18	(0.68)	0.70	(0.71)	0.87	(0.77)	1.26	(0.71)	4.01	(0.71)
Outdoors, along a roadway	7.91	(4.58)	5.77	(5.89)	8.08	(7.12)	8.30	(4.71)	30.07	(5.36)
In transit, motorcycle	0.09	(0.05)	0.10	(0.10)	0.20	(0.17)	0.06	(0.04)	0.45	(0.08)
Indoors, service station	0.39	(0.22)	0.14	(0.15)	0.10	(0.09)	0.36	(0.20)	0.99	(0.18)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.12	(0.07)	0.06	(0.06)	0.06	(0.05)	0.17	(0.10)	0.42	(0.07)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Indoors, home	106.70	(61.75)	58.52	(59.67)	66.43	(58.49)	108.20	(61.34)	339.85	(60.60)
Indoors, office	5.30	(3.07)	3.20	(3.27)	3.59	(3.16)	5.20	(2.95)	17.29	(3.08)
Indoors, store	3.34	(1.93)	1.79	(1.82)	2.10	(1.85)	3.34	(1.89)	10.56	(1.88)
Indoors, restaurant	3.81	(2.20)	1.94	(1.97)	2.29	(2.01)	4.00	(2.27)	12.03	(2.14)
Indoors, mfg. facility	2.22	(1.29)	1.20	(1.23)	1.35	(1.19)	2.01	(1.14)	6.79	(1.21)
Indoors, school	11.56	(6.69)	5.04	(5.14)	3.49	(3.07)	10.94	(6.20)	31.04	(5.53)
Indoors, church	0.85	(0.49)	0.42	(0.42)	0.43	(0.37)	0.91	(0.52)	2.61	(0.46)
Indoors, shopping mall	0.81	(0.47)	0.46	(0.47)	0.44	(0.39)	1.05	(0.60)	2.78	(0.49)
Indoors, auditorium	0.16	(0.09)	0.10	(0.10)	0.12	(0.10)	0.17	(0.10)	0.54	(0.10)
Indoors, health care facility	1.27	(0.73)	0.62	(0.64)	0.57	(0.50)	1.32	(0.75)	3.78	(0.67)
Indoors, public building	0.37	(0.21)	0.29	(0.30)	0.39	(0.34)	0.43	(0.25)	1.49	(0.27)
Indoors, other location	3.26	(1.89)	1.99	(2.03)	2.62	(2.31)	3.62	(2.05)	11.49	(2.05)
Indoors, not specified	0.03	(0.02)	0.03	(0.03)	0.06	(0.05)	0.03	(0.02)	0.15	(0.03)
Outdoors, construction	0.22	(0.13)	0.19	(0.19)	0.22	(0.19)	0.36	(0.21)	1.00	(0.18)
Outdoors, residential grounds	1.51	(0.88)	2.06	(2.10)	3.40	(2.99)	1.72	(0.98)	8.69	(1.55)
Outdoors, school grounds	0.92	(0.53)	0.54	(0.55)	0.50	(0.44)	1.04	(0.59)	3.00	(0.53)
Outdoors, sports arena	0.03	(0.02)	0.11	(0.12)	0.25	(0.22)	0.05	(0.03)	0.45	(0.08)
Outdoors, park/golf course	0.20	(0.11)	0.40	(0.40)	0.71	(0.62)	0.21	(0.12)	1.51	(0.27)
Outdoors, other location	0.27	(0.16)	0.80	(0.82)	1.70	(1.50)	0.36	(0.21)	3.13	(0.56)
Outdoors, not specified	0.04	(0.02)	0.03	(0.03)	0.05	(0.04)	0.03	(0.02)	0.14	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in µg/m³-year, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	18.42	(8.56)	8.84	(6.95)	10.75	(7.42)	16.36	(8.01)	54.37	(7.86)
In transit, bus	4.49	(2.09)	4.20	(3.30)	3.84	(2.65)	5.95	(2.91)	18.48	(2.67)
In transit, truck	0.00	(0.00)	0.14	(0.11)	0.57	(0.39)	0.00	(0.00)	0.71	(0.10)
In transit, van	0.00	(0.00)	0.02	(0.01)	0.05	(0.03)	0.00	(0.00)	0.06	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.21	(0.56)	0.85	(0.67)	1.50	(1.04)	1.05	(0.51)	4.61	(0.67)
Outdoors, along a roadway	5.47	(2.54)	6.84	(5.37)	11.88	(8.20)	6.48	(3.17)	30.66	(4.43)
In transit, motorcycle	0.13	(0.06)	0.09	(0.07)	0.09	(0.06)	0.32	(0.16)	0.63	(0.09)
Indoors, service station	0.00	(0.00)	0.02	(0.02)	0.08	(0.06)	0.00	(0.00)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.06	(0.04)	0.00	(0.00)	0.07	(0.01)
Indoors, home	150.39	(69.90)	85.28	(67.04)	92.89	(64.14)	141.23	(69.10)	469.80	(67.94)
Indoors, office	0.68	(0.32)	1.14	(0.89)	2.57	(1.77)	0.53	(0.26)	4.92	(0.71)
Indoors, store	1.42	(0.66)	1.23	(0.97)	1.61	(1.11)	1.28	(0.63)	5.54	(0.80)
Indoors, restaurant	2.58	(1.20)	0.45	(0.35)	0.29	(0.20)	2.28	(1.12)	5.60	(0.81)
Indoors, mfg. facility	4.24	(1.97)	0.88	(0.69)	0.94	(0.65)	2.35	(1.15)	8.41	(1.22)
Indoors, school	8.81	(4.09)	7.11	(5.59)	5.01	(3.46)	10.96	(5.36)	31.88	(4.61)
Indoors, church	3.13	(1.46)	1.33	(1.05)	1.10	(0.76)	3.10	(1.52)	8.67	(1.25)
Indoors, shopping mall	0.66	(0.31)	0.55	(0.43)	0.35	(0.24)	0.46	(0.22)	2.02	(0.29)
Indoors, auditorium	0.11	(0.05)	0.06	(0.05)	0.04	(0.03)	0.11	(0.05)	0.32	(0.05)
Indoors, health care facility	1.17	(0.54)	2.18	(1.72)	2.90	(2.00)	1.62	(0.79)	7.86	(1.14)
Indoors, public building	0.04	(0.02)	0.24	(0.19)	0.39	(0.27)	0.06	(0.03)	0.73	(0.11)
Indoors, other location	10.37	(4.82)	2.40	(1.89)	2.54	(1.75)	7.05	(3.45)	22.36	(3.23)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.64	(0.30)	1.63	(1.28)	2.95	(2.04)	1.54	(0.75)	6.76	(0.98)
Outdoors, school grounds	0.61	(0.28)	0.74	(0.58)	0.57	(0.39)	1.11	(0.54)	3.02	(0.44)
Outdoors, sports arena	0.55	(0.26)	0.34	(0.27)	0.24	(0.16)	0.52	(0.25)	1.65	(0.24)
Outdoors, park/golf course	0.00	(0.00)	0.07	(0.06)	0.19	(0.13)	0.00	(0.00)	0.26	(0.04)
Outdoors, other location	0.01	(0.01)	0.45	(0.35)	1.05	(0.72)	0.01	(0.01)	1.52	(0.22)
Outdoors, not specified	0.01	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.09	(0.07)	0.37	(0.26)	0.00	(0.00)	0.47	(0.07)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.75	(7.59)	6.84	(6.71)	8.33	(7.05)	13.32	(7.20)	42.25	(7.21)
In transit, bus	2.87	(1.59)	2.57	(2.52)	2.47	(2.09)	4.06	(2.20)	11.98	(2.04)
In transit, truck	0.00	(0.00)	0.11	(0.10)	0.42	(0.36)	0.00	(0.00)	0.53	(0.09)
In transit, van	0.62	(0.34)	0.40	(0.39)	0.32	(0.27)	0.81	(0.44)	2.15	(0.37)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.92	(0.50)	0.69	(0.68)	1.14	(0.96)	0.91	(0.49)	3.66	(0.62)
Outdoors, along a roadway	6.51	(3.59)	8.12	(7.96)	11.26	(9.52)	10.35	(5.60)	36.23	(6.18)
In transit, motorcycle	0.07	(0.04)	0.05	(0.05)	0.05	(0.04)	0.19	(0.10)	0.35	(0.06)
Indoors, service station	0.00	(0.00)	0.02	(0.02)	0.06	(0.05)	0.00	(0.00)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.05	(0.04)	0.00	(0.00)	0.06	(0.01)
Indoors, home	130.43	(71.95)	67.80	(66.52)	76.26	(64.49)	129.64	(70.13)	404.13	(68.93)
Indoors, office	0.65	(0.36)	1.01	(0.99)	2.15	(1.82)	0.66	(0.36)	4.47	(0.76)
Indoors, store	1.10	(0.61)	0.96	(0.94)	1.32	(1.12)	1.04	(0.56)	4.42	(0.75)
Indoors, restaurant	2.03	(1.12)	0.41	(0.41)	0.26	(0.22)	1.87	(1.01)	4.57	(0.78)
Indoors, mfg. facility	3.00	(1.66)	0.62	(0.60)	0.71	(0.60)	1.76	(0.95)	6.09	(1.04)
Indoors, school	6.49	(3.58)	4.40	(4.32)	3.10	(2.62)	7.97	(4.31)	21.96	(3.75)
Indoors, church	2.29	(1.27)	1.10	(1.08)	0.89	(0.75)	2.32	(1.26)	6.60	(1.13)
Indoors, shopping mall	0.47	(0.26)	0.37	(0.37)	0.25	(0.21)	0.35	(0.19)	1.44	(0.24)
Indoors, auditorium	0.07	(0.04)	0.04	(0.04)	0.03	(0.02)	0.08	(0.04)	0.21	(0.04)
Indoors, health care facility	0.87	(0.48)	1.57	(1.54)	2.15	(1.82)	1.32	(0.71)	5.91	(1.01)
Indoors, public building	0.03	(0.01)	0.15	(0.15)	0.24	(0.20)	0.05	(0.02)	0.46	(0.08)
Indoors, other location	7.76	(4.28)	1.80	(1.77)	1.92	(1.62)	5.82	(3.15)	17.30	(2.95)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.56	(0.31)	1.64	(1.61)	2.90	(2.46)	1.27	(0.69)	6.37	(1.09)
Outdoors, school grounds	0.34	(0.19)	0.41	(0.40)	0.34	(0.29)	0.65	(0.35)	1.74	(0.30)
Outdoors, sports arena	0.38	(0.21)	0.23	(0.22)	0.17	(0.15)	0.37	(0.20)	1.15	(0.20)
Outdoors, park/golf course	0.00	(0.00)	0.05	(0.05)	0.13	(0.11)	0.00	(0.00)	0.18	(0.03)
Outdoors, other location	0.04	(0.02)	0.50	(0.49)	1.01	(0.85)	0.07	(0.04)	1.62	(0.28)
Outdoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.07	(0.07)	0.31	(0.26)	0.00	(0.00)	0.38	(0.06)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.47	(4.21)	5.77	(5.69)	7.64	(6.64)	8.01	(4.49)	28.88	(5.05)
In transit, bus	2.87	(1.62)	1.09	(1.08)	0.62	(0.54)	2.46	(1.38)	7.04	(1.23)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.29	(0.29)	0.52	(0.45)	0.00	(0.00)	0.81	(0.14)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.22	(0.68)	0.93	(0.92)	1.35	(1.17)	1.19	(0.67)	4.69	(0.82)
Outdoors, along a roadway	7.23	(4.07)	5.12	(5.04)	6.33	(5.49)	9.43	(5.29)	28.11	(4.91)
In transit, motorcycle	0.00	(0.00)	0.07	(0.07)	0.13	(0.12)	0.00	(0.00)	0.20	(0.04)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	139.28	(78.49)	76.72	(75.63)	86.27	(74.91)	137.53	(77.09)	439.80	(76.83)
Indoors, office	0.55	(0.31)	0.12	(0.12)	0.07	(0.06)	0.36	(0.20)	1.10	(0.19)
Indoors, store	2.15	(1.21)	2.00	(1.97)	2.95	(2.57)	2.48	(1.39)	9.60	(1.68)
Indoors, restaurant	4.08	(2.30)	0.78	(0.77)	0.51	(0.44)	3.35	(1.88)	8.72	(1.52)
Indoors, mfg. facility	2.21	(1.24)	0.81	(0.80)	1.57	(1.36)	1.22	(0.68)	5.80	(1.01)
Indoors, school	7.15	(4.03)	3.99	(3.94)	2.20	(1.91)	7.82	(4.38)	21.16	(3.70)
Indoors, church	0.37	(0.21)	0.21	(0.21)	0.14	(0.12)	0.51	(0.29)	1.24	(0.22)
Indoors, shopping mall	0.42	(0.24)	0.52	(0.51)	0.32	(0.28)	0.83	(0.47)	2.09	(0.36)
Indoors, auditorium	0.13	(0.07)	0.14	(0.14)	0.15	(0.13)	0.10	(0.06)	0.51	(0.09)
Indoors, health care facility	0.18	(0.10)	0.29	(0.29)	0.26	(0.22)	0.34	(0.19)	1.06	(0.19)
Indoors, public building	0.30	(0.17)	0.09	(0.09)	0.06	(0.05)	0.33	(0.18)	0.78	(0.14)
Indoors, other location	0.77	(0.44)	0.67	(0.66)	1.26	(1.09)	1.09	(0.61)	3.79	(0.66)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.90	(0.51)	0.82	(0.81)	1.22	(1.06)	1.07	(0.60)	4.02	(0.70)
Outdoors, school grounds	0.10	(0.06)	0.13	(0.13)	0.08	(0.07)	0.18	(0.10)	0.49	(0.09)
Outdoors, sports arena	0.00	(0.00)	0.08	(0.08)	0.25	(0.22)	0.00	(0.00)	0.33	(0.06)
Outdoors, park/golf course	0.07	(0.04)	0.06	(0.06)	0.09	(0.08)	0.07	(0.04)	0.29	(0.05)
Outdoors, other location	0.01	(0.00)	0.71	(0.70)	1.14	(0.99)	0.01	(0.01)	1.88	(0.33)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.12	(7.35)	7.99	(7.82)	9.40	(7.93)	14.25	(7.82)	44.76	(7.70)
In transit, bus	1.19	(0.67)	0.87	(0.85)	0.82	(0.69)	1.71	(0.94)	4.59	(0.79)
In transit, truck	0.51	(0.29)	0.77	(0.75)	1.75	(1.48)	0.95	(0.52)	3.99	(0.69)
In transit, van	0.18	(0.10)	0.11	(0.10)	0.14	(0.12)	0.18	(0.10)	0.61	(0.10)
Indoors, public garage	0.00	(0.00)	0.04	(0.04)	0.06	(0.05)	0.00	(0.00)	0.10	(0.02)
Outdoors, in a parking lot	2.00	(1.12)	1.03	(1.01)	1.34	(1.13)	1.95	(1.07)	6.32	(1.09)
Outdoors, along a roadway	9.09	(5.09)	6.83	(6.68)	10.18	(8.58)	9.04	(4.96)	35.14	(6.04)
In transit, motorcycle	0.00	(0.00)	0.67	(0.66)	1.42	(1.20)	0.00	(0.00)	2.09	(0.36)
Indoors, service station	0.01	(0.00)	0.05	(0.05)	0.09	(0.08)	0.01	(0.00)	0.16	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.16	(0.09)	0.10	(0.10)	0.06	(0.05)	0.15	(0.08)	0.47	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.00	(0.00)	0.02	(0.00)
Indoors, home	115.82	(64.89)	63.75	(62.44)	72.57	(61.17)	116.39	(63.85)	368.53	(63.37)
Indoors, office	3.41	(1.91)	2.04	(2.00)	2.22	(1.87)	3.39	(1.86)	11.06	(1.90)
Indoors, store	2.43	(1.36)	1.85	(1.82)	2.44	(2.05)	2.72	(1.49)	9.45	(1.62)
Indoors, restaurant	6.74	(3.77)	2.88	(2.82)	2.16	(1.82)	7.25	(3.98)	19.02	(3.27)
Indoors, mfg. facility	3.78	(2.12)	1.67	(1.63)	1.33	(1.12)	3.26	(1.79)	10.04	(1.73)
Indoors, school	10.44	(5.85)	4.04	(3.96)	2.70	(2.28)	9.29	(5.09)	26.48	(4.55)
Indoors, church	0.78	(0.44)	0.49	(0.48)	0.47	(0.39)	0.86	(0.47)	2.60	(0.45)
Indoors, shopping mall	0.95	(0.53)	0.40	(0.39)	0.30	(0.26)	1.25	(0.68)	2.90	(0.50)
Indoors, auditorium	0.04	(0.02)	0.05	(0.05)	0.05	(0.04)	0.06	(0.04)	0.20	(0.03)
Indoors, health care facility	2.12	(1.19)	1.15	(1.13)	1.22	(1.03)	2.22	(1.22)	6.72	(1.16)
Indoors, public building	0.30	(0.17)	0.09	(0.09)	0.08	(0.07)	0.22	(0.12)	0.70	(0.12)
Indoors, other location	2.77	(1.55)	2.19	(2.14)	2.85	(2.41)	4.13	(2.26)	11.94	(2.05)
Indoors, not specified	0.01	(0.01)	0.01	(0.01)	0.06	(0.05)	0.01	(0.01)	0.09	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.64	(0.92)	1.66	(1.63)	2.60	(2.19)	1.65	(0.91)	7.55	(1.30)
Outdoors, school grounds	0.85	(0.47)	0.56	(0.54)	0.57	(0.48)	1.15	(0.63)	3.13	(0.54)
Outdoors, sports arena	0.00	(0.00)	0.07	(0.07)	0.21	(0.18)	0.00	(0.00)	0.28	(0.05)
Outdoors, park/golf course	0.06	(0.03)	0.53	(0.52)	0.95	(0.80)	0.14	(0.08)	1.68	(0.29)
Outdoors, other location	0.00	(0.00)	0.19	(0.19)	0.58	(0.49)	0.00	(0.00)	0.77	(0.13)
Outdoors, not specified	0.11	(0.06)	0.02	(0.02)	0.00	(0.00)	0.06	(0.03)	0.18	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.15	(9.28)	9.41	(9.52)	11.44	(9.95)	16.91	(9.51)	53.90	(9.53)
In transit, bus	2.99	(1.72)	1.00	(1.01)	0.85	(0.74)	2.65	(1.49)	7.49	(1.32)
In transit, truck	0.51	(0.29)	0.50	(0.50)	0.66	(0.58)	0.83	(0.47)	2.50	(0.44)
In transit, van	1.86	(1.07)	0.91	(0.92)	0.88	(0.77)	1.60	(0.90)	5.26	(0.93)
Indoors, public garage	0.74	(0.42)	0.19	(0.19)	0.08	(0.07)	0.64	(0.36)	1.65	(0.29)
Outdoors, in a parking lot	0.98	(0.56)	0.66	(0.66)	0.84	(0.73)	1.10	(0.62)	3.58	(0.63)
Outdoors, along a roadway	7.53	(4.33)	6.40	(6.47)	8.68	(7.55)	8.68	(4.88)	31.29	(5.53)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, service station	0.07	(0.04)	0.03	(0.03)	0.03	(0.03)	0.06	(0.04)	0.19	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.18	(0.10)	0.07	(0.07)	0.06	(0.05)	0.28	(0.16)	0.59	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	109.00	(62.62)	59.21	(59.88)	67.27	(58.51)	110.18	(61.95)	345.65	(61.09)
Indoors, office	5.21	(2.99)	3.53	(3.57)	3.78	(3.29)	5.45	(3.07)	17.98	(3.18)
Indoors, store	2.96	(1.70)	1.67	(1.69)	2.16	(1.88)	2.75	(1.55)	9.54	(1.69)
Indoors, restaurant	2.46	(1.42)	1.45	(1.47)	1.71	(1.49)	2.85	(1.60)	8.48	(1.50)
Indoors, mfg. facility	2.35	(1.35)	1.36	(1.38)	1.59	(1.38)	2.11	(1.19)	7.41	(1.31)
Indoors, school	9.60	(5.51)	3.89	(3.94)	2.94	(2.56)	8.72	(4.90)	25.15	(4.45)
Indoors, church	1.41	(0.81)	0.56	(0.57)	0.50	(0.44)	1.51	(0.85)	3.99	(0.70)
Indoors, shopping mall	0.81	(0.46)	0.37	(0.37)	0.32	(0.28)	0.98	(0.55)	2.48	(0.44)
Indoors, auditorium	0.16	(0.09)	0.09	(0.09)	0.09	(0.08)	0.19	(0.11)	0.52	(0.09)
Indoors, health care facility	1.03	(0.59)	0.55	(0.56)	0.52	(0.45)	1.14	(0.64)	3.24	(0.57)
Indoors, public building	0.43	(0.25)	0.40	(0.40)	0.58	(0.51)	0.48	(0.27)	1.89	(0.33)
Indoors, other location	4.26	(2.45)	2.10	(2.12)	2.56	(2.23)	4.37	(2.46)	13.29	(2.35)
Indoors, not specified	0.06	(0.03)	0.04	(0.04)	0.09	(0.08)	0.04	(0.02)	0.22	(0.04)
Outdoors, construction	0.50	(0.29)	0.41	(0.41)	0.44	(0.39)	0.80	(0.45)	2.15	(0.38)
Outdoors, residential grounds	1.34	(0.77)	2.16	(2.19)	3.65	(3.17)	1.73	(0.97)	8.88	(1.57)
Outdoors, school grounds	0.89	(0.51)	0.47	(0.47)	0.47	(0.41)	0.91	(0.51)	2.74	(0.48)
Outdoors, sports arena	0.01	(0.01)	0.10	(0.10)	0.22	(0.19)	0.02	(0.01)	0.35	(0.06)
Outdoors, park/golf course	0.17	(0.10)	0.25	(0.25)	0.43	(0.37)	0.20	(0.11)	1.05	(0.19)
Outdoors, other location	0.43	(0.25)	1.09	(1.10)	2.06	(1.80)	0.66	(0.37)	4.24	(0.75)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.01	(0.01)	0.05	(0.05)	0.00	(0.00)	0.07	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
Accumulated Exposure in µg/m³-year, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.11	(11.77)	11.04	(11.35)	12.97	(11.59)	21.18	(12.13)	65.30	(11.77)
In transit, bus	2.32	(1.36)	1.19	(1.22)	0.81	(0.72)	2.76	(1.58)	7.07	(1.27)
In transit, truck	0.24	(0.14)	0.61	(0.63)	0.90	(0.80)	0.44	(0.25)	2.20	(0.40)
In transit, van	0.00	(0.00)	0.15	(0.15)	0.26	(0.23)	0.01	(0.01)	0.42	(0.08)
Indoors, public garage	0.03	(0.02)	0.03	(0.03)	0.03	(0.03)	0.04	(0.02)	0.14	(0.02)
Outdoors, in a parking lot	1.01	(0.59)	0.58	(0.60)	0.66	(0.59)	1.15	(0.66)	3.41	(0.61)
Outdoors, along a roadway	7.85	(4.59)	5.72	(5.88)	8.20	(7.32)	8.16	(4.67)	29.92	(5.40)
In transit, motorcycle	0.34	(0.20)	0.03	(0.03)	0.00	(0.00)	0.24	(0.14)	0.61	(0.11)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.04	(0.04)	0.09	(0.08)	0.03	(0.02)	0.18	(0.03)
Indoors, in a repair shop	0.01	(0.01)	0.02	(0.02)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Indoors, home	101.50	(59.41)	54.54	(56.09)	61.14	(54.63)	102.00	(58.41)	319.18	(57.54)
Indoors, office	8.59	(5.03)	4.77	(4.91)	5.30	(4.73)	7.98	(4.57)	26.64	(4.80)
Indoors, store	3.13	(1.83)	1.65	(1.70)	1.98	(1.77)	3.22	(1.85)	9.98	(1.80)
Indoors, restaurant	3.17	(1.85)	1.95	(2.01)	2.47	(2.20)	3.46	(1.98)	11.05	(1.99)
Indoors, mfg. facility	2.68	(1.57)	1.23	(1.26)	1.26	(1.13)	2.58	(1.48)	7.75	(1.40)
Indoors, school	10.52	(6.16)	5.09	(5.24)	2.99	(2.67)	11.00	(6.30)	29.61	(5.34)
Indoors, church	0.49	(0.29)	0.33	(0.34)	0.45	(0.40)	0.49	(0.28)	1.75	(0.32)
Indoors, shopping mall	0.74	(0.43)	0.80	(0.82)	1.00	(0.89)	1.18	(0.67)	3.71	(0.67)
Indoors, auditorium	0.10	(0.06)	0.11	(0.12)	0.20	(0.18)	0.10	(0.06)	0.52	(0.09)
Indoors, health care facility	1.19	(0.69)	0.72	(0.74)	0.80	(0.72)	1.16	(0.66)	3.86	(0.70)
Indoors, public building	0.28	(0.16)	0.17	(0.18)	0.23	(0.21)	0.39	(0.23)	1.08	(0.20)
Indoors, other location	3.83	(2.24)	1.76	(1.81)	1.80	(1.61)	3.90	(2.23)	11.29	(2.04)
Indoors, not specified	0.03	(0.02)	0.02	(0.02)	0.02	(0.02)	0.04	(0.03)	0.12	(0.02)
Outdoors, construction	0.00	(0.00)	0.01	(0.01)	0.05	(0.05)	0.00	(0.00)	0.07	(0.01)
Outdoors, residential grounds	1.57	(0.92)	2.67	(2.74)	4.56	(4.08)	1.58	(0.90)	10.38	(1.87)
Outdoors, school grounds	0.72	(0.42)	0.47	(0.49)	0.36	(0.32)	1.01	(0.58)	2.56	(0.46)
Outdoors, sports arena	0.05	(0.03)	0.15	(0.15)	0.29	(0.26)	0.11	(0.06)	0.60	(0.11)
Outdoors, park/golf course	0.27	(0.16)	0.59	(0.61)	0.94	(0.84)	0.29	(0.17)	2.10	(0.38)
Outdoors, other location	0.06	(0.03)	0.79	(0.81)	2.12	(1.89)	0.07	(0.04)	3.03	(0.55)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.32	(6.82)	7.24	(7.77)	10.36	(9.75)	12.01	(7.31)	40.93	(7.73)
In transit, bus	2.05	(1.24)	0.34	(0.37)	0.12	(0.12)	1.14	(0.70)	3.66	(0.69)
In transit, truck	4.45	(2.68)	1.56	(1.67)	1.00	(0.94)	4.27	(2.60)	11.28	(2.13)
In transit, van	1.00	(0.60)	0.73	(0.78)	0.53	(0.50)	1.27	(0.78)	3.53	(0.67)
Indoors, public garage	0.00	(0.00)	0.01	(0.01)	0.04	(0.04)	0.00	(0.00)	0.06	(0.01)
Outdoors, in a parking lot	0.47	(0.29)	0.49	(0.52)	0.83	(0.78)	0.46	(0.28)	2.25	(0.43)
Outdoors, along a roadway	9.86	(5.94)	5.41	(5.80)	6.98	(6.57)	8.95	(5.45)	31.19	(5.89)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	3.29	(1.98)	0.43	(0.46)	0.00	(0.00)	1.94	(1.18)	5.66	(1.07)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	94.59	(56.99)	53.80	(57.68)	59.82	(56.28)	98.88	(60.21)	307.09	(57.97)
Indoors, office	5.13	(3.09)	3.00	(3.22)	4.39	(4.13)	4.25	(2.59)	16.78	(3.17)
Indoors, store	0.09	(0.05)	0.40	(0.43)	0.83	(0.79)	0.16	(0.10)	1.48	(0.28)
Indoors, restaurant	5.17	(3.12)	2.77	(2.97)	3.81	(3.58)	4.85	(2.95)	16.60	(3.13)
Indoors, mfg. facility	0.00	(0.00)	0.02	(0.02)	0.09	(0.08)	0.00	(0.00)	0.11	(0.02)
Indoors, school	18.30	(11.03)	7.40	(7.93)	5.69	(5.35)	14.64	(8.91)	46.03	(8.69)
Indoors, church	0.48	(0.29)	0.24	(0.26)	0.29	(0.27)	0.54	(0.33)	1.55	(0.29)
Indoors, shopping mall	0.08	(0.05)	0.10	(0.11)	0.06	(0.06)	0.14	(0.08)	0.38	(0.07)
Indoors, auditorium	0.48	(0.29)	0.26	(0.28)	0.20	(0.19)	0.44	(0.27)	1.38	(0.26)
Indoors, health care facility	0.90	(0.54)	0.36	(0.38)	0.24	(0.22)	0.95	(0.58)	2.44	(0.46)
Indoors, public building	0.00	(0.00)	0.28	(0.30)	0.50	(0.47)	0.00	(0.00)	0.78	(0.15)
Indoors, other location	3.32	(2.00)	2.84	(3.04)	2.92	(2.75)	2.87	(1.75)	11.95	(2.26)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.06	(0.07)	0.26	(0.25)	0.00	(0.00)	0.33	(0.06)
Outdoors, residential grounds	3.46	(2.08)	3.12	(3.35)	3.65	(3.44)	4.96	(3.02)	15.19	(2.87)
Outdoors, school grounds	0.82	(0.50)	0.85	(0.91)	0.66	(0.62)	0.89	(0.54)	3.23	(0.61)
Outdoors, sports arena	0.00	(0.00)	0.08	(0.09)	0.15	(0.14)	0.00	(0.00)	0.23	(0.04)
Outdoors, park/golf course	0.72	(0.44)	0.87	(0.93)	1.43	(1.35)	0.62	(0.38)	3.65	(0.69)
Outdoors, other location	0.00	(0.00)	0.58	(0.63)	1.40	(1.32)	0.00	(0.00)	1.98	(0.37)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.59	(6.08)	6.40	(6.49)	8.35	(7.28)	11.24	(6.35)	36.57	(6.48)
In transit, bus	4.51	(2.59)	2.02	(2.04)	1.34	(1.17)	4.59	(2.59)	12.46	(2.21)
In transit, truck	0.35	(0.20)	0.20	(0.20)	0.30	(0.27)	0.29	(0.17)	1.15	(0.20)
In transit, van	1.28	(0.73)	0.73	(0.74)	0.66	(0.57)	1.21	(0.68)	3.87	(0.69)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.52	(0.30)	0.39	(0.39)	0.54	(0.47)	0.60	(0.34)	2.05	(0.36)
Outdoors, along a roadway	10.95	(6.29)	8.16	(8.28)	12.19	(10.64)	11.26	(6.37)	42.57	(7.54)
In transit, motorcycle	0.23	(0.13)	0.04	(0.04)	0.03	(0.03)	0.19	(0.11)	0.48	(0.08)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.08	(0.04)	0.07	(0.07)	0.07	(0.06)	0.18	(0.10)	0.40	(0.07)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	109.39	(62.81)	60.20	(61.03)	69.23	(60.43)	111.80	(63.18)	350.62	(62.14)
Indoors, office	0.11	(0.06)	0.17	(0.17)	0.35	(0.31)	0.12	(0.07)	0.75	(0.13)
Indoors, store	1.70	(0.98)	0.87	(0.88)	1.01	(0.88)	1.72	(0.97)	5.30	(0.94)
Indoors, restaurant	1.31	(0.75)	0.98	(0.99)	1.45	(1.27)	1.54	(0.87)	5.28	(0.94)
Indoors, mfg. facility	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.03	(0.02)	0.06	(0.01)
Indoors, school	24.93	(14.32)	10.62	(10.77)	7.26	(6.33)	23.07	(13.04)	65.88	(11.67)
Indoors, church	0.70	(0.40)	0.34	(0.35)	0.35	(0.31)	0.77	(0.43)	2.16	(0.38)
Indoors, shopping mall	0.55	(0.32)	0.42	(0.42)	0.44	(0.38)	0.77	(0.43)	2.17	(0.38)
Indoors, auditorium	0.16	(0.09)	0.09	(0.10)	0.10	(0.08)	0.17	(0.10)	0.53	(0.09)
Indoors, health care facility	0.64	(0.36)	0.46	(0.47)	0.50	(0.43)	0.71	(0.40)	2.30	(0.41)
Indoors, public building	0.12	(0.07)	0.17	(0.17)	0.28	(0.24)	0.15	(0.09)	0.73	(0.13)
Indoors, other location	1.11	(0.64)	0.71	(0.72)	0.86	(0.75)	1.00	(0.56)	3.68	(0.65)
Indoors, not specified	0.00	(0.00)	0.01	(0.01)	0.04	(0.04)	0.00	(0.00)	0.05	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.48	(1.43)	2.90	(2.94)	4.81	(4.20)	2.90	(1.64)	13.10	(2.32)
Outdoors, school grounds	2.04	(1.17)	1.18	(1.20)	1.15	(1.00)	2.16	(1.22)	6.54	(1.16)
Outdoors, sports arena	0.14	(0.08)	0.17	(0.18)	0.31	(0.27)	0.19	(0.10)	0.80	(0.14)
Outdoors, park/golf course	0.17	(0.10)	0.47	(0.48)	1.01	(0.88)	0.19	(0.11)	1.85	(0.33)
Outdoors, other location	0.02	(0.01)	0.81	(0.83)	1.93	(1.68)	0.03	(0.02)	2.79	(0.49)
Outdoors, not specified	0.05	(0.03)	0.03	(0.03)	0.02	(0.02)	0.04	(0.02)	0.14	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	26.61	(14.29)	13.18	(12.34)	15.68	(12.91)	25.13	(13.34)	80.60	(13.37)
In transit, bus	1.14	(0.61)	0.14	(0.13)	0.00	(0.00)	0.72	(0.38)	2.00	(0.33)
In transit, truck	1.23	(0.66)	3.59	(3.36)	6.26	(5.16)	2.35	(1.24)	13.43	(2.23)
In transit, van	0.00	(0.00)	0.56	(0.53)	0.80	(0.66)	0.00	(0.00)	1.36	(0.23)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.94	(0.50)	0.92	(0.86)	0.95	(0.78)	0.97	(0.51)	3.78	(0.63)
Outdoors, along a roadway	14.92	(8.01)	9.04	(8.46)	8.05	(6.63)	17.64	(9.36)	49.65	(8.24)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.04	(0.02)	0.03	(0.02)	0.03	(0.02)	0.03	(0.02)	0.12	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	113.10	(60.74)	58.28	(54.55)	62.17	(51.21)	112.55	(59.73)	346.11	(57.41)
Indoors, office	3.82	(2.05)	2.92	(2.73)	4.57	(3.77)	4.10	(2.18)	15.41	(2.56)
Indoors, store	0.76	(0.41)	0.45	(0.42)	0.49	(0.41)	0.72	(0.38)	2.43	(0.40)
Indoors, restaurant	2.92	(1.57)	1.00	(0.94)	1.02	(0.84)	2.57	(1.37)	7.52	(1.25)
Indoors, mfg. facility	0.00	(0.00)	2.59	(2.43)	4.96	(4.09)	0.00	(0.00)	7.55	(1.25)
Indoors, school	12.21	(6.56)	4.45	(4.17)	2.21	(1.82)	10.52	(5.58)	29.40	(4.88)
Indoors, church	0.09	(0.05)	0.25	(0.24)	0.52	(0.43)	0.22	(0.12)	1.09	(0.18)
Indoors, shopping mall	0.36	(0.20)	0.25	(0.23)	0.19	(0.16)	0.91	(0.49)	1.71	(0.28)
Indoors, auditorium	0.04	(0.02)	0.38	(0.36)	0.89	(0.74)	0.05	(0.02)	1.36	(0.23)
Indoors, health care facility	0.42	(0.23)	0.18	(0.17)	0.20	(0.16)	0.42	(0.22)	1.22	(0.20)
Indoors, public building	1.37	(0.74)	0.73	(0.68)	0.50	(0.42)	2.14	(1.14)	4.75	(0.79)
Indoors, other location	4.14	(2.23)	2.07	(1.94)	2.62	(2.16)	4.72	(2.50)	13.56	(2.25)
Indoors, not specified	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Outdoors, construction	0.00	(0.00)	0.17	(0.16)	0.71	(0.58)	0.00	(0.00)	0.88	(0.15)
Outdoors, residential grounds	0.51	(0.28)	0.85	(0.79)	1.28	(1.06)	0.62	(0.33)	3.27	(0.54)
Outdoors, school grounds	0.59	(0.31)	0.73	(0.68)	0.46	(0.38)	1.21	(0.64)	2.99	(0.50)
Outdoors, sports arena	0.14	(0.08)	0.38	(0.35)	0.52	(0.43)	0.16	(0.09)	1.21	(0.20)
Outdoors, park/golf course	0.13	(0.07)	0.11	(0.10)	0.31	(0.25)	0.14	(0.08)	0.69	(0.11)
Outdoors, other location	0.16	(0.09)	3.51	(3.29)	5.98	(4.93)	0.08	(0.04)	9.74	(1.62)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.55	(0.29)	0.04	(0.04)	0.00	(0.00)	0.41	(0.22)	1.00	(0.17)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	25.02	(13.35)	13.83	(13.06)	15.13	(12.47)	26.13	(13.82)	80.11	(13.27)
In transit, bus	0.47	(0.25)	0.25	(0.24)	0.56	(0.46)	0.34	(0.18)	1.63	(0.27)
In transit, truck	4.45	(2.38)	2.24	(2.12)	2.85	(2.35)	4.23	(2.24)	13.77	(2.28)
In transit, van	1.34	(0.71)	0.89	(0.85)	0.86	(0.71)	1.25	(0.66)	4.35	(0.72)
Indoors, public garage	1.48	(0.79)	0.74	(0.70)	0.51	(0.42)	1.61	(0.85)	4.34	(0.72)
Outdoors, in a parking lot	1.15	(0.61)	0.86	(0.82)	1.11	(0.92)	1.44	(0.76)	4.56	(0.76)
Outdoors, along a roadway	7.88	(4.20)	6.06	(5.72)	7.55	(6.22)	8.54	(4.52)	30.02	(4.97)
In transit, motorcycle	0.00	(0.00)	0.04	(0.04)	0.15	(0.12)	0.00	(0.00)	0.19	(0.03)
Indoors, service station	2.36	(1.26)	0.86	(0.82)	0.54	(0.44)	2.09	(1.11)	5.85	(0.97)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.83	(0.44)	0.39	(0.37)	0.28	(0.23)	0.81	(0.43)	2.31	(0.38)
Indoors, in a repair shop	1.81	(0.97)	0.23	(0.22)	0.02	(0.01)	1.19	(0.63)	3.25	(0.54)
Indoors, home	96.62	(51.57)	51.78	(48.91)	57.92	(47.73)	98.64	(52.18)	304.96	(50.52)
Indoors, office	17.40	(9.29)	9.75	(9.21)	9.68	(7.97)	15.79	(8.35)	52.62	(8.72)
Indoors, store	2.98	(1.59)	1.90	(1.80)	2.69	(2.21)	2.66	(1.41)	10.22	(1.69)
Indoors, restaurant	4.47	(2.39)	2.10	(1.98)	2.40	(1.98)	4.21	(2.23)	13.19	(2.19)
Indoors, mfg. facility	3.13	(1.67)	2.67	(2.53)	3.65	(3.01)	3.25	(1.72)	12.71	(2.11)
Indoors, school	1.75	(0.93)	0.85	(0.80)	0.68	(0.56)	1.70	(0.90)	4.98	(0.83)
Indoors, church	0.74	(0.40)	0.40	(0.38)	0.37	(0.30)	0.77	(0.41)	2.28	(0.38)
Indoors, shopping mall	0.44	(0.24)	0.20	(0.19)	0.13	(0.11)	0.52	(0.28)	1.30	(0.22)
Indoors, auditorium	0.18	(0.09)	0.04	(0.04)	0.05	(0.04)	0.16	(0.08)	0.43	(0.07)
Indoors, health care facility	1.01	(0.54)	0.69	(0.65)	0.73	(0.60)	1.06	(0.56)	3.49	(0.58)
Indoors, public building	0.36	(0.19)	0.53	(0.50)	0.92	(0.76)	0.33	(0.17)	2.14	(0.35)
Indoors, other location	6.63	(3.54)	3.35	(3.16)	4.75	(3.92)	6.51	(3.45)	21.25	(3.52)
Indoors, not specified	0.68	(0.36)	0.13	(0.13)	0.04	(0.03)	0.61	(0.32)	1.47	(0.24)
Outdoors, construction	0.80	(0.43)	0.71	(0.67)	0.79	(0.65)	1.30	(0.69)	3.60	(0.60)
Outdoors, residential grounds	0.63	(0.34)	1.66	(1.56)	2.91	(2.39)	0.87	(0.46)	6.06	(1.00)
Outdoors, school grounds	0.11	(0.06)	0.08	(0.08)	0.08	(0.07)	0.15	(0.08)	0.42	(0.07)
Outdoors, sports arena	0.04	(0.02)	0.12	(0.11)	0.29	(0.24)	0.03	(0.02)	0.47	(0.08)
Outdoors, park/golf course	0.17	(0.09)	0.32	(0.30)	0.47	(0.39)	0.21	(0.11)	1.18	(0.20)
Outdoors, other location	2.06	(1.10)	2.02	(1.90)	2.97	(2.45)	2.36	(1.25)	9.41	(1.56)
Outdoors, not specified	0.02	(0.01)	0.07	(0.06)	0.17	(0.14)	0.04	(0.02)	0.29	(0.05)
In transit, train	0.37	(0.20)	0.08	(0.07)	0.12	(0.10)	0.25	(0.13)	0.82	(0.14)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.71	(9.75)	9.96	(10.17)	11.24	(9.97)	18.57	(10.65)	56.48	(10.15)
In transit, bus	1.23	(0.72)	0.33	(0.34)	0.28	(0.25)	0.90	(0.52)	2.74	(0.49)
In transit, truck	1.28	(0.75)	0.14	(0.14)	0.00	(0.00)	1.06	(0.61)	2.48	(0.45)
In transit, van	0.06	(0.03)	0.08	(0.08)	0.08	(0.07)	0.05	(0.03)	0.28	(0.05)
Indoors, public garage	0.04	(0.03)	0.03	(0.03)	0.02	(0.01)	0.06	(0.04)	0.15	(0.03)
Outdoors, in a parking lot	0.42	(0.25)	0.49	(0.50)	0.80	(0.71)	0.54	(0.31)	2.25	(0.40)
Outdoors, along a roadway	4.75	(2.77)	4.59	(4.68)	6.76	(6.00)	5.56	(3.19)	21.66	(3.89)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.12	(0.07)	0.02	(0.02)	0.01	(0.01)	0.10	(0.06)	0.25	(0.04)
Indoors, in a repair shop	0.02	(0.01)	0.03	(0.03)	0.02	(0.02)	0.04	(0.02)	0.11	(0.02)
Indoors, home	129.10	(75.34)	69.80	(71.25)	77.64	(68.87)	128.16	(73.52)	404.70	(72.75)
Indoors, office	0.94	(0.55)	0.23	(0.23)	0.30	(0.26)	0.63	(0.36)	2.09	(0.38)
Indoors, store	2.48	(1.45)	2.27	(2.32)	3.42	(3.03)	2.35	(1.35)	10.52	(1.89)
Indoors, restaurant	2.77	(1.62)	1.42	(1.45)	1.69	(1.50)	3.40	(1.95)	9.28	(1.67)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	3.03	(1.77)	2.19	(2.24)	1.78	(1.58)	3.92	(2.25)	10.92	(1.96)
Indoors, church	0.67	(0.39)	0.39	(0.40)	0.34	(0.30)	0.71	(0.41)	2.12	(0.38)
Indoors, shopping mall	0.78	(0.45)	0.30	(0.31)	0.47	(0.42)	0.57	(0.33)	2.12	(0.38)
Indoors, auditorium	0.30	(0.18)	0.18	(0.19)	0.20	(0.18)	0.35	(0.20)	1.03	(0.19)
Indoors, health care facility	0.37	(0.22)	0.28	(0.29)	0.36	(0.32)	0.46	(0.26)	1.48	(0.27)
Indoors, public building	0.42	(0.24)	0.17	(0.18)	0.14	(0.13)	0.39	(0.22)	1.13	(0.20)
Indoors, other location	4.73	(2.76)	2.44	(2.49)	2.65	(2.35)	4.63	(2.65)	14.44	(2.60)
Indoors, not specified	0.00	(0.00)	0.03	(0.03)	0.08	(0.07)	0.00	(0.00)	0.11	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.59	(0.34)	1.25	(1.27)	1.98	(1.75)	1.06	(0.61)	4.87	(0.88)
Outdoors, school grounds	0.19	(0.11)	0.24	(0.24)	0.32	(0.28)	0.42	(0.24)	1.17	(0.21)
Outdoors, sports arena	0.11	(0.06)	0.08	(0.08)	0.16	(0.15)	0.13	(0.07)	0.48	(0.09)
Outdoors, park/golf course	0.09	(0.05)	0.39	(0.40)	0.68	(0.60)	0.08	(0.05)	1.24	(0.22)
Outdoors, other location	0.12	(0.07)	0.61	(0.62)	1.29	(1.14)	0.11	(0.06)	2.13	(0.38)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.06	(0.04)	0.01	(0.01)	0.00	(0.00)	0.05	(0.03)	0.12	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	23.85	(13.34)	11.87	(11.78)	13.42	(11.54)	23.87	(13.26)	73.02	(12.68)
In transit, bus	1.68	(0.94)	0.89	(0.89)	0.93	(0.80)	1.71	(0.95)	5.22	(0.91)
In transit, truck	1.10	(0.61)	0.66	(0.66)	0.70	(0.60)	1.35	(0.75)	3.80	(0.66)
In transit, van	0.01	(0.00)	0.07	(0.07)	0.26	(0.22)	0.01	(0.00)	0.34	(0.06)
Indoors, public garage	0.39	(0.22)	0.11	(0.11)	0.07	(0.06)	0.31	(0.17)	0.88	(0.15)
Outdoors, in a parking lot	0.66	(0.37)	0.57	(0.56)	0.78	(0.67)	0.77	(0.43)	2.77	(0.48)
Outdoors, along a roadway	5.24	(2.93)	4.02	(3.99)	5.73	(4.93)	5.43	(3.02)	20.42	(3.55)
In transit, motorcycle	0.00	(0.00)	0.56	(0.55)	1.17	(1.00)	0.00	(0.00)	1.73	(0.30)
Indoors, service station	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.03	(0.01)	0.07	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.05	(0.01)
Indoors, in a repair shop	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	101.27	(56.63)	56.42	(56.00)	64.46	(55.44)	102.46	(56.89)	324.61	(56.38)
Indoors, office	17.44	(9.75)	9.69	(9.62)	9.94	(8.55)	16.63	(9.24)	53.70	(9.32)
Indoors, store	4.40	(2.46)	2.62	(2.60)	2.81	(2.42)	4.79	(2.66)	14.62	(2.54)
Indoors, restaurant	5.49	(3.07)	2.68	(2.66)	3.31	(2.85)	5.69	(3.16)	17.18	(2.98)
Indoors, mfg. facility	1.58	(0.88)	0.86	(0.86)	0.73	(0.63)	1.48	(0.82)	4.65	(0.81)
Indoors, school	4.61	(2.58)	1.98	(1.97)	1.29	(1.11)	4.38	(2.43)	12.26	(2.13)
Indoors, church	0.84	(0.47)	0.44	(0.44)	0.40	(0.34)	0.90	(0.50)	2.59	(0.45)
Indoors, shopping mall	1.14	(0.64)	0.52	(0.52)	0.38	(0.33)	1.24	(0.69)	3.29	(0.57)
Indoors, auditorium	0.12	(0.07)	0.09	(0.09)	0.11	(0.10)	0.14	(0.08)	0.47	(0.08)
Indoors, health care facility	2.21	(1.23)	1.02	(1.02)	0.96	(0.82)	2.14	(1.19)	6.33	(1.10)
Indoors, public building	0.37	(0.21)	0.30	(0.30)	0.38	(0.33)	0.35	(0.20)	1.41	(0.24)
Indoors, other location	5.73	(3.20)	2.72	(2.70)	3.59	(3.09)	5.41	(3.01)	17.45	(3.03)
Indoors, not specified	0.06	(0.03)	0.03	(0.03)	0.01	(0.01)	0.07	(0.04)	0.17	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.29	(0.16)	1.17	(1.16)	2.17	(1.86)	0.37	(0.21)	3.99	(0.69)
Outdoors, school grounds	0.08	(0.05)	0.09	(0.09)	0.19	(0.16)	0.17	(0.09)	0.53	(0.09)
Outdoors, sports arena	0.01	(0.00)	0.12	(0.11)	0.26	(0.22)	0.02	(0.01)	0.41	(0.07)
Outdoors, park/golf course	0.05	(0.03)	0.31	(0.31)	0.54	(0.47)	0.09	(0.05)	1.00	(0.17)
Outdoors, other location	0.08	(0.04)	0.82	(0.82)	1.60	(1.37)	0.07	(0.04)	2.57	(0.45)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.09	(0.05)	0.06	(0.06)	0.04	(0.04)	0.16	(0.09)	0.36	(0.06)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.02	(8.22)	9.29	(9.47)	10.84	(9.35)	16.25	(9.43)	50.41	(9.05)
In transit, bus	1.01	(0.59)	0.76	(0.78)	2.87	(2.47)	0.94	(0.55)	5.59	(1.00)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.36	(0.21)	0.24	(0.25)	0.17	(0.14)	0.31	(0.18)	1.08	(0.19)
Indoors, public garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, in a parking lot	0.90	(0.53)	1.22	(1.25)	2.41	(2.08)	0.96	(0.56)	5.50	(0.99)
Outdoors, along a roadway	4.80	(2.81)	2.99	(3.05)	3.85	(3.32)	4.92	(2.85)	16.56	(2.97)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.88	(0.52)	0.68	(0.69)	0.41	(0.36)	0.93	(0.54)	2.89	(0.52)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	133.19	(78.05)	66.79	(68.07)	71.44	(61.61)	132.35	(76.80)	403.77	(72.48)
Indoors, office	0.46	(0.27)	0.15	(0.15)	0.09	(0.08)	0.33	(0.19)	1.02	(0.18)
Indoors, store	1.67	(0.98)	1.66	(1.69)	2.21	(1.90)	1.43	(0.83)	6.97	(1.25)
Indoors, restaurant	2.33	(1.37)	0.55	(0.56)	0.30	(0.26)	1.51	(0.88)	4.69	(0.84)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.67	(0.98)	1.24	(1.26)	0.92	(0.79)	2.21	(1.28)	6.04	(1.08)
Indoors, church	0.69	(0.40)	0.34	(0.35)	0.18	(0.16)	0.61	(0.36)	1.83	(0.33)
Indoors, shopping mall	1.77	(1.04)	0.13	(0.14)	0.00	(0.00)	1.79	(1.04)	3.70	(0.66)
Indoors, auditorium	0.07	(0.04)	0.05	(0.05)	0.18	(0.15)	0.04	(0.02)	0.34	(0.06)
Indoors, health care facility	1.95	(1.15)	1.64	(1.67)	1.05	(0.91)	3.09	(1.79)	7.74	(1.39)
Indoors, public building	0.11	(0.06)	0.23	(0.24)	0.34	(0.29)	0.06	(0.04)	0.74	(0.13)
Indoors, other location	2.88	(1.69)	2.45	(2.49)	4.67	(4.03)	3.12	(1.81)	13.11	(2.35)
Indoors, not specified	0.26	(0.15)	0.04	(0.04)	0.00	(0.00)	0.17	(0.10)	0.47	(0.08)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.46	(0.85)	6.79	(6.92)	11.15	(9.62)	1.13	(0.66)	20.53	(3.68)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.07	(0.07)	0.37	(0.32)	0.00	(0.00)	0.45	(0.08)
Outdoors, park/golf course	0.14	(0.08)	0.34	(0.35)	0.66	(0.57)	0.20	(0.11)	1.34	(0.24)
Outdoors, other location	0.00	(0.00)	0.45	(0.46)	1.82	(1.57)	0.00	(0.00)	2.27	(0.41)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	29.29	(15.49)	15.64	(14.88)	17.66	(14.71)	29.41	(15.48)	92.01	(15.22)
In transit, bus	4.07	(2.15)	0.97	(0.93)	0.57	(0.47)	3.29	(1.73)	8.90	(1.47)
In transit, truck	4.06	(2.15)	2.95	(2.80)	2.44	(2.03)	5.35	(2.81)	14.80	(2.45)
In transit, van	0.43	(0.23)	0.53	(0.50)	1.23	(1.03)	0.58	(0.30)	2.77	(0.46)
Indoors, public garage	0.40	(0.21)	0.31	(0.30)	0.20	(0.17)	0.61	(0.32)	1.52	(0.25)
Outdoors, in a parking lot	0.92	(0.49)	0.59	(0.56)	0.69	(0.58)	1.11	(0.58)	3.32	(0.55)
Outdoors, along a roadway	6.85	(3.62)	4.74	(4.51)	7.15	(5.96)	6.76	(3.56)	25.50	(4.22)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.25	(0.66)	0.31	(0.29)	0.13	(0.11)	0.82	(0.43)	2.50	(0.41)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.02)	0.02	(0.02)	0.04	(0.03)	0.02	(0.01)	0.10	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	90.02	(47.60)	48.45	(46.06)	53.88	(44.87)	93.94	(49.44)	286.29	(47.37)
Indoors, office	21.24	(11.23)	12.88	(12.25)	15.06	(12.54)	18.04	(9.49)	67.22	(11.12)
Indoors, store	5.49	(2.90)	2.32	(2.20)	1.79	(1.49)	4.91	(2.58)	14.50	(2.40)
Indoors, restaurant	4.32	(2.28)	2.48	(2.36)	2.91	(2.42)	4.45	(2.34)	14.15	(2.34)
Indoors, mfg. facility	3.02	(1.60)	3.50	(3.33)	5.10	(4.25)	3.32	(1.75)	14.95	(2.47)
Indoors, school	0.85	(0.45)	1.06	(1.01)	1.46	(1.21)	1.57	(0.83)	4.94	(0.82)
Indoors, church	1.06	(0.56)	0.54	(0.51)	0.59	(0.49)	0.92	(0.49)	3.11	(0.51)
Indoors, shopping mall	0.99	(0.53)	0.13	(0.12)	0.20	(0.17)	1.01	(0.53)	2.33	(0.39)
Indoors, auditorium	0.08	(0.04)	0.02	(0.02)	0.04	(0.04)	0.07	(0.04)	0.21	(0.03)
Indoors, health care facility	1.15	(0.61)	0.17	(0.16)	0.07	(0.06)	0.76	(0.40)	2.15	(0.36)
Indoors, public building	0.51	(0.27)	0.41	(0.39)	0.82	(0.68)	0.56	(0.30)	2.30	(0.38)
Indoors, other location	10.58	(5.59)	4.39	(4.18)	3.14	(2.62)	10.04	(5.29)	28.16	(4.66)
Indoors, not specified	0.93	(0.49)	0.16	(0.15)	0.04	(0.03)	0.57	(0.30)	1.70	(0.28)
Outdoors, construction	0.00	(0.00)	0.27	(0.26)	0.46	(0.38)	0.00	(0.00)	0.73	(0.12)
Outdoors, residential grounds	0.26	(0.14)	1.37	(1.30)	2.85	(2.37)	0.35	(0.19)	4.83	(0.80)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.28	(0.15)	0.34	(0.32)	0.53	(0.44)	0.24	(0.13)	1.39	(0.23)
Outdoors, other location	0.94	(0.49)	0.59	(0.56)	1.03	(0.86)	1.25	(0.66)	3.80	(0.63)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.11	(0.06)	0.01	(0.01)	0.00	(0.00)	0.07	(0.04)	0.20	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.51	(8.07)	6.68	(7.12)	8.32	(7.65)	11.93	(7.15)	40.45	(7.53)
In transit, bus	0.51	(0.30)	0.17	(0.18)	0.16	(0.15)	0.36	(0.21)	1.20	(0.22)
In transit, truck	0.64	(0.38)	0.06	(0.07)	0.00	(0.00)	0.56	(0.34)	1.26	(0.23)
In transit, van	0.53	(0.31)	0.29	(0.31)	0.21	(0.19)	0.61	(0.36)	1.63	(0.30)
Indoors, public garage	0.07	(0.04)	0.02	(0.02)	0.00	(0.00)	0.05	(0.03)	0.14	(0.03)
Outdoors, in a parking lot	0.46	(0.27)	0.42	(0.45)	0.69	(0.64)	0.46	(0.28)	2.03	(0.38)
Outdoors, along a roadway	5.33	(3.18)	2.98	(3.17)	4.15	(3.81)	4.63	(2.77)	17.08	(3.18)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	133.43	(79.70)	73.21	(78.04)	80.76	(74.24)	135.12	(80.91)	422.52	(78.69)
Indoors, office	0.48	(0.29)	0.27	(0.28)	0.23	(0.21)	0.45	(0.27)	1.43	(0.27)
Indoors, store	2.27	(1.36)	1.27	(1.35)	1.50	(1.38)	2.12	(1.27)	7.17	(1.33)
Indoors, restaurant	2.18	(1.30)	1.66	(1.77)	2.17	(1.99)	2.55	(1.53)	8.56	(1.59)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.00	(0.00)	0.02	(0.00)
Indoors, school	0.60	(0.36)	0.22	(0.23)	0.24	(0.22)	0.56	(0.34)	1.61	(0.30)
Indoors, church	0.98	(0.58)	0.59	(0.63)	0.54	(0.50)	1.06	(0.64)	3.18	(0.59)
Indoors, shopping mall	1.32	(0.79)	0.65	(0.70)	0.70	(0.64)	1.14	(0.68)	3.81	(0.71)
Indoors, auditorium	0.06	(0.03)	0.01	(0.01)	0.01	(0.01)	0.04	(0.03)	0.11	(0.02)
Indoors, health care facility	0.59	(0.35)	0.48	(0.51)	0.87	(0.80)	0.47	(0.28)	2.41	(0.45)
Indoors, public building	0.18	(0.11)	0.17	(0.18)	0.17	(0.16)	0.35	(0.21)	0.87	(0.16)
Indoors, other location	2.72	(1.63)	1.77	(1.89)	2.89	(2.65)	2.89	(1.73)	10.27	(1.91)
Indoors, not specified	0.31	(0.19)	0.04	(0.04)	0.00	(0.00)	0.21	(0.13)	0.56	(0.10)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.08	(0.65)	2.04	(2.18)	3.34	(3.07)	1.31	(0.79)	7.78	(1.45)
Outdoors, school grounds	0.04	(0.02)	0.01	(0.01)	0.00	(0.00)	0.02	(0.01)	0.06	(0.01)
Outdoors, sports arena	0.00	(0.00)	0.05	(0.05)	0.20	(0.19)	0.00	(0.00)	0.25	(0.05)
Outdoors, park/golf course	0.00	(0.00)	0.38	(0.40)	0.85	(0.78)	0.00	(0.00)	1.23	(0.23)
Outdoors, other location	0.02	(0.01)	0.35	(0.38)	0.73	(0.67)	0.04	(0.02)	1.13	(0.21)
Outdoors, not specified	0.09	(0.05)	0.01	(0.01)	0.00	(0.00)	0.05	(0.03)	0.15	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.20	(10.96)	10.43	(10.59)	13.40	(11.73)	19.32	(10.98)	62.35	(11.05)
In transit, bus	2.29	(1.31)	0.80	(0.81)	0.65	(0.57)	1.97	(1.12)	5.71	(1.01)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.71	(0.41)	0.16	(0.16)	0.05	(0.05)	0.55	(0.31)	1.48	(0.26)
Indoors, public garage	0.07	(0.04)	0.03	(0.03)	0.02	(0.01)	0.08	(0.04)	0.20	(0.03)
Outdoors, in a parking lot	0.62	(0.36)	0.81	(0.82)	1.36	(1.19)	0.75	(0.43)	3.54	(0.63)
Outdoors, along a roadway	5.97	(3.41)	3.61	(3.67)	4.78	(4.19)	5.48	(3.12)	19.85	(3.52)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	103.03	(58.80)	56.42	(57.25)	63.78	(55.80)	104.92	(59.63)	328.15	(58.19)
Indoors, office	18.28	(10.43)	9.10	(9.24)	7.95	(6.96)	16.71	(9.49)	52.04	(9.23)
Indoors, store	2.99	(1.71)	2.22	(2.25)	2.78	(2.43)	3.27	(1.86)	11.26	(2.00)
Indoors, restaurant	5.70	(3.25)	3.57	(3.62)	3.48	(3.05)	6.42	(3.65)	19.17	(3.40)
Indoors, mfg. facility	0.00	(0.00)	1.69	(1.72)	4.67	(4.08)	0.00	(0.00)	6.36	(1.13)
Indoors, school	3.76	(2.15)	1.87	(1.90)	1.51	(1.32)	3.49	(1.98)	10.62	(1.88)
Indoors, church	0.88	(0.50)	0.57	(0.58)	0.74	(0.64)	0.93	(0.53)	3.11	(0.55)
Indoors, shopping mall	1.01	(0.58)	0.86	(0.87)	0.60	(0.52)	1.14	(0.65)	3.61	(0.64)
Indoors, auditorium	0.05	(0.03)	0.03	(0.03)	0.02	(0.02)	0.05	(0.03)	0.15	(0.03)
Indoors, health care facility	2.42	(1.38)	1.53	(1.56)	1.41	(1.23)	2.54	(1.44)	7.90	(1.40)
Indoors, public building	0.29	(0.17)	0.11	(0.11)	0.11	(0.09)	0.17	(0.10)	0.68	(0.12)
Indoors, other location	7.09	(4.05)	3.30	(3.35)	4.61	(4.04)	7.26	(4.13)	22.27	(3.95)
Indoors, not specified	0.01	(0.01)	0.15	(0.15)	0.30	(0.27)	0.02	(0.01)	0.49	(0.09)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.65	(0.37)	0.90	(0.92)	1.46	(1.28)	0.65	(0.37)	3.67	(0.65)
Outdoors, school grounds	0.06	(0.03)	0.08	(0.09)	0.10	(0.09)	0.11	(0.06)	0.35	(0.06)
Outdoors, sports arena	0.03	(0.01)	0.11	(0.11)	0.22	(0.20)	0.02	(0.01)	0.39	(0.07)
Outdoors, park/golf course	0.03	(0.02)	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.06	(0.01)
Outdoors, other location	0.06	(0.03)	0.16	(0.17)	0.26	(0.22)	0.07	(0.04)	0.54	(0.10)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	24.60	(13.65)	15.03	(14.15)	15.71	(12.89)	24.99	(13.75)	80.34	(13.62)
In transit, bus	0.84	(0.47)	0.96	(0.90)	0.62	(0.51)	1.73	(0.95)	4.15	(0.70)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Indoors, public garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)
Outdoors, in a parking lot	0.68	(0.38)	1.22	(1.15)	2.30	(1.89)	0.81	(0.45)	5.01	(0.85)
Outdoors, along a roadway	5.37	(2.98)	7.19	(6.77)	10.93	(8.97)	5.83	(3.21)	29.32	(4.97)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.05	(0.05)	0.14	(0.11)	0.00	(0.00)	0.19	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.01	(0.01)	0.02	(0.02)	0.02	(0.01)	0.07	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	124.08	(68.84)	66.37	(62.49)	75.48	(61.91)	125.06	(68.84)	390.99	(66.26)
Indoors, office	7.00	(3.88)	2.65	(2.50)	1.52	(1.25)	5.59	(3.08)	16.76	(2.84)
Indoors, store	1.47	(0.81)	0.89	(0.84)	1.15	(0.94)	1.24	(0.68)	4.75	(0.81)
Indoors, restaurant	4.92	(2.73)	3.39	(3.19)	3.27	(2.69)	4.54	(2.50)	16.12	(2.73)
Indoors, mfg. facility	1.75	(0.97)	0.74	(0.69)	0.37	(0.31)	1.67	(0.92)	4.53	(0.77)
Indoors, school	0.65	(0.36)	0.19	(0.18)	0.36	(0.29)	0.34	(0.19)	1.54	(0.26)
Indoors, church	1.03	(0.57)	0.69	(0.65)	0.57	(0.46)	1.05	(0.58)	3.34	(0.57)
Indoors, shopping mall	1.70	(0.94)	1.06	(1.00)	1.47	(1.20)	0.89	(0.49)	5.12	(0.87)
Indoors, auditorium	0.82	(0.46)	0.38	(0.36)	0.30	(0.25)	0.89	(0.49)	2.39	(0.41)
Indoors, health care facility	0.20	(0.11)	0.53	(0.50)	0.88	(0.72)	0.23	(0.13)	1.84	(0.31)
Indoors, public building	0.11	(0.06)	0.12	(0.11)	0.27	(0.23)	0.09	(0.05)	0.59	(0.10)
Indoors, other location	1.97	(1.09)	1.43	(1.34)	1.10	(0.90)	3.03	(1.67)	7.53	(1.28)
Indoors, not specified	0.00	(0.00)	0.05	(0.05)	0.18	(0.15)	0.00	(0.00)	0.23	(0.04)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.47	(0.82)	2.27	(2.14)	4.35	(3.57)	1.84	(1.01)	9.93	(1.68)
Outdoors, school grounds	0.31	(0.17)	0.22	(0.21)	0.18	(0.15)	0.77	(0.42)	1.48	(0.25)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.67	(0.37)	0.39	(0.37)	0.20	(0.16)	0.67	(0.37)	1.93	(0.33)
Outdoors, other location	0.00	(0.00)	0.22	(0.21)	0.48	(0.39)	0.00	(0.00)	0.70	(0.12)
Outdoors, not specified	0.05	(0.03)	0.06	(0.06)	0.04	(0.03)	0.08	(0.04)	0.22	(0.04)
In transit, train	0.53	(0.29)	0.08	(0.07)	0.00	(0.00)	0.32	(0.18)	0.93	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.04	(6.94)	8.35	(8.37)	10.83	(9.43)	11.52	(6.67)	42.75	(7.62)
In transit, bus	0.18	(0.10)	0.39	(0.39)	0.44	(0.39)	0.33	(0.19)	1.33	(0.24)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.14	(0.08)	0.02	(0.02)	0.00	(0.00)	0.08	(0.05)	0.24	(0.04)
Indoors, public garage	0.04	(0.02)	0.07	(0.07)	0.15	(0.13)	0.06	(0.04)	0.32	(0.06)
Outdoors, in a parking lot	0.17	(0.10)	0.25	(0.25)	0.45	(0.39)	0.18	(0.10)	1.05	(0.19)
Outdoors, along a roadway	4.31	(2.48)	3.31	(3.31)	5.23	(4.55)	3.96	(2.29)	16.81	(3.00)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.02	(0.02)	0.06	(0.05)	0.00	(0.00)	0.07	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	141.63	(81.64)	78.32	(78.45)	87.11	(75.88)	142.25	(82.32)	449.31	(80.10)
Indoors, office	1.43	(0.82)	0.24	(0.24)	0.15	(0.13)	0.85	(0.49)	2.67	(0.48)
Indoors, store	1.14	(0.65)	1.90	(1.90)	3.32	(2.89)	0.94	(0.54)	7.30	(1.30)
Indoors, restaurant	1.50	(0.87)	1.50	(1.50)	1.66	(1.45)	1.64	(0.95)	6.30	(1.12)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.01	(0.01)	0.05	(0.05)	0.00	(0.00)	0.07	(0.01)
Indoors, church	1.66	(0.96)	0.85	(0.85)	0.79	(0.69)	2.14	(1.24)	5.44	(0.97)
Indoors, shopping mall	1.30	(0.75)	1.55	(1.55)	0.98	(0.85)	2.20	(1.27)	6.03	(1.08)
Indoors, auditorium	0.03	(0.02)	0.04	(0.04)	0.02	(0.02)	0.05	(0.03)	0.14	(0.02)
Indoors, health care facility	0.86	(0.50)	0.27	(0.27)	0.18	(0.16)	0.84	(0.49)	2.15	(0.38)
Indoors, public building	0.19	(0.11)	0.19	(0.19)	0.23	(0.20)	0.25	(0.15)	0.86	(0.15)
Indoors, other location	6.27	(3.61)	1.56	(1.56)	0.86	(0.75)	5.06	(2.93)	13.74	(2.45)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.40	(0.23)	0.75	(0.76)	1.74	(1.52)	0.33	(0.19)	3.23	(0.58)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.17	(0.10)	0.14	(0.14)	0.14	(0.12)	0.14	(0.08)	0.58	(0.10)
Outdoors, park/golf course	0.00	(0.00)	0.04	(0.04)	0.15	(0.13)	0.00	(0.00)	0.18	(0.03)
Outdoors, other location	0.00	(0.00)	0.08	(0.08)	0.25	(0.21)	0.00	(0.00)	0.32	(0.06)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.67	(6.74)	8.41	(6.87)	9.54	(6.71)	15.47	(7.08)	48.09	(6.86)
In transit, bus	0.00	(0.00)	0.17	(0.14)	0.70	(0.49)	0.00	(0.00)	0.87	(0.12)
In transit, truck	19.99	(9.18)	10.24	(8.37)	13.76	(9.67)	17.47	(8.00)	61.46	(8.77)
In transit, van	1.24	(0.57)	0.18	(0.14)	0.00	(0.00)	0.72	(0.33)	2.14	(0.31)
Indoors, public garage	4.58	(2.10)	1.73	(1.42)	0.99	(0.70)	5.45	(2.49)	12.75	(1.82)
Outdoors, in a parking lot	1.42	(0.65)	1.75	(1.43)	1.93	(1.36)	2.62	(1.20)	7.73	(1.10)
Outdoors, along a roadway	24.07	(11.06)	19.64	(16.05)	26.54	(18.65)	24.64	(11.28)	94.89	(13.54)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	9.97	(4.58)	1.51	(1.24)	0.38	(0.27)	5.75	(2.63)	17.62	(2.51)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.11	(0.51)	0.07	(0.06)	0.03	(0.02)	1.52	(0.70)	2.74	(0.39)
Indoors, in a repair shop	0.00	(0.00)	0.05	(0.04)	0.24	(0.17)	0.00	(0.00)	0.29	(0.04)
Indoors, home	87.80	(40.34)	45.15	(36.90)	48.18	(33.87)	89.88	(41.15)	271.01	(38.68)
Indoors, office	4.89	(2.25)	1.79	(1.47)	2.59	(1.82)	3.27	(1.50)	12.54	(1.79)
Indoors, store	0.88	(0.41)	0.24	(0.20)	0.19	(0.13)	0.91	(0.42)	2.22	(0.32)
Indoors, restaurant	4.67	(2.14)	1.78	(1.46)	1.49	(1.04)	3.53	(1.62)	11.47	(1.64)
Indoors, mfg. facility	1.42	(0.65)	5.91	(4.83)	8.76	(6.16)	2.72	(1.25)	18.81	(2.68)
Indoors, school	0.57	(0.26)	0.66	(0.54)	0.44	(0.31)	1.11	(0.51)	2.77	(0.40)
Indoors, church	1.33	(0.61)	0.33	(0.27)	0.21	(0.15)	1.68	(0.77)	3.55	(0.51)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.13	(0.06)	0.32	(0.26)	0.95	(0.67)	0.17	(0.08)	1.57	(0.22)
Indoors, health care facility	0.00	(0.00)	0.15	(0.13)	0.33	(0.23)	0.00	(0.00)	0.49	(0.07)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	7.62	(3.50)	1.27	(1.04)	0.46	(0.32)	5.56	(2.54)	14.90	(2.13)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	7.95	(3.66)	7.60	(6.21)	11.53	(8.10)	11.15	(5.10)	38.23	(5.46)
Outdoors, residential grounds	1.05	(0.48)	1.13	(0.92)	1.27	(0.89)	2.01	(0.92)	5.46	(0.78)
Outdoors, school grounds	0.05	(0.02)	0.06	(0.05)	0.04	(0.03)	0.10	(0.05)	0.26	(0.04)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.34	(0.16)	0.36	(0.30)	0.26	(0.18)	0.50	(0.23)	1.47	(0.21)
Outdoors, other location	21.88	(10.05)	11.84	(9.68)	11.47	(8.06)	22.17	(10.15)	67.36	(9.61)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.66	(5.29)	6.99	(6.86)	9.07	(7.72)	10.98	(5.91)	36.71	(6.24)
In transit, bus	7.00	(3.84)	2.83	(2.78)	1.78	(1.51)	7.01	(3.77)	18.62	(3.17)
In transit, truck	0.10	(0.05)	0.14	(0.13)	0.24	(0.20)	0.08	(0.05)	0.56	(0.10)
In transit, van	0.56	(0.30)	0.18	(0.18)	0.20	(0.17)	0.41	(0.22)	1.34	(0.23)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.71	(0.39)	0.44	(0.43)	0.55	(0.47)	0.89	(0.48)	2.59	(0.44)
Outdoors, along a roadway	19.76	(10.83)	11.66	(11.43)	15.96	(13.58)	19.16	(10.30)	66.54	(11.32)
In transit, motorcycle	0.68	(0.37)	0.08	(0.08)	0.03	(0.02)	0.56	(0.30)	1.35	(0.23)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.01)	0.03	(0.03)	0.04	(0.04)	0.07	(0.04)	0.17	(0.03)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	94.98	(52.05)	53.38	(52.34)	63.50	(54.04)	98.06	(52.75)	309.93	(52.72)
Indoors, office	0.42	(0.23)	0.25	(0.24)	0.39	(0.33)	0.29	(0.16)	1.34	(0.23)
Indoors, store	1.93	(1.06)	0.93	(0.91)	1.19	(1.01)	1.96	(1.05)	6.00	(1.02)
Indoors, restaurant	1.04	(0.57)	1.07	(1.05)	1.35	(1.15)	1.58	(0.85)	5.04	(0.86)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	33.50	(18.36)	13.61	(13.34)	8.26	(7.03)	31.05	(16.70)	86.42	(14.70)
Indoors, church	0.89	(0.49)	0.43	(0.42)	0.43	(0.37)	0.92	(0.49)	2.67	(0.45)
Indoors, shopping mall	0.66	(0.36)	0.43	(0.42)	0.42	(0.35)	0.90	(0.49)	2.41	(0.41)
Indoors, auditorium	0.11	(0.06)	0.10	(0.10)	0.10	(0.09)	0.16	(0.09)	0.47	(0.08)
Indoors, health care facility	0.52	(0.29)	0.36	(0.35)	0.30	(0.25)	0.62	(0.34)	1.81	(0.31)
Indoors, public building	0.37	(0.20)	0.27	(0.26)	0.31	(0.26)	0.46	(0.25)	1.41	(0.24)
Indoors, other location	1.25	(0.69)	0.71	(0.70)	0.78	(0.66)	1.31	(0.71)	4.06	(0.69)
Indoors, not specified	0.00	(0.00)	0.01	(0.01)	0.05	(0.04)	0.00	(0.00)	0.06	(0.01)
Outdoors, construction	0.00	(0.00)	0.03	(0.03)	0.12	(0.10)	0.00	(0.00)	0.15	(0.03)
Outdoors, residential grounds	3.54	(1.94)	3.48	(3.41)	5.77	(4.91)	3.93	(2.11)	16.71	(2.84)
Outdoors, school grounds	4.04	(2.21)	2.32	(2.28)	1.79	(1.52)	4.61	(2.48)	12.76	(2.17)
Outdoors, sports arena	0.41	(0.22)	0.37	(0.37)	0.53	(0.45)	0.56	(0.30)	1.88	(0.32)
Outdoors, park/golf course	0.23	(0.13)	0.63	(0.62)	1.29	(1.10)	0.21	(0.11)	2.37	(0.40)
Outdoors, other location	0.06	(0.03)	1.26	(1.24)	3.05	(2.59)	0.07	(0.04)	4.44	(0.76)
Outdoors, not specified	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.01	(5.43)	6.42	(6.67)	9.40	(8.39)	10.08	(5.95)	34.92	(6.42)
In transit, bus	2.07	(1.25)	1.27	(1.32)	0.82	(0.73)	2.77	(1.64)	6.92	(1.27)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.84	(0.51)	0.41	(0.43)	0.30	(0.27)	0.83	(0.49)	2.39	(0.44)
Indoors, public garage	0.00	(0.00)	0.02	(0.02)	0.04	(0.04)	0.00	(0.00)	0.06	(0.01)
Outdoors, in a parking lot	0.45	(0.27)	0.36	(0.38)	0.55	(0.49)	0.51	(0.30)	1.88	(0.35)
Outdoors, along a roadway	4.81	(2.90)	3.73	(3.87)	6.27	(5.59)	4.90	(2.89)	19.71	(3.62)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.06	(0.06)	0.00	(0.00)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.15	(0.09)	0.07	(0.08)	0.08	(0.07)	0.15	(0.09)	0.44	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	126.74	(76.35)	68.85	(71.53)	77.53	(69.17)	125.95	(74.38)	399.06	(73.40)
Indoors, office	5.40	(3.25)	2.99	(3.11)	2.68	(2.39)	5.35	(3.16)	16.42	(3.02)
Indoors, store	1.36	(0.82)	0.99	(1.03)	1.51	(1.34)	1.37	(0.81)	5.23	(0.96)
Indoors, restaurant	3.15	(1.89)	1.85	(1.92)	2.03	(1.81)	3.52	(2.08)	10.54	(1.94)
Indoors, mfg. facility	1.59	(0.96)	1.12	(1.16)	1.31	(1.17)	1.93	(1.14)	5.96	(1.10)
Indoors, school	5.59	(3.37)	3.06	(3.18)	2.20	(1.96)	6.37	(3.76)	17.21	(3.17)
Indoors, church	1.51	(0.91)	0.74	(0.76)	0.56	(0.50)	1.47	(0.87)	4.27	(0.79)
Indoors, shopping mall	0.29	(0.18)	0.67	(0.70)	0.64	(0.57)	0.58	(0.34)	2.18	(0.40)
Indoors, auditorium	0.03	(0.02)	0.02	(0.02)	0.02	(0.02)	0.06	(0.04)	0.13	(0.02)
Indoors, health care facility	0.90	(0.54)	0.44	(0.46)	0.47	(0.42)	0.86	(0.51)	2.68	(0.49)
Indoors, public building	0.04	(0.02)	0.23	(0.24)	0.38	(0.34)	0.05	(0.03)	0.70	(0.13)
Indoors, other location	0.14	(0.09)	0.47	(0.49)	1.08	(0.97)	0.24	(0.14)	1.94	(0.36)
Indoors, not specified	0.04	(0.03)	0.13	(0.13)	0.31	(0.27)	0.06	(0.04)	0.54	(0.10)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.20	(0.72)	1.67	(1.74)	2.84	(2.53)	1.18	(0.69)	6.88	(1.27)
Outdoors, school grounds	0.47	(0.28)	0.41	(0.43)	0.28	(0.25)	0.95	(0.56)	2.11	(0.39)
Outdoors, sports arena	0.01	(0.00)	0.04	(0.04)	0.11	(0.10)	0.01	(0.01)	0.17	(0.03)
Outdoors, park/golf course	0.21	(0.13)	0.10	(0.10)	0.13	(0.12)	0.11	(0.06)	0.55	(0.10)
Outdoors, other location	0.02	(0.01)	0.16	(0.17)	0.50	(0.45)	0.03	(0.02)	0.72	(0.13)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Denver: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.91	(11.17)	10.32	(10.26)	11.70	(10.09)	20.12	(11.17)	62.05	(10.79)
In transit, bus	1.95	(1.10)	0.91	(0.90)	0.79	(0.68)	1.98	(1.10)	5.62	(0.98)
In transit, truck	1.70	(0.95)	0.87	(0.86)	0.98	(0.85)	1.76	(0.98)	5.31	(0.92)
In transit, van	0.71	(0.40)	0.45	(0.45)	0.47	(0.41)	0.67	(0.37)	2.30	(0.40)
Indoors, public garage	0.43	(0.24)	0.18	(0.18)	0.12	(0.10)	0.43	(0.24)	1.17	(0.20)
Outdoors, in a parking lot	0.70	(0.39)	0.60	(0.60)	0.86	(0.74)	0.82	(0.46)	2.98	(0.52)
Outdoors, along a roadway	7.07	(3.97)	5.77	(5.73)	8.28	(7.14)	7.49	(4.16)	28.60	(4.98)
In transit, motorcycle	0.03	(0.02)	0.09	(0.09)	0.19	(0.16)	0.03	(0.02)	0.34	(0.06)
Indoors, service station	0.57	(0.32)	0.18	(0.18)	0.11	(0.09)	0.47	(0.26)	1.33	(0.23)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.18	(0.10)	0.09	(0.09)	0.07	(0.06)	0.20	(0.11)	0.55	(0.09)
Indoors, in a repair shop	0.39	(0.22)	0.05	(0.05)	0.00	(0.00)	0.25	(0.14)	0.70	(0.12)
Indoors, home	108.47	(60.90)	59.95	(59.59)	68.21	(58.84)	110.16	(61.14)	346.79	(60.33)
Indoors, office	10.53	(5.91)	4.80	(4.77)	4.26	(3.67)	9.37	(5.20)	28.95	(5.04)
Indoors, store	2.92	(1.64)	1.74	(1.73)	2.09	(1.81)	2.86	(1.59)	9.62	(1.67)
Indoors, restaurant	3.77	(2.11)	1.91	(1.90)	2.21	(1.91)	3.89	(2.16)	11.78	(2.05)
Indoors, mfg. facility	1.20	(0.67)	0.90	(0.89)	1.23	(1.06)	1.19	(0.66)	4.52	(0.79)
Indoors, school	6.57	(3.69)	3.63	(3.61)	2.90	(2.50)	6.95	(3.86)	20.06	(3.49)
Indoors, church	0.78	(0.44)	0.44	(0.43)	0.45	(0.38)	0.83	(0.46)	2.50	(0.43)
Indoors, shopping mall	0.86	(0.48)	0.47	(0.46)	0.42	(0.36)	0.95	(0.53)	2.70	(0.47)
Indoors, auditorium	0.16	(0.09)	0.09	(0.09)	0.10	(0.09)	0.17	(0.09)	0.52	(0.09)
Indoors, health care facility	1.20	(0.67)	0.65	(0.65)	0.65	(0.56)	1.19	(0.66)	3.69	(0.64)
Indoors, public building	0.33	(0.18)	0.26	(0.26)	0.37	(0.32)	0.34	(0.19)	1.30	(0.23)
Indoors, other location	5.12	(2.87)	2.31	(2.30)	2.70	(2.33)	4.93	(2.74)	15.07	(2.62)
Indoors, not specified	0.25	(0.14)	0.07	(0.07)	0.07	(0.06)	0.20	(0.11)	0.57	(0.10)
Outdoors, construction	0.14	(0.08)	0.14	(0.14)	0.19	(0.16)	0.23	(0.12)	0.69	(0.12)
Outdoors, residential grounds	0.93	(0.52)	1.91	(1.90)	3.34	(2.88)	1.19	(0.66)	7.38	(1.28)
Outdoors, school grounds	0.47	(0.26)	0.38	(0.38)	0.43	(0.37)	0.62	(0.34)	1.90	(0.33)
Outdoors, sports arena	0.06	(0.04)	0.12	(0.12)	0.25	(0.22)	0.08	(0.04)	0.51	(0.09)
Outdoors, park/golf course	0.13	(0.07)	0.36	(0.35)	0.67	(0.58)	0.15	(0.08)	1.31	(0.23)
Outdoors, other location	0.46	(0.26)	0.91	(0.91)	1.75	(1.51)	0.52	(0.29)	3.65	(0.63)
Outdoors, not specified	0.02	(0.01)	0.03	(0.03)	0.04	(0.04)	0.02	(0.01)	0.12	(0.02)
In transit, train	0.13	(0.07)	0.03	(0.03)	0.03	(0.02)	0.11	(0.06)	0.30	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.81	(8.76)	7.48	(9.44)	12.29	(9.44)	14.31	(8.42)	43.88	(8.93)
In transit, bus	1.42	(1.27)	0.76	(0.96)	0.73	(0.56)	2.06	(1.21)	4.97	(1.01)
In transit, truck	0.99	(0.88)	0.66	(0.83)	0.87	(0.67)	1.41	(0.83)	3.93	(0.80)
In transit, van	0.57	(0.51)	0.41	(0.52)	0.63	(0.48)	0.92	(0.54)	2.54	(0.52)
Indoors, public garage	0.12	(0.11)	0.07	(0.09)	0.08	(0.06)	0.18	(0.11)	0.45	(0.09)
Outdoors, in a parking lot	0.74	(0.66)	0.57	(0.73)	0.95	(0.73)	1.07	(0.63)	3.34	(0.68)
Outdoors, along a roadway	5.19	(4.64)	4.90	(6.19)	9.17	(7.04)	7.57	(4.45)	26.84	(5.46)
In transit, motorcycle	0.00	(0.00)	0.07	(0.09)	0.22	(0.17)	0.01	(0.00)	0.30	(0.06)
Indoors, service station	0.19	(0.17)	0.11	(0.13)	0.09	(0.07)	0.28	(0.17)	0.67	(0.14)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.12	(0.10)	0.06	(0.07)	0.05	(0.04)	0.16	(0.09)	0.38	(0.08)
Indoors, in a repair shop	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
Indoors, home	69.61	(62.18)	47.10	(59.48)	79.51	(61.05)	107.78	(63.40)	304.00	(61.87)
Indoors, office	3.39	(3.03)	2.52	(3.19)	3.83	(2.94)	5.00	(2.94)	14.74	(3.00)
Indoors, store	1.81	(1.62)	1.41	(1.78)	2.27	(1.74)	2.65	(1.56)	8.14	(1.66)
Indoors, restaurant	2.12	(1.89)	1.51	(1.91)	2.31	(1.77)	3.08	(1.81)	9.02	(1.84)
Indoors, mfg. facility	1.28	(1.14)	0.88	(1.11)	1.23	(0.95)	1.94	(1.14)	5.33	(1.08)
Indoors, school	6.85	(6.12)	3.82	(4.82)	3.51	(2.69)	10.34	(6.08)	24.51	(4.99)
Indoors, church	0.52	(0.46)	0.33	(0.41)	0.44	(0.34)	0.79	(0.46)	2.07	(0.42)
Indoors, shopping mall	0.71	(0.63)	0.45	(0.57)	0.55	(0.43)	0.96	(0.57)	2.67	(0.54)
Indoors, auditorium	0.11	(0.10)	0.08	(0.10)	0.14	(0.10)	0.17	(0.10)	0.50	(0.10)
Indoors, health care facility	0.85	(0.76)	0.50	(0.64)	0.60	(0.46)	1.26	(0.74)	3.22	(0.66)
Indoors, public building	0.29	(0.26)	0.25	(0.32)	0.48	(0.37)	0.42	(0.25)	1.44	(0.29)
Indoors, other location	2.48	(2.21)	1.48	(1.87)	1.96	(1.50)	3.70	(2.17)	9.61	(1.96)
Indoors, not specified	0.01	(0.01)	0.02	(0.03)	0.06	(0.05)	0.02	(0.01)	0.11	(0.02)
Outdoors, construction	0.30	(0.27)	0.17	(0.22)	0.16	(0.12)	0.41	(0.24)	1.05	(0.21)
Outdoors, residential grounds	1.23	(1.10)	1.92	(2.43)	4.54	(3.49)	1.76	(1.04)	9.46	(1.92)
Outdoors, school grounds	0.78	(0.70)	0.45	(0.56)	0.38	(0.29)	1.11	(0.65)	2.72	(0.55)
Outdoors, sports arena	0.04	(0.03)	0.10	(0.12)	0.26	(0.20)	0.05	(0.03)	0.44	(0.09)
Outdoors, park/golf course	0.18	(0.16)	0.36	(0.45)	0.90	(0.69)	0.26	(0.15)	1.71	(0.35)
Outdoors, other location	0.21	(0.19)	0.71	(0.90)	2.01	(1.54)	0.29	(0.17)	3.22	(0.66)
Outdoors, not specified	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.03	(0.02)	0.07	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.24	(5.56)	4.89	(6.04)	8.08	(6.24)	9.26	(5.43)	28.48	(5.77)
In transit, bus	5.21	(4.64)	3.10	(3.83)	3.31	(2.55)	7.18	(4.21)	18.80	(3.81)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.00	(0.00)	0.03	(0.01)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.33	(0.30)	0.46	(0.57)	1.14	(0.88)	0.48	(0.28)	2.42	(0.49)
Outdoors, along a roadway	3.58	(3.20)	4.62	(5.70)	9.92	(7.65)	4.99	(2.93)	23.11	(4.68)
In transit, motorcycle	0.19	(0.17)	0.08	(0.10)	0.06	(0.04)	0.26	(0.15)	0.59	(0.12)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	78.79	(70.26)	55.07	(67.99)	89.32	(68.91)	121.41	(71.21)	344.60	(69.87)
Indoors, office	0.50	(0.44)	0.37	(0.46)	0.58	(0.45)	0.81	(0.48)	2.26	(0.46)
Indoors, store	0.67	(0.60)	0.83	(1.03)	1.69	(1.31)	1.04	(0.61)	4.23	(0.86)
Indoors, restaurant	0.43	(0.38)	0.17	(0.21)	0.24	(0.19)	0.64	(0.37)	1.49	(0.30)
Indoors, mfg. facility	0.08	(0.08)	0.00	(0.00)	0.03	(0.02)	0.31	(0.18)	0.42	(0.08)
Indoors, school	9.30	(8.30)	5.22	(6.44)	4.12	(3.18)	13.67	(8.02)	32.31	(6.55)
Indoors, church	1.30	(1.16)	0.93	(1.15)	1.33	(1.03)	1.93	(1.13)	5.49	(1.11)
Indoors, shopping mall	0.56	(0.50)	0.38	(0.47)	0.32	(0.25)	0.89	(0.52)	2.15	(0.44)
Indoors, auditorium	0.07	(0.06)	0.04	(0.05)	0.03	(0.03)	0.10	(0.06)	0.25	(0.05)
Indoors, health care facility	1.70	(1.52)	1.68	(2.07)	3.53	(2.72)	2.63	(1.54)	9.54	(1.93)
Indoors, public building	0.08	(0.07)	0.19	(0.24)	0.47	(0.36)	0.10	(0.06)	0.84	(0.17)
Indoors, other location	0.61	(0.54)	0.65	(0.80)	1.62	(1.25)	1.30	(0.76)	4.18	(0.85)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.97	(0.86)	1.10	(1.36)	2.12	(1.64)	1.30	(0.76)	5.49	(1.11)
Outdoors, school grounds	1.12	(1.00)	0.63	(0.78)	0.42	(0.33)	1.57	(0.92)	3.75	(0.76)
Outdoors, sports arena	0.40	(0.36)	0.24	(0.29)	0.20	(0.15)	0.61	(0.36)	1.45	(0.29)
Outdoors, park/golf course	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, other location	0.00	(0.00)	0.30	(0.38)	1.00	(0.77)	0.00	(0.00)	1.31	(0.26)
Outdoors, not specified	0.01	(0.01)	0.00	(0.01)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.00	(0.00)	0.02	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.38	(5.83)	4.79	(6.20)	7.52	(6.11)	9.14	(5.67)	27.83	(5.91)
In transit, bus	3.53	(3.23)	2.17	(2.82)	2.52	(2.04)	4.77	(2.96)	12.99	(2.76)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.00	(0.00)	0.02	(0.00)
In transit, van	0.70	(0.64)	0.38	(0.49)	0.30	(0.24)	0.94	(0.59)	2.32	(0.49)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.47	(0.43)	0.51	(0.66)	1.05	(0.85)	0.67	(0.41)	2.70	(0.57)
Outdoors, along a roadway	9.41	(8.60)	7.42	(9.62)	11.82	(9.61)	13.03	(8.08)	41.68	(8.85)
In transit, motorcycle	0.13	(0.12)	0.06	(0.07)	0.04	(0.03)	0.17	(0.11)	0.40	(0.09)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	74.15	(67.79)	50.70	(65.72)	82.87	(67.35)	111.24	(68.99)	318.96	(67.74)
Indoors, office	0.63	(0.58)	0.43	(0.56)	0.59	(0.48)	0.96	(0.60)	2.62	(0.56)
Indoors, store	0.64	(0.59)	0.75	(0.98)	1.49	(1.21)	0.95	(0.59)	3.84	(0.82)
Indoors, restaurant	0.51	(0.47)	0.24	(0.31)	0.28	(0.22)	0.72	(0.45)	1.75	(0.37)
Indoors, mfg. facility	0.07	(0.07)	0.00	(0.00)	0.02	(0.02)	0.25	(0.15)	0.34	(0.07)
Indoors, school	6.38	(5.84)	3.55	(4.60)	2.88	(2.34)	9.10	(5.64)	21.91	(4.65)
Indoors, church	1.27	(1.16)	0.94	(1.21)	1.31	(1.07)	1.82	(1.13)	5.34	(1.14)
Indoors, shopping mall	0.51	(0.46)	0.33	(0.43)	0.28	(0.22)	0.75	(0.46)	1.87	(0.40)
Indoors, auditorium	0.06	(0.06)	0.04	(0.05)	0.03	(0.02)	0.09	(0.05)	0.21	(0.04)
Indoors, health care facility	1.34	(1.23)	1.37	(1.78)	2.92	(2.37)	2.03	(1.26)	7.66	(1.63)
Indoors, public building	0.07	(0.06)	0.16	(0.21)	0.39	(0.32)	0.09	(0.05)	0.71	(0.15)
Indoors, other location	0.91	(0.84)	0.71	(0.93)	1.49	(1.21)	1.60	(0.99)	4.72	(1.00)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.96	(0.88)	1.50	(1.94)	3.41	(2.77)	1.24	(0.77)	7.12	(1.51)
Outdoors, school grounds	0.79	(0.72)	0.43	(0.56)	0.29	(0.23)	1.04	(0.64)	2.54	(0.54)
Outdoors, sports arena	0.36	(0.33)	0.20	(0.26)	0.17	(0.14)	0.51	(0.32)	1.25	(0.26)
Outdoors, park/golf course	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, other location	0.09	(0.08)	0.46	(0.59)	1.32	(1.07)	0.11	(0.07)	1.98	(0.42)
Outdoors, not specified	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.00	(0.00)	0.02	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	4.72	(4.34)	4.92	(6.25)	9.15	(7.36)	6.58	(4.08)	25.37	(5.36)
In transit, bus	1.49	(1.37)	0.78	(0.99)	0.54	(0.44)	2.08	(1.29)	4.90	(1.04)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.35	(0.45)	1.03	(0.83)	0.00	(0.00)	1.39	(0.29)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.90	(0.83)	0.59	(0.75)	0.78	(0.63)	1.32	(0.82)	3.58	(0.76)
Outdoors, along a roadway	6.18	(5.68)	4.20	(5.34)	5.60	(4.51)	8.34	(5.18)	24.33	(5.15)
In transit, motorcycle	0.00	(0.00)	0.08	(0.10)	0.22	(0.18)	0.00	(0.00)	0.30	(0.06)
Indoors, service station	0.00	(0.00)	0.01	(0.02)	0.04	(0.03)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	83.81	(77.10)	58.69	(74.56)	93.74	(75.43)	126.33	(78.42)	362.59	(76.69)
Indoors, office	0.06	(0.06)	0.05	(0.06)	0.10	(0.08)	0.11	(0.07)	0.32	(0.07)
Indoors, store	1.12	(1.03)	1.80	(2.29)	4.07	(3.28)	1.46	(0.91)	8.46	(1.79)
Indoors, restaurant	0.62	(0.57)	0.38	(0.49)	0.57	(0.46)	0.96	(0.60)	2.53	(0.54)
Indoors, mfg. facility	0.06	(0.06)	0.00	(0.01)	0.04	(0.03)	0.21	(0.13)	0.31	(0.07)
Indoors, school	6.01	(5.52)	3.26	(4.14)	2.25	(1.81)	8.71	(5.41)	20.22	(4.28)
Indoors, church	0.39	(0.36)	0.19	(0.24)	0.14	(0.11)	0.54	(0.33)	1.25	(0.27)
Indoors, shopping mall	1.00	(0.92)	0.57	(0.72)	0.36	(0.29)	1.27	(0.79)	3.20	(0.68)
Indoors, auditorium	0.14	(0.13)	0.13	(0.17)	0.21	(0.17)	0.20	(0.12)	0.68	(0.14)
Indoors, health care facility	0.38	(0.35)	0.30	(0.38)	0.37	(0.29)	0.54	(0.34)	1.58	(0.34)
Indoors, public building	0.15	(0.14)	0.07	(0.09)	0.05	(0.04)	0.20	(0.12)	0.48	(0.10)
Indoors, other location	0.73	(0.67)	0.46	(0.59)	0.67	(0.54)	0.94	(0.58)	2.80	(0.59)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.68	(0.63)	0.70	(0.89)	1.38	(1.11)	0.97	(0.60)	3.73	(0.79)
Outdoors, school grounds	0.24	(0.22)	0.14	(0.18)	0.09	(0.07)	0.32	(0.20)	0.79	(0.17)
Outdoors, sports arena	0.00	(0.00)	0.07	(0.08)	0.20	(0.16)	0.00	(0.00)	0.27	(0.06)
Outdoors, park/golf course	0.01	(0.01)	0.08	(0.10)	0.21	(0.17)	0.01	(0.01)	0.32	(0.07)
Outdoors, other location	0.01	(0.01)	0.88	(1.12)	2.47	(1.99)	0.02	(0.01)	3.39	(0.72)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.67	(7.77)	6.38	(8.15)	9.76	(7.69)	12.59	(7.46)	37.40	(7.70)
In transit, bus	1.41	(1.26)	0.71	(0.90)	0.60	(0.47)	1.95	(1.16)	4.67	(0.96)
In transit, truck	0.67	(0.60)	0.33	(0.42)	0.29	(0.23)	0.93	(0.55)	2.22	(0.46)
In transit, van	0.14	(0.13)	0.08	(0.10)	0.09	(0.07)	0.22	(0.13)	0.53	(0.11)
Indoors, public garage	0.00	(0.00)	0.05	(0.06)	0.14	(0.11)	0.00	(0.00)	0.19	(0.04)
Outdoors, in a parking lot	0.87	(0.78)	0.81	(1.03)	1.63	(1.29)	1.25	(0.74)	4.56	(0.94)
Outdoors, along a roadway	5.09	(4.57)	5.32	(6.80)	10.40	(8.19)	7.47	(4.42)	28.28	(5.82)
In transit, motorcycle	0.00	(0.00)	0.54	(0.69)	1.67	(1.31)	0.00	(0.00)	2.21	(0.46)
Indoors, service station	0.01	(0.01)	0.05	(0.06)	0.13	(0.11)	0.01	(0.01)	0.20	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.15	(0.13)	0.09	(0.11)	0.07	(0.06)	0.21	(0.12)	0.52	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	71.15	(63.80)	48.87	(62.46)	82.41	(64.90)	109.85	(65.05)	312.28	(64.31)
Indoors, office	2.31	(2.07)	1.53	(1.95)	1.81	(1.43)	3.37	(1.99)	9.02	(1.86)
Indoors, store	1.71	(1.53)	1.47	(1.88)	2.58	(2.03)	2.51	(1.49)	8.27	(1.70)
Indoors, restaurant	4.19	(3.75)	2.29	(2.93)	2.47	(1.95)	6.00	(3.55)	14.95	(3.08)
Indoors, mfg. facility	2.06	(1.85)	1.12	(1.43)	1.06	(0.84)	3.20	(1.89)	7.44	(1.53)
Indoors, school	5.14	(4.61)	2.65	(3.39)	1.96	(1.54)	7.81	(4.63)	17.56	(3.62)
Indoors, church	0.60	(0.54)	0.40	(0.51)	0.53	(0.42)	0.91	(0.54)	2.43	(0.50)
Indoors, shopping mall	0.72	(0.65)	0.33	(0.42)	0.23	(0.18)	0.99	(0.59)	2.27	(0.47)
Indoors, auditorium	0.07	(0.06)	0.05	(0.06)	0.07	(0.06)	0.09	(0.05)	0.28	(0.06)
Indoors, health care facility	1.18	(1.06)	0.95	(1.22)	1.86	(1.47)	1.74	(1.03)	5.74	(1.18)
Indoors, public building	0.07	(0.07)	0.05	(0.06)	0.06	(0.04)	0.12	(0.07)	0.29	(0.06)
Indoors, other location	3.33	(2.98)	1.63	(2.08)	1.53	(1.20)	4.77	(2.83)	11.26	(2.32)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.98	(0.88)	1.41	(1.80)	3.16	(2.49)	1.46	(0.86)	7.01	(1.44)
Outdoors, school grounds	0.89	(0.80)	0.45	(0.57)	0.33	(0.26)	1.25	(0.74)	2.92	(0.60)
Outdoors, sports arena	0.00	(0.00)	0.05	(0.07)	0.15	(0.12)	0.00	(0.00)	0.21	(0.04)
Outdoors, park/golf course	0.11	(0.10)	0.53	(0.68)	1.64	(1.29)	0.15	(0.09)	2.43	(0.50)
Outdoors, other location	0.00	(0.00)	0.11	(0.14)	0.33	(0.26)	0.00	(0.00)	0.44	(0.09)
Outdoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.92	(8.87)	7.55	(9.54)	12.47	(9.51)	14.63	(8.56)	44.57	(9.04)
In transit, bus	1.22	(1.09)	0.68	(0.86)	0.78	(0.60)	1.80	(1.05)	4.48	(0.91)
In transit, truck	0.72	(0.64)	0.40	(0.50)	0.36	(0.27)	1.00	(0.58)	2.47	(0.50)
In transit, van	1.03	(0.92)	0.68	(0.87)	0.95	(0.73)	1.67	(0.98)	4.34	(0.88)
Indoors, public garage	0.25	(0.22)	0.12	(0.15)	0.08	(0.06)	0.38	(0.22)	0.83	(0.17)
Outdoors, in a parking lot	0.69	(0.61)	0.55	(0.69)	0.91	(0.69)	0.99	(0.58)	3.13	(0.63)
Outdoors, along a roadway	6.39	(5.71)	5.69	(7.19)	10.15	(7.74)	9.34	(5.46)	31.57	(6.40)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.03	(0.03)	0.02	(0.03)	0.03	(0.02)	0.06	(0.03)	0.14	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.15	(0.13)	0.06	(0.08)	0.06	(0.04)	0.20	(0.12)	0.47	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	69.91	(62.44)	47.02	(59.41)	79.58	(60.69)	108.75	(63.59)	305.26	(61.89)
Indoors, office	3.89	(3.47)	2.94	(3.71)	4.54	(3.46)	5.74	(3.36)	17.11	(3.47)
Indoors, store	1.40	(1.25)	1.23	(1.55)	2.21	(1.69)	2.10	(1.23)	6.94	(1.41)
Indoors, restaurant	1.58	(1.41)	1.23	(1.55)	1.97	(1.50)	2.29	(1.34)	7.06	(1.43)
Indoors, mfg. facility	1.37	(1.23)	1.00	(1.27)	1.46	(1.11)	2.11	(1.23)	5.94	(1.21)
Indoors, school	5.00	(4.47)	2.73	(3.45)	2.46	(1.88)	7.66	(4.48)	17.85	(3.62)
Indoors, church	0.75	(0.67)	0.45	(0.57)	0.58	(0.44)	1.15	(0.67)	2.93	(0.59)
Indoors, shopping mall	0.58	(0.52)	0.38	(0.48)	0.52	(0.40)	0.78	(0.45)	2.26	(0.46)
Indoors, auditorium	0.13	(0.11)	0.07	(0.09)	0.09	(0.07)	0.19	(0.11)	0.48	(0.10)
Indoors, health care facility	0.81	(0.72)	0.45	(0.57)	0.47	(0.36)	1.21	(0.71)	2.93	(0.59)
Indoors, public building	0.33	(0.29)	0.33	(0.42)	0.70	(0.53)	0.49	(0.29)	1.85	(0.38)
Indoors, other location	2.48	(2.21)	1.47	(1.86)	2.04	(1.56)	3.78	(2.21)	9.78	(1.98)
Indoors, not specified	0.00	(0.00)	0.03	(0.04)	0.10	(0.08)	0.01	(0.00)	0.14	(0.03)
Outdoors, construction	0.65	(0.58)	0.38	(0.48)	0.36	(0.27)	0.91	(0.53)	2.29	(0.46)
Outdoors, residential grounds	1.46	(1.30)	1.97	(2.49)	4.33	(3.30)	2.07	(1.21)	9.83	(1.99)
Outdoors, school grounds	0.62	(0.56)	0.36	(0.46)	0.33	(0.26)	0.91	(0.53)	2.23	(0.45)
Outdoors, sports arena	0.02	(0.01)	0.08	(0.11)	0.25	(0.19)	0.02	(0.01)	0.37	(0.08)
Outdoors, park/golf course	0.17	(0.15)	0.22	(0.28)	0.45	(0.34)	0.25	(0.14)	1.08	(0.22)
Outdoors, other location	0.41	(0.36)	1.06	(1.33)	2.90	(2.21)	0.54	(0.32)	4.91	(1.00)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.72	(11.22)	9.15	(11.42)	14.42	(10.87)	18.75	(10.83)	55.04	(11.02)
In transit, bus	2.10	(1.85)	1.10	(1.38)	0.88	(0.66)	2.96	(1.71)	7.04	(1.41)
In transit, truck	0.40	(0.35)	0.69	(0.86)	1.70	(1.28)	0.58	(0.33)	3.36	(0.67)
In transit, van	0.01	(0.01)	0.16	(0.20)	0.52	(0.39)	0.01	(0.01)	0.71	(0.14)
Indoors, public garage	0.03	(0.02)	0.02	(0.03)	0.04	(0.03)	0.04	(0.02)	0.13	(0.03)
Outdoors, in a parking lot	0.76	(0.67)	0.50	(0.63)	0.74	(0.56)	1.09	(0.63)	3.09	(0.62)
Outdoors, along a roadway	4.90	(4.33)	4.95	(6.17)	9.91	(7.47)	7.20	(4.16)	26.96	(5.40)
In transit, motorcycle	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.03	(0.01)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.03)	0.02	(0.02)	0.01	(0.01)	0.05	(0.03)	0.11	(0.02)
Indoors, in a repair shop	0.03	(0.03)	0.02	(0.02)	0.01	(0.01)	0.04	(0.03)	0.10	(0.02)
Indoors, home	66.85	(59.00)	44.31	(55.30)	74.46	(56.11)	104.61	(60.40)	290.23	(58.12)
Indoors, office	4.90	(4.33)	3.70	(4.62)	5.88	(4.43)	7.33	(4.23)	21.82	(4.37)
Indoors, store	1.78	(1.57)	1.33	(1.66)	2.10	(1.58)	2.62	(1.52)	7.83	(1.57)
Indoors, restaurant	2.14	(1.89)	1.65	(2.06)	2.62	(1.98)	3.20	(1.85)	9.61	(1.92)
Indoors, mfg. facility	1.52	(1.34)	0.90	(1.12)	1.11	(0.84)	2.24	(1.29)	5.77	(1.16)
Indoors, school	8.06	(7.11)	4.24	(5.29)	3.16	(2.38)	12.11	(6.99)	27.57	(5.52)
Indoors, church	0.34	(0.30)	0.23	(0.29)	0.32	(0.24)	0.54	(0.31)	1.43	(0.29)
Indoors, shopping mall	1.02	(0.90)	0.72	(0.90)	0.98	(0.74)	1.44	(0.83)	4.16	(0.83)
Indoors, auditorium	0.06	(0.05)	0.09	(0.11)	0.23	(0.17)	0.09	(0.05)	0.47	(0.09)
Indoors, health care facility	0.72	(0.64)	0.61	(0.76)	1.11	(0.83)	1.10	(0.64)	3.54	(0.71)
Indoors, public building	0.27	(0.24)	0.15	(0.18)	0.17	(0.13)	0.39	(0.22)	0.98	(0.20)
Indoors, other location	2.32	(2.05)	1.38	(1.72)	1.70	(1.28)	3.45	(1.99)	8.85	(1.77)
Indoors, not specified	0.04	(0.03)	0.02	(0.03)	0.01	(0.01)	0.06	(0.03)	0.13	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.95	(0.84)	2.56	(3.20)	7.17	(5.41)	1.41	(0.81)	12.10	(2.42)
Outdoors, school grounds	0.86	(0.76)	0.48	(0.59)	0.37	(0.28)	1.17	(0.67)	2.87	(0.57)
Outdoors, sports arena	0.10	(0.09)	0.12	(0.15)	0.24	(0.18)	0.14	(0.08)	0.60	(0.12)
Outdoors, park/golf course	0.30	(0.27)	0.60	(0.75)	1.55	(1.17)	0.45	(0.26)	2.90	(0.58)
Outdoors, other location	0.08	(0.07)	0.43	(0.54)	1.27	(0.96)	0.12	(0.07)	1.90	(0.38)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.58	(6.60)	6.34	(7.67)	11.19	(8.41)	10.74	(6.21)	35.84	(7.12)
In transit, bus	0.06	(0.05)	0.11	(0.13)	0.32	(0.24)	0.19	(0.11)	0.68	(0.14)
In transit, truck	2.48	(2.17)	1.19	(1.44)	0.92	(0.69)	3.74	(2.16)	8.34	(1.66)
In transit, van	1.44	(1.25)	0.78	(0.94)	0.63	(0.47)	2.08	(1.20)	4.93	(0.98)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.26	(0.23)	0.47	(0.56)	1.09	(0.82)	0.39	(0.23)	2.21	(0.44)
Outdoors, along a roadway	5.16	(4.50)	4.71	(5.69)	8.52	(6.41)	7.67	(4.44)	26.06	(5.18)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.09	(0.07)	0.00	(0.00)	0.00	(0.00)	0.32	(0.18)	0.40	(0.08)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	72.39	(63.06)	48.68	(58.88)	77.65	(58.39)	109.79	(63.48)	308.52	(61.28)
Indoors, office	2.52	(2.20)	2.16	(2.62)	3.69	(2.77)	3.75	(2.17)	12.12	(2.41)
Indoors, store	0.21	(0.18)	0.33	(0.40)	0.74	(0.56)	0.27	(0.16)	1.55	(0.31)
Indoors, restaurant	2.76	(2.40)	2.21	(2.68)	3.63	(2.73)	4.07	(2.35)	12.67	(2.52)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, school	7.98	(6.95)	5.99	(7.25)	9.07	(6.82)	12.27	(7.09)	35.31	(7.01)
Indoors, church	0.35	(0.31)	0.20	(0.24)	0.25	(0.19)	0.45	(0.26)	1.25	(0.25)
Indoors, shopping mall	0.22	(0.19)	0.14	(0.17)	0.10	(0.07)	0.30	(0.17)	0.76	(0.15)
Indoors, auditorium	0.42	(0.37)	0.24	(0.29)	0.21	(0.16)	0.66	(0.38)	1.53	(0.30)
Indoors, health care facility	0.60	(0.52)	0.33	(0.40)	0.24	(0.18)	0.84	(0.48)	2.00	(0.40)
Indoors, public building	0.00	(0.00)	0.35	(0.42)	1.16	(0.87)	0.00	(0.00)	1.51	(0.30)
Indoors, other location	4.18	(3.64)	2.53	(3.06)	3.39	(2.55)	7.01	(4.05)	17.11	(3.40)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, residential grounds	4.19	(3.65)	3.49	(4.22)	5.39	(4.05)	5.71	(3.30)	18.78	(3.73)
Outdoors, school grounds	1.32	(1.15)	0.94	(1.14)	0.95	(0.71)	1.86	(1.08)	5.08	(1.01)
Outdoors, sports arena	0.00	(0.00)	0.10	(0.12)	0.31	(0.24)	0.00	(0.00)	0.42	(0.08)
Outdoors, park/golf course	0.56	(0.49)	0.81	(0.98)	1.73	(1.30)	0.84	(0.48)	3.95	(0.78)
Outdoors, other location	0.00	(0.00)	0.57	(0.69)	1.78	(1.34)	0.00	(0.00)	2.35	(0.47)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.35	(5.74)	5.19	(6.61)	9.18	(7.05)	9.29	(5.50)	30.02	(6.15)
In transit, bus	3.13	(2.83)	1.61	(2.05)	1.30	(1.00)	4.47	(2.65)	10.51	(2.15)
In transit, truck	0.08	(0.08)	0.15	(0.19)	0.39	(0.30)	0.14	(0.08)	0.76	(0.16)
In transit, van	0.99	(0.90)	0.59	(0.75)	0.74	(0.57)	1.60	(0.94)	3.92	(0.80)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.37	(0.33)	0.33	(0.42)	0.60	(0.46)	0.52	(0.31)	1.82	(0.37)
Outdoors, along a roadway	6.48	(5.85)	6.73	(8.58)	13.46	(10.34)	9.46	(5.60)	36.13	(7.40)
In transit, motorcycle	0.03	(0.03)	0.02	(0.03)	0.04	(0.03)	0.05	(0.03)	0.14	(0.03)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.16	(0.14)	0.08	(0.10)	0.06	(0.05)	0.21	(0.13)	0.51	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	71.09	(64.21)	47.78	(60.89)	80.98	(62.18)	110.21	(65.26)	310.06	(63.51)
Indoors, office	0.06	(0.06)	0.13	(0.16)	0.36	(0.27)	0.09	(0.05)	0.64	(0.13)
Indoors, store	0.91	(0.82)	0.70	(0.89)	1.09	(0.84)	1.35	(0.80)	4.04	(0.83)
Indoors, restaurant	0.89	(0.81)	0.79	(1.01)	1.46	(1.12)	1.29	(0.77)	4.44	(0.91)
Indoors, mfg. facility	0.03	(0.02)	0.01	(0.02)	0.01	(0.01)	0.04	(0.02)	0.08	(0.02)
Indoors, school	13.93	(12.59)	7.73	(9.85)	7.06	(5.42)	21.19	(12.55)	49.91	(10.22)
Indoors, church	0.40	(0.37)	0.27	(0.35)	0.40	(0.31)	0.62	(0.36)	1.70	(0.35)
Indoors, shopping mall	0.62	(0.56)	0.40	(0.51)	0.47	(0.36)	0.81	(0.48)	2.30	(0.47)
Indoors, auditorium	0.13	(0.11)	0.08	(0.10)	0.11	(0.09)	0.19	(0.11)	0.51	(0.10)
Indoors, health care facility	0.49	(0.44)	0.42	(0.53)	0.76	(0.58)	0.71	(0.42)	2.38	(0.49)
Indoors, public building	0.11	(0.10)	0.15	(0.19)	0.35	(0.27)	0.17	(0.10)	0.78	(0.16)
Indoors, other location	0.65	(0.59)	0.64	(0.81)	1.27	(0.98)	1.05	(0.62)	3.62	(0.74)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.84	(1.67)	2.52	(3.21)	5.84	(4.48)	2.63	(1.55)	12.83	(2.63)
Outdoors, school grounds	1.60	(1.44)	0.91	(1.16)	0.74	(0.57)	2.30	(1.36)	5.54	(1.13)
Outdoors, sports arena	0.14	(0.13)	0.16	(0.20)	0.34	(0.26)	0.20	(0.12)	0.84	(0.17)
Outdoors, park/golf course	0.14	(0.13)	0.36	(0.45)	0.98	(0.75)	0.21	(0.12)	1.68	(0.34)
Outdoors, other location	0.03	(0.03)	0.70	(0.89)	2.20	(1.69)	0.04	(0.03)	2.97	(0.61)
Outdoors, not specified	0.04	(0.03)	0.02	(0.03)	0.02	(0.02)	0.07	(0.04)	0.15	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.78	(9.94)	10.12	(11.65)	18.39	(13.12)	17.16	(9.70)	57.44	(11.00)
In transit, bus	0.03	(0.03)	0.00	(0.00)	0.00	(0.00)	0.10	(0.06)	0.13	(0.03)
In transit, truck	1.74	(1.47)	3.30	(3.81)	8.59	(6.13)	2.36	(1.34)	16.00	(3.06)
In transit, van	0.00	(0.00)	0.69	(0.80)	2.21	(1.58)	0.00	(0.00)	2.90	(0.56)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.92	(0.78)	0.93	(1.07)	1.76	(1.26)	1.35	(0.76)	4.96	(0.95)
Outdoors, along a roadway	14.21	(11.98)	7.97	(9.18)	7.62	(5.44)	20.65	(11.67)	50.45	(9.66)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.03	(0.02)	0.02	(0.02)	0.02	(0.01)	0.05	(0.03)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	71.15	(60.02)	46.14	(53.14)	69.95	(49.92)	108.49	(61.31)	295.72	(56.60)
Indoors, office	3.22	(2.71)	1.74	(2.00)	1.35	(0.96)	4.63	(2.62)	10.94	(2.09)
Indoors, store	0.53	(0.45)	0.32	(0.37)	0.30	(0.21)	0.82	(0.46)	1.97	(0.38)
Indoors, restaurant	1.08	(0.91)	0.57	(0.66)	0.51	(0.36)	1.60	(0.90)	3.76	(0.72)
Indoors, mfg. facility	0.00	(0.00)	2.42	(2.79)	7.55	(5.39)	0.00	(0.00)	9.97	(1.91)
Indoors, school	6.00	(5.06)	3.13	(3.61)	2.24	(1.60)	8.99	(5.08)	20.37	(3.90)
Indoors, church	0.18	(0.15)	0.17	(0.20)	0.31	(0.22)	0.24	(0.14)	0.90	(0.17)
Indoors, shopping mall	0.69	(0.58)	0.31	(0.35)	0.21	(0.15)	0.94	(0.53)	2.14	(0.41)
Indoors, auditorium	0.01	(0.00)	0.31	(0.36)	1.02	(0.73)	0.00	(0.00)	1.34	(0.26)
Indoors, health care facility	0.27	(0.22)	0.14	(0.16)	0.10	(0.07)	0.38	(0.22)	0.89	(0.17)
Indoors, public building	1.54	(1.30)	0.69	(0.80)	0.48	(0.34)	2.09	(1.18)	4.79	(0.92)
Indoors, other location	2.93	(2.47)	1.38	(1.59)	1.43	(1.02)	4.13	(2.33)	9.87	(1.89)
Indoors, not specified	0.02	(0.02)	0.01	(0.01)	0.01	(0.01)	0.03	(0.02)	0.08	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.04	(0.03)	0.00	(0.00)	0.04	(0.01)
Outdoors, residential grounds	0.66	(0.55)	0.84	(0.97)	1.72	(1.23)	0.90	(0.51)	4.12	(0.79)
Outdoors, school grounds	1.48	(1.25)	0.83	(0.95)	0.53	(0.38)	1.87	(1.05)	4.71	(0.90)
Outdoors, sports arena	0.03	(0.02)	0.51	(0.58)	1.40	(1.00)	0.02	(0.01)	1.95	(0.37)
Outdoors, park/golf course	0.06	(0.05)	0.02	(0.03)	0.03	(0.02)	0.08	(0.05)	0.19	(0.04)
Outdoors, other location	0.00	(0.00)	4.24	(4.89)	12.38	(8.84)	0.02	(0.01)	16.65	(3.19)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.04	(0.02)	0.05	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.69	(13.20)	11.23	(13.37)	16.87	(12.53)	22.69	(12.67)	66.47	(12.87)
In transit, bus	0.08	(0.07)	0.10	(0.12)	0.28	(0.21)	0.13	(0.07)	0.60	(0.12)
In transit, truck	2.22	(1.86)	1.42	(1.69)	1.83	(1.36)	3.24	(1.81)	8.69	(1.68)
In transit, van	0.83	(0.70)	0.84	(1.00)	1.58	(1.17)	1.26	(0.70)	4.51	(0.87)
Indoors, public garage	1.11	(0.93)	0.65	(0.77)	0.60	(0.45)	1.56	(0.87)	3.92	(0.76)
Outdoors, in a parking lot	0.99	(0.83)	0.73	(0.86)	1.07	(0.79)	1.39	(0.78)	4.18	(0.81)
Outdoors, along a roadway	6.32	(5.31)	5.11	(6.09)	8.09	(6.01)	9.14	(5.10)	28.65	(5.55)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.11	(0.93)	0.62	(0.74)	0.55	(0.41)	1.64	(0.92)	3.93	(0.76)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.57	(0.48)	0.31	(0.37)	0.27	(0.20)	0.85	(0.48)	2.00	(0.39)
Indoors, in a repair shop	0.08	(0.07)	0.00	(0.00)	0.00	(0.00)	0.18	(0.10)	0.26	(0.05)
Indoors, home	63.54	(53.45)	41.26	(49.11)	67.48	(50.10)	98.64	(55.08)	270.92	(52.44)
Indoors, office	9.60	(8.08)	7.84	(9.33)	12.48	(9.27)	14.01	(7.82)	43.92	(8.50)
Indoors, store	1.30	(1.09)	1.39	(1.65)	2.79	(2.07)	1.93	(1.08)	7.41	(1.43)
Indoors, restaurant	2.16	(1.81)	1.39	(1.65)	1.67	(1.24)	3.17	(1.77)	8.38	(1.62)
Indoors, mfg. facility	2.47	(2.08)	2.16	(2.57)	3.75	(2.78)	3.57	(1.99)	11.94	(2.31)
Indoors, school	1.07	(0.90)	0.69	(0.82)	0.81	(0.60)	1.59	(0.89)	4.17	(0.81)
Indoors, church	0.53	(0.45)	0.31	(0.37)	0.37	(0.27)	0.83	(0.47)	2.05	(0.40)
Indoors, shopping mall	0.34	(0.28)	0.22	(0.26)	0.24	(0.18)	0.44	(0.24)	1.23	(0.24)
Indoors, auditorium	0.02	(0.02)	0.03	(0.04)	0.09	(0.07)	0.03	(0.02)	0.17	(0.03)
Indoors, health care facility	0.77	(0.65)	0.59	(0.70)	0.86	(0.64)	1.12	(0.63)	3.34	(0.65)
Indoors, public building	0.15	(0.13)	0.47	(0.56)	1.36	(1.01)	0.22	(0.13)	2.21	(0.43)
Indoors, other location	3.63	(3.06)	2.16	(2.57)	2.94	(2.18)	5.41	(3.02)	14.14	(2.74)
Indoors, not specified	0.19	(0.16)	0.08	(0.09)	0.05	(0.04)	0.26	(0.15)	0.58	(0.11)
Outdoors, construction	1.17	(0.98)	0.63	(0.75)	0.45	(0.33)	1.59	(0.89)	3.84	(0.74)
Outdoors, residential grounds	0.68	(0.57)	1.68	(2.00)	4.47	(3.32)	0.94	(0.52)	7.76	(1.50)
Outdoors, school grounds	0.13	(0.11)	0.08	(0.09)	0.07	(0.05)	0.18	(0.10)	0.46	(0.09)
Outdoors, sports arena	0.02	(0.02)	0.06	(0.08)	0.18	(0.13)	0.03	(0.01)	0.29	(0.06)
Outdoors, park/golf course	0.22	(0.18)	0.31	(0.37)	0.65	(0.48)	0.32	(0.18)	1.50	(0.29)
Outdoors, other location	1.84	(1.55)	1.62	(1.93)	2.80	(2.08)	2.64	(1.48)	8.90	(1.72)
Outdoors, not specified	0.03	(0.02)	0.01	(0.02)	0.01	(0.01)	0.04	(0.02)	0.09	(0.02)
In transit, train	0.03	(0.02)	0.01	(0.01)	0.01	(0.01)	0.05	(0.03)	0.10	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.15	(10.26)	8.41	(10.85)	13.13	(10.40)	15.87	(9.69)	48.56	(10.19)
In transit, bus	0.21	(0.19)	0.18	(0.24)	0.33	(0.26)	0.33	(0.20)	1.06	(0.22)
In transit, truck	0.10	(0.09)	0.00	(0.00)	0.00	(0.00)	0.15	(0.09)	0.25	(0.05)
In transit, van	0.05	(0.04)	0.09	(0.12)	0.19	(0.15)	0.08	(0.05)	0.42	(0.09)
Indoors, public garage	0.05	(0.05)	0.02	(0.03)	0.02	(0.01)	0.07	(0.04)	0.16	(0.03)
Outdoors, in a parking lot	0.41	(0.38)	0.42	(0.54)	0.81	(0.64)	0.57	(0.35)	2.21	(0.46)
Outdoors, along a roadway	4.00	(3.68)	3.92	(5.05)	7.33	(5.81)	5.62	(3.43)	20.86	(4.38)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.03)	0.01	(0.01)	0.01	(0.01)	0.04	(0.02)	0.08	(0.02)
Indoors, in a repair shop	0.05	(0.05)	0.03	(0.04)	0.02	(0.02)	0.08	(0.05)	0.18	(0.04)
Indoors, home	80.05	(73.66)	54.38	(70.15)	88.36	(69.97)	122.71	(74.87)	345.51	(72.54)
Indoors, office	0.10	(0.09)	0.06	(0.07)	0.09	(0.07)	0.18	(0.11)	0.42	(0.09)
Indoors, store	1.40	(1.28)	1.75	(2.25)	3.70	(2.93)	2.05	(1.25)	8.89	(1.87)
Indoors, restaurant	1.86	(1.71)	1.13	(1.46)	1.45	(1.14)	2.58	(1.57)	7.01	(1.47)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	3.39	(3.12)	1.94	(2.50)	1.88	(1.49)	5.02	(3.06)	12.23	(2.57)
Indoors, church	0.51	(0.47)	0.33	(0.43)	0.44	(0.35)	0.77	(0.47)	2.05	(0.43)
Indoors, shopping mall	0.07	(0.07)	0.13	(0.16)	0.37	(0.29)	0.10	(0.06)	0.67	(0.14)
Indoors, auditorium	0.23	(0.21)	0.16	(0.21)	0.25	(0.20)	0.34	(0.20)	0.98	(0.21)
Indoors, health care facility	0.34	(0.31)	0.24	(0.31)	0.35	(0.28)	0.49	(0.30)	1.42	(0.30)
Indoors, public building	0.18	(0.16)	0.14	(0.19)	0.24	(0.19)	0.27	(0.16)	0.82	(0.17)
Indoors, other location	2.80	(2.58)	1.76	(2.27)	2.06	(1.63)	4.24	(2.58)	10.86	(2.28)
Indoors, not specified	0.00	(0.00)	0.03	(0.04)	0.11	(0.09)	0.00	(0.00)	0.14	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.14	(1.04)	1.15	(1.49)	2.09	(1.65)	1.53	(0.93)	5.91	(1.24)
Outdoors, school grounds	0.38	(0.35)	0.24	(0.30)	0.33	(0.26)	0.53	(0.32)	1.47	(0.31)
Outdoors, sports arena	0.02	(0.02)	0.08	(0.10)	0.23	(0.18)	0.02	(0.01)	0.34	(0.07)
Outdoors, park/golf course	0.09	(0.08)	0.40	(0.51)	1.04	(0.83)	0.13	(0.08)	1.66	(0.35)
Outdoors, other location	0.08	(0.08)	0.52	(0.67)	1.44	(1.14)	0.12	(0.07)	2.16	(0.45)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.72	(11.34)	9.28	(11.59)	14.60	(11.13)	18.61	(10.96)	55.21	(11.19)
In transit, bus	0.99	(0.88)	0.72	(0.90)	1.12	(0.85)	1.42	(0.83)	4.24	(0.86)
In transit, truck	0.88	(0.78)	0.60	(0.75)	0.94	(0.71)	1.27	(0.75)	3.68	(0.75)
In transit, van	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, public garage	0.11	(0.10)	0.05	(0.07)	0.04	(0.03)	0.16	(0.10)	0.37	(0.07)
Outdoors, in a parking lot	0.55	(0.49)	0.49	(0.61)	0.88	(0.67)	0.78	(0.46)	2.70	(0.55)
Outdoors, along a roadway	3.49	(3.11)	3.26	(4.07)	6.02	(4.59)	5.07	(2.98)	17.83	(3.61)
In transit, motorcycle	0.00	(0.00)	0.44	(0.55)	1.35	(1.03)	0.00	(0.00)	1.80	(0.36)
Indoors, service station	0.02	(0.02)	0.01	(0.02)	0.01	(0.01)	0.03	(0.02)	0.08	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.02)	0.01	(0.01)	0.01	(0.01)	0.03	(0.02)	0.06	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	66.30	(59.11)	45.04	(56.22)	76.09	(58.01)	103.05	(60.66)	290.48	(58.87)
Indoors, office	10.75	(9.59)	7.49	(9.35)	9.85	(7.51)	15.57	(9.16)	43.66	(8.85)
Indoors, store	3.15	(2.81)	2.18	(2.72)	2.76	(2.10)	4.47	(2.63)	12.56	(2.55)
Indoors, restaurant	2.70	(2.41)	2.03	(2.53)	3.22	(2.46)	3.87	(2.28)	11.83	(2.40)
Indoors, mfg. facility	1.15	(1.03)	0.62	(0.77)	0.48	(0.37)	1.71	(1.00)	3.96	(0.80)
Indoors, school	2.78	(2.48)	1.51	(1.89)	1.16	(0.88)	4.11	(2.42)	9.57	(1.94)
Indoors, church	0.56	(0.50)	0.38	(0.47)	0.51	(0.39)	0.86	(0.51)	2.31	(0.47)
Indoors, shopping mall	0.79	(0.70)	0.45	(0.57)	0.47	(0.36)	1.14	(0.67)	2.85	(0.58)
Indoors, auditorium	0.09	(0.08)	0.09	(0.11)	0.18	(0.14)	0.13	(0.08)	0.49	(0.10)
Indoors, health care facility	1.32	(1.18)	0.79	(0.99)	0.98	(0.75)	1.97	(1.16)	5.06	(1.03)
Indoors, public building	0.21	(0.19)	0.27	(0.33)	0.62	(0.47)	0.32	(0.19)	1.42	(0.29)
Indoors, other location	2.80	(2.49)	1.70	(2.13)	2.37	(1.81)	4.20	(2.47)	11.07	(2.24)
Indoors, not specified	0.05	(0.04)	0.02	(0.03)	0.02	(0.01)	0.06	(0.04)	0.15	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.37	(0.33)	1.22	(1.52)	3.32	(2.53)	0.54	(0.32)	5.45	(1.10)
Outdoors, school grounds	0.12	(0.11)	0.07	(0.09)	0.09	(0.07)	0.16	(0.10)	0.45	(0.09)
Outdoors, sports arena	0.02	(0.02)	0.09	(0.11)	0.23	(0.18)	0.02	(0.01)	0.36	(0.07)
Outdoors, park/golf course	0.08	(0.07)	0.33	(0.41)	1.04	(0.79)	0.10	(0.06)	1.55	(0.31)
Outdoors, other location	0.03	(0.03)	0.90	(1.13)	2.79	(2.12)	0.05	(0.03)	3.77	(0.76)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.13	(0.11)	0.06	(0.08)	0.05	(0.04)	0.18	(0.10)	0.41	(0.08)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.00	(10.05)	7.89	(9.96)	10.96	(8.62)	15.34	(9.36)	45.18	(9.42)
In transit, bus	0.13	(0.12)	0.00	(0.00)	0.17	(0.13)	0.13	(0.08)	0.43	(0.09)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.33	(0.30)	0.20	(0.26)	0.18	(0.14)	0.55	(0.33)	1.26	(0.26)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.82	(0.75)	0.56	(0.71)	0.61	(0.48)	1.18	(0.72)	3.18	(0.66)
Outdoors, along a roadway	3.63	(3.32)	2.36	(2.98)	2.70	(2.12)	5.20	(3.17)	13.89	(2.90)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.17	(1.07)	0.69	(0.88)	0.52	(0.41)	1.61	(0.98)	3.99	(0.83)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	81.26	(74.29)	52.74	(66.64)	80.62	(63.36)	124.16	(75.72)	338.77	(70.63)
Indoors, office	0.10	(0.09)	0.13	(0.17)	0.27	(0.22)	0.15	(0.09)	0.66	(0.14)
Indoors, store	1.06	(0.97)	1.56	(1.97)	3.25	(2.56)	1.50	(0.92)	7.37	(1.54)
Indoors, restaurant	0.19	(0.18)	0.39	(0.49)	0.91	(0.72)	0.38	(0.23)	1.87	(0.39)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	2.32	(2.12)	1.23	(1.55)	0.93	(0.73)	3.27	(2.00)	7.74	(1.61)
Indoors, church	0.50	(0.46)	0.30	(0.38)	0.21	(0.17)	0.73	(0.45)	1.76	(0.37)
Indoors, shopping mall	0.22	(0.21)	0.00	(0.00)	0.00	(0.00)	0.26	(0.16)	0.49	(0.10)
Indoors, auditorium	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.01	(0.00)	0.02	(0.00)
Indoors, health care facility	2.98	(2.72)	1.55	(1.95)	1.13	(0.89)	4.18	(2.55)	9.83	(2.05)
Indoors, public building	0.00	(0.00)	0.25	(0.31)	0.73	(0.57)	0.01	(0.01)	0.99	(0.21)
Indoors, other location	2.42	(2.22)	1.44	(1.82)	1.75	(1.37)	3.36	(2.05)	8.97	(1.87)
Indoors, not specified	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.03	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.20	(1.10)	7.30	(9.22)	20.50	(16.11)	1.90	(1.16)	30.90	(6.44)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, park/golf course	0.02	(0.02)	0.40	(0.51)	1.25	(0.98)	0.02	(0.01)	1.69	(0.35)
Outdoors, other location	0.00	(0.00)	0.15	(0.19)	0.49	(0.39)	0.00	(0.00)	0.64	(0.13)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.50	(14.48)	12.46	(14.63)	19.16	(14.08)	25.67	(14.10)	74.80	(14.27)
In transit, bus	1.15	(0.95)	0.54	(0.63)	0.40	(0.29)	1.75	(0.96)	3.83	(0.73)
In transit, truck	4.51	(3.73)	2.77	(3.25)	2.78	(2.04)	6.34	(3.48)	16.40	(3.13)
In transit, van	0.50	(0.41)	0.26	(0.31)	0.24	(0.18)	0.69	(0.38)	1.70	(0.32)
Indoors, public garage	0.59	(0.49)	0.31	(0.36)	0.22	(0.16)	0.81	(0.44)	1.92	(0.37)
Outdoors, in a parking lot	0.75	(0.62)	0.53	(0.62)	0.79	(0.58)	1.06	(0.58)	3.13	(0.60)
Outdoors, along a roadway	4.10	(3.39)	3.79	(4.45)	6.99	(5.14)	5.97	(3.28)	20.85	(3.98)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.25	(0.20)	0.13	(0.16)	0.11	(0.08)	0.46	(0.25)	0.95	(0.18)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	62.33	(51.58)	40.47	(47.50)	66.36	(48.77)	96.43	(52.96)	265.59	(50.68)
Indoors, office	10.08	(8.34)	10.09	(11.85)	19.34	(14.21)	14.90	(8.18)	54.41	(10.38)
Indoors, store	2.96	(2.45)	1.66	(1.95)	1.56	(1.15)	4.43	(2.44)	10.63	(2.03)
Indoors, restaurant	2.66	(2.20)	2.02	(2.37)	3.05	(2.24)	3.89	(2.14)	11.61	(2.22)
Indoors, mfg. facility	3.03	(2.51)	2.90	(3.41)	5.22	(3.84)	4.40	(2.42)	15.56	(2.97)
Indoors, school	1.62	(1.34)	0.85	(1.00)	0.66	(0.48)	2.28	(1.25)	5.41	(1.03)
Indoors, church	0.57	(0.47)	0.37	(0.43)	0.45	(0.33)	0.88	(0.48)	2.27	(0.43)
Indoors, shopping mall	0.14	(0.12)	0.02	(0.02)	0.02	(0.02)	0.17	(0.10)	0.36	(0.07)
Indoors, auditorium	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Indoors, health care facility	0.08	(0.06)	0.03	(0.03)	0.02	(0.02)	0.16	(0.09)	0.29	(0.05)
Indoors, public building	0.43	(0.36)	0.25	(0.29)	0.36	(0.26)	0.64	(0.35)	1.69	(0.32)
Indoors, other location	6.30	(5.21)	3.31	(3.89)	2.62	(1.93)	9.36	(5.14)	21.60	(4.12)
Indoors, not specified	0.09	(0.07)	0.03	(0.04)	0.02	(0.02)	0.16	(0.09)	0.31	(0.06)
Outdoors, construction	0.00	(0.00)	0.32	(0.37)	0.87	(0.64)	0.00	(0.00)	1.19	(0.23)
Outdoors, residential grounds	0.31	(0.26)	1.29	(1.51)	3.44	(2.53)	0.44	(0.24)	5.48	(1.05)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.27	(0.22)	0.30	(0.35)	0.53	(0.39)	0.40	(0.22)	1.49	(0.28)
Outdoors, other location	0.62	(0.51)	0.48	(0.56)	0.84	(0.62)	0.77	(0.42)	2.70	(0.52)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.01	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.09	(5.82)	4.84	(6.43)	7.82	(6.33)	9.12	(5.75)	27.88	(6.03)
In transit, bus	0.18	(0.17)	0.10	(0.13)	0.07	(0.06)	0.26	(0.17)	0.61	(0.13)
In transit, truck	0.07	(0.06)	0.00	(0.00)	0.00	(0.00)	0.08	(0.05)	0.15	(0.03)
In transit, van	0.55	(0.52)	0.29	(0.38)	0.24	(0.20)	0.82	(0.52)	1.90	(0.41)
Indoors, public garage	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.01)	0.05	(0.01)
Outdoors, in a parking lot	0.29	(0.28)	0.36	(0.48)	0.77	(0.62)	0.43	(0.27)	1.85	(0.40)
Outdoors, along a roadway	2.23	(2.13)	2.31	(3.07)	4.55	(3.68)	3.36	(2.12)	12.45	(2.69)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	87.20	(83.32)	59.10	(78.52)	94.26	(76.24)	132.81	(83.65)	373.39	(80.75)
Indoors, office	0.30	(0.29)	0.22	(0.30)	0.27	(0.22)	0.44	(0.28)	1.24	(0.27)
Indoors, store	1.31	(1.25)	0.92	(1.22)	1.30	(1.05)	1.95	(1.23)	5.48	(1.18)
Indoors, restaurant	1.51	(1.44)	1.57	(2.08)	3.03	(2.45)	2.17	(1.36)	8.27	(1.79)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.33	(0.32)	0.15	(0.21)	0.14	(0.12)	0.51	(0.32)	1.14	(0.25)
Indoors, church	0.81	(0.77)	0.51	(0.67)	0.55	(0.44)	1.20	(0.76)	3.06	(0.66)
Indoors, shopping mall	0.56	(0.53)	0.63	(0.83)	1.23	(0.99)	0.88	(0.55)	3.29	(0.71)
Indoors, auditorium	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Indoors, health care facility	0.24	(0.23)	0.29	(0.39)	0.65	(0.53)	0.37	(0.23)	1.55	(0.34)
Indoors, public building	0.31	(0.29)	0.18	(0.24)	0.21	(0.17)	0.42	(0.27)	1.12	(0.24)
Indoors, other location	1.56	(1.49)	1.13	(1.50)	1.72	(1.39)	2.24	(1.41)	6.65	(1.44)
Indoors, not specified	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.03	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.06	(1.02)	2.01	(2.67)	4.83	(3.91)	1.56	(0.98)	9.47	(2.05)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, park/golf course	0.00	(0.00)	0.29	(0.38)	0.91	(0.74)	0.00	(0.00)	1.20	(0.26)
Outdoors, other location	0.05	(0.05)	0.35	(0.47)	1.09	(0.88)	0.07	(0.04)	1.56	(0.34)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.83	(9.63)	7.77	(9.79)	11.91	(9.27)	15.76	(9.26)	46.28	(9.43)
In transit, bus	0.86	(0.77)	0.57	(0.72)	0.78	(0.61)	1.30	(0.76)	3.51	(0.72)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.18	(0.16)	0.08	(0.11)	0.06	(0.05)	0.29	(0.17)	0.62	(0.13)
Indoors, public garage	0.05	(0.05)	0.03	(0.03)	0.02	(0.02)	0.08	(0.04)	0.18	(0.04)
Outdoors, in a parking lot	0.49	(0.44)	0.74	(0.93)	1.78	(1.39)	0.70	(0.41)	3.71	(0.76)
Outdoors, along a roadway	3.08	(2.74)	3.00	(3.77)	5.68	(4.42)	4.58	(2.69)	16.33	(3.33)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.02)	0.01	(0.01)	0.01	(0.01)	0.03	(0.02)	0.07	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	67.50	(60.07)	46.96	(59.12)	81.06	(63.07)	104.36	(61.32)	299.88	(61.14)
Indoors, office	11.06	(9.84)	6.87	(8.65)	7.27	(5.65)	16.17	(9.50)	41.37	(8.43)
Indoors, store	2.39	(2.13)	1.88	(2.37)	2.81	(2.19)	3.41	(2.00)	10.49	(2.14)
Indoors, restaurant	4.89	(4.35)	3.03	(3.82)	3.66	(2.85)	7.10	(4.17)	18.68	(3.81)
Indoors, mfg. facility	0.00	(0.00)	1.17	(1.47)	3.70	(2.88)	0.00	(0.00)	4.87	(0.99)
Indoors, school	2.12	(1.89)	1.53	(1.93)	2.16	(1.68)	3.12	(1.83)	8.94	(1.82)
Indoors, church	0.44	(0.39)	0.52	(0.65)	1.09	(0.85)	0.68	(0.40)	2.72	(0.55)
Indoors, shopping mall	1.41	(1.26)	0.85	(1.07)	0.61	(0.48)	2.04	(1.20)	4.92	(1.00)
Indoors, auditorium	0.05	(0.04)	0.03	(0.04)	0.02	(0.02)	0.07	(0.04)	0.18	(0.04)
Indoors, health care facility	2.22	(1.98)	1.16	(1.46)	0.89	(0.69)	3.32	(1.95)	7.58	(1.55)
Indoors, public building	0.03	(0.02)	0.09	(0.12)	0.26	(0.21)	0.05	(0.03)	0.43	(0.09)
Indoors, other location	3.85	(3.43)	1.81	(2.28)	1.78	(1.38)	5.78	(3.40)	13.22	(2.70)
Indoors, not specified	0.03	(0.03)	0.18	(0.22)	0.53	(0.41)	0.05	(0.03)	0.79	(0.16)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.62	(0.55)	0.76	(0.95)	1.55	(1.21)	0.97	(0.57)	3.90	(0.80)
Outdoors, school grounds	0.14	(0.13)	0.08	(0.10)	0.06	(0.04)	0.19	(0.11)	0.47	(0.10)
Outdoors, sports arena	0.01	(0.00)	0.13	(0.17)	0.42	(0.33)	0.00	(0.00)	0.56	(0.12)
Outdoors, park/golf course	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Outdoors, other location	0.08	(0.07)	0.17	(0.22)	0.43	(0.34)	0.12	(0.07)	0.81	(0.16)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.60	(15.25)	12.36	(14.37)	15.99	(11.71)	25.08	(14.78)	71.03	(13.99)
In transit, bus	1.80	(1.56)	0.98	(1.14)	0.67	(0.49)	2.40	(1.42)	5.86	(1.15)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.02	(0.02)	0.04	(0.03)	0.00	(0.00)	0.06	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.73	(0.64)	0.92	(1.07)	1.92	(1.41)	1.04	(0.61)	4.62	(0.91)
Outdoors, along a roadway	4.34	(3.76)	6.80	(7.90)	15.26	(11.18)	6.18	(3.64)	32.58	(6.42)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.04	(0.04)	0.11	(0.08)	0.00	(0.00)	0.14	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.02)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	75.32	(65.25)	52.46	(61.01)	83.80	(61.37)	112.63	(66.37)	324.21	(63.87)
Indoors, office	3.45	(2.99)	1.93	(2.25)	1.48	(1.09)	5.03	(2.96)	11.89	(2.34)
Indoors, store	0.59	(0.51)	0.71	(0.83)	1.47	(1.08)	0.89	(0.52)	3.66	(0.72)
Indoors, restaurant	3.40	(2.95)	2.85	(3.32)	4.50	(3.29)	4.90	(2.89)	15.65	(3.08)
Indoors, mfg. facility	1.09	(0.94)	0.59	(0.68)	0.40	(0.30)	1.58	(0.93)	3.66	(0.72)
Indoors, school	0.02	(0.02)	0.00	(0.00)	0.00	(0.00)	0.06	(0.04)	0.08	(0.02)
Indoors, church	0.86	(0.75)	0.59	(0.69)	0.72	(0.53)	1.30	(0.77)	3.48	(0.69)
Indoors, shopping mall	0.05	(0.04)	0.82	(0.95)	2.42	(1.78)	0.16	(0.10)	3.45	(0.68)
Indoors, auditorium	0.66	(0.58)	0.32	(0.38)	0.28	(0.20)	0.97	(0.57)	2.24	(0.44)
Indoors, health care facility	0.24	(0.20)	0.48	(0.55)	1.16	(0.85)	0.33	(0.19)	2.20	(0.43)
Indoors, public building	0.05	(0.04)	0.05	(0.06)	0.10	(0.08)	0.08	(0.05)	0.29	(0.06)
Indoors, other location	2.66	(2.30)	1.37	(1.59)	1.18	(0.86)	3.62	(2.13)	8.82	(1.74)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.22	(1.06)	1.78	(2.07)	3.80	(2.78)	1.54	(0.91)	8.33	(1.64)
Outdoors, school grounds	0.60	(0.52)	0.26	(0.30)	0.17	(0.13)	0.79	(0.47)	1.82	(0.36)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.61	(0.52)	0.36	(0.41)	0.23	(0.17)	0.86	(0.51)	2.05	(0.40)
Outdoors, other location	0.00	(0.00)	0.25	(0.29)	0.76	(0.56)	0.00	(0.00)	1.01	(0.20)
Outdoors, not specified	0.12	(0.10)	0.07	(0.08)	0.04	(0.03)	0.15	(0.09)	0.39	(0.08)
In transit, train	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.05	(0.03)	0.06	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.84	(6.36)	6.97	(8.69)	12.48	(9.73)	9.70	(6.12)	35.98	(7.59)
In transit, bus	0.40	(0.37)	0.43	(0.53)	0.71	(0.55)	0.56	(0.35)	2.09	(0.44)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
Indoors, public garage	0.02	(0.02)	0.07	(0.08)	0.20	(0.15)	0.02	(0.01)	0.30	(0.06)
Outdoors, in a parking lot	0.13	(0.12)	0.20	(0.25)	0.43	(0.34)	0.19	(0.12)	0.95	(0.20)
Outdoors, along a roadway	1.89	(1.75)	2.77	(3.45)	6.33	(4.94)	2.66	(1.68)	13.65	(2.88)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	89.96	(83.73)	61.90	(77.19)	95.04	(74.13)	133.68	(84.31)	380.59	(80.23)
Indoors, office	0.07	(0.07)	0.02	(0.03)	0.02	(0.02)	0.18	(0.11)	0.29	(0.06)
Indoors, store	0.42	(0.39)	1.66	(2.07)	4.52	(3.53)	0.59	(0.37)	7.19	(1.52)
Indoors, restaurant	1.48	(1.38)	1.55	(1.94)	2.50	(1.95)	1.99	(1.25)	7.52	(1.59)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, church	1.26	(1.17)	0.71	(0.89)	0.76	(0.59)	1.79	(1.13)	4.51	(0.95)
Indoors, shopping mall	2.67	(2.48)	1.61	(2.01)	1.06	(0.83)	3.81	(2.40)	9.15	(1.93)
Indoors, auditorium	0.07	(0.07)	0.05	(0.06)	0.03	(0.02)	0.10	(0.06)	0.25	(0.05)
Indoors, health care facility	0.34	(0.31)	0.17	(0.21)	0.11	(0.09)	0.51	(0.32)	1.12	(0.24)
Indoors, public building	0.25	(0.23)	0.15	(0.19)	0.11	(0.09)	0.35	(0.22)	0.87	(0.18)
Indoors, other location	1.32	(1.23)	1.24	(1.54)	2.21	(1.72)	1.92	(1.21)	6.69	(1.41)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.17	(0.16)	0.52	(0.64)	1.40	(1.09)	0.25	(0.16)	2.34	(0.49)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.16	(0.15)	0.11	(0.13)	0.09	(0.07)	0.25	(0.16)	0.61	(0.13)
Outdoors, park/golf course	0.00	(0.00)	0.01	(0.02)	0.04	(0.03)	0.00	(0.00)	0.05	(0.01)
Outdoors, other location	0.00	(0.00)	0.05	(0.06)	0.16	(0.13)	0.00	(0.00)	0.21	(0.05)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.93	(6.05)	7.08	(7.39)	13.77	(8.78)	11.43	(5.84)	40.20	(6.94)
In transit, bus	0.00	(0.00)	0.00	(0.00)	0.04	(0.03)	0.00	(0.00)	0.04	(0.01)
In transit, truck	8.38	(6.39)	6.30	(6.58)	10.02	(6.39)	12.52	(6.39)	37.21	(6.42)
In transit, van	0.03	(0.02)	0.00	(0.00)	0.00	(0.00)	0.12	(0.06)	0.15	(0.03)
Indoors, public garage	3.09	(2.36)	1.52	(1.58)	1.04	(0.67)	4.27	(2.18)	9.92	(1.71)
Outdoors, in a parking lot	2.51	(1.91)	1.65	(1.72)	2.04	(1.30)	3.43	(1.75)	9.63	(1.66)
Outdoors, along a roadway	17.71	(13.51)	16.30	(17.03)	29.36	(18.72)	25.38	(12.96)	88.75	(15.31)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.41	(0.31)	0.09	(0.09)	0.09	(0.06)	1.13	(0.58)	1.71	(0.30)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.25	(0.19)	0.04	(0.04)	0.03	(0.02)	0.27	(0.14)	0.58	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, home	58.00	(44.25)	35.63	(37.20)	55.83	(35.61)	90.73	(46.33)	240.18	(41.44)
Indoors, office	0.79	(0.60)	0.36	(0.38)	0.27	(0.17)	1.35	(0.69)	2.77	(0.48)
Indoors, store	0.41	(0.31)	0.18	(0.19)	0.14	(0.09)	0.56	(0.29)	1.29	(0.22)
Indoors, restaurant	1.36	(1.04)	1.21	(1.26)	2.24	(1.43)	2.19	(1.12)	7.00	(1.21)
Indoors, mfg. facility	3.12	(2.38)	5.81	(6.07)	14.74	(9.40)	4.30	(2.19)	27.98	(4.83)
Indoors, school	1.21	(0.92)	0.65	(0.68)	0.47	(0.30)	1.73	(0.89)	4.07	(0.70)
Indoors, church	0.63	(0.48)	0.25	(0.26)	0.20	(0.13)	0.88	(0.45)	1.96	(0.34)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.02	(0.01)	0.17	(0.18)	0.58	(0.37)	0.02	(0.01)	0.78	(0.13)
Indoors, health care facility	0.00	(0.00)	0.17	(0.18)	0.49	(0.31)	0.00	(0.00)	0.66	(0.11)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	1.04	(0.79)	0.44	(0.45)	0.34	(0.21)	1.78	(0.91)	3.59	(0.62)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	8.22	(6.27)	6.19	(6.47)	8.32	(5.31)	11.03	(5.63)	33.75	(5.82)
Outdoors, residential grounds	1.85	(1.41)	1.13	(1.18)	1.08	(0.69)	2.49	(1.27)	6.55	(1.13)
Outdoors, school grounds	0.13	(0.10)	0.07	(0.07)	0.05	(0.03)	0.17	(0.09)	0.41	(0.07)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.57	(0.44)	0.34	(0.35)	0.25	(0.16)	0.86	(0.44)	2.02	(0.35)
Outdoors, other location	13.45	(10.26)	10.19	(10.65)	15.40	(9.82)	19.22	(9.82)	58.26	(10.05)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.18	(6.20)	6.08	(7.45)	11.12	(8.26)	10.46	(5.92)	34.84	(6.85)
In transit, bus	4.39	(3.79)	2.21	(2.71)	1.85	(1.37)	6.33	(3.59)	14.78	(2.91)
In transit, truck	0.10	(0.08)	0.10	(0.12)	0.18	(0.13)	0.16	(0.09)	0.53	(0.11)
In transit, van	0.11	(0.10)	0.11	(0.13)	0.19	(0.14)	0.19	(0.11)	0.61	(0.12)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.53	(0.46)	0.39	(0.48)	0.64	(0.47)	0.73	(0.41)	2.29	(0.45)
Outdoors, along a roadway	9.85	(8.50)	9.27	(11.36)	17.71	(13.16)	14.55	(8.25)	51.39	(10.11)
In transit, motorcycle	0.08	(0.07)	0.03	(0.04)	0.02	(0.02)	0.15	(0.08)	0.28	(0.05)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.05	(0.04)	0.03	(0.04)	0.04	(0.03)	0.07	(0.04)	0.19	(0.04)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	63.37	(54.70)	42.55	(52.15)	74.06	(55.02)	98.83	(56.01)	278.82	(54.83)
Indoors, office	0.03	(0.03)	0.19	(0.23)	0.59	(0.44)	0.07	(0.04)	0.88	(0.17)
Indoors, store	0.81	(0.70)	0.72	(0.88)	1.35	(1.00)	1.21	(0.68)	4.09	(0.80)
Indoors, restaurant	1.29	(1.12)	1.04	(1.27)	1.80	(1.33)	1.85	(1.05)	5.98	(1.18)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	18.60	(16.06)	9.90	(12.14)	8.18	(6.08)	28.44	(16.12)	65.12	(12.81)
Indoors, church	0.46	(0.40)	0.35	(0.43)	0.56	(0.41)	0.71	(0.40)	2.08	(0.41)
Indoors, shopping mall	0.73	(0.63)	0.39	(0.47)	0.32	(0.24)	0.93	(0.52)	2.37	(0.47)
Indoors, auditorium	0.15	(0.13)	0.10	(0.12)	0.15	(0.11)	0.21	(0.12)	0.60	(0.12)
Indoors, health care facility	0.57	(0.49)	0.35	(0.43)	0.41	(0.31)	0.82	(0.46)	2.15	(0.42)
Indoors, public building	0.33	(0.29)	0.25	(0.30)	0.38	(0.29)	0.49	(0.28)	1.46	(0.29)
Indoors, other location	0.82	(0.71)	0.68	(0.83)	1.15	(0.85)	1.20	(0.68)	3.84	(0.76)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, residential grounds	2.14	(1.85)	2.95	(3.61)	7.00	(5.20)	3.08	(1.75)	15.18	(2.98)
Outdoors, school grounds	3.58	(3.09)	1.97	(2.42)	1.44	(1.07)	5.08	(2.88)	12.08	(2.38)
Outdoors, sports arena	0.41	(0.35)	0.37	(0.46)	0.69	(0.51)	0.57	(0.32)	2.04	(0.40)
Outdoors, park/golf course	0.15	(0.13)	0.53	(0.65)	1.53	(1.14)	0.23	(0.13)	2.44	(0.48)
Outdoors, other location	0.08	(0.07)	1.04	(1.27)	3.23	(2.40)	0.12	(0.07)	4.46	(0.88)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	5.93	(5.53)	4.95	(6.42)	8.48	(6.74)	8.36	(5.18)	27.72	(5.88)
In transit, bus	2.20	(2.05)	1.24	(1.61)	1.04	(0.82)	3.03	(1.88)	7.51	(1.59)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.71	(0.66)	0.39	(0.51)	0.34	(0.27)	1.09	(0.68)	2.53	(0.54)
Indoors, public garage	0.00	(0.00)	0.02	(0.02)	0.06	(0.05)	0.00	(0.00)	0.08	(0.02)
Outdoors, in a parking lot	0.33	(0.31)	0.28	(0.36)	0.47	(0.38)	0.46	(0.29)	1.55	(0.33)
Outdoors, along a roadway	2.59	(2.42)	2.96	(3.84)	6.41	(5.10)	3.66	(2.27)	15.63	(3.31)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.09	(0.09)	0.05	(0.06)	0.03	(0.03)	0.12	(0.08)	0.30	(0.06)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	78.45	(73.14)	54.65	(70.92)	91.20	(72.56)	120.39	(74.54)	344.70	(73.09)
Indoors, office	3.66	(3.42)	2.45	(3.17)	2.98	(2.37)	5.36	(3.32)	14.45	(3.06)
Indoors, store	0.75	(0.70)	0.73	(0.95)	1.40	(1.11)	1.04	(0.65)	3.92	(0.83)
Indoors, restaurant	1.74	(1.62)	1.72	(2.23)	3.15	(2.51)	2.39	(1.48)	9.00	(1.91)
Indoors, mfg. facility	1.57	(1.47)	0.84	(1.09)	0.66	(0.52)	2.27	(1.41)	5.34	(1.13)
Indoors, school	4.77	(4.44)	2.49	(3.23)	1.83	(1.46)	6.94	(4.29)	16.02	(3.40)
Indoors, church	1.05	(0.97)	0.58	(0.75)	0.48	(0.38)	1.57	(0.97)	3.67	(0.78)
Indoors, shopping mall	0.64	(0.60)	0.79	(1.02)	1.42	(1.13)	0.95	(0.59)	3.80	(0.81)
Indoors, auditorium	0.05	(0.05)	0.02	(0.03)	0.02	(0.01)	0.07	(0.05)	0.17	(0.04)
Indoors, health care facility	0.43	(0.40)	0.35	(0.46)	0.62	(0.49)	0.63	(0.39)	2.03	(0.43)
Indoors, public building	0.04	(0.04)	0.22	(0.28)	0.67	(0.53)	0.06	(0.04)	0.98	(0.21)
Indoors, other location	0.24	(0.22)	0.32	(0.42)	0.65	(0.52)	0.32	(0.20)	1.54	(0.33)
Indoors, not specified	0.01	(0.01)	0.12	(0.15)	0.39	(0.31)	0.01	(0.00)	0.52	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.02	(0.95)	1.32	(1.71)	2.76	(2.20)	1.49	(0.92)	6.59	(1.40)
Outdoors, school grounds	0.91	(0.85)	0.47	(0.61)	0.31	(0.25)	1.18	(0.73)	2.88	(0.61)
Outdoors, sports arena	0.01	(0.01)	0.00	(0.01)	0.00	(0.00)	0.02	(0.01)	0.04	(0.01)
Outdoors, park/golf course	0.01	(0.01)	0.06	(0.08)	0.21	(0.17)	0.03	(0.02)	0.31	(0.07)
Outdoors, other location	0.05	(0.04)	0.06	(0.07)	0.13	(0.10)	0.06	(0.04)	0.29	(0.06)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Houston: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.14	(9.89)	8.11	(10.13)	12.50	(9.58)	16.22	(9.51)	47.96	(9.72)
In transit, bus	1.24	(1.10)	0.71	(0.88)	0.73	(0.56)	1.77	(1.04)	4.45	(0.90)
In transit, truck	0.98	(0.87)	0.62	(0.78)	0.82	(0.63)	1.42	(0.83)	3.84	(0.78)
In transit, van	0.51	(0.45)	0.37	(0.47)	0.57	(0.44)	0.79	(0.46)	2.24	(0.45)
Indoors, public garage	0.26	(0.23)	0.15	(0.18)	0.13	(0.10)	0.38	(0.22)	0.92	(0.19)
Outdoors, in a parking lot	0.56	(0.50)	0.50	(0.63)	0.91	(0.70)	0.80	(0.47)	2.78	(0.56)
Outdoors, along a roadway	4.96	(4.40)	4.87	(6.08)	9.20	(7.06)	7.19	(4.22)	26.22	(5.31)
In transit, motorcycle	0.01	(0.01)	0.07	(0.09)	0.21	(0.16)	0.01	(0.01)	0.30	(0.06)
Indoors, service station	0.21	(0.19)	0.11	(0.14)	0.10	(0.08)	0.33	(0.19)	0.76	(0.15)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.14	(0.12)	0.07	(0.09)	0.06	(0.05)	0.20	(0.12)	0.48	(0.10)
Indoors, in a repair shop	0.02	(0.02)	0.00	(0.00)	0.00	(0.00)	0.04	(0.03)	0.07	(0.01)
Indoors, home	70.36	(62.48)	47.89	(59.83)	80.21	(61.50)	108.51	(63.64)	306.97	(62.19)
Indoors, office	5.34	(4.75)	3.48	(4.34)	4.36	(3.35)	8.00	(4.69)	21.18	(4.29)
Indoors, store	1.67	(1.48)	1.37	(1.71)	2.22	(1.70)	2.45	(1.44)	7.71	(1.56)
Indoors, restaurant	2.05	(1.82)	1.47	(1.83)	2.19	(1.68)	2.99	(1.75)	8.71	(1.76)
Indoors, mfg. facility	0.88	(0.78)	0.67	(0.83)	1.03	(0.79)	1.31	(0.77)	3.89	(0.79)
Indoors, school	5.05	(4.49)	2.92	(3.65)	2.80	(2.15)	7.49	(4.39)	18.26	(3.70)
Indoors, church	0.52	(0.46)	0.35	(0.43)	0.47	(0.36)	0.79	(0.46)	2.13	(0.43)
Indoors, shopping mall	0.62	(0.55)	0.42	(0.52)	0.52	(0.40)	0.87	(0.51)	2.43	(0.49)
Indoors, auditorium	0.09	(0.08)	0.07	(0.09)	0.12	(0.09)	0.14	(0.08)	0.42	(0.09)
Indoors, health care facility	0.76	(0.68)	0.51	(0.64)	0.74	(0.56)	1.14	(0.67)	3.15	(0.64)
Indoors, public building	0.21	(0.19)	0.22	(0.27)	0.45	(0.35)	0.31	(0.18)	1.20	(0.24)
Indoors, other location	2.65	(2.35)	1.58	(1.97)	2.03	(1.56)	3.99	(2.34)	10.24	(2.07)
Indoors, not specified	0.05	(0.05)	0.04	(0.05)	0.07	(0.05)	0.08	(0.05)	0.24	(0.05)
Outdoors, construction	0.20	(0.18)	0.12	(0.15)	0.12	(0.09)	0.28	(0.16)	0.72	(0.15)
Outdoors, residential grounds	0.96	(0.85)	1.78	(2.22)	4.38	(3.36)	1.36	(0.80)	8.47	(1.72)
Outdoors, school grounds	0.55	(0.49)	0.33	(0.41)	0.29	(0.22)	0.78	(0.45)	1.95	(0.40)
Outdoors, sports arena	0.05	(0.05)	0.10	(0.13)	0.25	(0.19)	0.07	(0.04)	0.48	(0.10)
Outdoors, park/golf course	0.13	(0.12)	0.32	(0.40)	0.83	(0.64)	0.19	(0.11)	1.47	(0.30)
Outdoors, other location	0.36	(0.32)	0.79	(0.99)	2.05	(1.57)	0.52	(0.30)	3.73	(0.76)
Outdoors, not specified	0.02	(0.02)	0.01	(0.01)	0.01	(0.01)	0.03	(0.02)	0.07	(0.01)
In transit, train	0.03	(0.03)	0.01	(0.02)	0.01	(0.01)	0.05	(0.03)	0.10	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.96	(8.04)	13.10	(8.84)	13.73	(9.12)	24.42	(7.98)	74.21	(8.34)
In transit, bus	3.28	(1.15)	1.50	(1.01)	1.20	(0.80)	3.30	(1.08)	9.28	(1.04)
In transit, truck	2.46	(0.86)	1.48	(1.00)	1.58	(1.05)	2.52	(0.83)	8.04	(0.90)
In transit, van	1.50	(0.53)	0.75	(0.50)	0.71	(0.47)	1.65	(0.54)	4.60	(0.52)
Indoors, public garage	0.27	(0.10)	0.13	(0.09)	0.10	(0.07)	0.28	(0.09)	0.78	(0.09)
Outdoors, in a parking lot	1.74	(0.61)	1.04	(0.70)	1.13	(0.75)	1.80	(0.59)	5.70	(0.64)
Outdoors, along a roadway	11.69	(4.09)	8.19	(5.53)	9.52	(6.33)	12.19	(3.99)	41.59	(4.67)
In transit, motorcycle	0.00	(0.00)	0.11	(0.07)	0.20	(0.13)	0.00	(0.00)	0.31	(0.04)
Indoors, service station	0.45	(0.16)	0.21	(0.14)	0.14	(0.09)	0.44	(0.14)	1.24	(0.14)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.25	(0.09)	0.11	(0.07)	0.08	(0.06)	0.27	(0.09)	0.70	(0.08)
Indoors, in a repair shop	0.02	(0.01)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)	0.04	(0.00)
Indoors, home	184.26	(64.53)	88.62	(59.81)	88.48	(58.79)	201.43	(65.86)	562.78	(63.22)
Indoors, office	8.36	(2.93)	5.12	(3.46)	5.46	(3.63)	8.17	(2.67)	27.12	(3.05)
Indoors, store	4.03	(1.41)	2.68	(1.81)	2.98	(1.98)	4.07	(1.33)	13.76	(1.55)
Indoors, restaurant	4.90	(1.71)	2.90	(1.95)	3.08	(2.05)	5.17	(1.69)	16.04	(1.80)
Indoors, mfg. facility	3.21	(1.12)	2.04	(1.38)	2.39	(1.59)	3.23	(1.05)	10.86	(1.22)
Indoors, school	17.86	(6.26)	7.91	(5.34)	5.51	(3.66)	17.69	(5.78)	48.98	(5.50)
Indoors, church	1.33	(0.46)	0.62	(0.42)	0.55	(0.36)	1.41	(0.46)	3.91	(0.44)
Indoors, shopping mall	1.47	(0.52)	0.79	(0.54)	0.66	(0.44)	1.45	(0.47)	4.38	(0.49)
Indoors, auditorium	0.26	(0.09)	0.12	(0.08)	0.10	(0.07)	0.30	(0.10)	0.79	(0.09)
Indoors, health care facility	2.09	(0.73)	0.98	(0.66)	0.83	(0.55)	2.18	(0.71)	6.08	(0.68)
Indoors, public building	0.71	(0.25)	0.43	(0.29)	0.48	(0.32)	0.76	(0.25)	2.37	(0.27)
Indoors, other location	6.39	(2.24)	3.61	(2.44)	4.07	(2.70)	7.01	(2.29)	21.08	(2.37)
Indoors, not specified	0.02	(0.01)	0.04	(0.03)	0.06	(0.04)	0.02	(0.01)	0.15	(0.02)
Outdoors, construction	0.69	(0.24)	0.44	(0.30)	0.48	(0.32)	0.67	(0.22)	2.28	(0.26)
Outdoors, residential grounds	2.66	(0.93)	2.49	(1.68)	3.25	(2.16)	2.73	(0.89)	11.13	(1.25)
Outdoors, school grounds	1.72	(0.60)	1.02	(0.69)	0.92	(0.61)	1.69	(0.55)	5.35	(0.60)
Outdoors, sports arena	0.07	(0.03)	0.17	(0.12)	0.30	(0.20)	0.08	(0.03)	0.62	(0.07)
Outdoors, park/golf course	0.38	(0.13)	0.49	(0.33)	0.69	(0.46)	0.40	(0.13)	1.96	(0.22)
Outdoors, other location	0.45	(0.16)	0.99	(0.67)	1.72	(1.14)	0.49	(0.16)	3.65	(0.41)
Outdoors, not specified	0.05	(0.02)	0.06	(0.04)	0.09	(0.06)	0.05	(0.02)	0.25	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.10	(4.90)	8.78	(6.18)	9.41	(7.07)	16.76	(4.80)	50.06	(5.37)
In transit, bus	13.74	(4.46)	5.41	(3.81)	3.83	(2.87)	14.87	(4.26)	37.85	(4.06)
In transit, truck	0.00	(0.00)	0.61	(0.43)	1.29	(0.97)	0.00	(0.00)	1.90	(0.20)
In transit, van	0.00	(0.00)	0.02	(0.02)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.82	(0.27)	0.68	(0.48)	0.89	(0.67)	0.86	(0.25)	3.25	(0.35)
Outdoors, along a roadway	7.94	(2.58)	7.03	(4.94)	8.84	(6.63)	8.70	(2.49)	32.50	(3.48)
In transit, motorcycle	0.38	(0.12)	0.13	(0.09)	0.07	(0.05)	0.49	(0.14)	1.07	(0.11)
Indoors, service station	0.00	(0.00)	0.10	(0.07)	0.21	(0.16)	0.00	(0.00)	0.31	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.05	(0.04)	0.12	(0.09)	0.00	(0.00)	0.17	(0.02)
Indoors, home	222.07	(72.10)	94.33	(66.36)	84.93	(63.77)	256.46	(73.43)	657.80	(70.53)
Indoors, office	1.64	(0.53)	2.38	(1.68)	3.94	(2.96)	1.83	(0.52)	9.79	(1.05)
Indoors, store	1.71	(0.55)	1.07	(0.75)	1.10	(0.82)	1.84	(0.53)	5.71	(0.61)
Indoors, restaurant	0.89	(0.29)	0.29	(0.21)	0.34	(0.26)	1.00	(0.29)	2.53	(0.27)
Indoors, mfg. facility	0.20	(0.07)	1.02	(0.72)	2.10	(1.58)	0.10	(0.03)	3.43	(0.37)
Indoors, school	27.04	(8.78)	10.14	(7.14)	5.41	(4.06)	28.08	(8.04)	70.67	(7.58)
Indoors, church	3.19	(1.04)	1.20	(0.85)	0.75	(0.56)	3.55	(1.02)	8.69	(0.93)
Indoors, shopping mall	1.23	(0.40)	0.68	(0.48)	0.43	(0.32)	1.27	(0.36)	3.62	(0.39)
Indoors, auditorium	0.12	(0.04)	0.06	(0.04)	0.03	(0.02)	0.16	(0.05)	0.37	(0.04)
Indoors, health care facility	5.48	(1.78)	2.06	(1.45)	1.58	(1.19)	6.38	(1.83)	15.50	(1.66)
Indoors, public building	0.14	(0.04)	0.13	(0.09)	0.12	(0.09)	0.14	(0.04)	0.53	(0.06)
Indoors, other location	1.29	(0.42)	1.36	(0.96)	2.22	(1.67)	1.06	(0.30)	5.93	(0.64)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.83	(0.59)	2.11	(1.48)	2.86	(2.14)	2.31	(0.66)	9.11	(0.98)
Outdoors, school grounds	2.39	(0.78)	1.17	(0.82)	0.70	(0.52)	2.50	(0.71)	6.75	(0.72)
Outdoors, sports arena	0.77	(0.25)	0.35	(0.25)	0.17	(0.13)	0.93	(0.27)	2.22	(0.24)
Outdoors, park/golf course	0.00	(0.00)	0.17	(0.12)	0.31	(0.23)	0.00	(0.00)	0.48	(0.05)
Outdoors, other location	0.00	(0.00)	0.35	(0.25)	0.67	(0.50)	0.00	(0.00)	1.03	(0.11)
Outdoors, not specified	0.02	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.01)	0.05	(0.01)
In transit, train	0.00	(0.00)	0.42	(0.30)	0.83	(0.62)	0.00	(0.00)	1.25	(0.13)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.00	(5.33)	9.98	(6.47)	11.18	(7.21)	17.54	(5.23)	54.70	(5.79)
In transit, bus	9.09	(3.03)	4.14	(2.68)	3.46	(2.23)	9.73	(2.90)	26.42	(2.80)
In transit, truck	0.00	(0.00)	0.60	(0.39)	1.39	(0.89)	0.00	(0.00)	1.98	(0.21)
In transit, van	1.47	(0.49)	0.73	(0.47)	0.49	(0.32)	1.69	(0.50)	4.38	(0.46)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.19	(0.40)	0.91	(0.59)	1.09	(0.70)	1.23	(0.37)	4.43	(0.47)
Outdoors, along a roadway	24.15	(8.05)	13.60	(8.82)	13.26	(8.55)	26.86	(8.02)	77.88	(8.25)
In transit, motorcycle	0.30	(0.10)	0.11	(0.07)	0.07	(0.04)	0.37	(0.11)	0.85	(0.09)
Indoors, service station	0.00	(0.00)	0.09	(0.06)	0.21	(0.14)	0.00	(0.00)	0.30	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.05	(0.03)	0.12	(0.07)	0.00	(0.00)	0.17	(0.02)
Indoors, home	209.52	(69.80)	100.31	(65.05)	98.33	(63.38)	236.87	(70.69)	645.02	(68.29)
Indoors, office	1.87	(0.62)	2.74	(1.77)	4.74	(3.05)	2.04	(0.61)	11.37	(1.20)
Indoors, store	1.60	(0.53)	1.31	(0.85)	1.59	(1.03)	1.71	(0.51)	6.21	(0.66)
Indoors, restaurant	1.17	(0.39)	0.47	(0.30)	0.42	(0.27)	1.25	(0.37)	3.30	(0.35)
Indoors, mfg. facility	0.17	(0.06)	0.97	(0.63)	2.14	(1.38)	0.09	(0.03)	3.36	(0.36)
Indoors, school	17.73	(5.91)	7.56	(4.90)	4.54	(2.93)	18.22	(5.44)	48.04	(5.09)
Indoors, church	3.11	(1.04)	1.38	(0.90)	0.93	(0.60)	3.38	(1.01)	8.80	(0.93)
Indoors, shopping mall	1.13	(0.38)	0.69	(0.45)	0.48	(0.31)	1.12	(0.34)	3.43	(0.36)
Indoors, auditorium	0.12	(0.04)	0.06	(0.04)	0.03	(0.02)	0.15	(0.05)	0.36	(0.04)
Indoors, health care facility	4.18	(1.39)	1.97	(1.27)	1.65	(1.07)	4.71	(1.40)	12.51	(1.32)
Indoors, public building	0.13	(0.04)	0.13	(0.09)	0.14	(0.09)	0.13	(0.04)	0.53	(0.06)
Indoors, other location	2.31	(0.77)	1.72	(1.12)	2.64	(1.70)	2.41	(0.72)	9.08	(0.96)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.22	(0.74)	2.28	(1.48)	3.27	(2.11)	2.75	(0.82)	10.52	(1.11)
Outdoors, school grounds	1.73	(0.58)	0.93	(0.60)	0.62	(0.40)	1.76	(0.53)	5.04	(0.53)
Outdoors, sports arena	0.75	(0.25)	0.37	(0.24)	0.24	(0.15)	0.88	(0.26)	2.23	(0.24)
Outdoors, park/golf course	0.00	(0.00)	0.17	(0.11)	0.34	(0.22)	0.00	(0.00)	0.51	(0.05)
Outdoors, other location	0.21	(0.07)	0.48	(0.31)	0.80	(0.52)	0.19	(0.06)	1.68	(0.18)
Outdoors, not specified	0.02	(0.01)	0.01	(0.01)	0.01	(0.00)	0.02	(0.00)	0.05	(0.00)
In transit, train	0.00	(0.00)	0.44	(0.28)	0.95	(0.61)	0.00	(0.00)	1.39	(0.15)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.67	(3.71)	7.17	(4.92)	7.69	(5.39)	11.46	(3.60)	37.00	(4.14)
In transit, bus	3.43	(1.19)	1.55	(1.07)	0.97	(0.68)	3.43	(1.08)	9.39	(1.05)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.02	(0.02)	0.02	(0.02)	0.00	(0.00)	0.05	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	2.17	(0.76)	1.58	(1.08)	1.81	(1.27)	2.63	(0.82)	8.19	(0.92)
Outdoors, along a roadway	13.09	(4.55)	7.86	(5.39)	7.71	(5.40)	14.64	(4.60)	43.29	(4.84)
In transit, motorcycle	0.00	(0.00)	0.05	(0.03)	0.08	(0.06)	0.00	(0.00)	0.13	(0.01)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	229.77	(79.92)	110.94	(76.16)	108.64	(76.13)	257.83	(80.90)	707.19	(79.06)
Indoors, office	0.18	(0.06)	0.08	(0.05)	0.09	(0.06)	0.18	(0.06)	0.52	(0.06)
Indoors, store	2.31	(0.80)	2.11	(1.45)	2.85	(2.00)	2.26	(0.71)	9.53	(1.07)
Indoors, restaurant	1.37	(0.47)	0.60	(0.41)	0.53	(0.37)	1.36	(0.43)	3.85	(0.43)
Indoors, mfg. facility	0.17	(0.06)	1.98	(1.36)	4.10	(2.87)	0.10	(0.03)	6.35	(0.71)
Indoors, school	16.17	(5.63)	6.44	(4.42)	3.01	(2.11)	16.28	(5.11)	41.90	(4.68)
Indoors, church	0.87	(0.30)	0.30	(0.21)	0.13	(0.09)	1.05	(0.33)	2.37	(0.26)
Indoors, shopping mall	1.80	(0.63)	0.93	(0.64)	0.39	(0.27)	1.82	(0.57)	4.94	(0.55)
Indoors, auditorium	0.28	(0.10)	0.16	(0.11)	0.10	(0.07)	0.28	(0.09)	0.82	(0.09)
Indoors, health care facility	0.99	(0.34)	0.46	(0.32)	0.22	(0.15)	0.97	(0.30)	2.64	(0.29)
Indoors, public building	0.34	(0.12)	0.16	(0.11)	0.11	(0.08)	0.28	(0.09)	0.90	(0.10)
Indoors, other location	1.59	(0.55)	1.42	(0.98)	1.92	(1.35)	1.68	(0.53)	6.61	(0.74)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.69	(0.59)	1.26	(0.87)	1.67	(1.17)	1.89	(0.59)	6.52	(0.73)
Outdoors, school grounds	0.53	(0.18)	0.27	(0.18)	0.12	(0.09)	0.49	(0.15)	1.40	(0.16)
Outdoors, sports arena	0.00	(0.00)	0.16	(0.11)	0.32	(0.22)	0.00	(0.00)	0.48	(0.05)
Outdoors, park/golf course	0.02	(0.01)	0.02	(0.02)	0.05	(0.03)	0.01	(0.00)	0.10	(0.01)
Outdoors, other location	0.04	(0.01)	0.14	(0.10)	0.18	(0.13)	0.04	(0.01)	0.40	(0.04)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.12	(7.04)	11.83	(7.66)	11.72	(7.57)	23.27	(7.04)	67.94	(7.23)
In transit, bus	3.67	(1.22)	1.62	(1.05)	1.39	(0.90)	3.95	(1.19)	10.63	(1.13)
In transit, truck	1.67	(0.56)	2.40	(1.56)	4.03	(2.61)	1.88	(0.57)	9.99	(1.06)
In transit, van	0.33	(0.11)	0.21	(0.14)	0.25	(0.16)	0.38	(0.11)	1.17	(0.12)
Indoors, public garage	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
Outdoors, in a parking lot	2.11	(0.70)	1.15	(0.74)	1.10	(0.71)	2.10	(0.64)	6.46	(0.69)
Outdoors, along a roadway	12.11	(4.04)	9.82	(6.36)	12.18	(7.87)	12.85	(3.89)	46.97	(5.00)
In transit, motorcycle	0.00	(0.00)	0.69	(0.45)	1.19	(0.77)	0.00	(0.00)	1.88	(0.20)
Indoors, service station	0.02	(0.01)	0.05	(0.03)	0.10	(0.06)	0.02	(0.01)	0.19	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.28	(0.09)	0.15	(0.10)	0.08	(0.05)	0.28	(0.08)	0.80	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.02	(0.01)	0.05	(0.03)	0.00	(0.00)	0.07	(0.01)
Indoors, home	197.93	(65.96)	94.80	(61.37)	92.81	(60.00)	221.33	(66.91)	606.87	(64.55)
Indoors, office	5.70	(1.90)	3.58	(2.32)	3.55	(2.30)	5.62	(1.70)	18.46	(1.96)
Indoors, store	4.18	(1.39)	2.83	(1.83)	3.26	(2.11)	4.55	(1.37)	14.82	(1.58)
Indoors, restaurant	10.53	(3.51)	4.02	(2.60)	2.42	(1.57)	11.54	(3.49)	28.50	(3.03)
Indoors, mfg. facility	5.81	(1.94)	2.91	(1.89)	2.79	(1.80)	5.95	(1.80)	17.46	(1.86)
Indoors, school	14.11	(4.70)	6.62	(4.29)	5.34	(3.45)	14.11	(4.27)	40.18	(4.27)
Indoors, church	1.63	(0.54)	0.74	(0.48)	0.57	(0.37)	1.73	(0.52)	4.68	(0.50)
Indoors, shopping mall	1.80	(0.60)	0.87	(0.56)	0.66	(0.42)	1.70	(0.52)	5.02	(0.53)
Indoors, auditorium	0.16	(0.05)	0.06	(0.04)	0.03	(0.02)	0.19	(0.06)	0.44	(0.05)
Indoors, health care facility	3.05	(1.02)	1.16	(0.75)	0.73	(0.47)	3.39	(1.03)	8.34	(0.89)
Indoors, public building	0.18	(0.06)	0.12	(0.08)	0.14	(0.09)	0.17	(0.05)	0.61	(0.06)
Indoors, other location	9.07	(3.02)	4.41	(2.85)	4.40	(2.85)	10.69	(3.23)	28.57	(3.04)
Indoors, not specified	0.00	(0.00)	0.05	(0.03)	0.10	(0.07)	0.00	(0.00)	0.16	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.25	(0.75)	2.13	(1.38)	2.88	(1.86)	2.48	(0.75)	9.74	(1.04)
Outdoors, school grounds	2.18	(0.73)	1.22	(0.79)	1.12	(0.72)	2.26	(0.68)	6.77	(0.72)
Outdoors, sports arena	0.00	(0.00)	0.19	(0.12)	0.40	(0.26)	0.00	(0.00)	0.59	(0.06)
Outdoors, park/golf course	0.23	(0.08)	0.27	(0.18)	0.31	(0.20)	0.27	(0.08)	1.09	(0.12)
Outdoors, other location	0.00	(0.00)	0.51	(0.33)	1.07	(0.69)	0.00	(0.00)	1.58	(0.17)
Outdoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	24.13	(8.22)	13.45	(8.94)	13.56	(8.99)	26.08	(8.15)	77.22	(8.44)
In transit, bus	2.85	(0.97)	1.39	(0.92)	1.31	(0.87)	2.96	(0.92)	8.51	(0.93)
In transit, truck	1.71	(0.58)	1.14	(0.76)	1.29	(0.86)	1.79	(0.56)	5.93	(0.65)
In transit, van	2.74	(0.93)	1.38	(0.92)	1.35	(0.90)	3.06	(0.96)	8.54	(0.93)
Indoors, public garage	0.57	(0.19)	0.22	(0.14)	0.11	(0.07)	0.60	(0.19)	1.50	(0.16)
Outdoors, in a parking lot	1.65	(0.56)	1.00	(0.66)	1.05	(0.69)	1.72	(0.54)	5.42	(0.59)
Outdoors, along a roadway	15.04	(5.12)	9.73	(6.46)	10.46	(6.94)	16.06	(5.02)	51.28	(5.61)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, service station	0.10	(0.03)	0.06	(0.04)	0.05	(0.04)	0.10	(0.03)	0.31	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.34	(0.12)	0.11	(0.08)	0.07	(0.05)	0.39	(0.12)	0.92	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	190.38	(64.84)	90.10	(59.87)	88.78	(58.85)	211.23	(66.02)	580.48	(63.45)
Indoors, office	10.02	(3.41)	5.46	(3.63)	5.05	(3.35)	10.00	(3.13)	30.54	(3.34)
Indoors, store	3.20	(1.09)	2.55	(1.70)	3.16	(2.09)	3.29	(1.03)	12.19	(1.33)
Indoors, restaurant	3.65	(1.24)	2.11	(1.40)	2.01	(1.33)	3.89	(1.22)	11.66	(1.27)
Indoors, mfg. facility	3.56	(1.21)	2.36	(1.57)	2.73	(1.81)	3.56	(1.11)	12.22	(1.34)
Indoors, school	13.33	(4.54)	6.42	(4.27)	5.44	(3.61)	13.42	(4.20)	38.62	(4.22)
Indoors, church	1.92	(0.66)	0.79	(0.53)	0.59	(0.39)	2.09	(0.65)	5.39	(0.59)
Indoors, shopping mall	1.13	(0.39)	0.52	(0.35)	0.34	(0.22)	1.14	(0.36)	3.13	(0.34)
Indoors, auditorium	0.31	(0.10)	0.12	(0.08)	0.09	(0.06)	0.36	(0.11)	0.88	(0.10)
Indoors, health care facility	2.09	(0.71)	1.00	(0.66)	0.86	(0.57)	2.22	(0.69)	6.17	(0.67)
Indoors, public building	0.83	(0.28)	0.56	(0.37)	0.70	(0.46)	0.94	(0.29)	3.02	(0.33)
Indoors, other location	6.61	(2.25)	3.47	(2.30)	3.76	(2.49)	7.35	(2.30)	21.18	(2.32)
Indoors, not specified	0.00	(0.00)	0.05	(0.03)	0.10	(0.06)	0.00	(0.00)	0.15	(0.02)
Outdoors, construction	1.53	(0.52)	0.91	(0.61)	0.88	(0.59)	1.51	(0.47)	4.84	(0.53)
Outdoors, residential grounds	3.18	(1.08)	3.06	(2.04)	3.88	(2.57)	3.34	(1.04)	13.46	(1.47)
Outdoors, school grounds	1.42	(0.48)	0.92	(0.61)	0.93	(0.61)	1.42	(0.45)	4.70	(0.51)
Outdoors, sports arena	0.03	(0.01)	0.11	(0.07)	0.19	(0.12)	0.04	(0.01)	0.37	(0.04)
Outdoors, park/golf course	0.37	(0.13)	0.43	(0.28)	0.59	(0.39)	0.39	(0.12)	1.79	(0.20)
Outdoors, other location	0.89	(0.30)	0.98	(0.65)	1.34	(0.89)	0.98	(0.31)	4.18	(0.46)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.08	(0.05)	0.17	(0.11)	0.00	(0.00)	0.25	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	29.74	(10.27)	16.24	(10.97)	16.52	(11.08)	31.83	(10.22)	94.34	(10.50)
In transit, bus	4.77	(1.65)	1.97	(1.33)	1.12	(0.75)	4.82	(1.55)	12.68	(1.41)
In transit, truck	1.01	(0.35)	0.57	(0.38)	0.57	(0.38)	1.05	(0.34)	3.20	(0.36)
In transit, van	0.02	(0.01)	0.13	(0.09)	0.22	(0.15)	0.03	(0.01)	0.40	(0.04)
Indoors, public garage	0.06	(0.02)	0.03	(0.02)	0.02	(0.01)	0.07	(0.02)	0.18	(0.02)
Outdoors, in a parking lot	1.73	(0.60)	0.93	(0.63)	0.97	(0.65)	1.89	(0.61)	5.53	(0.62)
Outdoors, along a roadway	11.21	(3.87)	7.61	(5.14)	8.71	(5.84)	11.83	(3.80)	39.35	(4.38)
In transit, motorcycle	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, service station	0.00	(0.00)	0.03	(0.02)	0.06	(0.04)	0.00	(0.00)	0.09	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.07	(0.03)	0.12	(0.08)	0.19	(0.13)	0.08	(0.02)	0.46	(0.05)
Indoors, in a repair shop	0.08	(0.03)	0.04	(0.03)	0.02	(0.01)	0.07	(0.02)	0.20	(0.02)
Indoors, home	178.07	(61.51)	83.80	(56.60)	83.42	(55.96)	195.95	(62.91)	541.24	(60.27)
Indoors, office	12.15	(4.20)	7.29	(4.92)	7.80	(5.24)	11.97	(3.84)	39.22	(4.37)
Indoors, store	4.03	(1.39)	2.65	(1.79)	2.97	(1.99)	4.04	(1.30)	13.70	(1.53)
Indoors, restaurant	5.02	(1.73)	3.13	(2.12)	3.51	(2.35)	5.43	(1.74)	17.09	(1.90)
Indoors, mfg. facility	3.59	(1.24)	2.04	(1.38)	2.30	(1.54)	3.79	(1.22)	11.73	(1.31)
Indoors, school	21.26	(7.34)	8.62	(5.82)	4.68	(3.14)	21.10	(6.77)	55.66	(6.20)
Indoors, church	0.92	(0.32)	0.57	(0.39)	0.65	(0.44)	1.00	(0.32)	3.15	(0.35)
Indoors, shopping mall	2.25	(0.78)	1.60	(1.08)	1.80	(1.21)	2.37	(0.76)	8.01	(0.89)
Indoors, auditorium	0.13	(0.05)	0.13	(0.09)	0.17	(0.11)	0.15	(0.05)	0.58	(0.06)
Indoors, health care facility	1.82	(0.63)	0.95	(0.64)	0.91	(0.61)	1.89	(0.61)	5.57	(0.62)
Indoors, public building	0.63	(0.22)	0.37	(0.25)	0.47	(0.31)	0.73	(0.23)	2.19	(0.24)
Indoors, other location	5.99	(2.07)	2.94	(1.98)	2.84	(1.91)	6.31	(2.03)	18.08	(2.01)
Indoors, not specified	0.09	(0.03)	0.05	(0.04)	0.04	(0.03)	0.09	(0.03)	0.27	(0.03)
Outdoors, construction	0.00	(0.00)	0.08	(0.06)	0.19	(0.13)	0.00	(0.00)	0.27	(0.03)
Outdoors, residential grounds	2.09	(0.72)	2.49	(1.68)	3.51	(2.35)	2.18	(0.70)	10.27	(1.14)
Outdoors, school grounds	1.75	(0.60)	0.89	(0.60)	0.60	(0.41)	1.73	(0.55)	4.97	(0.55)
Outdoors, sports arena	0.20	(0.07)	0.30	(0.20)	0.46	(0.31)	0.21	(0.07)	1.18	(0.13)
Outdoors, park/golf course	0.65	(0.22)	0.54	(0.37)	0.58	(0.39)	0.68	(0.22)	2.46	(0.27)
Outdoors, other location	0.17	(0.06)	1.93	(1.30)	3.74	(2.51)	0.16	(0.05)	6.01	(0.67)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.96	(5.71)	10.83	(7.66)	13.84	(9.64)	17.21	(5.78)	57.85	(6.71)
In transit, bus	0.14	(0.05)	0.02	(0.01)	0.02	(0.01)	0.07	(0.02)	0.24	(0.03)
In transit, truck	5.97	(2.14)	2.25	(1.59)	1.68	(1.17)	6.33	(2.12)	16.23	(1.88)
In transit, van	3.04	(1.09)	1.29	(0.91)	0.83	(0.58)	3.26	(1.09)	8.41	(0.97)
Indoors, public garage	0.00	(0.00)	0.06	(0.05)	0.15	(0.11)	0.00	(0.00)	0.22	(0.02)
Outdoors, in a parking lot	0.64	(0.23)	0.69	(0.49)	1.09	(0.76)	0.69	(0.23)	3.12	(0.36)
Outdoors, along a roadway	11.33	(4.05)	6.94	(4.90)	8.20	(5.71)	12.32	(4.13)	38.79	(4.50)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.23	(0.08)	0.00	(0.00)	0.00	(0.00)	0.11	(0.04)	0.34	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	182.58	(65.30)	85.71	(60.58)	83.76	(58.34)	197.38	(66.23)	549.43	(63.69)
Indoors, office	5.73	(2.05)	5.76	(4.07)	8.83	(6.15)	5.43	(1.82)	25.74	(2.98)
Indoors, store	0.46	(0.17)	0.90	(0.64)	1.63	(1.14)	0.48	(0.16)	3.48	(0.40)
Indoors, restaurant	6.07	(2.17)	4.35	(3.07)	5.55	(3.86)	6.31	(2.12)	22.28	(2.58)
Indoors, mfg. facility	0.00	(0.00)	0.14	(0.10)	0.32	(0.22)	0.00	(0.00)	0.46	(0.05)
Indoors, school	19.92	(7.12)	7.93	(5.60)	4.42	(3.08)	19.45	(6.52)	51.71	(5.99)
Indoors, church	0.74	(0.27)	0.42	(0.30)	0.49	(0.34)	0.71	(0.24)	2.38	(0.28)
Indoors, shopping mall	0.42	(0.15)	0.22	(0.16)	0.10	(0.07)	0.37	(0.12)	1.11	(0.13)
Indoors, auditorium	0.97	(0.35)	0.41	(0.29)	0.28	(0.19)	1.09	(0.36)	2.75	(0.32)
Indoors, health care facility	1.08	(0.39)	0.54	(0.38)	0.36	(0.25)	1.09	(0.37)	3.07	(0.36)
Indoors, public building	0.00	(0.00)	0.08	(0.05)	0.11	(0.08)	0.00	(0.00)	0.19	(0.02)
Indoors, other location	12.02	(4.30)	4.86	(3.44)	3.95	(2.75)	13.91	(4.67)	34.74	(4.03)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.40	(0.28)	0.91	(0.63)	0.00	(0.00)	1.30	(0.15)
Outdoors, residential grounds	8.65	(3.09)	4.40	(3.11)	3.17	(2.20)	8.35	(2.80)	24.56	(2.85)
Outdoors, school grounds	2.62	(0.94)	1.43	(1.01)	0.81	(0.56)	2.39	(0.80)	7.24	(0.84)
Outdoors, sports arena	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, park/golf course	1.03	(0.37)	1.25	(0.88)	1.89	(1.32)	1.10	(0.37)	5.28	(0.61)
Outdoors, other location	0.00	(0.00)	0.59	(0.42)	1.17	(0.81)	0.00	(0.00)	1.76	(0.20)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.41	(5.20)	9.23	(6.06)	9.87	(6.50)	17.14	(5.24)	51.65	(5.57)
In transit, bus	7.72	(2.60)	3.20	(2.10)	2.07	(1.36)	8.02	(2.45)	21.01	(2.26)
In transit, truck	0.22	(0.08)	0.21	(0.14)	0.30	(0.20)	0.22	(0.07)	0.96	(0.10)
In transit, van	2.76	(0.93)	1.12	(0.74)	0.80	(0.53)	3.19	(0.98)	7.87	(0.85)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.86	(0.29)	0.62	(0.40)	0.74	(0.49)	0.91	(0.28)	3.12	(0.34)
Outdoors, along a roadway	14.77	(4.98)	11.87	(7.79)	14.52	(9.56)	16.06	(4.91)	57.21	(6.17)
In transit, motorcycle	0.06	(0.02)	0.03	(0.02)	0.03	(0.02)	0.07	(0.02)	0.18	(0.02)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.36	(0.12)	0.14	(0.09)	0.10	(0.06)	0.43	(0.13)	1.03	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	197.61	(66.60)	93.62	(61.47)	92.60	(60.98)	222.37	(68.03)	606.20	(65.34)
Indoors, office	0.14	(0.05)	0.30	(0.20)	0.55	(0.36)	0.15	(0.05)	1.14	(0.12)
Indoors, store	2.08	(0.70)	1.44	(0.95)	1.65	(1.08)	2.21	(0.68)	7.37	(0.79)
Indoors, restaurant	2.07	(0.70)	1.58	(1.04)	1.95	(1.29)	2.33	(0.71)	7.94	(0.86)
Indoors, mfg. facility	0.05	(0.02)	0.02	(0.01)	0.01	(0.01)	0.06	(0.02)	0.15	(0.02)
Indoors, school	38.25	(12.89)	17.01	(11.17)	12.10	(7.97)	38.47	(11.77)	105.84	(11.41)
Indoors, church	1.08	(0.36)	0.51	(0.34)	0.46	(0.30)	1.18	(0.36)	3.23	(0.35)
Indoors, shopping mall	1.19	(0.40)	0.81	(0.53)	0.77	(0.50)	1.22	(0.37)	3.98	(0.43)
Indoors, auditorium	0.31	(0.10)	0.13	(0.09)	0.09	(0.06)	0.37	(0.11)	0.90	(0.10)
Indoors, health care facility	1.13	(0.38)	0.55	(0.36)	0.36	(0.24)	1.22	(0.37)	3.25	(0.35)
Indoors, public building	0.29	(0.10)	0.21	(0.14)	0.24	(0.16)	0.32	(0.10)	1.05	(0.11)
Indoors, other location	1.82	(0.61)	0.89	(0.58)	0.88	(0.58)	2.06	(0.63)	5.64	(0.61)
Indoors, not specified	0.00	(0.00)	0.04	(0.03)	0.09	(0.06)	0.00	(0.00)	0.13	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	4.01	(1.35)	4.05	(2.66)	5.37	(3.54)	4.36	(1.33)	17.78	(1.92)
Outdoors, school grounds	3.72	(1.25)	2.48	(1.63)	2.43	(1.60)	3.67	(1.12)	12.30	(1.33)
Outdoors, sports arena	0.29	(0.10)	0.27	(0.18)	0.35	(0.23)	0.33	(0.10)	1.25	(0.13)
Outdoors, park/golf course	0.29	(0.10)	0.76	(0.50)	1.28	(0.84)	0.34	(0.10)	2.68	(0.29)
Outdoors, other location	0.07	(0.02)	1.14	(0.75)	2.24	(1.47)	0.08	(0.02)	3.52	(0.38)
Outdoors, not specified	0.12	(0.04)	0.06	(0.04)	0.03	(0.02)	0.12	(0.04)	0.33	(0.04)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	27.96	(9.07)	15.56	(9.99)	15.61	(10.28)	29.78	(8.81)	88.90	(9.32)
In transit, bus	0.08	(0.03)	0.00	(0.00)	0.00	(0.00)	0.04	(0.01)	0.12	(0.01)
In transit, truck	4.02	(1.30)	3.22	(2.07)	3.86	(2.54)	4.37	(1.29)	15.47	(1.62)
In transit, van	0.00	(0.00)	0.21	(0.13)	0.47	(0.31)	0.00	(0.00)	0.68	(0.07)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	2.28	(0.74)	1.24	(0.79)	1.01	(0.66)	2.36	(0.70)	6.88	(0.72)
Outdoors, along a roadway	35.84	(11.62)	16.13	(10.36)	11.96	(7.87)	38.90	(11.51)	102.83	(10.78)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.09	(0.03)	0.05	(0.03)	0.04	(0.03)	0.10	(0.03)	0.29	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	191.79	(62.20)	89.92	(57.75)	86.36	(56.85)	213.23	(63.10)	581.31	(60.94)
Indoors, office	8.13	(2.64)	7.73	(4.97)	11.16	(7.34)	8.08	(2.39)	35.09	(3.68)
Indoors, store	1.38	(0.45)	0.91	(0.59)	0.97	(0.64)	1.39	(0.41)	4.65	(0.49)
Indoors, restaurant	2.72	(0.88)	1.71	(1.10)	2.00	(1.31)	2.91	(0.86)	9.33	(0.98)
Indoors, mfg. facility	0.00	(0.00)	1.53	(0.99)	2.62	(1.72)	0.00	(0.00)	4.15	(0.44)
Indoors, school	15.72	(5.10)	6.19	(3.98)	3.17	(2.09)	15.87	(4.70)	40.95	(4.29)
Indoors, church	0.41	(0.13)	0.48	(0.31)	0.73	(0.48)	0.51	(0.15)	2.13	(0.22)
Indoors, shopping mall	1.48	(0.48)	0.46	(0.29)	0.19	(0.13)	1.79	(0.53)	3.92	(0.41)
Indoors, auditorium	0.01	(0.00)	0.27	(0.17)	0.49	(0.32)	0.01	(0.00)	0.77	(0.08)
Indoors, health care facility	0.67	(0.22)	0.36	(0.23)	0.37	(0.24)	0.72	(0.21)	2.12	(0.22)
Indoors, public building	3.64	(1.18)	1.11	(0.71)	0.47	(0.31)	4.44	(1.31)	9.66	(1.01)
Indoors, other location	7.88	(2.55)	3.55	(2.28)	3.61	(2.38)	9.20	(2.72)	24.24	(2.54)
Indoors, not specified	0.07	(0.02)	0.03	(0.02)	0.01	(0.01)	0.07	(0.02)	0.17	(0.02)
Outdoors, construction	0.00	(0.00)	1.03	(0.66)	2.35	(1.55)	0.00	(0.00)	3.38	(0.35)
Outdoors, residential grounds	1.41	(0.46)	1.55	(0.99)	2.15	(1.41)	1.39	(0.41)	6.49	(0.68)
Outdoors, school grounds	2.60	(0.84)	1.31	(0.84)	0.54	(0.36)	2.62	(0.78)	7.08	(0.74)
Outdoors, sports arena	0.03	(0.01)	0.04	(0.03)	0.07	(0.04)	0.02	(0.00)	0.16	(0.02)
Outdoors, park/golf course	0.13	(0.04)	0.36	(0.23)	0.65	(0.43)	0.14	(0.04)	1.28	(0.13)
Outdoors, other location	0.01	(0.00)	0.76	(0.49)	1.04	(0.68)	0.00	(0.00)	1.81	(0.19)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.04	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	36.79	(12.08)	19.40	(12.32)	18.19	(11.45)	38.96	(11.83)	113.34	(11.93)
In transit, bus	0.19	(0.06)	0.56	(0.35)	1.12	(0.71)	0.17	(0.05)	2.03	(0.21)
In transit, truck	5.35	(1.76)	3.91	(2.49)	5.13	(3.23)	5.61	(1.70)	20.01	(2.11)
In transit, van	2.10	(0.69)	0.96	(0.61)	0.74	(0.47)	2.21	(0.67)	6.02	(0.63)
Indoors, public garage	2.55	(0.84)	1.10	(0.70)	0.65	(0.41)	2.61	(0.79)	6.91	(0.73)
Outdoors, in a parking lot	2.41	(0.79)	1.47	(0.93)	1.59	(1.00)	2.46	(0.75)	7.93	(0.83)
Outdoors, along a roadway	14.58	(4.79)	9.13	(5.80)	9.37	(5.89)	15.11	(4.59)	48.19	(5.07)
In transit, motorcycle	0.00	(0.00)	0.14	(0.09)	0.26	(0.16)	0.00	(0.00)	0.40	(0.04)
Indoors, service station	2.59	(0.85)	1.14	(0.72)	0.69	(0.44)	2.58	(0.78)	6.99	(0.74)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.29	(0.42)	0.55	(0.35)	0.33	(0.21)	1.46	(0.44)	3.62	(0.38)
Indoors, in a repair shop	0.17	(0.06)	0.02	(0.01)	0.04	(0.03)	0.08	(0.03)	0.32	(0.03)
Indoors, home	172.51	(56.65)	79.27	(50.36)	77.36	(48.69)	192.88	(58.58)	522.03	(54.95)
Indoors, office	23.66	(7.77)	11.93	(7.58)	10.01	(6.30)	23.44	(7.12)	69.04	(7.27)
Indoors, store	3.00	(0.99)	2.70	(1.72)	3.73	(2.34)	3.03	(0.92)	12.47	(1.31)
Indoors, restaurant	5.14	(1.69)	3.66	(2.32)	4.33	(2.73)	5.06	(1.54)	18.19	(1.91)
Indoors, mfg. facility	6.08	(2.00)	4.42	(2.81)	5.60	(3.52)	6.11	(1.86)	22.20	(2.34)
Indoors, school	2.76	(0.91)	1.21	(0.77)	0.75	(0.47)	2.72	(0.83)	7.43	(0.78)
Indoors, church	1.46	(0.48)	0.60	(0.38)	0.45	(0.29)	1.60	(0.49)	4.11	(0.43)
Indoors, shopping mall	0.61	(0.20)	0.28	(0.18)	0.12	(0.08)	0.57	(0.17)	1.58	(0.17)
Indoors, auditorium	0.04	(0.01)	0.01	(0.01)	0.01	(0.01)	0.03	(0.01)	0.09	(0.01)
Indoors, health care facility	1.95	(0.64)	1.04	(0.66)	1.00	(0.63)	2.01	(0.61)	6.00	(0.63)
Indoors, public building	0.38	(0.12)	0.52	(0.33)	0.83	(0.52)	0.36	(0.11)	2.08	(0.22)
Indoors, other location	9.13	(3.00)	6.21	(3.95)	8.33	(5.24)	10.07	(3.06)	33.73	(3.55)
Indoors, not specified	0.37	(0.12)	0.13	(0.08)	0.06	(0.04)	0.31	(0.09)	0.86	(0.09)
Outdoors, construction	2.65	(0.87)	1.67	(1.06)	1.72	(1.08)	2.61	(0.79)	8.65	(0.91)
Outdoors, residential grounds	1.45	(0.48)	1.25	(0.79)	1.45	(0.91)	1.56	(0.47)	5.71	(0.60)
Outdoors, school grounds	0.32	(0.11)	0.16	(0.10)	0.11	(0.07)	0.32	(0.10)	0.91	(0.10)
Outdoors, sports arena	0.04	(0.01)	0.22	(0.14)	0.38	(0.24)	0.03	(0.01)	0.66	(0.07)
Outdoors, park/golf course	0.47	(0.16)	0.39	(0.25)	0.42	(0.26)	0.49	(0.15)	1.77	(0.19)
Outdoors, other location	4.31	(1.42)	3.01	(1.91)	3.46	(2.17)	4.70	(1.43)	15.48	(1.63)
Outdoors, not specified	0.06	(0.02)	0.19	(0.12)	0.34	(0.21)	0.07	(0.02)	0.65	(0.07)
In transit, train	0.06	(0.02)	0.17	(0.11)	0.36	(0.23)	0.06	(0.02)	0.66	(0.07)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	26.26	(9.16)	13.70	(9.37)	12.60	(8.68)	28.44	(9.05)	81.00	(9.08)
In transit, bus	0.41	(0.14)	0.27	(0.19)	0.31	(0.21)	0.40	(0.13)	1.39	(0.16)
In transit, truck	0.18	(0.06)	0.00	(0.00)	0.00	(0.00)	0.09	(0.03)	0.27	(0.03)
In transit, van	0.16	(0.05)	0.07	(0.05)	0.05	(0.03)	0.17	(0.05)	0.44	(0.05)
Indoors, public garage	0.12	(0.04)	0.04	(0.03)	0.02	(0.01)	0.12	(0.04)	0.30	(0.03)
Outdoors, in a parking lot	0.92	(0.32)	0.77	(0.53)	0.97	(0.67)	0.96	(0.31)	3.62	(0.41)
Outdoors, along a roadway	9.24	(3.22)	6.58	(4.50)	7.33	(5.05)	9.75	(3.10)	32.90	(3.69)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.04	(0.03)	0.00	(0.00)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.06	(0.02)	0.02	(0.01)	0.01	(0.01)	0.06	(0.02)	0.15	(0.02)
Indoors, in a repair shop	0.13	(0.05)	0.07	(0.05)	0.03	(0.02)	0.13	(0.04)	0.36	(0.04)
Indoors, home	218.44	(76.22)	105.71	(72.26)	104.08	(71.72)	241.29	(76.78)	669.52	(75.04)
Indoors, office	0.21	(0.07)	0.40	(0.27)	0.80	(0.55)	0.20	(0.06)	1.61	(0.18)
Indoors, store	3.24	(1.13)	3.16	(2.16)	4.14	(2.85)	3.28	(1.04)	13.82	(1.55)
Indoors, restaurant	4.30	(1.50)	2.41	(1.65)	2.54	(1.75)	4.75	(1.51)	13.99	(1.57)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	9.04	(3.16)	3.69	(2.52)	2.26	(1.56)	9.72	(3.09)	24.71	(2.77)
Indoors, church	1.31	(0.46)	0.53	(0.36)	0.34	(0.24)	1.45	(0.46)	3.63	(0.41)
Indoors, shopping mall	0.11	(0.04)	0.53	(0.36)	1.08	(0.75)	0.05	(0.02)	1.78	(0.20)
Indoors, auditorium	0.57	(0.20)	0.23	(0.16)	0.16	(0.11)	0.63	(0.20)	1.59	(0.18)
Indoors, health care facility	0.82	(0.28)	0.49	(0.33)	0.52	(0.36)	0.87	(0.28)	2.69	(0.30)
Indoors, public building	0.44	(0.16)	0.18	(0.12)	0.11	(0.07)	0.47	(0.15)	1.21	(0.14)
Indoors, other location	6.98	(2.43)	3.83	(2.62)	3.35	(2.31)	7.54	(2.40)	21.69	(2.43)
Indoors, not specified	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.37	(0.83)	2.01	(1.37)	2.21	(1.52)	2.44	(0.78)	9.02	(1.01)
Outdoors, school grounds	0.93	(0.32)	0.41	(0.28)	0.30	(0.21)	1.06	(0.34)	2.70	(0.30)
Outdoors, sports arena	0.02	(0.01)	0.06	(0.04)	0.12	(0.08)	0.01	(0.00)	0.21	(0.02)
Outdoors, park/golf course	0.17	(0.06)	0.39	(0.26)	0.61	(0.42)	0.19	(0.06)	1.36	(0.15)
Outdoors, other location	0.16	(0.06)	0.69	(0.47)	1.12	(0.77)	0.15	(0.05)	2.13	(0.24)
Outdoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	29.48	(10.27)	15.77	(10.79)	15.65	(10.68)	31.38	(10.10)	92.28	(10.36)
In transit, bus	2.25	(0.78)	1.19	(0.81)	1.11	(0.76)	2.29	(0.74)	6.84	(0.77)
In transit, truck	2.19	(0.76)	0.85	(0.58)	0.67	(0.46)	2.51	(0.81)	6.23	(0.70)
In transit, van	0.00	(0.00)	0.29	(0.20)	0.58	(0.40)	0.00	(0.00)	0.87	(0.10)
Indoors, public garage	0.22	(0.08)	0.14	(0.10)	0.17	(0.12)	0.22	(0.07)	0.75	(0.08)
Outdoors, in a parking lot	1.28	(0.45)	0.83	(0.57)	1.02	(0.69)	1.43	(0.46)	4.56	(0.51)
Outdoors, along a roadway	7.95	(2.77)	5.72	(3.92)	6.82	(4.65)	8.37	(2.69)	28.87	(3.24)
In transit, motorcycle	0.00	(0.00)	0.62	(0.42)	1.08	(0.73)	0.00	(0.00)	1.70	(0.19)
Indoors, service station	0.06	(0.02)	0.03	(0.02)	0.03	(0.02)	0.06	(0.02)	0.17	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.05	(0.02)	0.02	(0.01)	0.01	(0.01)	0.05	(0.02)	0.12	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	178.38	(62.13)	83.81	(57.36)	83.06	(56.65)	197.72	(63.68)	542.98	(60.98)
Indoors, office	26.10	(9.09)	15.17	(10.38)	15.42	(10.52)	25.66	(8.26)	82.35	(9.25)
Indoors, store	6.76	(2.35)	4.11	(2.81)	3.98	(2.72)	6.94	(2.24)	21.80	(2.45)
Indoors, restaurant	6.27	(2.18)	3.68	(2.52)	3.93	(2.68)	6.55	(2.11)	20.43	(2.29)
Indoors, mfg. facility	2.99	(1.04)	1.54	(1.05)	1.38	(0.94)	3.03	(0.97)	8.93	(1.00)
Indoors, school	7.08	(2.47)	3.17	(2.17)	2.19	(1.49)	6.96	(2.24)	19.39	(2.18)
Indoors, church	1.45	(0.50)	0.62	(0.43)	0.47	(0.32)	1.56	(0.50)	4.10	(0.46)
Indoors, shopping mall	1.70	(0.59)	0.73	(0.50)	0.40	(0.27)	1.73	(0.56)	4.57	(0.51)
Indoors, auditorium	0.20	(0.07)	0.09	(0.06)	0.06	(0.04)	0.23	(0.07)	0.58	(0.06)
Indoors, health care facility	3.31	(1.15)	1.47	(1.01)	1.32	(0.90)	3.59	(1.15)	9.69	(1.09)
Indoors, public building	0.54	(0.19)	0.32	(0.22)	0.30	(0.20)	0.52	(0.17)	1.68	(0.19)
Indoors, other location	7.07	(2.46)	3.93	(2.69)	4.16	(2.84)	7.92	(2.55)	23.08	(2.59)
Indoors, not specified	0.09	(0.03)	0.04	(0.02)	0.01	(0.01)	0.08	(0.03)	0.22	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.86	(0.30)	0.96	(0.66)	1.31	(0.89)	0.85	(0.27)	3.98	(0.45)
Outdoors, school grounds	0.24	(0.08)	0.24	(0.16)	0.36	(0.25)	0.27	(0.09)	1.11	(0.12)
Outdoors, sports arena	0.04	(0.01)	0.22	(0.15)	0.42	(0.28)	0.04	(0.01)	0.72	(0.08)
Outdoors, park/golf course	0.16	(0.06)	0.14	(0.10)	0.16	(0.11)	0.18	(0.06)	0.65	(0.07)
Outdoors, other location	0.07	(0.02)	0.31	(0.21)	0.48	(0.33)	0.06	(0.02)	0.92	(0.10)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
In transit, train	0.30	(0.11)	0.10	(0.07)	0.05	(0.03)	0.33	(0.11)	0.78	(0.09)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	25.71	(9.17)	15.02	(10.11)	15.04	(9.74)	26.47	(8.67)	82.24	(9.26)
In transit, bus	0.23	(0.08)	3.70	(2.49)	8.19	(5.31)	0.12	(0.04)	12.24	(1.38)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.91	(0.33)	0.41	(0.27)	0.24	(0.15)	0.96	(0.32)	2.52	(0.28)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.89	(0.67)	3.15	(2.12)	4.63	(3.00)	1.83	(0.60)	11.50	(1.29)
Outdoors, along a roadway	7.52	(2.68)	5.61	(3.78)	6.50	(4.21)	8.15	(2.67)	27.78	(3.13)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	2.16	(0.77)	1.13	(0.76)	0.57	(0.37)	2.11	(0.69)	5.96	(0.67)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	216.24	(77.15)	99.30	(66.85)	94.05	(60.91)	239.06	(78.33)	648.65	(73.02)
Indoors, office	0.19	(0.07)	0.08	(0.05)	0.03	(0.02)	0.15	(0.05)	0.45	(0.05)
Indoors, store	2.15	(0.77)	1.81	(1.22)	1.77	(1.15)	1.92	(0.63)	7.65	(0.86)
Indoors, restaurant	0.41	(0.15)	0.09	(0.06)	0.05	(0.03)	0.38	(0.12)	0.93	(0.10)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	5.19	(1.85)	2.05	(1.38)	0.98	(0.63)	5.96	(1.95)	14.18	(1.60)
Indoors, church	1.11	(0.40)	0.56	(0.38)	0.27	(0.18)	1.06	(0.35)	3.01	(0.34)
Indoors, shopping mall	0.44	(0.16)	0.00	(0.00)	0.00	(0.00)	0.21	(0.07)	0.65	(0.07)
Indoors, auditorium	0.00	(0.00)	0.20	(0.14)	0.47	(0.31)	0.00	(0.00)	0.68	(0.08)
Indoors, health care facility	7.78	(2.78)	2.79	(1.88)	1.31	(0.85)	8.09	(2.65)	19.97	(2.25)
Indoors, public building	0.01	(0.00)	0.05	(0.03)	0.05	(0.03)	0.00	(0.00)	0.10	(0.01)
Indoors, other location	5.37	(1.92)	7.13	(4.80)	11.77	(7.63)	5.79	(1.90)	30.06	(3.38)
Indoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.93	(1.05)	3.19	(2.15)	3.74	(2.42)	2.88	(0.94)	12.75	(1.43)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.34	(0.23)	0.71	(0.46)	0.00	(0.00)	1.05	(0.12)
Outdoors, park/golf course	0.03	(0.01)	0.06	(0.04)	0.05	(0.03)	0.01	(0.00)	0.15	(0.02)
Outdoors, other location	0.00	(0.00)	1.87	(1.26)	3.97	(2.57)	0.00	(0.00)	5.84	(0.66)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	41.24	(13.47)	21.68	(13.85)	20.98	(13.34)	44.05	(13.37)	127.95	(13.47)
In transit, bus	2.64	(0.86)	1.16	(0.74)	1.02	(0.65)	2.70	(0.82)	7.52	(0.79)
In transit, truck	10.99	(3.59)	5.11	(3.26)	3.56	(2.26)	10.93	(3.32)	30.58	(3.22)
In transit, van	1.08	(0.35)	1.77	(1.13)	3.15	(2.00)	1.11	(0.34)	7.11	(0.75)
Indoors, public garage	1.40	(0.46)	0.54	(0.34)	0.26	(0.17)	1.45	(0.44)	3.64	(0.38)
Outdoors, in a parking lot	1.73	(0.57)	0.87	(0.56)	0.84	(0.53)	1.92	(0.58)	5.36	(0.56)
Outdoors, along a roadway	9.24	(3.02)	7.25	(4.63)	9.19	(5.84)	9.51	(2.89)	35.18	(3.71)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.71	(0.23)	0.31	(0.20)	0.21	(0.13)	0.69	(0.21)	1.92	(0.20)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.05	(0.03)	0.10	(0.07)	0.00	(0.00)	0.16	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	166.43	(54.33)	74.26	(47.43)	70.27	(44.68)	185.24	(56.21)	496.20	(52.26)
Indoors, office	24.50	(8.00)	14.79	(9.45)	15.26	(9.71)	24.05	(7.30)	78.60	(8.28)
Indoors, store	7.27	(2.37)	3.43	(2.19)	2.71	(1.72)	7.52	(2.28)	20.93	(2.20)
Indoors, restaurant	6.02	(1.97)	3.58	(2.29)	3.65	(2.32)	6.39	(1.94)	19.64	(2.07)
Indoors, mfg. facility	7.07	(2.31)	5.63	(3.60)	7.58	(4.82)	7.53	(2.28)	27.80	(2.93)
Indoors, school	4.11	(1.34)	2.72	(1.74)	3.43	(2.18)	4.26	(1.29)	14.52	(1.53)
Indoors, church	1.41	(0.46)	0.85	(0.54)	0.91	(0.58)	1.51	(0.46)	4.67	(0.49)
Indoors, shopping mall	0.27	(0.09)	0.31	(0.20)	0.65	(0.41)	0.18	(0.06)	1.42	(0.15)
Indoors, auditorium	0.01	(0.00)	0.03	(0.02)	0.06	(0.04)	0.01	(0.00)	0.11	(0.01)
Indoors, health care facility	0.17	(0.06)	0.11	(0.07)	0.17	(0.11)	0.13	(0.04)	0.58	(0.06)
Indoors, public building	1.07	(0.35)	1.07	(0.69)	1.82	(1.16)	1.32	(0.40)	5.28	(0.56)
Indoors, other location	16.21	(5.29)	7.24	(4.63)	5.49	(3.49)	16.33	(4.96)	45.27	(4.77)
Indoors, not specified	0.20	(0.07)	0.09	(0.06)	0.08	(0.05)	0.15	(0.05)	0.52	(0.05)
Outdoors, construction	0.00	(0.00)	0.20	(0.13)	0.38	(0.24)	0.00	(0.00)	0.58	(0.06)
Outdoors, residential grounds	0.77	(0.25)	2.00	(1.28)	3.60	(2.29)	0.87	(0.27)	7.24	(0.76)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.57	(0.19)	0.57	(0.37)	0.72	(0.46)	0.55	(0.17)	2.41	(0.25)
Outdoors, other location	1.16	(0.38)	0.92	(0.59)	1.18	(0.75)	1.11	(0.34)	4.37	(0.46)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.60	(5.02)	10.23	(7.32)	12.38	(8.75)	14.11	(4.78)	50.32	(5.94)
In transit, bus	0.34	(0.13)	0.32	(0.23)	0.42	(0.30)	0.31	(0.10)	1.39	(0.16)
In transit, truck	0.09	(0.03)	0.00	(0.00)	0.00	(0.00)	0.04	(0.02)	0.14	(0.02)
In transit, van	1.23	(0.45)	0.49	(0.35)	0.27	(0.19)	1.41	(0.48)	3.39	(0.40)
Indoors, public garage	0.03	(0.01)	0.01	(0.01)	0.01	(0.00)	0.03	(0.01)	0.08	(0.01)
Outdoors, in a parking lot	0.69	(0.25)	0.68	(0.49)	0.98	(0.70)	0.73	(0.25)	3.08	(0.36)
Outdoors, along a roadway	5.13	(1.89)	4.07	(2.91)	5.35	(3.79)	5.42	(1.83)	19.96	(2.36)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.03	(0.02)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	231.21	(85.25)	109.63	(78.51)	104.85	(74.17)	253.36	(85.78)	699.04	(82.48)
Indoors, office	0.69	(0.25)	0.43	(0.31)	0.38	(0.27)	0.65	(0.22)	2.15	(0.25)
Indoors, store	3.08	(1.13)	2.19	(1.57)	2.58	(1.82)	3.09	(1.05)	10.94	(1.29)
Indoors, restaurant	3.51	(1.29)	1.95	(1.39)	1.82	(1.29)	3.85	(1.30)	11.13	(1.31)
Indoors, mfg. facility	0.00	(0.00)	0.02	(0.02)	0.05	(0.04)	0.00	(0.00)	0.07	(0.01)
Indoors, school	0.81	(0.30)	0.37	(0.26)	0.38	(0.27)	1.01	(0.34)	2.57	(0.30)
Indoors, church	1.97	(0.73)	0.98	(0.70)	0.77	(0.54)	2.06	(0.70)	5.78	(0.68)
Indoors, shopping mall	1.36	(0.50)	0.70	(0.50)	0.67	(0.47)	1.46	(0.49)	4.18	(0.49)
Indoors, auditorium	0.01	(0.00)	0.01	(0.01)	0.03	(0.02)	0.00	(0.00)	0.06	(0.01)
Indoors, health care facility	0.59	(0.22)	0.95	(0.68)	1.62	(1.15)	0.56	(0.19)	3.72	(0.44)
Indoors, public building	0.68	(0.25)	0.28	(0.20)	0.21	(0.15)	0.80	(0.27)	1.96	(0.23)
Indoors, other location	3.52	(1.30)	3.33	(2.38)	4.49	(3.17)	3.70	(1.25)	15.03	(1.77)
Indoors, not specified	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.53	(0.93)	2.16	(1.55)	2.65	(1.88)	2.66	(0.90)	10.01	(1.18)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.19	(0.14)	0.39	(0.27)	0.00	(0.00)	0.58	(0.07)
Outdoors, park/golf course	0.00	(0.00)	0.43	(0.31)	0.79	(0.56)	0.00	(0.00)	1.22	(0.14)
Outdoors, other location	0.11	(0.04)	0.19	(0.14)	0.26	(0.18)	0.10	(0.03)	0.66	(0.08)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	24.71	(8.68)	15.53	(10.63)	17.89	(12.02)	25.96	(8.47)	84.09	(9.49)
In transit, bus	2.01	(0.71)	1.02	(0.70)	0.99	(0.66)	2.06	(0.67)	6.08	(0.69)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.45	(0.16)	0.15	(0.10)	0.07	(0.05)	0.45	(0.15)	1.12	(0.13)
Indoors, public garage	0.13	(0.05)	0.05	(0.03)	0.02	(0.01)	0.13	(0.04)	0.33	(0.04)
Outdoors, in a parking lot	1.17	(0.41)	0.82	(0.56)	0.90	(0.60)	1.17	(0.38)	4.06	(0.46)
Outdoors, along a roadway	6.97	(2.45)	4.70	(3.22)	5.53	(3.71)	7.20	(2.35)	24.39	(2.75)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.06	(0.02)	0.03	(0.02)	0.03	(0.02)	0.07	(0.02)	0.19	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	176.92	(62.19)	80.99	(55.48)	77.71	(52.20)	195.13	(63.64)	530.76	(59.91)
Indoors, office	27.37	(9.62)	14.11	(9.66)	12.55	(8.43)	26.96	(8.79)	80.99	(9.14)
Indoors, store	5.16	(1.81)	3.57	(2.45)	3.99	(2.68)	5.29	(1.72)	18.01	(2.03)
Indoors, restaurant	11.83	(4.16)	5.37	(3.68)	4.36	(2.93)	13.08	(4.27)	34.64	(3.91)
Indoors, mfg. facility	0.00	(0.00)	3.93	(2.69)	8.90	(5.98)	0.00	(0.00)	12.83	(1.45)
Indoors, school	5.31	(1.87)	2.17	(1.49)	1.05	(0.70)	5.13	(1.67)	13.66	(1.54)
Indoors, church	1.14	(0.40)	0.66	(0.45)	0.75	(0.50)	1.20	(0.39)	3.74	(0.42)
Indoors, shopping mall	3.08	(1.08)	1.77	(1.22)	1.20	(0.81)	2.83	(0.92)	8.88	(1.00)
Indoors, auditorium	0.10	(0.04)	0.05	(0.03)	0.02	(0.02)	0.11	(0.04)	0.28	(0.03)
Indoors, health care facility	5.85	(2.06)	2.98	(2.04)	2.63	(1.77)	6.11	(1.99)	17.58	(1.98)
Indoors, public building	0.05	(0.02)	0.04	(0.03)	0.05	(0.04)	0.04	(0.01)	0.19	(0.02)
Indoors, other location	9.86	(3.47)	6.32	(4.33)	8.13	(5.46)	11.25	(3.67)	35.55	(4.01)
Indoors, not specified	0.10	(0.03)	0.06	(0.04)	0.04	(0.03)	0.10	(0.03)	0.29	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.69	(0.59)	1.36	(0.93)	1.79	(1.20)	1.81	(0.59)	6.65	(0.75)
Outdoors, school grounds	0.31	(0.11)	0.19	(0.13)	0.16	(0.11)	0.29	(0.10)	0.95	(0.11)
Outdoors, sports arena	0.01	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.03	(0.00)
Outdoors, park/golf course	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, other location	0.19	(0.07)	0.11	(0.08)	0.11	(0.07)	0.20	(0.07)	0.61	(0.07)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	40.61	(14.04)	21.19	(14.23)	18.33	(12.41)	42.27	(13.59)	122.40	(13.65)
In transit, bus	4.19	(1.45)	1.68	(1.13)	0.77	(0.52)	4.27	(1.37)	10.91	(1.22)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.80	(0.62)	1.73	(1.16)	2.29	(1.55)	1.89	(0.61)	7.70	(0.86)
Outdoors, along a roadway	9.83	(3.40)	7.02	(4.71)	8.12	(5.50)	10.70	(3.44)	35.67	(3.98)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.11	(0.07)	0.26	(0.18)	0.00	(0.00)	0.37	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.04	(0.01)	0.03	(0.02)	0.04	(0.03)	0.04	(0.01)	0.15	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, home	196.19	(67.85)	96.34	(64.67)	96.80	(65.55)	213.45	(68.63)	602.77	(67.21)
Indoors, office	7.72	(2.67)	3.62	(2.43)	2.48	(1.68)	7.64	(2.46)	21.45	(2.39)
Indoors, store	1.35	(0.47)	1.03	(0.69)	1.43	(0.97)	1.47	(0.47)	5.28	(0.59)
Indoors, restaurant	8.27	(2.86)	3.70	(2.48)	2.81	(1.90)	8.98	(2.89)	23.76	(2.65)
Indoors, mfg. facility	2.76	(0.96)	1.08	(0.73)	0.50	(0.34)	2.71	(0.87)	7.06	(0.79)
Indoors, school	0.04	(0.01)	0.25	(0.17)	0.43	(0.29)	0.02	(0.01)	0.74	(0.08)
Indoors, church	2.23	(0.77)	0.99	(0.66)	0.62	(0.42)	2.33	(0.75)	6.16	(0.69)
Indoors, shopping mall	0.11	(0.04)	0.82	(0.55)	1.70	(1.15)	0.05	(0.02)	2.68	(0.30)
Indoors, auditorium	1.61	(0.56)	0.52	(0.35)	0.27	(0.19)	1.97	(0.63)	4.38	(0.49)
Indoors, health care facility	0.54	(0.19)	0.53	(0.36)	0.61	(0.42)	0.48	(0.16)	2.17	(0.24)
Indoors, public building	0.14	(0.05)	0.35	(0.23)	0.64	(0.44)	0.13	(0.04)	1.26	(0.14)
Indoors, other location	6.49	(2.24)	2.17	(1.46)	0.98	(0.66)	7.33	(2.36)	16.97	(1.89)
Indoors, not specified	0.00	(0.00)	0.29	(0.20)	0.65	(0.44)	0.00	(0.00)	0.94	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.22	(0.77)	4.23	(2.84)	7.21	(4.88)	2.20	(0.71)	15.86	(1.77)
Outdoors, school grounds	1.28	(0.44)	0.37	(0.25)	0.16	(0.11)	1.53	(0.49)	3.33	(0.37)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	1.44	(0.50)	0.69	(0.46)	0.32	(0.21)	1.32	(0.42)	3.76	(0.42)
Outdoors, other location	0.00	(0.00)	0.09	(0.06)	0.16	(0.11)	0.00	(0.00)	0.25	(0.03)
Outdoors, not specified	0.25	(0.09)	0.13	(0.09)	0.06	(0.04)	0.22	(0.07)	0.67	(0.07)
In transit, train	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.37	(5.69)	10.44	(7.50)	10.64	(7.72)	14.83	(5.13)	51.27	(6.13)
In transit, bus	1.01	(0.37)	0.50	(0.36)	0.24	(0.17)	0.94	(0.33)	2.69	(0.32)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, public garage	0.03	(0.01)	0.02	(0.01)	0.01	(0.01)	0.03	(0.01)	0.10	(0.01)
Outdoors, in a parking lot	0.30	(0.11)	0.41	(0.30)	0.63	(0.46)	0.30	(0.10)	1.63	(0.20)
Outdoors, along a roadway	4.03	(1.49)	3.74	(2.68)	5.14	(3.73)	4.05	(1.40)	16.96	(2.03)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.05	(0.03)	0.09	(0.07)	0.00	(0.00)	0.14	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	230.14	(85.17)	111.81	(80.31)	109.05	(79.12)	250.51	(86.72)	701.52	(83.91)
Indoors, office	0.19	(0.07)	0.22	(0.16)	0.43	(0.31)	0.15	(0.05)	1.00	(0.12)
Indoors, store	0.85	(0.31)	1.64	(1.18)	2.56	(1.86)	0.78	(0.27)	5.82	(0.70)
Indoors, restaurant	3.13	(1.16)	2.05	(1.47)	1.68	(1.22)	2.77	(0.96)	9.63	(1.15)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.07	(0.05)	0.17	(0.12)	0.00	(0.00)	0.24	(0.03)
Indoors, church	3.16	(1.17)	1.38	(0.99)	0.99	(0.72)	3.16	(1.09)	8.69	(1.04)
Indoors, shopping mall	6.79	(2.51)	3.20	(2.30)	1.52	(1.10)	6.36	(2.20)	17.87	(2.14)
Indoors, auditorium	0.15	(0.06)	0.08	(0.06)	0.04	(0.03)	0.14	(0.05)	0.40	(0.05)
Indoors, health care facility	0.88	(0.33)	0.42	(0.30)	0.33	(0.24)	0.84	(0.29)	2.47	(0.29)
Indoors, public building	0.62	(0.23)	0.43	(0.31)	0.42	(0.31)	0.57	(0.20)	2.05	(0.25)
Indoors, other location	2.70	(1.00)	0.87	(0.62)	0.42	(0.31)	2.55	(0.88)	6.53	(0.78)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.45	(0.16)	1.32	(0.95)	2.61	(1.89)	0.46	(0.16)	4.84	(0.58)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.43	(0.16)	0.27	(0.19)	0.24	(0.17)	0.42	(0.15)	1.35	(0.16)
Outdoors, park/golf course	0.00	(0.00)	0.12	(0.09)	0.25	(0.18)	0.00	(0.00)	0.37	(0.04)
Outdoors, other location	0.00	(0.00)	0.17	(0.12)	0.35	(0.26)	0.00	(0.00)	0.53	(0.06)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.04	(5.70)	8.60	(4.86)	6.50	(3.58)	19.98	(5.52)	54.12	(5.13)
In transit, bus	0.00	(0.00)	0.77	(0.43)	1.87	(1.03)	0.00	(0.00)	2.63	(0.25)
In transit, truck	20.97	(6.27)	16.77	(9.48)	23.78	(13.10)	22.65	(6.26)	84.16	(7.98)
In transit, van	0.09	(0.03)	0.00	(0.00)	0.00	(0.00)	0.04	(0.01)	0.13	(0.01)
Indoors, public garage	6.90	(2.06)	2.43	(1.37)	1.06	(0.58)	7.59	(2.10)	17.98	(1.70)
Outdoors, in a parking lot	6.20	(1.86)	2.87	(1.62)	2.10	(1.16)	6.45	(1.78)	17.63	(1.67)
Outdoors, along a roadway	41.42	(12.39)	26.86	(15.18)	28.74	(15.83)	42.31	(11.69)	139.33	(13.21)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.13	(0.34)	0.68	(0.38)	1.18	(0.65)	0.85	(0.24)	3.84	(0.36)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.46	(0.14)	0.06	(0.03)	0.03	(0.01)	0.41	(0.11)	0.95	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.27	(0.15)	0.62	(0.34)	0.00	(0.00)	0.89	(0.08)
Indoors, home	162.18	(48.53)	70.58	(39.89)	65.63	(36.17)	183.60	(50.75)	481.99	(45.72)
Indoors, office	2.03	(0.61)	3.69	(2.08)	5.99	(3.30)	1.87	(0.52)	13.59	(1.29)
Indoors, store	0.93	(0.28)	0.42	(0.24)	0.33	(0.18)	0.92	(0.25)	2.60	(0.25)
Indoors, restaurant	2.79	(0.83)	1.43	(0.81)	1.03	(0.57)	3.11	(0.86)	8.35	(0.79)
Indoors, mfg. facility	7.58	(2.27)	3.87	(2.19)	2.31	(1.27)	7.65	(2.12)	21.41	(2.03)
Indoors, school	3.21	(0.96)	1.31	(0.74)	0.61	(0.34)	3.22	(0.89)	8.36	(0.79)
Indoors, church	1.56	(0.47)	0.49	(0.28)	0.27	(0.15)	1.60	(0.44)	3.92	(0.37)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.03	(0.01)	0.47	(0.27)	0.80	(0.44)	0.02	(0.00)	1.32	(0.13)
Indoors, health care facility	0.00	(0.00)	0.19	(0.11)	0.47	(0.26)	0.00	(0.00)	0.66	(0.06)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	2.51	(0.75)	1.14	(0.64)	1.11	(0.61)	2.25	(0.62)	7.00	(0.66)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	18.35	(5.49)	16.51	(9.33)	22.42	(12.35)	17.90	(4.95)	75.18	(7.13)
Outdoors, residential grounds	4.11	(1.23)	2.25	(1.27)	1.78	(0.98)	4.13	(1.14)	12.27	(1.16)
Outdoors, school grounds	0.26	(0.08)	0.12	(0.07)	0.05	(0.03)	0.26	(0.07)	0.69	(0.07)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	1.54	(0.46)	0.77	(0.43)	0.45	(0.25)	1.50	(0.42)	4.26	(0.40)
Outdoors, other location	30.93	(9.26)	14.38	(8.13)	12.36	(6.81)	33.47	(9.25)	91.14	(8.64)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.55	(5.69)	9.64	(6.11)	9.65	(6.18)	19.86	(5.85)	56.70	(5.89)
In transit, bus	11.03	(3.58)	4.25	(2.69)	2.58	(1.65)	11.52	(3.39)	29.39	(3.05)
In transit, truck	0.28	(0.09)	0.30	(0.19)	0.45	(0.29)	0.28	(0.08)	1.31	(0.14)
In transit, van	0.26	(0.08)	0.26	(0.17)	0.35	(0.22)	0.25	(0.07)	1.13	(0.12)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	1.18	(0.38)	0.72	(0.46)	0.78	(0.50)	1.25	(0.37)	3.92	(0.41)
Outdoors, along a roadway	22.31	(7.23)	16.43	(10.42)	19.34	(12.39)	24.43	(7.19)	82.52	(8.58)
In transit, motorcycle	0.19	(0.06)	0.06	(0.04)	0.04	(0.03)	0.20	(0.06)	0.49	(0.05)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.10	(0.03)	0.07	(0.04)	0.07	(0.05)	0.12	(0.04)	0.36	(0.04)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	177.92	(57.66)	84.86	(53.80)	86.70	(55.55)	201.79	(59.41)	551.27	(57.30)
Indoors, office	0.07	(0.02)	0.15	(0.09)	0.26	(0.17)	0.07	(0.02)	0.56	(0.06)
Indoors, store	1.78	(0.58)	1.33	(0.85)	1.60	(1.03)	1.90	(0.56)	6.61	(0.69)
Indoors, restaurant	3.28	(1.06)	1.49	(0.95)	1.22	(0.78)	3.85	(1.13)	9.85	(1.02)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	51.66	(16.74)	21.51	(13.64)	13.53	(8.67)	52.14	(15.35)	138.83	(14.43)
Indoors, church	1.23	(0.40)	0.59	(0.37)	0.52	(0.33)	1.31	(0.38)	3.65	(0.38)
Indoors, shopping mall	1.33	(0.43)	0.93	(0.59)	0.84	(0.54)	1.28	(0.38)	4.37	(0.45)
Indoors, auditorium	0.35	(0.11)	0.12	(0.08)	0.06	(0.04)	0.44	(0.13)	0.97	(0.10)
Indoors, health care facility	1.26	(0.41)	0.55	(0.35)	0.28	(0.18)	1.43	(0.42)	3.52	(0.37)
Indoors, public building	0.87	(0.28)	0.44	(0.28)	0.39	(0.25)	0.92	(0.27)	2.62	(0.27)
Indoors, other location	1.91	(0.62)	0.98	(0.62)	0.82	(0.52)	2.01	(0.59)	5.72	(0.59)
Indoors, not specified	0.00	(0.00)	0.05	(0.03)	0.10	(0.06)	0.00	(0.00)	0.14	(0.01)
Outdoors, construction	0.00	(0.00)	0.18	(0.12)	0.42	(0.27)	0.00	(0.00)	0.60	(0.06)
Outdoors, residential grounds	4.62	(1.50)	4.85	(3.07)	6.65	(4.26)	5.11	(1.50)	21.22	(2.21)
Outdoors, school grounds	8.02	(2.60)	4.57	(2.89)	3.47	(2.22)	8.03	(2.36)	24.08	(2.50)
Outdoors, sports arena	0.84	(0.27)	0.56	(0.36)	0.61	(0.39)	0.93	(0.27)	2.95	(0.31)
Outdoors, park/golf course	0.31	(0.10)	0.88	(0.56)	1.50	(0.96)	0.37	(0.11)	3.06	(0.32)
Outdoors, other location	0.21	(0.07)	1.97	(1.25)	3.83	(2.46)	0.21	(0.06)	6.22	(0.65)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.80	(4.97)	10.40	(7.27)	12.90	(8.94)	14.09	(4.68)	51.19	(5.91)
In transit, bus	4.99	(1.80)	2.05	(1.43)	0.94	(0.65)	5.08	(1.69)	13.06	(1.51)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	1.60	(0.58)	0.66	(0.46)	0.40	(0.28)	1.82	(0.61)	4.48	(0.52)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.78	(0.28)	0.61	(0.43)	0.79	(0.55)	0.81	(0.27)	2.99	(0.35)
Outdoors, along a roadway	5.81	(2.09)	5.28	(3.69)	7.59	(5.26)	6.24	(2.07)	24.91	(2.88)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.07	(0.05)	0.16	(0.11)	0.00	(0.00)	0.23	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.17	(0.06)	0.12	(0.09)	0.12	(0.09)	0.16	(0.05)	0.58	(0.07)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	209.38	(75.42)	99.79	(69.68)	97.55	(67.58)	231.51	(76.89)	638.22	(73.68)
Indoors, office	9.25	(3.33)	4.76	(3.32)	4.13	(2.86)	9.13	(3.03)	27.27	(3.15)
Indoors, store	1.47	(0.53)	1.66	(1.16)	2.48	(1.72)	1.48	(0.49)	7.08	(0.82)
Indoors, restaurant	3.67	(1.32)	2.03	(1.42)	1.75	(1.21)	3.67	(1.22)	11.12	(1.28)
Indoors, mfg. facility	4.07	(1.47)	2.68	(1.87)	3.20	(2.22)	4.03	(1.34)	13.97	(1.61)
Indoors, school	12.65	(4.56)	5.56	(3.88)	3.96	(2.75)	12.63	(4.20)	34.81	(4.02)
Indoors, church	2.45	(0.88)	1.16	(0.81)	0.76	(0.53)	2.57	(0.85)	6.94	(0.80)
Indoors, shopping mall	1.75	(0.63)	0.79	(0.55)	0.36	(0.25)	1.70	(0.56)	4.60	(0.53)
Indoors, auditorium	0.13	(0.05)	0.04	(0.03)	0.02	(0.01)	0.16	(0.05)	0.33	(0.04)
Indoors, health care facility	1.12	(0.40)	0.52	(0.37)	0.44	(0.31)	1.11	(0.37)	3.19	(0.37)
Indoors, public building	0.11	(0.04)	0.10	(0.07)	0.09	(0.06)	0.10	(0.03)	0.39	(0.05)
Indoors, other location	0.54	(0.19)	0.85	(0.59)	1.26	(0.88)	0.61	(0.20)	3.26	(0.38)
Indoors, not specified	0.01	(0.00)	0.16	(0.11)	0.33	(0.23)	0.00	(0.00)	0.50	(0.06)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.04	(0.74)	2.44	(1.70)	3.34	(2.31)	2.21	(0.74)	10.04	(1.16)
Outdoors, school grounds	1.73	(0.62)	0.75	(0.52)	0.32	(0.22)	1.82	(0.60)	4.62	(0.53)
Outdoors, sports arena	0.03	(0.01)	0.11	(0.08)	0.19	(0.13)	0.03	(0.01)	0.36	(0.04)
Outdoors, park/golf course	0.02	(0.01)	0.03	(0.02)	0.04	(0.03)	0.02	(0.01)	0.10	(0.01)
Outdoors, other location	0.10	(0.04)	0.60	(0.42)	1.19	(0.82)	0.09	(0.03)	1.97	(0.23)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Los Angeles: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	26.29	(8.96)	14.43	(9.59)	14.23	(9.44)	28.11	(8.80)	83.06	(9.09)
In transit, bus	2.94	(1.00)	1.43	(0.95)	1.23	(0.81)	3.02	(0.95)	8.62	(0.94)
In transit, truck	2.42	(0.83)	1.43	(0.95)	1.57	(1.04)	2.53	(0.79)	7.96	(0.87)
In transit, van	1.32	(0.45)	0.67	(0.45)	0.64	(0.42)	1.47	(0.46)	4.10	(0.45)
Indoors, public garage	0.63	(0.21)	0.27	(0.18)	0.17	(0.11)	0.64	(0.20)	1.71	(0.19)
Outdoors, in a parking lot	1.35	(0.46)	0.92	(0.61)	1.07	(0.71)	1.43	(0.45)	4.78	(0.52)
Outdoors, along a roadway	11.41	(3.89)	8.22	(5.46)	9.57	(6.35)	12.11	(3.79)	41.31	(4.52)
In transit, motorcycle	0.01	(0.00)	0.11	(0.07)	0.18	(0.12)	0.02	(0.01)	0.32	(0.04)
Indoors, service station	0.52	(0.18)	0.24	(0.16)	0.16	(0.11)	0.52	(0.16)	1.44	(0.16)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.31	(0.11)	0.14	(0.09)	0.10	(0.07)	0.35	(0.11)	0.91	(0.10)
Indoors, in a repair shop	0.05	(0.02)	0.01	(0.01)	0.01	(0.01)	0.03	(0.01)	0.09	(0.01)
Indoors, home	190.83	(65.04)	90.14	(59.91)	88.66	(58.84)	212.41	(66.47)	582.04	(63.67)
Indoors, office	13.54	(4.61)	7.12	(4.73)	6.44	(4.28)	13.42	(4.20)	40.52	(4.43)
Indoors, store	3.83	(1.30)	2.63	(1.75)	2.93	(1.95)	3.94	(1.23)	13.33	(1.46)
Indoors, restaurant	4.89	(1.67)	2.85	(1.89)	2.95	(1.96)	5.19	(1.62)	15.88	(1.74)
Indoors, mfg. facility	2.25	(0.77)	1.70	(1.13)	2.24	(1.49)	2.31	(0.72)	8.49	(0.93)
Indoors, school	13.40	(4.57)	6.18	(4.11)	4.62	(3.07)	13.51	(4.23)	37.71	(4.13)
Indoors, church	1.35	(0.46)	0.65	(0.43)	0.56	(0.37)	1.46	(0.46)	4.02	(0.44)
Indoors, shopping mall	1.32	(0.45)	0.76	(0.50)	0.64	(0.42)	1.30	(0.41)	4.01	(0.44)
Indoors, auditorium	0.22	(0.08)	0.11	(0.07)	0.09	(0.06)	0.25	(0.08)	0.67	(0.07)
Indoors, health care facility	1.94	(0.66)	0.95	(0.63)	0.83	(0.55)	2.04	(0.64)	5.77	(0.63)
Indoors, public building	0.53	(0.18)	0.36	(0.24)	0.44	(0.29)	0.57	(0.18)	1.89	(0.21)
Indoors, other location	6.80	(2.32)	3.75	(2.49)	4.04	(2.68)	7.43	(2.32)	22.01	(2.41)
Indoors, not specified	0.11	(0.04)	0.07	(0.04)	0.07	(0.05)	0.09	(0.03)	0.34	(0.04)
Outdoors, construction	0.46	(0.16)	0.34	(0.23)	0.41	(0.28)	0.46	(0.14)	1.68	(0.18)
Outdoors, residential grounds	2.11	(0.72)	2.29	(1.52)	3.15	(2.09)	2.24	(0.70)	9.79	(1.07)
Outdoors, school grounds	1.24	(0.42)	0.81	(0.54)	0.81	(0.53)	1.24	(0.39)	4.10	(0.45)
Outdoors, sports arena	0.11	(0.04)	0.18	(0.12)	0.29	(0.19)	0.11	(0.04)	0.70	(0.08)
Outdoors, park/golf course	0.28	(0.10)	0.44	(0.29)	0.65	(0.43)	0.30	(0.09)	1.68	(0.18)
Outdoors, other location	0.85	(0.29)	1.14	(0.76)	1.73	(1.15)	0.91	(0.29)	4.63	(0.51)
Outdoors, not specified	0.05	(0.02)	0.06	(0.04)	0.08	(0.06)	0.05	(0.02)	0.25	(0.03)
In transit, train	0.07	(0.02)	0.05	(0.03)	0.07	(0.05)	0.07	(0.02)	0.27	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.52	(9.56)	17.18	(9.91)	19.67	(10.51)	20.34	(9.84)	77.70	(9.94)
In transit, bus	3.34	(1.55)	1.76	(1.02)	1.30	(0.70)	3.05	(1.48)	9.45	(1.21)
In transit, truck	0.82	(0.38)	1.43	(0.83)	1.77	(0.95)	1.10	(0.53)	5.13	(0.66)
In transit, van	0.80	(0.37)	0.83	(0.48)	0.88	(0.47)	0.85	(0.41)	3.36	(0.43)
Indoors, public garage	0.49	(0.23)	0.21	(0.12)	0.13	(0.07)	0.44	(0.21)	1.27	(0.16)
Outdoors, in a parking lot	1.85	(0.86)	1.40	(0.81)	1.62	(0.87)	1.79	(0.86)	6.65	(0.85)
Outdoors, along a roadway	10.17	(4.74)	11.10	(6.41)	14.65	(7.83)	10.52	(5.09)	46.45	(5.94)
In transit, motorcycle	0.13	(0.06)	0.18	(0.11)	0.37	(0.20)	0.10	(0.05)	0.77	(0.10)
Indoors, service station	0.53	(0.25)	0.29	(0.17)	0.20	(0.11)	0.51	(0.24)	1.53	(0.20)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.16	(0.07)	0.14	(0.08)	0.12	(0.06)	0.18	(0.09)	0.60	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, home	127.41	(59.37)	99.52	(57.43)	103.15	(55.13)	119.66	(57.90)	449.74	(57.54)
Indoors, office	7.13	(3.32)	5.62	(3.24)	6.17	(3.30)	6.99	(3.38)	25.91	(3.32)
Indoors, store	5.39	(2.51)	3.78	(2.18)	4.27	(2.28)	5.17	(2.50)	18.61	(2.38)
Indoors, restaurant	5.76	(2.68)	3.98	(2.30)	4.40	(2.35)	5.52	(2.67)	19.66	(2.52)
Indoors, mfg. facility	2.65	(1.24)	2.13	(1.23)	2.36	(1.26)	2.54	(1.23)	9.69	(1.24)
Indoors, school	13.79	(6.42)	8.08	(4.67)	5.60	(2.99)	13.48	(6.52)	40.95	(5.24)
Indoors, church	0.92	(0.43)	0.69	(0.40)	0.65	(0.35)	0.95	(0.46)	3.21	(0.41)
Indoors, shopping mall	1.84	(0.86)	1.19	(0.68)	1.08	(0.58)	1.90	(0.92)	5.99	(0.77)
Indoors, auditorium	0.12	(0.06)	0.16	(0.09)	0.18	(0.10)	0.15	(0.07)	0.61	(0.08)
Indoors, health care facility	1.58	(0.74)	1.12	(0.65)	0.96	(0.52)	1.59	(0.77)	5.26	(0.67)
Indoors, public building	0.50	(0.23)	0.53	(0.31)	0.66	(0.35)	0.53	(0.26)	2.23	(0.29)
Indoors, other location	3.89	(1.81)	4.06	(2.34)	4.87	(2.60)	3.96	(1.91)	16.77	(2.15)
Indoors, not specified	0.10	(0.05)	0.07	(0.04)	0.11	(0.06)	0.08	(0.04)	0.36	(0.05)
Outdoors, construction	0.41	(0.19)	0.50	(0.29)	0.57	(0.30)	0.50	(0.24)	1.97	(0.25)
Outdoors, residential grounds	2.08	(0.97)	3.59	(2.07)	5.58	(2.98)	2.33	(1.12)	13.57	(1.74)
Outdoors, school grounds	1.47	(0.68)	1.26	(0.73)	1.23	(0.66)	1.59	(0.77)	5.55	(0.71)
Outdoors, sports arena	0.06	(0.03)	0.26	(0.15)	0.48	(0.26)	0.07	(0.04)	0.88	(0.11)
Outdoors, park/golf course	0.20	(0.09)	0.72	(0.41)	1.25	(0.67)	0.26	(0.13)	2.43	(0.31)
Outdoors, other location	0.47	(0.22)	1.44	(0.83)	2.79	(1.49)	0.48	(0.23)	5.18	(0.66)
Outdoors, not specified	0.05	(0.03)	0.04	(0.02)	0.05	(0.03)	0.05	(0.02)	0.19	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.65	(10.07)	12.99	(7.59)	14.18	(7.72)	19.15	(9.51)	67.97	(8.81)
In transit, bus	3.16	(1.47)	4.65	(2.72)	4.52	(2.46)	4.23	(2.10)	16.56	(2.15)
In transit, truck	0.00	(0.00)	0.64	(0.37)	1.36	(0.74)	0.00	(0.00)	2.00	(0.26)
In transit, van	0.00	(0.00)	0.04	(0.03)	0.09	(0.05)	0.00	(0.00)	0.13	(0.02)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.87	(0.87)	1.13	(0.66)	1.56	(0.85)	1.54	(0.77)	6.11	(0.79)
Outdoors, along a roadway	5.68	(2.64)	9.88	(5.77)	15.44	(8.41)	6.26	(3.11)	37.26	(4.83)
In transit, motorcycle	0.05	(0.02)	0.19	(0.11)	0.16	(0.08)	0.15	(0.07)	0.54	(0.07)
Indoors, service station	0.00	(0.00)	0.07	(0.04)	0.15	(0.08)	0.00	(0.00)	0.23	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.04	(0.02)	0.08	(0.05)	0.00	(0.00)	0.13	(0.02)
Indoors, home	147.16	(68.45)	112.48	(65.73)	114.48	(62.36)	135.70	(67.33)	509.83	(66.10)
Indoors, office	0.00	(0.00)	2.17	(1.27)	4.20	(2.29)	0.17	(0.08)	6.54	(0.85)
Indoors, store	1.25	(0.58)	1.44	(0.84)	1.98	(1.08)	1.31	(0.65)	5.98	(0.77)
Indoors, restaurant	3.61	(1.68)	0.84	(0.49)	0.37	(0.20)	2.89	(1.43)	7.71	(1.00)
Indoors, mfg. facility	5.94	(2.76)	1.74	(1.02)	1.75	(0.95)	4.41	(2.19)	13.84	(1.79)
Indoors, school	5.99	(2.78)	8.05	(4.70)	5.97	(3.25)	8.69	(4.31)	28.69	(3.72)
Indoors, church	3.68	(1.71)	1.80	(1.05)	1.36	(0.74)	3.55	(1.76)	10.39	(1.35)
Indoors, shopping mall	0.00	(0.00)	0.77	(0.45)	0.69	(0.37)	0.37	(0.18)	1.82	(0.24)
Indoors, auditorium	0.00	(0.00)	0.07	(0.04)	0.06	(0.03)	0.04	(0.02)	0.17	(0.02)
Indoors, health care facility	1.20	(0.56)	2.16	(1.26)	2.68	(1.46)	1.48	(0.73)	7.51	(0.97)
Indoors, public building	0.03	(0.01)	0.23	(0.13)	0.42	(0.23)	0.07	(0.04)	0.75	(0.10)
Indoors, other location	12.98	(6.04)	3.95	(2.31)	3.52	(1.92)	9.37	(4.65)	29.83	(3.87)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.32	(0.15)	2.99	(1.75)	4.84	(2.64)	0.85	(0.42)	9.00	(1.17)
Outdoors, school grounds	0.38	(0.18)	1.22	(0.71)	0.90	(0.49)	1.01	(0.50)	3.52	(0.46)
Outdoors, sports arena	0.00	(0.00)	0.43	(0.25)	0.34	(0.19)	0.24	(0.12)	1.01	(0.13)
Outdoors, park/golf course	0.00	(0.00)	0.20	(0.12)	0.44	(0.24)	0.00	(0.00)	0.65	(0.08)
Outdoors, other location	0.02	(0.01)	0.50	(0.29)	1.13	(0.62)	0.02	(0.01)	1.67	(0.22)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.00	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.44	(0.26)	0.90	(0.49)	0.00	(0.00)	1.34	(0.17)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.88	(8.71)	12.13	(7.51)	13.82	(7.79)	16.03	(8.34)	58.86	(8.12)
In transit, bus	2.36	(1.22)	3.43	(2.13)	3.63	(2.05)	3.08	(1.60)	12.50	(1.72)
In transit, truck	0.00	(0.00)	0.56	(0.35)	1.22	(0.69)	0.00	(0.00)	1.79	(0.25)
In transit, van	0.23	(0.12)	0.80	(0.49)	0.73	(0.41)	0.60	(0.31)	2.35	(0.32)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.45	(0.75)	1.14	(0.70)	1.49	(0.84)	1.36	(0.71)	5.44	(0.75)
Outdoors, along a roadway	5.92	(3.06)	14.23	(8.81)	18.29	(10.30)	9.36	(4.87)	47.80	(6.59)
In transit, motorcycle	0.03	(0.02)	0.13	(0.08)	0.12	(0.07)	0.10	(0.05)	0.39	(0.05)
Indoors, service station	0.00	(0.00)	0.06	(0.04)	0.14	(0.08)	0.00	(0.00)	0.20	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.04	(0.02)	0.08	(0.04)	0.00	(0.00)	0.12	(0.02)
Indoors, home	138.15	(71.28)	103.87	(64.30)	108.52	(61.12)	132.71	(69.07)	483.25	(66.64)
Indoors, office	0.05	(0.03)	2.22	(1.37)	4.19	(2.36)	0.29	(0.15)	6.75	(0.93)
Indoors, store	0.97	(0.50)	1.54	(0.95)	2.31	(1.30)	1.11	(0.58)	5.93	(0.82)
Indoors, restaurant	2.94	(1.52)	0.85	(0.53)	0.42	(0.24)	2.54	(1.32)	6.76	(0.93)
Indoors, mfg. facility	4.85	(2.50)	1.48	(0.92)	1.56	(0.88)	3.67	(1.91)	11.56	(1.59)
Indoors, school	5.53	(2.85)	5.89	(3.65)	4.43	(2.49)	7.13	(3.71)	22.98	(3.17)
Indoors, church	2.58	(1.33)	1.67	(1.04)	1.37	(0.77)	2.73	(1.42)	8.36	(1.15)
Indoors, shopping mall	0.00	(0.00)	0.65	(0.40)	0.60	(0.34)	0.32	(0.16)	1.57	(0.22)
Indoors, auditorium	0.00	(0.00)	0.06	(0.04)	0.05	(0.03)	0.04	(0.02)	0.15	(0.02)
Indoors, health care facility	0.93	(0.48)	1.75	(1.08)	2.27	(1.28)	1.24	(0.65)	6.20	(0.85)
Indoors, public building	0.02	(0.01)	0.19	(0.12)	0.36	(0.20)	0.06	(0.03)	0.64	(0.09)
Indoors, other location	10.17	(5.25)	3.53	(2.19)	3.33	(1.88)	7.93	(4.13)	24.96	(3.44)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.45	(0.23)	2.93	(1.81)	5.13	(2.89)	0.88	(0.46)	9.39	(1.29)
Outdoors, school grounds	0.25	(0.13)	0.83	(0.51)	0.65	(0.37)	0.68	(0.35)	2.41	(0.33)
Outdoors, sports arena	0.00	(0.00)	0.39	(0.24)	0.35	(0.20)	0.20	(0.11)	0.94	(0.13)
Outdoors, park/golf course	0.00	(0.00)	0.17	(0.11)	0.38	(0.21)	0.00	(0.00)	0.55	(0.08)
Outdoors, other location	0.04	(0.02)	0.60	(0.37)	1.32	(0.74)	0.09	(0.05)	2.06	(0.28)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.37	(0.23)	0.78	(0.44)	0.00	(0.00)	1.15	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.13	(5.23)	9.26	(5.91)	11.69	(6.98)	10.28	(5.45)	41.37	(5.86)
In transit, bus	3.06	(1.58)	1.68	(1.08)	1.14	(0.68)	2.92	(1.55)	8.80	(1.25)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.18	(0.12)	0.39	(0.23)	0.00	(0.00)	0.58	(0.08)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.73	(0.37)	1.81	(1.15)	2.66	(1.59)	0.96	(0.51)	6.15	(0.87)
Outdoors, along a roadway	8.51	(4.40)	9.60	(6.13)	11.04	(6.59)	9.82	(5.21)	38.97	(5.52)
In transit, motorcycle	0.00	(0.00)	0.10	(0.06)	0.22	(0.13)	0.00	(0.00)	0.32	(0.04)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	144.94	(74.91)	115.06	(73.46)	120.27	(71.79)	138.55	(73.48)	518.82	(73.47)
Indoors, office	0.54	(0.28)	0.17	(0.11)	0.14	(0.08)	0.43	(0.23)	1.28	(0.18)
Indoors, store	4.76	(2.46)	3.15	(2.01)	4.35	(2.60)	4.46	(2.36)	16.71	(2.37)
Indoors, restaurant	5.87	(3.04)	1.57	(1.00)	0.90	(0.53)	4.79	(2.54)	13.13	(1.86)
Indoors, mfg. facility	2.63	(1.36)	1.97	(1.26)	3.33	(1.99)	1.94	(1.03)	9.87	(1.40)
Indoors, school	7.18	(3.71)	5.32	(3.40)	2.92	(1.74)	8.26	(4.38)	23.68	(3.35)
Indoors, church	0.29	(0.15)	0.34	(0.22)	0.22	(0.13)	0.42	(0.22)	1.28	(0.18)
Indoors, shopping mall	0.35	(0.18)	1.00	(0.64)	0.67	(0.40)	0.91	(0.49)	2.93	(0.42)
Indoors, auditorium	0.00	(0.00)	0.18	(0.11)	0.19	(0.11)	0.08	(0.04)	0.45	(0.06)
Indoors, health care facility	0.11	(0.06)	0.39	(0.25)	0.36	(0.21)	0.30	(0.16)	1.16	(0.16)
Indoors, public building	0.91	(0.47)	0.27	(0.17)	0.14	(0.08)	0.85	(0.45)	2.16	(0.31)
Indoors, other location	1.86	(0.96)	1.77	(1.13)	2.54	(1.52)	1.85	(0.98)	8.02	(1.14)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.25	(0.64)	1.68	(1.07)	2.39	(1.43)	1.27	(0.67)	6.58	(0.93)
Outdoors, school grounds	0.08	(0.04)	0.23	(0.15)	0.16	(0.09)	0.22	(0.12)	0.69	(0.10)
Outdoors, sports arena	0.00	(0.00)	0.20	(0.13)	0.42	(0.25)	0.00	(0.00)	0.62	(0.09)
Outdoors, park/golf course	0.28	(0.14)	0.12	(0.08)	0.15	(0.09)	0.24	(0.13)	0.79	(0.11)
Outdoors, other location	0.00	(0.00)	0.57	(0.37)	1.22	(0.73)	0.01	(0.01)	1.81	(0.26)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.94	(8.03)	14.73	(8.58)	16.31	(8.75)	17.38	(8.52)	65.36	(8.46)
In transit, bus	1.01	(0.48)	1.17	(0.68)	1.21	(0.65)	1.21	(0.59)	4.61	(0.60)
In transit, truck	0.67	(0.32)	2.23	(1.30)	3.74	(2.00)	0.91	(0.45)	7.55	(0.98)
In transit, van	0.03	(0.01)	0.22	(0.13)	0.27	(0.14)	0.10	(0.05)	0.61	(0.08)
Indoors, public garage	0.00	(0.00)	0.03	(0.02)	0.05	(0.03)	0.00	(0.00)	0.08	(0.01)
Outdoors, in a parking lot	3.42	(1.62)	1.73	(1.01)	1.85	(0.99)	3.06	(1.50)	10.07	(1.30)
Outdoors, along a roadway	11.20	(5.31)	12.33	(7.18)	17.24	(9.25)	11.19	(5.49)	51.96	(6.72)
In transit, motorcycle	0.00	(0.00)	1.01	(0.59)	2.34	(1.25)	0.00	(0.00)	3.35	(0.43)
Indoors, service station	0.00	(0.00)	0.06	(0.03)	0.13	(0.07)	0.00	(0.00)	0.19	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.17	(0.08)	0.19	(0.11)	0.13	(0.07)	0.22	(0.11)	0.70	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.02	(0.01)	0.03	(0.02)	0.00	(0.00)	0.05	(0.01)
Indoors, home	130.52	(61.87)	102.81	(59.84)	107.54	(57.69)	123.09	(60.38)	463.96	(60.02)
Indoors, office	4.63	(2.20)	3.77	(2.19)	3.81	(2.04)	4.74	(2.32)	16.95	(2.19)
Indoors, store	3.32	(1.57)	3.42	(1.99)	4.40	(2.36)	3.50	(1.72)	14.63	(1.89)
Indoors, restaurant	9.55	(4.53)	5.12	(2.98)	3.66	(1.96)	9.22	(4.52)	27.55	(3.56)
Indoors, mfg. facility	4.04	(1.91)	2.44	(1.42)	2.07	(1.11)	3.73	(1.83)	12.28	(1.59)
Indoors, school	11.83	(5.61)	6.47	(3.77)	4.63	(2.49)	11.13	(5.46)	34.06	(4.41)
Indoors, church	0.67	(0.32)	0.70	(0.41)	0.65	(0.35)	0.82	(0.40)	2.83	(0.37)
Indoors, shopping mall	3.19	(1.51)	1.19	(0.69)	0.84	(0.45)	2.98	(1.46)	8.20	(1.06)
Indoors, auditorium	0.01	(0.01)	0.07	(0.04)	0.07	(0.04)	0.05	(0.02)	0.20	(0.03)
Indoors, health care facility	2.90	(1.37)	1.55	(0.90)	1.30	(0.70)	2.68	(1.31)	8.43	(1.09)
Indoors, public building	0.57	(0.27)	0.21	(0.12)	0.17	(0.09)	0.48	(0.24)	1.43	(0.18)
Indoors, other location	2.95	(1.40)	4.78	(2.78)	5.54	(2.97)	3.72	(1.82)	16.99	(2.20)
Indoors, not specified	0.05	(0.03)	0.06	(0.04)	0.12	(0.06)	0.05	(0.02)	0.28	(0.04)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.69	(0.80)	2.81	(1.63)	4.23	(2.27)	1.82	(0.89)	10.54	(1.36)
Outdoors, school grounds	1.32	(0.63)	1.34	(0.78)	1.42	(0.76)	1.51	(0.74)	5.59	(0.72)
Outdoors, sports arena	0.00	(0.00)	0.23	(0.13)	0.48	(0.26)	0.00	(0.00)	0.71	(0.09)
Outdoors, park/golf course	0.04	(0.02)	0.50	(0.29)	1.01	(0.54)	0.10	(0.05)	1.64	(0.21)
Outdoors, other location	0.00	(0.00)	0.56	(0.33)	1.18	(0.63)	0.00	(0.00)	1.74	(0.23)
Outdoors, not specified	0.26	(0.12)	0.04	(0.02)	0.00	(0.00)	0.18	(0.09)	0.48	(0.06)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.13	(9.83)	17.06	(9.82)	19.24	(10.26)	20.74	(10.02)	78.18	(9.98)
In transit, bus	3.83	(1.78)	1.78	(1.02)	1.39	(0.74)	3.30	(1.60)	10.30	(1.32)
In transit, truck	0.53	(0.25)	1.10	(0.63)	1.41	(0.75)	0.76	(0.37)	3.80	(0.49)
In transit, van	1.80	(0.84)	1.57	(0.91)	1.59	(0.85)	1.84	(0.89)	6.81	(0.87)
Indoors, public garage	1.18	(0.55)	0.40	(0.23)	0.16	(0.08)	1.04	(0.50)	2.78	(0.36)
Outdoors, in a parking lot	1.65	(0.77)	1.27	(0.73)	1.48	(0.79)	1.61	(0.78)	6.02	(0.77)
Outdoors, along a roadway	8.98	(4.18)	12.34	(7.10)	15.96	(8.51)	10.36	(5.01)	47.64	(6.08)
In transit, motorcycle	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, service station	0.11	(0.05)	0.06	(0.04)	0.05	(0.03)	0.10	(0.05)	0.32	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.28	(0.13)	0.16	(0.09)	0.12	(0.06)	0.28	(0.14)	0.84	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	130.04	(60.52)	100.27	(57.72)	103.50	(55.21)	121.70	(58.82)	455.51	(58.18)
Indoors, office	6.42	(2.99)	5.63	(3.24)	6.05	(3.23)	6.65	(3.21)	24.75	(3.16)
Indoors, store	4.79	(2.23)	3.50	(2.01)	4.36	(2.32)	4.46	(2.16)	17.11	(2.19)
Indoors, restaurant	3.90	(1.82)	2.85	(1.64)	3.14	(1.67)	3.92	(1.89)	13.81	(1.76)
Indoors, mfg. facility	2.89	(1.34)	2.42	(1.39)	2.72	(1.45)	2.80	(1.35)	10.83	(1.38)
Indoors, school	11.61	(5.40)	6.71	(3.86)	5.17	(2.76)	11.02	(5.33)	34.51	(4.41)
Indoors, church	1.70	(0.79)	0.98	(0.56)	0.77	(0.41)	1.68	(0.81)	5.12	(0.65)
Indoors, shopping mall	1.93	(0.90)	0.95	(0.55)	0.68	(0.36)	1.90	(0.92)	5.46	(0.70)
Indoors, auditorium	0.12	(0.06)	0.15	(0.09)	0.14	(0.08)	0.15	(0.07)	0.56	(0.07)
Indoors, health care facility	1.32	(0.61)	1.08	(0.62)	0.98	(0.52)	1.38	(0.67)	4.76	(0.61)
Indoors, public building	0.47	(0.22)	0.70	(0.40)	0.98	(0.52)	0.52	(0.25)	2.68	(0.34)
Indoors, other location	5.30	(2.46)	4.02	(2.31)	4.43	(2.36)	4.88	(2.36)	18.62	(2.38)
Indoors, not specified	0.16	(0.07)	0.09	(0.05)	0.16	(0.09)	0.12	(0.06)	0.54	(0.07)
Outdoors, construction	0.92	(0.43)	1.01	(0.58)	1.08	(0.57)	1.10	(0.53)	4.11	(0.53)
Outdoors, residential grounds	1.56	(0.73)	4.07	(2.34)	6.40	(3.42)	2.10	(1.01)	14.13	(1.80)
Outdoors, school grounds	1.29	(0.60)	1.11	(0.64)	1.14	(0.61)	1.36	(0.66)	4.90	(0.63)
Outdoors, sports arena	0.00	(0.00)	0.17	(0.10)	0.34	(0.18)	0.01	(0.01)	0.52	(0.07)
Outdoors, park/golf course	0.18	(0.08)	0.58	(0.34)	0.94	(0.50)	0.24	(0.12)	1.94	(0.25)
Outdoors, other location	0.81	(0.38)	1.61	(0.93)	2.94	(1.57)	0.86	(0.41)	6.22	(0.79)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.07	(0.04)	0.15	(0.08)	0.00	(0.00)	0.22	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	26.14	(12.02)	21.50	(12.20)	23.82	(12.53)	26.02	(12.41)	97.48	(12.29)
In transit, bus	2.81	(1.29)	2.23	(1.27)	1.49	(0.78)	3.19	(1.52)	9.72	(1.23)
In transit, truck	0.22	(0.10)	0.77	(0.44)	1.13	(0.60)	0.37	(0.18)	2.49	(0.31)
In transit, van	0.00	(0.00)	0.23	(0.13)	0.45	(0.24)	0.01	(0.00)	0.70	(0.09)
Indoors, public garage	0.06	(0.03)	0.04	(0.02)	0.04	(0.02)	0.06	(0.03)	0.20	(0.03)
Outdoors, in a parking lot	1.48	(0.68)	1.24	(0.70)	1.35	(0.71)	1.49	(0.71)	5.56	(0.70)
Outdoors, along a roadway	10.64	(4.89)	10.70	(6.07)	14.42	(7.58)	10.68	(5.09)	46.43	(5.85)
In transit, motorcycle	0.48	(0.22)	0.08	(0.05)	0.00	(0.00)	0.37	(0.18)	0.93	(0.12)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.05	(0.03)	0.00	(0.00)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.11	(0.06)	0.19	(0.10)	0.03	(0.01)	0.34	(0.04)
Indoors, in a repair shop	0.01	(0.00)	0.03	(0.02)	0.02	(0.01)	0.03	(0.01)	0.09	(0.01)
Indoors, home	124.45	(57.23)	95.63	(54.26)	98.24	(51.68)	115.80	(55.26)	434.12	(54.72)
Indoors, office	12.30	(5.66)	8.44	(4.79)	8.94	(4.70)	11.55	(5.51)	41.22	(5.20)
Indoors, store	5.18	(2.38)	3.76	(2.13)	4.35	(2.29)	5.01	(2.39)	18.30	(2.31)
Indoors, restaurant	4.16	(1.91)	4.09	(2.32)	4.89	(2.57)	4.40	(2.10)	17.53	(2.21)
Indoors, mfg. facility	3.70	(1.70)	2.51	(1.43)	2.52	(1.33)	3.47	(1.66)	12.21	(1.54)
Indoors, school	12.86	(5.91)	8.26	(4.69)	4.86	(2.56)	13.47	(6.43)	39.45	(4.97)
Indoors, church	0.45	(0.21)	0.56	(0.32)	0.70	(0.37)	0.50	(0.24)	2.20	(0.28)
Indoors, shopping mall	1.04	(0.48)	2.04	(1.16)	2.72	(1.43)	1.44	(0.68)	7.23	(0.91)
Indoors, auditorium	0.09	(0.04)	0.19	(0.11)	0.33	(0.17)	0.10	(0.05)	0.72	(0.09)
Indoors, health care facility	1.44	(0.66)	1.10	(0.62)	1.13	(0.59)	1.45	(0.69)	5.12	(0.65)
Indoors, public building	0.32	(0.15)	0.43	(0.24)	0.51	(0.27)	0.38	(0.18)	1.65	(0.21)
Indoors, other location	5.40	(2.48)	3.62	(2.05)	3.39	(1.78)	5.09	(2.43)	17.50	(2.21)
Indoors, not specified	0.10	(0.05)	0.06	(0.04)	0.06	(0.03)	0.10	(0.05)	0.32	(0.04)
Outdoors, construction	0.00	(0.00)	0.10	(0.06)	0.21	(0.11)	0.00	(0.00)	0.31	(0.04)
Outdoors, residential grounds	2.54	(1.17)	3.99	(2.26)	6.86	(3.61)	2.51	(1.20)	15.90	(2.00)
Outdoors, school grounds	1.27	(0.59)	1.12	(0.63)	0.86	(0.45)	1.54	(0.73)	4.79	(0.60)
Outdoors, sports arena	0.04	(0.02)	0.42	(0.24)	0.74	(0.39)	0.10	(0.05)	1.30	(0.16)
Outdoors, park/golf course	0.15	(0.07)	0.83	(0.47)	1.40	(0.74)	0.30	(0.14)	2.68	(0.34)
Outdoors, other location	0.10	(0.04)	2.13	(1.21)	4.40	(2.31)	0.13	(0.06)	6.76	(0.85)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.89	(5.84)	15.03	(8.57)	20.17	(10.63)	13.12	(6.28)	61.21	(7.70)
In transit, bus	2.04	(0.93)	0.30	(0.17)	0.21	(0.11)	1.22	(0.58)	3.77	(0.47)
In transit, truck	7.91	(3.59)	3.04	(1.74)	1.65	(0.87)	6.83	(3.27)	19.44	(2.45)
In transit, van	0.15	(0.07)	1.49	(0.85)	1.25	(0.66)	0.92	(0.44)	3.82	(0.48)
Indoors, public garage	0.00	(0.00)	0.05	(0.03)	0.11	(0.06)	0.00	(0.00)	0.16	(0.02)
Outdoors, in a parking lot	0.61	(0.28)	1.01	(0.58)	1.67	(0.88)	0.56	(0.27)	3.85	(0.48)
Outdoors, along a roadway	12.53	(5.68)	10.47	(5.97)	13.26	(6.99)	11.56	(5.54)	47.81	(6.02)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	4.22	(1.91)	0.64	(0.36)	0.00	(0.00)	2.99	(1.43)	7.85	(0.99)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	128.70	(58.33)	100.53	(57.35)	102.77	(54.17)	121.61	(58.23)	453.61	(57.09)
Indoors, office	8.09	(3.67)	6.99	(3.99)	9.57	(5.04)	7.19	(3.44)	31.84	(4.01)
Indoors, store	0.05	(0.02)	1.13	(0.64)	2.23	(1.18)	0.11	(0.06)	3.52	(0.44)
Indoors, restaurant	6.89	(3.12)	6.14	(3.50)	8.28	(4.37)	6.37	(3.05)	27.67	(3.48)
Indoors, mfg. facility	0.00	(0.00)	0.12	(0.07)	0.26	(0.14)	0.00	(0.00)	0.38	(0.05)
Indoors, school	26.68	(12.09)	10.82	(6.17)	7.11	(3.75)	22.96	(10.99)	67.58	(8.51)
Indoors, church	0.65	(0.29)	0.44	(0.25)	0.56	(0.29)	0.52	(0.25)	2.16	(0.27)
Indoors, shopping mall	0.08	(0.04)	0.29	(0.17)	0.19	(0.10)	0.23	(0.11)	0.79	(0.10)
Indoors, auditorium	0.10	(0.05)	0.46	(0.26)	0.41	(0.21)	0.30	(0.14)	1.26	(0.16)
Indoors, health care facility	1.25	(0.57)	0.86	(0.49)	0.57	(0.30)	1.35	(0.64)	4.02	(0.51)
Indoors, public building	0.00	(0.00)	0.23	(0.13)	0.56	(0.29)	0.00	(0.00)	0.79	(0.10)
Indoors, other location	0.00	(0.00)	3.85	(2.19)	4.64	(2.45)	1.12	(0.54)	9.61	(1.21)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.41	(0.24)	0.90	(0.47)	0.00	(0.00)	1.31	(0.17)
Outdoors, residential grounds	6.86	(3.11)	6.42	(3.66)	6.55	(3.45)	7.96	(3.81)	27.80	(3.50)
Outdoors, school grounds	0.44	(0.20)	1.63	(0.93)	1.38	(0.73)	1.23	(0.59)	4.68	(0.59)
Outdoors, sports arena	0.00	(0.00)	0.06	(0.03)	0.13	(0.07)	0.00	(0.00)	0.19	(0.02)
Outdoors, park/golf course	0.50	(0.23)	1.92	(1.10)	3.12	(1.65)	0.70	(0.33)	6.24	(0.79)
Outdoors, other location	0.00	(0.00)	1.00	(0.57)	2.16	(1.14)	0.00	(0.00)	3.15	(0.40)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.72	(6.54)	11.82	(6.94)	14.16	(7.67)	13.66	(6.73)	53.36	(6.95)
In transit, bus	4.98	(2.37)	3.14	(1.85)	2.14	(1.16)	4.93	(2.43)	15.19	(1.98)
In transit, truck	0.64	(0.30)	0.31	(0.18)	0.42	(0.23)	0.51	(0.25)	1.88	(0.25)
In transit, van	0.81	(0.39)	1.03	(0.60)	0.95	(0.51)	1.01	(0.50)	3.80	(0.50)
Indoors, public garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, in a parking lot	0.93	(0.45)	0.80	(0.47)	1.03	(0.56)	0.91	(0.45)	3.67	(0.48)
Outdoors, along a roadway	14.28	(6.81)	15.91	(9.35)	22.40	(12.13)	14.45	(7.12)	67.04	(8.73)
In transit, motorcycle	0.31	(0.15)	0.09	(0.05)	0.06	(0.03)	0.26	(0.13)	0.71	(0.09)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.05	(0.02)	0.16	(0.10)	0.16	(0.08)	0.12	(0.06)	0.49	(0.06)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	128.33	(61.20)	100.93	(59.29)	104.73	(56.71)	121.45	(59.84)	455.43	(59.33)
Indoors, office	0.15	(0.07)	0.34	(0.20)	0.62	(0.33)	0.15	(0.07)	1.26	(0.16)
Indoors, store	2.46	(1.17)	1.92	(1.13)	2.22	(1.20)	2.44	(1.20)	9.04	(1.18)
Indoors, restaurant	1.76	(0.84)	2.07	(1.22)	2.87	(1.55)	1.86	(0.91)	8.56	(1.11)
Indoors, mfg. facility	0.01	(0.00)	0.02	(0.01)	0.02	(0.01)	0.02	(0.01)	0.07	(0.01)
Indoors, school	29.44	(14.04)	16.63	(9.77)	11.51	(6.24)	28.49	(14.04)	86.07	(11.21)
Indoors, church	0.86	(0.41)	0.59	(0.35)	0.57	(0.31)	0.87	(0.43)	2.90	(0.38)
Indoors, shopping mall	1.28	(0.61)	1.12	(0.66)	1.15	(0.62)	1.42	(0.70)	4.97	(0.65)
Indoors, auditorium	0.08	(0.04)	0.15	(0.09)	0.15	(0.08)	0.12	(0.06)	0.51	(0.07)
Indoors, health care facility	0.88	(0.42)	0.68	(0.40)	0.58	(0.32)	0.97	(0.48)	3.11	(0.41)
Indoors, public building	0.17	(0.08)	0.24	(0.14)	0.34	(0.19)	0.20	(0.10)	0.95	(0.12)
Indoors, other location	1.08	(0.52)	1.06	(0.62)	1.27	(0.69)	1.09	(0.54)	4.50	(0.59)
Indoors, not specified	0.00	(0.00)	0.05	(0.03)	0.10	(0.05)	0.00	(0.00)	0.14	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	3.76	(1.79)	5.46	(3.21)	8.42	(4.56)	4.03	(1.99)	21.68	(2.82)
Outdoors, school grounds	3.35	(1.60)	2.81	(1.65)	2.90	(1.57)	3.52	(1.73)	12.57	(1.64)
Outdoors, sports arena	0.18	(0.08)	0.36	(0.21)	0.54	(0.29)	0.23	(0.11)	1.30	(0.17)
Outdoors, park/golf course	0.15	(0.07)	0.99	(0.58)	1.94	(1.05)	0.20	(0.10)	3.29	(0.43)
Outdoors, other location	0.01	(0.00)	1.51	(0.89)	3.36	(1.82)	0.02	(0.01)	4.89	(0.64)
Outdoors, not specified	0.01	(0.01)	0.04	(0.02)	0.03	(0.02)	0.03	(0.01)	0.11	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	39.61	(17.75)	21.87	(12.44)	22.18	(11.95)	35.39	(16.45)	119.05	(14.89)
In transit, bus	1.44	(0.64)	0.25	(0.14)	0.01	(0.00)	1.11	(0.52)	2.80	(0.35)
In transit, truck	1.52	(0.68)	3.78	(2.15)	6.24	(3.36)	2.22	(1.03)	13.76	(1.72)
In transit, van	0.00	(0.00)	0.37	(0.21)	0.68	(0.37)	0.00	(0.00)	1.05	(0.13)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.81	(0.36)	1.34	(0.76)	1.37	(0.74)	1.10	(0.51)	4.62	(0.58)
Outdoors, along a roadway	17.83	(7.99)	18.14	(10.32)	15.94	(8.59)	20.17	(9.38)	72.08	(9.01)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.04	(0.02)	0.05	(0.03)	0.01	(0.01)	0.11	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	123.75	(55.44)	94.20	(53.59)	93.75	(50.50)	117.27	(54.53)	428.96	(53.64)
Indoors, office	5.21	(2.33)	7.45	(4.23)	10.76	(5.79)	5.50	(2.56)	28.91	(3.61)
Indoors, store	0.76	(0.34)	0.94	(0.53)	1.10	(0.59)	0.87	(0.41)	3.67	(0.46)
Indoors, restaurant	4.10	(1.84)	2.26	(1.29)	2.27	(1.22)	3.59	(1.67)	12.22	(1.53)
Indoors, mfg. facility	0.00	(0.00)	2.38	(1.35)	5.87	(3.16)	0.00	(0.00)	8.25	(1.03)
Indoors, school	14.12	(6.33)	6.35	(3.61)	3.18	(1.71)	13.12	(6.10)	36.77	(4.60)
Indoors, church	0.04	(0.02)	0.47	(0.26)	0.78	(0.42)	0.12	(0.06)	1.41	(0.18)
Indoors, shopping mall	0.18	(0.08)	0.59	(0.34)	0.39	(0.21)	0.52	(0.24)	1.68	(0.21)
Indoors, auditorium	0.08	(0.04)	0.43	(0.24)	0.99	(0.53)	0.07	(0.03)	1.57	(0.20)
Indoors, health care facility	0.44	(0.20)	0.41	(0.23)	0.35	(0.19)	0.48	(0.22)	1.68	(0.21)
Indoors, public building	1.67	(0.75)	1.36	(0.77)	0.79	(0.42)	1.98	(0.92)	5.80	(0.72)
Indoors, other location	8.46	(3.79)	4.80	(2.73)	4.63	(2.50)	7.64	(3.55)	25.54	(3.19)
Indoors, not specified	0.01	(0.00)	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.05	(0.01)
Outdoors, construction	0.00	(0.00)	0.95	(0.54)	2.05	(1.11)	0.00	(0.00)	3.00	(0.37)
Outdoors, residential grounds	0.73	(0.33)	1.96	(1.12)	2.90	(1.56)	0.97	(0.45)	6.56	(0.82)
Outdoors, school grounds	0.54	(0.24)	1.48	(0.84)	0.99	(0.53)	1.40	(0.65)	4.41	(0.55)
Outdoors, sports arena	0.62	(0.28)	0.41	(0.23)	0.55	(0.30)	0.50	(0.23)	2.08	(0.26)
Outdoors, park/golf course	0.23	(0.10)	0.51	(0.29)	0.94	(0.51)	0.21	(0.10)	1.88	(0.24)
Outdoors, other location	0.37	(0.17)	2.95	(1.68)	6.87	(3.70)	0.28	(0.13)	10.48	(1.31)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.70	(0.31)	0.12	(0.07)	0.00	(0.00)	0.55	(0.26)	1.37	(0.17)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	31.92	(14.00)	24.46	(13.42)	25.23	(12.92)	31.58	(14.39)	113.18	(13.72)
In transit, bus	0.64	(0.28)	0.60	(0.33)	0.96	(0.49)	0.51	(0.23)	2.71	(0.33)
In transit, truck	5.92	(2.60)	4.41	(2.42)	5.48	(2.81)	5.29	(2.41)	21.11	(2.56)
In transit, van	1.38	(0.61)	1.25	(0.69)	1.24	(0.64)	1.40	(0.64)	5.27	(0.64)
Indoors, public garage	1.92	(0.84)	1.28	(0.70)	0.84	(0.43)	2.02	(0.92)	6.06	(0.73)
Outdoors, in a parking lot	1.70	(0.75)	1.70	(0.94)	2.06	(1.05)	1.79	(0.82)	7.25	(0.88)
Outdoors, along a roadway	8.43	(3.70)	10.77	(5.91)	13.07	(6.69)	9.74	(4.44)	42.01	(5.09)
In transit, motorcycle	0.00	(0.00)	0.15	(0.08)	0.32	(0.16)	0.00	(0.00)	0.47	(0.06)
Indoors, service station	3.34	(1.47)	1.56	(0.86)	1.00	(0.51)	3.05	(1.39)	8.96	(1.09)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.49	(0.22)	0.61	(0.34)	0.46	(0.23)	0.68	(0.31)	2.24	(0.27)
Indoors, in a repair shop	3.27	(1.43)	0.53	(0.29)	0.06	(0.03)	2.52	(1.15)	6.37	(0.77)
Indoors, home	111.11	(48.73)	88.35	(48.49)	90.57	(46.38)	104.88	(47.79)	394.91	(47.88)
Indoors, office	22.10	(9.69)	13.73	(7.53)	13.03	(6.67)	20.75	(9.46)	69.61	(8.44)
Indoors, store	4.49	(1.97)	3.59	(1.97)	4.93	(2.52)	4.09	(1.86)	17.09	(2.07)
Indoors, restaurant	7.00	(3.07)	4.32	(2.37)	4.60	(2.36)	6.44	(2.93)	22.36	(2.71)
Indoors, mfg. facility	3.71	(1.63)	4.36	(2.39)	5.65	(2.89)	3.86	(1.76)	17.58	(2.13)
Indoors, school	2.23	(0.98)	1.31	(0.72)	0.99	(0.51)	2.19	(1.00)	6.72	(0.82)
Indoors, church	0.54	(0.24)	0.57	(0.31)	0.52	(0.26)	0.64	(0.29)	2.26	(0.27)
Indoors, shopping mall	0.83	(0.36)	0.46	(0.25)	0.28	(0.15)	0.83	(0.38)	2.41	(0.29)
Indoors, auditorium	0.33	(0.15)	0.07	(0.04)	0.05	(0.03)	0.26	(0.12)	0.72	(0.09)
Indoors, health care facility	1.11	(0.49)	1.07	(0.59)	1.14	(0.59)	1.17	(0.54)	4.50	(0.55)
Indoors, public building	0.65	(0.29)	0.74	(0.41)	1.30	(0.67)	0.57	(0.26)	3.27	(0.40)
Indoors, other location	9.22	(4.04)	7.38	(4.05)	9.02	(4.62)	8.57	(3.90)	34.19	(4.14)
Indoors, not specified	1.22	(0.54)	0.34	(0.18)	0.12	(0.06)	1.00	(0.46)	2.68	(0.32)
Outdoors, construction	1.14	(0.50)	1.75	(0.96)	1.99	(1.02)	1.56	(0.71)	6.45	(0.78)
Outdoors, residential grounds	0.73	(0.32)	2.05	(1.12)	3.48	(1.78)	0.96	(0.44)	7.22	(0.88)
Outdoors, school grounds	0.12	(0.05)	0.16	(0.09)	0.15	(0.08)	0.16	(0.07)	0.58	(0.07)
Outdoors, sports arena	0.10	(0.04)	0.30	(0.16)	0.60	(0.31)	0.09	(0.04)	1.09	(0.13)
Outdoors, park/golf course	0.09	(0.04)	0.55	(0.30)	0.86	(0.44)	0.21	(0.09)	1.70	(0.21)
Outdoors, other location	1.77	(0.78)	3.45	(1.89)	4.80	(2.46)	2.24	(1.02)	12.26	(1.49)
Outdoors, not specified	0.01	(0.01)	0.10	(0.05)	0.15	(0.08)	0.03	(0.01)	0.29	(0.04)
In transit, train	0.47	(0.21)	0.23	(0.12)	0.31	(0.16)	0.34	(0.16)	1.36	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	23.27	(11.18)	18.12	(10.88)	19.09	(10.67)	23.46	(11.71)	83.95	(11.13)
In transit, bus	1.81	(0.87)	0.60	(0.36)	0.47	(0.26)	1.45	(0.72)	4.32	(0.57)
In transit, truck	3.10	(1.49)	0.48	(0.29)	0.05	(0.03)	2.45	(1.22)	6.08	(0.81)
In transit, van	0.00	(0.00)	0.09	(0.05)	0.10	(0.06)	0.02	(0.01)	0.21	(0.03)
Indoors, public garage	0.06	(0.03)	0.04	(0.03)	0.02	(0.01)	0.07	(0.03)	0.20	(0.03)
Outdoors, in a parking lot	0.66	(0.32)	0.96	(0.58)	1.38	(0.77)	0.75	(0.37)	3.75	(0.50)
Outdoors, along a roadway	6.61	(3.17)	8.36	(5.02)	11.35	(6.34)	7.26	(3.62)	33.58	(4.45)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.04	(0.02)	0.00	(0.00)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.27	(0.13)	0.05	(0.03)	0.01	(0.01)	0.22	(0.11)	0.55	(0.07)
Indoors, in a repair shop	0.02	(0.01)	0.05	(0.03)	0.04	(0.02)	0.05	(0.02)	0.15	(0.02)
Indoors, home	151.27	(72.65)	114.63	(68.81)	117.99	(65.92)	141.88	(70.81)	525.77	(69.73)
Indoors, office	1.32	(0.64)	0.56	(0.34)	0.66	(0.37)	1.03	(0.51)	3.57	(0.47)
Indoors, store	3.59	(1.72)	4.07	(2.44)	6.02	(3.36)	3.57	(1.78)	17.24	(2.29)
Indoors, restaurant	4.03	(1.93)	3.15	(1.89)	3.43	(1.92)	4.12	(2.06)	14.74	(1.95)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.93	(0.93)	3.23	(1.94)	2.60	(1.46)	3.08	(1.54)	10.85	(1.44)
Indoors, church	0.46	(0.22)	0.55	(0.33)	0.47	(0.26)	0.60	(0.30)	2.08	(0.28)
Indoors, shopping mall	2.34	(1.12)	1.09	(0.65)	1.56	(0.87)	1.88	(0.94)	6.87	(0.91)
Indoors, auditorium	0.30	(0.14)	0.27	(0.17)	0.27	(0.15)	0.34	(0.17)	1.19	(0.16)
Indoors, health care facility	0.37	(0.18)	0.52	(0.31)	0.59	(0.33)	0.47	(0.23)	1.96	(0.26)
Indoors, public building	0.66	(0.32)	0.28	(0.17)	0.19	(0.11)	0.59	(0.29)	1.72	(0.23)
Indoors, other location	4.87	(2.34)	4.59	(2.76)	4.83	(2.70)	5.04	(2.52)	19.33	(2.56)
Indoors, not specified	0.00	(0.00)	0.03	(0.02)	0.07	(0.04)	0.00	(0.00)	0.10	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.53	(0.25)	2.50	(1.50)	3.64	(2.03)	1.15	(0.57)	7.82	(1.04)
Outdoors, school grounds	0.10	(0.05)	0.45	(0.27)	0.53	(0.30)	0.27	(0.14)	1.36	(0.18)
Outdoors, sports arena	0.41	(0.20)	0.17	(0.10)	0.25	(0.14)	0.33	(0.17)	1.16	(0.15)
Outdoors, park/golf course	0.00	(0.00)	0.67	(0.40)	1.24	(0.69)	0.06	(0.03)	1.96	(0.26)
Outdoors, other location	0.12	(0.06)	1.01	(0.60)	2.04	(1.14)	0.15	(0.07)	3.32	(0.44)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.12	(0.06)	0.02	(0.01)	0.00	(0.00)	0.09	(0.05)	0.23	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	32.73	(14.88)	21.94	(12.67)	22.84	(12.26)	30.83	(14.69)	108.34	(13.72)
In transit, bus	2.03	(0.92)	1.36	(0.79)	1.23	(0.66)	1.99	(0.95)	6.62	(0.84)
In transit, truck	1.43	(0.65)	1.09	(0.63)	1.02	(0.55)	1.48	(0.70)	5.01	(0.63)
In transit, van	0.03	(0.01)	0.34	(0.20)	0.71	(0.38)	0.02	(0.01)	1.10	(0.14)
Indoors, public garage	0.58	(0.27)	0.22	(0.13)	0.16	(0.08)	0.49	(0.23)	1.45	(0.18)
Outdoors, in a parking lot	0.76	(0.35)	1.04	(0.60)	1.37	(0.74)	0.84	(0.40)	4.01	(0.51)
Outdoors, along a roadway	6.87	(3.12)	7.56	(4.36)	10.07	(5.41)	7.08	(3.37)	31.58	(4.00)
In transit, motorcycle	0.00	(0.00)	0.96	(0.55)	2.19	(1.17)	0.00	(0.00)	3.15	(0.40)
Indoors, service station	0.02	(0.01)	0.02	(0.01)	0.02	(0.01)	0.02	(0.01)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.01)	0.05	(0.01)
Indoors, in a repair shop	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.00)
Indoors, home	115.50	(52.51)	93.59	(54.02)	98.21	(52.72)	108.64	(51.77)	415.94	(52.69)
Indoors, office	22.99	(10.45)	16.72	(9.65)	17.07	(9.17)	22.40	(10.67)	79.19	(10.03)
Indoors, store	6.44	(2.93)	5.52	(3.19)	5.82	(3.13)	6.76	(3.22)	24.54	(3.11)
Indoors, restaurant	8.68	(3.95)	5.43	(3.14)	6.22	(3.34)	7.97	(3.80)	28.31	(3.59)
Indoors, mfg. facility	1.46	(0.66)	1.29	(0.74)	1.23	(0.66)	1.53	(0.73)	5.51	(0.70)
Indoors, school	5.60	(2.55)	3.30	(1.91)	2.22	(1.19)	5.55	(2.65)	16.68	(2.11)
Indoors, church	0.82	(0.37)	0.71	(0.41)	0.63	(0.34)	0.90	(0.43)	3.07	(0.39)
Indoors, shopping mall	2.05	(0.93)	1.11	(0.64)	0.72	(0.38)	2.06	(0.98)	5.93	(0.75)
Indoors, auditorium	0.13	(0.06)	0.13	(0.07)	0.15	(0.08)	0.15	(0.07)	0.55	(0.07)
Indoors, health care facility	2.59	(1.18)	1.74	(1.00)	1.59	(0.86)	2.47	(1.17)	8.39	(1.06)
Indoors, public building	0.52	(0.24)	0.42	(0.24)	0.50	(0.27)	0.52	(0.25)	1.96	(0.25)
Indoors, other location	8.02	(3.65)	5.34	(3.08)	6.15	(3.30)	7.17	(3.42)	26.68	(3.38)
Indoors, not specified	0.09	(0.04)	0.05	(0.03)	0.03	(0.02)	0.10	(0.05)	0.27	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.28	(0.13)	1.53	(0.88)	2.72	(1.46)	0.44	(0.21)	4.96	(0.63)
Outdoors, school grounds	0.08	(0.03)	0.32	(0.18)	0.49	(0.26)	0.14	(0.07)	1.02	(0.13)
Outdoors, sports arena	0.00	(0.00)	0.32	(0.18)	0.63	(0.34)	0.01	(0.01)	0.97	(0.12)
Outdoors, park/golf course	0.05	(0.02)	0.27	(0.16)	0.52	(0.28)	0.08	(0.04)	0.92	(0.12)
Outdoors, other location	0.12	(0.05)	0.79	(0.45)	1.69	(0.91)	0.11	(0.05)	2.71	(0.34)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
In transit, train	0.07	(0.03)	0.10	(0.06)	0.06	(0.03)	0.11	(0.05)	0.34	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.01	(10.31)	18.32	(10.70)	21.50	(11.23)	21.73	(11.04)	82.57	(10.82)
In transit, bus	1.77	(0.87)	4.54	(2.65)	9.08	(4.74)	1.23	(0.63)	16.62	(2.18)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.33	(0.20)	0.26	(0.14)	0.16	(0.08)	0.76	(0.10)
Indoors, public garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.00)
Outdoors, in a parking lot	1.17	(0.58)	3.97	(2.32)	7.01	(3.66)	1.37	(0.69)	13.52	(1.77)
Outdoors, along a roadway	4.79	(2.35)	7.05	(4.12)	8.88	(4.64)	5.86	(2.98)	26.58	(3.48)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.58	(0.29)	1.31	(0.77)	0.94	(0.49)	1.16	(0.59)	4.00	(0.52)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	154.82	(75.94)	109.81	(64.14)	105.79	(55.26)	144.45	(73.35)	514.86	(67.45)
Indoors, office	0.96	(0.47)	0.29	(0.17)	0.16	(0.08)	0.81	(0.41)	2.21	(0.29)
Indoors, store	2.75	(1.35)	2.77	(1.62)	3.65	(1.91)	2.85	(1.45)	12.01	(1.57)
Indoors, restaurant	2.88	(1.41)	0.73	(0.43)	0.39	(0.21)	2.19	(1.11)	6.19	(0.81)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.47	(0.23)	2.06	(1.21)	1.50	(0.78)	1.62	(0.82)	5.65	(0.74)
Indoors, church	0.45	(0.22)	0.55	(0.32)	0.37	(0.19)	0.63	(0.32)	2.00	(0.26)
Indoors, shopping mall	4.51	(2.21)	0.73	(0.42)	0.13	(0.07)	3.76	(1.91)	9.13	(1.20)
Indoors, auditorium	0.17	(0.08)	0.17	(0.10)	0.29	(0.15)	0.13	(0.07)	0.77	(0.10)
Indoors, health care facility	1.61	(0.79)	1.95	(1.14)	1.17	(0.61)	2.33	(1.18)	7.07	(0.93)
Indoors, public building	0.18	(0.09)	0.17	(0.10)	0.40	(0.21)	0.14	(0.07)	0.88	(0.12)
Indoors, other location	4.03	(1.98)	7.36	(4.30)	11.55	(6.03)	4.49	(2.28)	27.42	(3.59)
Indoors, not specified	0.60	(0.29)	0.08	(0.05)	0.00	(0.00)	0.44	(0.22)	1.12	(0.15)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.66	(0.32)	5.84	(3.41)	11.61	(6.07)	1.21	(0.61)	19.32	(2.53)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.38	(0.22)	0.83	(0.44)	0.00	(0.00)	1.22	(0.16)
Outdoors, park/golf course	0.46	(0.22)	0.31	(0.18)	0.69	(0.36)	0.37	(0.19)	1.84	(0.24)
Outdoors, other location	0.00	(0.00)	2.44	(1.43)	5.20	(2.72)	0.00	(0.00)	7.64	(1.00)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	35.83	(15.55)	26.77	(14.73)	27.98	(14.46)	35.01	(15.82)	125.60	(15.19)
In transit, bus	5.43	(2.36)	1.81	(1.00)	1.11	(0.57)	4.39	(1.98)	12.73	(1.54)
In transit, truck	5.20	(2.26)	4.89	(2.69)	4.11	(2.13)	6.16	(2.78)	20.37	(2.46)
In transit, van	0.50	(0.22)	1.76	(0.97)	2.93	(1.52)	0.66	(0.30)	5.86	(0.71)
Indoors, public garage	0.31	(0.13)	0.43	(0.24)	0.29	(0.15)	0.48	(0.22)	1.51	(0.18)
Outdoors, in a parking lot	1.32	(0.57)	1.12	(0.62)	1.18	(0.61)	1.38	(0.62)	5.01	(0.61)
Outdoors, along a roadway	8.90	(3.86)	9.31	(5.12)	12.34	(6.38)	9.01	(4.07)	39.56	(4.78)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.56	(0.68)	0.47	(0.26)	0.23	(0.12)	1.25	(0.57)	3.52	(0.43)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.04	(0.02)	0.05	(0.03)	0.09	(0.05)	0.02	(0.01)	0.20	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	105.66	(45.84)	84.87	(46.70)	85.70	(44.30)	100.33	(45.35)	376.57	(45.53)
Indoors, office	28.42	(12.33)	17.91	(9.86)	19.94	(10.31)	25.76	(11.64)	92.03	(11.13)
Indoors, store	6.74	(2.93)	3.96	(2.18)	3.30	(1.70)	6.41	(2.90)	20.41	(2.47)
Indoors, restaurant	5.72	(2.48)	4.60	(2.53)	5.09	(2.63)	5.80	(2.62)	21.20	(2.56)
Indoors, mfg. facility	1.83	(0.79)	5.48	(3.01)	7.82	(4.04)	2.92	(1.32)	18.05	(2.18)
Indoors, school	0.61	(0.26)	2.21	(1.22)	2.87	(1.49)	1.20	(0.54)	6.90	(0.83)
Indoors, church	0.96	(0.42)	0.87	(0.48)	0.98	(0.51)	0.99	(0.45)	3.81	(0.46)
Indoors, shopping mall	2.31	(1.00)	0.62	(0.34)	0.59	(0.30)	1.88	(0.85)	5.40	(0.65)
Indoors, auditorium	0.17	(0.07)	0.06	(0.03)	0.08	(0.04)	0.13	(0.06)	0.44	(0.05)
Indoors, health care facility	1.68	(0.73)	0.37	(0.20)	0.15	(0.08)	1.28	(0.58)	3.48	(0.42)
Indoors, public building	0.26	(0.11)	1.24	(0.68)	2.09	(1.08)	0.39	(0.18)	3.98	(0.48)
Indoors, other location	12.64	(5.49)	7.22	(3.97)	5.55	(2.87)	11.79	(5.33)	37.20	(4.50)
Indoors, not specified	1.61	(0.70)	0.34	(0.19)	0.12	(0.06)	1.24	(0.56)	3.31	(0.40)
Outdoors, construction	0.00	(0.00)	0.38	(0.21)	0.72	(0.37)	0.00	(0.00)	1.09	(0.13)
Outdoors, residential grounds	0.27	(0.12)	2.95	(1.62)	5.57	(2.88)	0.36	(0.16)	9.15	(1.11)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.23	(0.10)	0.72	(0.40)	1.05	(0.54)	0.35	(0.16)	2.35	(0.28)
Outdoors, other location	2.05	(0.89)	1.30	(0.72)	1.56	(0.81)	1.93	(0.87)	6.84	(0.83)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.20	(0.09)	0.03	(0.02)	0.00	(0.00)	0.14	(0.07)	0.37	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.01	(10.18)	14.70	(9.03)	17.21	(9.78)	19.40	(9.88)	72.32	(9.75)
In transit, bus	0.81	(0.39)	0.46	(0.28)	0.45	(0.26)	0.72	(0.37)	2.44	(0.33)
In transit, truck	2.09	(1.01)	0.31	(0.19)	0.04	(0.02)	1.65	(0.84)	4.08	(0.55)
In transit, van	0.06	(0.03)	0.53	(0.33)	0.42	(0.24)	0.34	(0.17)	1.35	(0.18)
Indoors, public garage	0.12	(0.06)	0.03	(0.02)	0.01	(0.00)	0.10	(0.05)	0.25	(0.03)
Outdoors, in a parking lot	0.47	(0.23)	0.88	(0.54)	1.35	(0.77)	0.52	(0.27)	3.23	(0.44)
Outdoors, along a roadway	8.30	(4.02)	6.10	(3.75)	7.89	(4.48)	7.44	(3.79)	29.73	(4.01)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.03	(0.02)	0.02	(0.01)	0.03	(0.02)	0.03	(0.01)	0.11	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	156.68	(75.90)	121.23	(74.51)	123.45	(70.16)	148.88	(75.85)	550.24	(74.22)
Indoors, office	0.72	(0.35)	0.52	(0.32)	0.47	(0.26)	0.75	(0.38)	2.45	(0.33)
Indoors, store	3.33	(1.61)	2.73	(1.68)	3.22	(1.83)	3.31	(1.69)	12.58	(1.70)
Indoors, restaurant	2.70	(1.31)	2.79	(1.72)	3.47	(1.97)	2.90	(1.48)	11.86	(1.60)
Indoors, mfg. facility	0.00	(0.00)	0.03	(0.02)	0.07	(0.04)	0.00	(0.00)	0.10	(0.01)
Indoors, school	0.42	(0.20)	0.45	(0.28)	0.49	(0.28)	0.47	(0.24)	1.84	(0.25)
Indoors, church	0.79	(0.38)	1.00	(0.61)	0.93	(0.53)	1.02	(0.52)	3.74	(0.50)
Indoors, shopping mall	2.22	(1.08)	1.29	(0.79)	1.28	(0.73)	1.99	(1.01)	6.78	(0.91)
Indoors, auditorium	0.09	(0.04)	0.03	(0.02)	0.03	(0.02)	0.07	(0.03)	0.21	(0.03)
Indoors, health care facility	0.75	(0.36)	1.01	(0.62)	1.66	(0.94)	0.69	(0.35)	4.11	(0.55)
Indoors, public building	0.10	(0.05)	0.34	(0.21)	0.34	(0.19)	0.24	(0.12)	1.01	(0.14)
Indoors, other location	3.65	(1.77)	3.90	(2.40)	5.50	(3.12)	3.60	(1.84)	16.65	(2.25)
Indoors, not specified	0.62	(0.30)	0.09	(0.06)	0.00	(0.00)	0.46	(0.24)	1.17	(0.16)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.12	(0.54)	3.03	(1.86)	5.01	(2.85)	1.43	(0.73)	10.59	(1.43)
Outdoors, school grounds	0.09	(0.05)	0.01	(0.01)	0.00	(0.00)	0.07	(0.03)	0.18	(0.02)
Outdoors, sports arena	0.00	(0.00)	0.24	(0.14)	0.50	(0.29)	0.00	(0.00)	0.74	(0.10)
Outdoors, park/golf course	0.00	(0.00)	0.64	(0.39)	1.40	(0.80)	0.00	(0.00)	2.04	(0.28)
Outdoors, other location	0.02	(0.01)	0.33	(0.20)	0.72	(0.41)	0.05	(0.02)	1.12	(0.15)
Outdoors, not specified	0.23	(0.11)	0.03	(0.02)	0.00	(0.00)	0.16	(0.08)	0.42	(0.06)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	28.73	(13.29)	20.21	(11.75)	22.91	(12.35)	26.68	(12.93)	98.53	(12.63)
In transit, bus	2.99	(1.38)	1.32	(0.76)	1.14	(0.62)	2.55	(1.24)	8.00	(1.03)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.77	(0.36)	0.26	(0.15)	0.09	(0.05)	0.64	(0.31)	1.76	(0.23)
Indoors, public garage	0.10	(0.04)	0.04	(0.03)	0.02	(0.01)	0.09	(0.04)	0.25	(0.03)
Outdoors, in a parking lot	1.23	(0.57)	1.20	(0.70)	1.80	(0.97)	1.20	(0.58)	5.42	(0.70)
Outdoors, along a roadway	7.76	(3.59)	6.22	(3.61)	7.41	(3.99)	7.35	(3.56)	28.73	(3.68)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	122.65	(56.76)	95.99	(55.81)	99.30	(53.53)	115.12	(55.79)	433.06	(55.53)
Indoors, office	21.97	(10.17)	14.37	(8.35)	12.60	(6.79)	21.19	(10.27)	70.13	(8.99)
Indoors, store	4.29	(1.99)	4.78	(2.78)	6.02	(3.24)	4.72	(2.29)	19.81	(2.54)
Indoors, restaurant	5.74	(2.66)	6.11	(3.55)	6.22	(3.35)	6.56	(3.18)	24.63	(3.16)
Indoors, mfg. facility	0.00	(0.00)	3.81	(2.21)	8.22	(4.43)	0.00	(0.00)	12.02	(1.54)
Indoors, school	4.86	(2.25)	2.50	(1.45)	1.64	(0.88)	4.66	(2.26)	13.67	(1.75)
Indoors, church	1.25	(0.58)	0.87	(0.51)	0.99	(0.53)	1.20	(0.58)	4.30	(0.55)
Indoors, shopping mall	1.11	(0.51)	1.98	(1.15)	1.73	(0.93)	1.82	(0.88)	6.65	(0.85)
Indoors, auditorium	0.00	(0.00)	0.05	(0.03)	0.04	(0.02)	0.04	(0.02)	0.14	(0.02)
Indoors, health care facility	2.45	(1.14)	2.61	(1.52)	2.54	(1.37)	2.73	(1.32)	10.34	(1.33)
Indoors, public building	0.32	(0.15)	0.13	(0.08)	0.13	(0.07)	0.24	(0.12)	0.82	(0.11)
Indoors, other location	9.43	(4.36)	7.38	(4.29)	9.01	(4.86)	8.73	(4.23)	34.55	(4.43)
Indoors, not specified	0.00	(0.00)	0.11	(0.06)	0.28	(0.15)	0.01	(0.00)	0.40	(0.05)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.23	(0.11)	1.58	(0.92)	2.72	(1.47)	0.44	(0.21)	4.97	(0.64)
Outdoors, school grounds	0.05	(0.02)	0.19	(0.11)	0.21	(0.11)	0.12	(0.06)	0.57	(0.07)
Outdoors, sports arena	0.12	(0.06)	0.09	(0.05)	0.16	(0.09)	0.10	(0.05)	0.47	(0.06)
Outdoors, park/golf course	0.06	(0.03)	0.01	(0.01)	0.00	(0.00)	0.04	(0.02)	0.11	(0.01)
Outdoors, other location	0.01	(0.00)	0.18	(0.11)	0.30	(0.16)	0.05	(0.02)	0.54	(0.07)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	31.07	(14.45)	26.29	(14.87)	26.43	(13.74)	32.45	(15.70)	116.24	(14.70)
In transit, bus	0.50	(0.23)	1.37	(0.78)	0.90	(0.47)	1.30	(0.63)	4.07	(0.51)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)	0.00	(0.00)	0.03	(0.00)
Indoors, public garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.04	(0.00)
Outdoors, in a parking lot	0.71	(0.33)	2.13	(1.21)	3.58	(1.86)	0.94	(0.45)	7.36	(0.93)
Outdoors, along a roadway	5.09	(2.37)	10.14	(5.73)	15.33	(7.97)	6.10	(2.95)	36.65	(4.63)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.09	(0.05)	0.17	(0.09)	0.00	(0.00)	0.26	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.02	(0.01)	0.02	(0.01)	0.02	(0.01)	0.08	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, home	149.56	(69.56)	110.99	(62.79)	116.04	(60.33)	137.50	(66.53)	514.09	(65.00)
Indoors, office	6.42	(2.99)	4.16	(2.35)	2.94	(1.53)	6.26	(3.03)	19.78	(2.50)
Indoors, store	1.92	(0.89)	1.54	(0.87)	2.19	(1.14)	1.69	(0.82)	7.34	(0.93)
Indoors, restaurant	3.77	(1.75)	3.77	(2.13)	4.15	(2.16)	4.10	(1.99)	15.79	(2.00)
Indoors, mfg. facility	1.84	(0.85)	1.09	(0.61)	0.56	(0.29)	1.87	(0.90)	5.35	(0.68)
Indoors, school	1.34	(0.62)	0.48	(0.27)	0.57	(0.30)	1.02	(0.49)	3.41	(0.43)
Indoors, church	0.86	(0.40)	0.94	(0.53)	0.72	(0.37)	1.13	(0.55)	3.65	(0.46)
Indoors, shopping mall	3.63	(1.69)	1.94	(1.10)	3.26	(1.69)	2.79	(1.35)	11.62	(1.47)
Indoors, auditorium	0.33	(0.16)	0.57	(0.32)	0.42	(0.22)	0.56	(0.27)	1.89	(0.24)
Indoors, health care facility	0.24	(0.11)	0.65	(0.37)	1.07	(0.55)	0.34	(0.16)	2.29	(0.29)
Indoors, public building	0.21	(0.10)	0.46	(0.26)	0.88	(0.46)	0.19	(0.09)	1.74	(0.22)
Indoors, other location	1.91	(0.89)	2.41	(1.37)	1.56	(0.81)	2.69	(1.30)	8.58	(1.08)
Indoors, not specified	0.00	(0.00)	0.37	(0.21)	0.81	(0.42)	0.00	(0.00)	1.18	(0.15)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	3.43	(1.60)	5.68	(3.22)	9.41	(4.89)	3.37	(1.63)	21.90	(2.77)
Outdoors, school grounds	0.15	(0.07)	0.47	(0.27)	0.32	(0.16)	0.42	(0.20)	1.35	(0.17)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	1.20	(0.56)	0.77	(0.43)	0.42	(0.22)	1.29	(0.62)	3.67	(0.46)
Outdoors, other location	0.00	(0.00)	0.21	(0.12)	0.45	(0.23)	0.00	(0.00)	0.66	(0.08)
Outdoors, not specified	0.04	(0.02)	0.12	(0.07)	0.08	(0.04)	0.12	(0.06)	0.37	(0.05)
In transit, train	0.76	(0.35)	0.10	(0.06)	0.00	(0.00)	0.51	(0.25)	1.37	(0.17)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.66	(9.35)	15.21	(9.12)	18.63	(10.34)	18.72	(9.39)	72.23	(9.55)
In transit, bus	0.13	(0.06)	0.50	(0.30)	0.58	(0.32)	0.35	(0.18)	1.56	(0.21)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.36	(0.17)	0.05	(0.03)	0.00	(0.00)	0.25	(0.13)	0.66	(0.09)
Indoors, public garage	0.08	(0.04)	0.06	(0.03)	0.10	(0.06)	0.07	(0.04)	0.31	(0.04)
Outdoors, in a parking lot	0.28	(0.13)	0.57	(0.34)	0.99	(0.55)	0.30	(0.15)	2.13	(0.28)
Outdoors, along a roadway	7.70	(3.66)	5.98	(3.58)	8.09	(4.49)	6.86	(3.44)	28.62	(3.78)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.03	(0.02)	0.07	(0.04)	0.00	(0.00)	0.10	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	159.40	(75.82)	127.97	(76.70)	133.12	(73.84)	151.08	(75.78)	571.57	(75.53)
Indoors, office	2.15	(1.02)	0.52	(0.31)	0.36	(0.20)	1.59	(0.80)	4.61	(0.61)
Indoors, store	1.93	(0.92)	2.68	(1.61)	5.09	(2.83)	1.73	(0.87)	11.44	(1.51)
Indoors, restaurant	3.08	(1.47)	2.86	(1.71)	3.20	(1.77)	3.43	(1.72)	12.56	(1.66)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.06	(0.04)	0.14	(0.08)	0.00	(0.00)	0.20	(0.03)
Indoors, church	2.23	(1.06)	1.46	(0.87)	1.11	(0.61)	2.37	(1.19)	7.16	(0.95)
Indoors, shopping mall	0.78	(0.37)	2.61	(1.57)	1.82	(1.01)	2.27	(1.14)	7.49	(0.99)
Indoors, auditorium	0.03	(0.01)	0.08	(0.05)	0.06	(0.03)	0.07	(0.04)	0.24	(0.03)
Indoors, health care facility	1.95	(0.93)	0.65	(0.39)	0.41	(0.23)	1.64	(0.82)	4.65	(0.61)
Indoors, public building	0.27	(0.13)	0.44	(0.26)	0.53	(0.30)	0.36	(0.18)	1.61	(0.21)
Indoors, other location	9.83	(4.67)	2.88	(1.73)	1.45	(0.80)	7.91	(3.97)	22.07	(2.92)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.38	(0.18)	1.57	(0.94)	3.29	(1.82)	0.29	(0.15)	5.52	(0.73)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.23	(0.14)	0.29	(0.16)	0.09	(0.05)	0.62	(0.08)
Outdoors, park/golf course	0.00	(0.00)	0.17	(0.10)	0.36	(0.20)	0.00	(0.00)	0.53	(0.07)
Outdoors, other location	0.00	(0.00)	0.27	(0.16)	0.58	(0.32)	0.00	(0.00)	0.85	(0.11)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.46	(7.81)	11.48	(5.56)	10.97	(4.88)	18.91	(7.52)	61.82	(6.55)
In transit, bus	0.00	(0.00)	0.37	(0.18)	0.70	(0.31)	0.00	(0.00)	1.07	(0.11)
In transit, truck	21.43	(8.19)	18.68	(9.05)	25.93	(11.54)	18.64	(7.42)	84.68	(8.97)
In transit, van	2.07	(0.79)	0.36	(0.18)	0.00	(0.00)	1.58	(0.63)	4.01	(0.42)
Indoors, public garage	5.07	(1.94)	2.95	(1.43)	1.50	(0.67)	5.33	(2.12)	14.84	(1.57)
Outdoors, in a parking lot	1.39	(0.53)	2.48	(1.20)	2.46	(1.10)	2.22	(0.88)	8.55	(0.91)
Outdoors, along a roadway	28.91	(11.04)	31.09	(15.06)	38.44	(17.10)	31.02	(12.35)	129.45	(13.71)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	12.73	(4.86)	2.38	(1.15)	0.82	(0.37)	9.25	(3.68)	25.18	(2.67)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	2.48	(0.95)	0.43	(0.21)	0.12	(0.05)	2.09	(0.83)	5.13	(0.54)
Indoors, in a repair shop	0.00	(0.00)	0.21	(0.10)	0.43	(0.19)	0.00	(0.00)	0.64	(0.07)
Indoors, home	95.12	(36.34)	76.85	(37.24)	75.27	(33.49)	90.72	(36.11)	337.96	(35.80)
Indoors, office	6.38	(2.44)	4.76	(2.31)	7.54	(3.35)	4.92	(1.96)	23.61	(2.50)
Indoors, store	2.03	(0.78)	0.68	(0.33)	0.46	(0.21)	1.80	(0.72)	4.97	(0.53)
Indoors, restaurant	7.44	(2.84)	2.75	(1.33)	1.66	(0.74)	6.40	(2.55)	18.24	(1.93)
Indoors, mfg. facility	0.83	(0.32)	4.21	(2.04)	6.36	(2.83)	2.16	(0.86)	13.56	(1.44)
Indoors, school	0.32	(0.12)	0.98	(0.47)	0.65	(0.29)	0.86	(0.34)	2.81	(0.30)
Indoors, church	2.44	(0.93)	0.79	(0.38)	0.39	(0.17)	2.15	(0.86)	5.77	(0.61)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.30	(0.11)	0.62	(0.30)	1.32	(0.59)	0.25	(0.10)	2.48	(0.26)
Indoors, health care facility	0.00	(0.00)	0.22	(0.11)	0.39	(0.17)	0.00	(0.00)	0.61	(0.06)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	10.18	(3.89)	2.61	(1.27)	1.28	(0.57)	8.10	(3.22)	22.17	(2.35)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	14.23	(5.44)	19.37	(9.39)	26.95	(11.99)	15.77	(6.28)	76.33	(8.08)
Outdoors, residential grounds	1.19	(0.46)	2.37	(1.15)	2.39	(1.06)	2.05	(0.82)	8.00	(0.85)
Outdoors, school grounds	0.05	(0.02)	0.13	(0.06)	0.09	(0.04)	0.12	(0.05)	0.37	(0.04)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.13	(0.05)	0.62	(0.30)	0.53	(0.23)	0.45	(0.18)	1.73	(0.18)
Outdoors, other location	26.57	(10.15)	18.97	(9.19)	18.10	(8.05)	26.48	(10.54)	90.12	(9.55)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.64	(4.78)	11.74	(6.60)	14.29	(7.49)	11.63	(5.39)	48.30	(5.98)
In transit, bus	8.03	(3.61)	4.32	(2.43)	2.62	(1.37)	7.65	(3.55)	22.61	(2.80)
In transit, truck	0.00	(0.00)	0.25	(0.14)	0.41	(0.22)	0.06	(0.03)	0.73	(0.09)
In transit, van	0.85	(0.38)	0.42	(0.23)	0.46	(0.24)	0.71	(0.33)	2.43	(0.30)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	1.51	(0.68)	0.97	(0.54)	1.08	(0.56)	1.45	(0.67)	5.00	(0.62)
Outdoors, along a roadway	28.18	(12.65)	23.33	(13.12)	29.95	(15.69)	26.65	(12.36)	108.11	(13.39)
In transit, motorcycle	0.94	(0.42)	0.23	(0.13)	0.07	(0.04)	0.78	(0.36)	2.01	(0.25)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.09	(0.05)	0.12	(0.06)	0.05	(0.02)	0.28	(0.04)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	109.77	(49.27)	90.44	(50.86)	96.28	(50.45)	103.80	(48.13)	400.29	(49.59)
Indoors, office	0.43	(0.19)	0.27	(0.15)	0.46	(0.24)	0.33	(0.15)	1.49	(0.18)
Indoors, store	3.06	(1.37)	1.91	(1.07)	2.25	(1.18)	2.84	(1.32)	10.06	(1.25)
Indoors, restaurant	0.77	(0.35)	1.74	(0.98)	2.10	(1.10)	1.24	(0.57)	5.84	(0.72)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	39.52	(17.74)	20.94	(11.78)	12.72	(6.66)	38.09	(17.66)	111.27	(13.79)
Indoors, church	1.12	(0.50)	0.70	(0.39)	0.66	(0.34)	1.11	(0.51)	3.58	(0.44)
Indoors, shopping mall	2.23	(1.00)	1.35	(0.76)	1.25	(0.66)	2.29	(1.06)	7.12	(0.88)
Indoors, auditorium	0.02	(0.01)	0.14	(0.08)	0.14	(0.07)	0.09	(0.04)	0.38	(0.05)
Indoors, health care facility	0.49	(0.22)	0.64	(0.36)	0.46	(0.24)	0.72	(0.33)	2.31	(0.29)
Indoors, public building	0.62	(0.28)	0.49	(0.27)	0.48	(0.25)	0.69	(0.32)	2.28	(0.28)
Indoors, other location	1.64	(0.73)	1.30	(0.73)	1.28	(0.67)	1.73	(0.80)	5.94	(0.74)
Indoors, not specified	0.00	(0.00)	0.05	(0.03)	0.11	(0.06)	0.00	(0.00)	0.16	(0.02)
Outdoors, construction	0.00	(0.00)	0.17	(0.10)	0.37	(0.19)	0.00	(0.00)	0.54	(0.07)
Outdoors, residential grounds	5.30	(2.38)	6.66	(3.74)	10.22	(5.35)	5.37	(2.49)	27.54	(3.41)
Outdoors, school grounds	6.77	(3.04)	5.20	(2.92)	4.31	(2.26)	7.40	(3.43)	23.68	(2.93)
Outdoors, sports arena	0.65	(0.29)	0.79	(0.45)	0.98	(0.51)	0.76	(0.35)	3.19	(0.40)
Outdoors, park/golf course	0.16	(0.07)	1.20	(0.67)	2.39	(1.25)	0.21	(0.10)	3.95	(0.49)
Outdoors, other location	0.01	(0.00)	2.48	(1.40)	5.40	(2.83)	0.05	(0.02)	7.95	(0.98)
Outdoors, not specified	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.06	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.95	(6.46)	12.81	(7.77)	17.21	(9.57)	12.83	(6.64)	55.79	(7.56)
In transit, bus	2.20	(1.10)	2.12	(1.29)	1.37	(0.76)	2.86	(1.48)	8.56	(1.16)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.05	(0.02)	0.75	(0.46)	0.63	(0.35)	0.44	(0.23)	1.86	(0.25)
Indoors, public garage	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)	0.00	(0.00)	0.04	(0.00)
Outdoors, in a parking lot	0.68	(0.34)	0.72	(0.44)	1.02	(0.57)	0.67	(0.35)	3.09	(0.42)
Outdoors, along a roadway	7.21	(3.60)	7.38	(4.48)	11.16	(6.21)	6.72	(3.48)	32.48	(4.40)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.06	(0.03)	0.11	(0.06)	0.00	(0.00)	0.17	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.28	(0.14)	0.16	(0.09)	0.12	(0.07)	0.27	(0.14)	0.83	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	149.05	(74.36)	113.60	(68.96)	117.49	(65.36)	139.37	(72.16)	519.50	(70.39)
Indoors, office	7.08	(3.53)	5.14	(3.12)	4.81	(2.67)	7.07	(3.66)	24.10	(3.27)
Indoors, store	2.54	(1.27)	2.28	(1.38)	3.18	(1.77)	2.43	(1.26)	10.44	(1.41)
Indoors, restaurant	5.41	(2.70)	3.25	(1.97)	3.40	(1.89)	5.21	(2.70)	17.27	(2.34)
Indoors, mfg. facility	1.75	(0.87)	2.33	(1.41)	2.73	(1.52)	2.09	(1.08)	8.89	(1.21)
Indoors, school	6.66	(3.32)	4.86	(2.95)	3.59	(1.99)	7.15	(3.70)	22.25	(3.01)
Indoors, church	1.04	(0.52)	1.29	(0.79)	1.11	(0.62)	1.37	(0.71)	4.81	(0.65)
Indoors, shopping mall	0.20	(0.10)	0.81	(0.49)	0.75	(0.42)	0.54	(0.28)	2.30	(0.31)
Indoors, auditorium	0.01	(0.01)	0.04	(0.02)	0.03	(0.01)	0.04	(0.02)	0.11	(0.02)
Indoors, health care facility	1.01	(0.51)	0.63	(0.38)	0.69	(0.39)	0.93	(0.48)	3.27	(0.44)
Indoors, public building	0.07	(0.04)	0.15	(0.09)	0.30	(0.16)	0.07	(0.04)	0.59	(0.08)
Indoors, other location	0.13	(0.07)	1.03	(0.63)	1.84	(1.02)	0.23	(0.12)	3.23	(0.44)
Indoors, not specified	0.19	(0.09)	0.27	(0.16)	0.58	(0.32)	0.15	(0.08)	1.19	(0.16)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.80	(0.40)	3.17	(1.93)	5.25	(2.92)	1.22	(0.63)	10.43	(1.41)
Outdoors, school grounds	0.61	(0.30)	0.92	(0.56)	0.60	(0.33)	1.06	(0.55)	3.19	(0.43)
Outdoors, sports arena	0.00	(0.00)	0.15	(0.09)	0.30	(0.17)	0.01	(0.00)	0.46	(0.06)
Outdoors, park/golf course	0.50	(0.25)	0.13	(0.08)	0.12	(0.06)	0.38	(0.20)	1.13	(0.15)
Outdoors, other location	0.02	(0.01)	0.65	(0.40)	1.31	(0.73)	0.05	(0.02)	2.03	(0.27)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.03	(0.02)	0.00	(0.00)	0.04	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Minneapolis/St. Paul:: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	27.23	(12.52)	19.02	(10.97)	20.08	(10.77)	26.02	(12.46)	92.36	(11.75)
In transit, bus	2.30	(1.06)	1.53	(0.88)	1.32	(0.71)	2.24	(1.07)	7.38	(0.94)
In transit, truck	2.55	(1.17)	1.64	(0.95)	1.75	(0.94)	2.37	(1.14)	8.31	(1.06)
In transit, van	0.54	(0.25)	0.72	(0.41)	0.80	(0.43)	0.63	(0.30)	2.68	(0.34)
Indoors, public garage	0.59	(0.27)	0.32	(0.19)	0.20	(0.11)	0.58	(0.28)	1.69	(0.22)
Outdoors, in a parking lot	1.00	(0.46)	1.14	(0.66)	1.52	(0.82)	1.05	(0.50)	4.72	(0.60)
Outdoors, along a roadway	8.75	(4.02)	10.72	(6.19)	14.54	(7.80)	9.32	(4.46)	43.34	(5.51)
In transit, motorcycle	0.04	(0.02)	0.16	(0.09)	0.34	(0.18)	0.04	(0.02)	0.59	(0.08)
Indoors, service station	0.83	(0.38)	0.34	(0.20)	0.21	(0.11)	0.72	(0.35)	2.11	(0.27)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.16	(0.07)	0.17	(0.10)	0.14	(0.07)	0.19	(0.09)	0.66	(0.08)
Indoors, in a repair shop	0.71	(0.32)	0.12	(0.07)	0.01	(0.01)	0.54	(0.26)	1.38	(0.18)
Indoors, home	125.25	(57.58)	99.57	(57.45)	103.67	(55.60)	118.28	(56.64)	446.77	(56.84)
Indoors, office	14.34	(6.59)	8.10	(4.68)	7.11	(3.81)	13.20	(6.32)	42.75	(5.44)
Indoors, store	4.36	(2.00)	3.47	(2.00)	4.11	(2.20)	4.28	(2.05)	16.22	(2.06)
Indoors, restaurant	5.57	(2.56)	3.76	(2.17)	4.10	(2.20)	5.30	(2.54)	18.73	(2.38)
Indoors, mfg. facility	1.30	(0.60)	1.63	(0.94)	2.14	(1.15)	1.37	(0.66)	6.43	(0.82)
Indoors, school	7.27	(3.34)	5.74	(3.31)	4.62	(2.48)	7.83	(3.75)	25.45	(3.24)
Indoors, church	0.77	(0.35)	0.69	(0.40)	0.67	(0.36)	0.84	(0.40)	2.98	(0.38)
Indoors, shopping mall	1.65	(0.76)	1.09	(0.63)	1.00	(0.53)	1.67	(0.80)	5.41	(0.69)
Indoors, auditorium	0.17	(0.08)	0.15	(0.08)	0.16	(0.09)	0.18	(0.09)	0.66	(0.08)
Indoors, health care facility	1.49	(0.69)	1.06	(0.61)	0.99	(0.53)	1.47	(0.70)	5.01	(0.64)
Indoors, public building	0.44	(0.20)	0.45	(0.26)	0.60	(0.32)	0.44	(0.21)	1.94	(0.25)
Indoors, other location	6.93	(3.18)	4.59	(2.65)	4.89	(2.62)	6.36	(3.05)	22.77	(2.90)
Indoors, not specified	0.44	(0.20)	0.15	(0.08)	0.12	(0.07)	0.35	(0.17)	1.06	(0.13)
Outdoors, construction	0.22	(0.10)	0.37	(0.21)	0.47	(0.25)	0.28	(0.14)	1.34	(0.17)
Outdoors, residential grounds	1.06	(0.49)	3.17	(1.83)	5.35	(2.87)	1.39	(0.67)	10.97	(1.40)
Outdoors, school grounds	0.61	(0.28)	0.91	(0.52)	1.03	(0.55)	0.80	(0.38)	3.35	(0.43)
Outdoors, sports arena	0.12	(0.05)	0.26	(0.15)	0.47	(0.25)	0.12	(0.06)	0.97	(0.12)
Outdoors, park/golf course	0.11	(0.05)	0.63	(0.36)	1.15	(0.62)	0.17	(0.08)	2.06	(0.26)
Outdoors, other location	0.55	(0.25)	1.53	(0.88)	2.77	(1.49)	0.61	(0.29)	5.47	(0.70)
Outdoors, not specified	0.02	(0.01)	0.04	(0.02)	0.05	(0.02)	0.03	(0.01)	0.13	(0.02)
In transit, train	0.17	(0.08)	0.07	(0.04)	0.07	(0.04)	0.13	(0.06)	0.44	(0.06)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.33	(9.38)	20.69	(9.80)	22.78	(10.33)	21.65	(9.54)	87.45	(9.75)
In transit, bus	3.59	(1.51)	2.16	(1.02)	1.40	(0.63)	3.07	(1.35)	10.21	(1.14)
In transit, truck	1.06	(0.44)	1.88	(0.89)	1.91	(0.87)	1.46	(0.64)	6.30	(0.70)
In transit, van	1.06	(0.45)	1.04	(0.49)	1.05	(0.48)	1.17	(0.51)	4.32	(0.48)
Indoors, public garage	0.51	(0.21)	0.24	(0.12)	0.15	(0.07)	0.40	(0.18)	1.30	(0.14)
Outdoors, in a parking lot	1.94	(0.81)	1.70	(0.81)	1.83	(0.83)	1.72	(0.76)	7.19	(0.80)
Outdoors, along a roadway	11.49	(4.83)	13.42	(6.36)	17.23	(7.81)	11.84	(5.22)	53.99	(6.02)
In transit, motorcycle	0.13	(0.05)	0.18	(0.09)	0.43	(0.20)	0.07	(0.03)	0.81	(0.09)
Indoors, service station	0.58	(0.24)	0.34	(0.16)	0.22	(0.10)	0.50	(0.22)	1.64	(0.18)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.19	(0.08)	0.17	(0.08)	0.12	(0.06)	0.22	(0.10)	0.71	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.01	(0.00)	0.01	(0.00)	0.03	(0.00)
Indoors, home	141.36	(59.36)	120.49	(57.07)	123.97	(56.21)	134.17	(59.14)	519.99	(57.99)
Indoors, office	7.99	(3.35)	7.13	(3.38)	7.03	(3.19)	7.27	(3.21)	29.42	(3.28)
Indoors, store	5.67	(2.38)	4.49	(2.13)	4.73	(2.14)	4.95	(2.18)	19.83	(2.21)
Indoors, restaurant	6.00	(2.52)	4.76	(2.25)	4.94	(2.24)	5.30	(2.34)	21.00	(2.34)
Indoors, mfg. facility	3.05	(1.28)	2.71	(1.28)	2.58	(1.17)	2.75	(1.21)	11.10	(1.24)
Indoors, school	15.97	(6.71)	10.60	(5.02)	6.48	(2.94)	14.34	(6.32)	47.39	(5.29)
Indoors, church	1.11	(0.46)	0.91	(0.43)	0.80	(0.36)	1.10	(0.48)	3.92	(0.44)
Indoors, shopping mall	1.78	(0.75)	1.42	(0.67)	1.12	(0.51)	1.68	(0.74)	6.00	(0.67)
Indoors, auditorium	0.17	(0.07)	0.20	(0.09)	0.23	(0.11)	0.22	(0.10)	0.82	(0.09)
Indoors, health care facility	1.79	(0.75)	1.39	(0.66)	1.11	(0.50)	1.77	(0.78)	6.07	(0.68)
Indoors, public building	0.57	(0.24)	0.67	(0.32)	0.79	(0.36)	0.60	(0.26)	2.63	(0.29)
Indoors, other location	4.33	(1.82)	4.88	(2.31)	5.02	(2.28)	4.59	(2.02)	18.81	(2.10)
Indoors, not specified	0.09	(0.04)	0.07	(0.04)	0.12	(0.06)	0.05	(0.02)	0.34	(0.04)
Outdoors, construction	0.46	(0.19)	0.64	(0.30)	0.52	(0.24)	0.54	(0.24)	2.15	(0.24)
Outdoors, residential grounds	2.39	(1.01)	4.40	(2.08)	7.16	(3.25)	2.71	(1.20)	16.67	(1.86)
Outdoors, school grounds	1.63	(0.68)	1.54	(0.73)	1.18	(0.54)	1.73	(0.76)	6.08	(0.68)
Outdoors, sports arena	0.07	(0.03)	0.31	(0.15)	0.54	(0.25)	0.08	(0.03)	0.99	(0.11)
Outdoors, park/golf course	0.28	(0.12)	0.85	(0.40)	1.52	(0.69)	0.39	(0.17)	3.04	(0.34)
Outdoors, other location	0.48	(0.20)	1.73	(0.82)	3.48	(1.58)	0.47	(0.21)	6.16	(0.69)
Outdoors, not specified	0.06	(0.03)	0.06	(0.03)	0.06	(0.03)	0.06	(0.03)	0.23	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.44	(9.42)	14.06	(7.35)	14.55	(7.36)	15.73	(7.81)	64.79	(8.02)
In transit, bus	4.04	(1.86)	5.90	(3.09)	4.85	(2.45)	5.67	(2.82)	20.46	(2.53)
In transit, truck	0.00	(0.00)	0.72	(0.38)	0.93	(0.47)	0.00	(0.00)	1.66	(0.21)
In transit, van	0.00	(0.00)	0.04	(0.02)	0.07	(0.04)	0.00	(0.00)	0.12	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.59	(0.73)	1.18	(0.62)	1.79	(0.91)	1.04	(0.52)	5.59	(0.69)
Outdoors, along a roadway	5.86	(2.70)	11.02	(5.76)	16.61	(8.40)	6.29	(3.12)	39.78	(4.93)
In transit, motorcycle	0.10	(0.05)	0.21	(0.11)	0.14	(0.07)	0.24	(0.12)	0.69	(0.09)
Indoors, service station	0.00	(0.00)	0.09	(0.05)	0.11	(0.06)	0.00	(0.00)	0.20	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.05	(0.03)	0.07	(0.03)	0.00	(0.00)	0.12	(0.02)
Indoors, home	148.54	(68.43)	124.58	(65.16)	126.06	(63.72)	138.08	(68.58)	537.26	(66.53)
Indoors, office	0.26	(0.12)	2.51	(1.31)	3.47	(1.75)	0.57	(0.29)	6.81	(0.84)
Indoors, store	1.41	(0.65)	1.68	(0.88)	2.43	(1.23)	1.41	(0.70)	6.93	(0.86)
Indoors, restaurant	3.09	(1.42)	0.86	(0.45)	0.39	(0.20)	1.90	(0.94)	6.25	(0.77)
Indoors, mfg. facility	5.17	(2.38)	1.65	(0.86)	1.35	(0.68)	2.65	(1.31)	10.82	(1.34)
Indoors, school	8.34	(3.84)	10.95	(5.73)	6.64	(3.35)	11.84	(5.88)	37.76	(4.68)
Indoors, church	3.68	(1.69)	2.17	(1.13)	1.71	(0.87)	3.04	(1.51)	10.60	(1.31)
Indoors, shopping mall	0.41	(0.19)	0.82	(0.43)	0.67	(0.34)	0.97	(0.48)	2.87	(0.36)
Indoors, auditorium	0.05	(0.02)	0.08	(0.04)	0.06	(0.03)	0.12	(0.06)	0.32	(0.04)
Indoors, health care facility	1.38	(0.64)	2.43	(1.27)	3.68	(1.86)	1.85	(0.92)	9.34	(1.16)
Indoors, public building	0.05	(0.02)	0.24	(0.13)	0.57	(0.29)	0.11	(0.05)	0.97	(0.12)
Indoors, other location	11.08	(5.10)	3.47	(1.82)	3.52	(1.78)	6.33	(3.15)	24.41	(3.02)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.57	(0.26)	3.30	(1.73)	4.55	(2.30)	1.29	(0.64)	9.71	(1.20)
Outdoors, school grounds	0.69	(0.32)	1.47	(0.77)	0.88	(0.45)	1.52	(0.76)	4.57	(0.57)
Outdoors, sports arena	0.28	(0.13)	0.47	(0.25)	0.37	(0.19)	0.68	(0.34)	1.80	(0.22)
Outdoors, park/golf course	0.00	(0.00)	0.19	(0.10)	0.31	(0.16)	0.00	(0.00)	0.50	(0.06)
Outdoors, other location	0.02	(0.01)	0.59	(0.31)	1.42	(0.72)	0.01	(0.00)	2.03	(0.25)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.01	(0.01)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.44	(0.23)	0.61	(0.31)	0.00	(0.00)	1.06	(0.13)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.23	(8.31)	16.77	(7.38)	17.26	(7.38)	16.82	(7.40)	71.09	(7.63)
In transit, bus	3.56	(1.46)	5.31	(2.34)	4.69	(2.00)	4.67	(2.06)	18.24	(1.96)
In transit, truck	0.00	(0.00)	0.79	(0.35)	1.02	(0.44)	0.00	(0.00)	1.81	(0.19)
In transit, van	0.64	(0.26)	1.12	(0.49)	0.85	(0.36)	1.28	(0.57)	3.90	(0.42)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.62	(0.67)	1.54	(0.68)	2.09	(0.89)	1.28	(0.56)	6.53	(0.70)
Outdoors, along a roadway	9.34	(3.84)	20.67	(9.10)	24.33	(10.39)	14.64	(6.44)	68.98	(7.40)
In transit, motorcycle	0.09	(0.03)	0.19	(0.08)	0.13	(0.06)	0.19	(0.08)	0.59	(0.06)
Indoors, service station	0.00	(0.00)	0.09	(0.04)	0.12	(0.05)	0.00	(0.00)	0.22	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.06	(0.03)	0.07	(0.03)	0.00	(0.00)	0.13	(0.01)
Indoors, home	171.25	(70.37)	144.88	(63.81)	145.68	(62.23)	154.42	(67.96)	616.23	(66.14)
Indoors, office	0.38	(0.16)	3.20	(1.41)	4.18	(1.78)	0.84	(0.37)	8.60	(0.92)
Indoors, store	1.41	(0.58)	2.16	(0.95)	3.12	(1.33)	1.51	(0.66)	8.20	(0.88)
Indoors, restaurant	3.25	(1.34)	1.13	(0.50)	0.56	(0.24)	2.16	(0.95)	7.11	(0.76)
Indoors, mfg. facility	5.16	(2.12)	1.73	(0.76)	1.45	(0.62)	2.63	(1.16)	10.96	(1.18)
Indoors, school	8.37	(3.44)	9.48	(4.17)	5.83	(2.49)	10.26	(4.51)	33.94	(3.64)
Indoors, church	3.44	(1.42)	2.52	(1.11)	2.13	(0.91)	3.25	(1.43)	11.34	(1.22)
Indoors, shopping mall	0.43	(0.17)	0.89	(0.39)	0.72	(0.31)	1.02	(0.45)	3.05	(0.33)
Indoors, auditorium	0.05	(0.02)	0.09	(0.04)	0.07	(0.03)	0.13	(0.06)	0.34	(0.04)
Indoors, health care facility	1.35	(0.56)	2.53	(1.11)	3.80	(1.62)	1.82	(0.80)	9.50	(1.02)
Indoors, public building	0.05	(0.02)	0.26	(0.11)	0.61	(0.26)	0.11	(0.05)	1.03	(0.11)
Indoors, other location	11.01	(4.52)	4.13	(1.82)	4.07	(1.74)	6.61	(2.91)	25.83	(2.77)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.77	(0.31)	4.13	(1.82)	6.92	(2.96)	1.47	(0.65)	13.29	(1.43)
Outdoors, school grounds	0.57	(0.23)	1.26	(0.56)	0.77	(0.33)	1.24	(0.55)	3.84	(0.41)
Outdoors, sports arena	0.30	(0.12)	0.55	(0.24)	0.45	(0.19)	0.71	(0.31)	2.00	(0.22)
Outdoors, park/golf course	0.00	(0.00)	0.20	(0.09)	0.33	(0.14)	0.00	(0.00)	0.53	(0.06)
Outdoors, other location	0.08	(0.03)	0.88	(0.39)	2.14	(0.91)	0.14	(0.06)	3.24	(0.35)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.01	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.48	(0.21)	0.66	(0.28)	0.00	(0.00)	1.15	(0.12)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.15	(4.94)	11.89	(5.84)	15.52	(7.38)	10.47	(4.99)	49.02	(5.77)
In transit, bus	3.68	(1.63)	2.19	(1.08)	1.20	(0.57)	3.11	(1.48)	10.18	(1.20)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.30	(0.15)	1.02	(0.49)	0.00	(0.00)	1.32	(0.16)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.18	(0.52)	2.20	(1.08)	2.74	(1.30)	1.66	(0.79)	7.78	(0.92)
Outdoors, along a roadway	10.34	(4.58)	12.35	(6.06)	12.57	(5.98)	11.80	(5.62)	47.05	(5.54)
In transit, motorcycle	0.00	(0.00)	0.12	(0.06)	0.32	(0.15)	0.00	(0.00)	0.44	(0.05)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.04	(0.02)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	169.90	(75.27)	149.21	(73.30)	151.78	(72.24)	157.17	(74.86)	628.06	(73.94)
Indoors, office	0.64	(0.29)	0.19	(0.09)	0.16	(0.08)	0.35	(0.17)	1.35	(0.16)
Indoors, store	4.62	(2.05)	4.17	(2.05)	6.28	(2.99)	3.32	(1.58)	18.38	(2.16)
Indoors, restaurant	5.82	(2.58)	1.76	(0.86)	1.07	(0.51)	3.61	(1.72)	12.25	(1.44)
Indoors, mfg. facility	2.86	(1.27)	2.37	(1.16)	2.94	(1.40)	1.41	(0.67)	9.58	(1.13)
Indoors, school	9.51	(4.21)	7.88	(3.87)	3.79	(1.80)	10.14	(4.83)	31.32	(3.69)
Indoors, church	0.47	(0.21)	0.48	(0.24)	0.28	(0.14)	0.68	(0.32)	1.91	(0.22)
Indoors, shopping mall	0.70	(0.31)	1.34	(0.66)	0.75	(0.36)	1.53	(0.73)	4.32	(0.51)
Indoors, auditorium	0.11	(0.05)	0.23	(0.11)	0.31	(0.15)	0.25	(0.12)	0.90	(0.11)
Indoors, health care facility	0.25	(0.11)	0.60	(0.29)	0.55	(0.26)	0.55	(0.26)	1.95	(0.23)
Indoors, public building	0.85	(0.37)	0.34	(0.17)	0.13	(0.06)	0.54	(0.26)	1.85	(0.22)
Indoors, other location	1.81	(0.80)	2.16	(1.06)	2.43	(1.16)	1.50	(0.71)	7.89	(0.93)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.41	(0.62)	2.18	(1.07)	2.71	(1.29)	1.39	(0.66)	7.68	(0.90)
Outdoors, school grounds	0.16	(0.07)	0.34	(0.17)	0.19	(0.09)	0.36	(0.17)	1.05	(0.12)
Outdoors, sports arena	0.00	(0.00)	0.30	(0.14)	0.47	(0.23)	0.00	(0.00)	0.77	(0.09)
Outdoors, park/golf course	0.23	(0.10)	0.16	(0.08)	0.24	(0.12)	0.11	(0.05)	0.74	(0.09)
Outdoors, other location	0.01	(0.00)	0.84	(0.41)	2.63	(1.25)	0.02	(0.01)	3.49	(0.41)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	18.57	(8.00)	17.71	(8.50)	18.68	(8.65)	18.48	(8.47)	73.45	(8.40)
In transit, bus	1.27	(0.55)	1.64	(0.79)	1.24	(0.58)	1.57	(0.72)	5.72	(0.65)
In transit, truck	0.82	(0.35)	2.72	(1.31)	3.16	(1.46)	1.08	(0.50)	7.78	(0.89)
In transit, van	0.13	(0.06)	0.27	(0.13)	0.28	(0.13)	0.26	(0.12)	0.94	(0.11)
Indoors, public garage	0.00	(0.00)	0.05	(0.02)	0.12	(0.06)	0.00	(0.00)	0.17	(0.02)
Outdoors, in a parking lot	3.41	(1.47)	2.07	(0.99)	2.42	(1.12)	2.44	(1.12)	10.34	(1.18)
Outdoors, along a roadway	12.34	(5.32)	14.90	(7.15)	20.16	(9.34)	11.91	(5.46)	59.31	(6.78)
In transit, motorcycle	0.00	(0.00)	1.05	(0.50)	2.92	(1.35)	0.00	(0.00)	3.97	(0.45)
Indoors, service station	0.00	(0.00)	0.08	(0.04)	0.20	(0.09)	0.01	(0.00)	0.29	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.23	(0.10)	0.22	(0.10)	0.14	(0.07)	0.32	(0.15)	0.92	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.02	(0.01)	0.03	(0.01)	0.00	(0.00)	0.05	(0.01)
Indoors, home	143.71	(61.94)	123.80	(59.40)	127.25	(58.94)	134.46	(61.60)	529.22	(60.50)
Indoors, office	5.14	(2.22)	4.69	(2.25)	4.18	(1.94)	4.97	(2.28)	18.98	(2.17)
Indoors, store	3.68	(1.58)	4.17	(2.00)	5.02	(2.33)	3.76	(1.72)	16.63	(1.90)
Indoors, restaurant	10.00	(4.31)	6.22	(2.99)	4.28	(1.98)	8.74	(4.00)	29.25	(3.34)
Indoors, mfg. facility	4.65	(2.00)	3.26	(1.56)	2.19	(1.01)	3.90	(1.79)	13.99	(1.60)
Indoors, school	13.45	(5.80)	8.47	(4.07)	4.76	(2.20)	11.21	(5.13)	37.89	(4.33)
Indoors, church	0.93	(0.40)	0.97	(0.46)	0.85	(0.39)	1.07	(0.49)	3.81	(0.44)
Indoors, shopping mall	2.74	(1.18)	1.47	(0.71)	0.72	(0.33)	2.00	(0.92)	6.93	(0.79)
Indoors, auditorium	0.04	(0.02)	0.09	(0.04)	0.10	(0.05)	0.10	(0.04)	0.33	(0.04)
Indoors, health care facility	3.01	(1.30)	1.86	(0.89)	1.98	(0.92)	2.61	(1.20)	9.46	(1.08)
Indoors, public building	0.55	(0.24)	0.23	(0.11)	0.17	(0.08)	0.35	(0.16)	1.31	(0.15)
Indoors, other location	3.53	(1.52)	5.61	(2.69)	5.24	(2.43)	4.92	(2.25)	19.30	(2.21)
Indoors, not specified	0.04	(0.02)	0.08	(0.04)	0.09	(0.04)	0.02	(0.01)	0.23	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.03	(0.88)	3.42	(1.64)	5.18	(2.40)	2.17	(0.99)	12.80	(1.46)
Outdoors, school grounds	1.47	(0.63)	1.71	(0.82)	1.26	(0.58)	1.64	(0.75)	6.08	(0.69)
Outdoors, sports arena	0.00	(0.00)	0.30	(0.14)	0.46	(0.21)	0.00	(0.00)	0.76	(0.09)
Outdoors, park/golf course	0.07	(0.03)	0.59	(0.28)	1.70	(0.79)	0.16	(0.07)	2.53	(0.29)
Outdoors, other location	0.00	(0.00)	0.72	(0.35)	1.11	(0.52)	0.00	(0.00)	1.84	(0.21)
Outdoors, not specified	0.23	(0.10)	0.03	(0.02)	0.00	(0.00)	0.12	(0.06)	0.39	(0.04)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.64	(9.68)	20.11	(9.73)	21.98	(10.20)	21.48	(9.69)	86.21	(9.82)
In transit, bus	3.91	(1.67)	2.05	(0.99)	1.43	(0.66)	3.02	(1.36)	10.41	(1.19)
In transit, truck	0.68	(0.29)	1.37	(0.66)	1.30	(0.60)	1.01	(0.46)	4.35	(0.50)
In transit, van	2.23	(0.95)	1.91	(0.92)	1.77	(0.82)	2.24	(1.01)	8.14	(0.93)
Indoors, public garage	1.19	(0.51)	0.44	(0.21)	0.17	(0.08)	0.89	(0.40)	2.69	(0.31)
Outdoors, in a parking lot	1.64	(0.70)	1.52	(0.73)	1.68	(0.78)	1.50	(0.68)	6.34	(0.72)
Outdoors, along a roadway	10.65	(4.56)	14.77	(7.15)	18.25	(8.46)	12.58	(5.67)	56.25	(6.41)
In transit, motorcycle	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.00	(0.00)	0.02	(0.00)
Indoors, service station	0.11	(0.05)	0.08	(0.04)	0.06	(0.03)	0.10	(0.04)	0.35	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.28	(0.12)	0.20	(0.10)	0.12	(0.06)	0.28	(0.12)	0.88	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	140.92	(60.26)	118.37	(57.29)	120.83	(56.04)	132.07	(59.58)	512.19	(58.36)
Indoors, office	7.35	(3.14)	7.15	(3.46)	7.14	(3.31)	7.23	(3.26)	28.87	(3.29)
Indoors, store	4.93	(2.11)	4.00	(1.94)	4.66	(2.16)	4.06	(1.83)	17.65	(2.01)
Indoors, restaurant	3.99	(1.71)	3.38	(1.64)	3.66	(1.70)	3.74	(1.69)	14.77	(1.68)
Indoors, mfg. facility	3.29	(1.41)	3.01	(1.46)	3.00	(1.39)	3.01	(1.36)	12.30	(1.40)
Indoors, school	13.02	(5.57)	8.50	(4.12)	5.39	(2.50)	11.12	(5.02)	38.03	(4.33)
Indoors, church	1.89	(0.81)	1.23	(0.59)	0.95	(0.44)	1.74	(0.78)	5.81	(0.66)
Indoors, shopping mall	1.77	(0.76)	1.07	(0.52)	0.77	(0.36)	1.50	(0.68)	5.12	(0.58)
Indoors, auditorium	0.17	(0.07)	0.18	(0.09)	0.17	(0.08)	0.23	(0.10)	0.76	(0.09)
Indoors, health care facility	1.49	(0.64)	1.32	(0.64)	1.03	(0.48)	1.55	(0.70)	5.39	(0.61)
Indoors, public building	0.57	(0.24)	0.85	(0.41)	1.14	(0.53)	0.64	(0.29)	3.21	(0.37)
Indoors, other location	5.50	(2.35)	4.69	(2.27)	4.66	(2.16)	5.08	(2.29)	19.93	(2.27)
Indoors, not specified	0.13	(0.06)	0.10	(0.05)	0.18	(0.08)	0.07	(0.03)	0.48	(0.05)
Outdoors, construction	0.99	(0.42)	1.28	(0.62)	1.00	(0.46)	1.15	(0.52)	4.41	(0.50)
Outdoors, residential grounds	1.99	(0.85)	4.85	(2.35)	7.60	(3.53)	2.77	(1.25)	17.21	(1.96)
Outdoors, school grounds	1.43	(0.61)	1.31	(0.64)	1.06	(0.49)	1.45	(0.66)	5.27	(0.60)
Outdoors, sports arena	0.01	(0.00)	0.19	(0.09)	0.42	(0.20)	0.02	(0.01)	0.65	(0.07)
Outdoors, park/golf course	0.25	(0.11)	0.69	(0.34)	0.97	(0.45)	0.35	(0.16)	2.26	(0.26)
Outdoors, other location	0.80	(0.34)	1.89	(0.92)	4.08	(1.89)	0.80	(0.36)	7.57	(0.86)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.08	(0.04)	0.11	(0.05)	0.00	(0.00)	0.19	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	27.79	(11.87)	24.97	(12.09)	26.23	(12.14)	27.31	(12.17)	106.30	(12.06)
In transit, bus	3.24	(1.38)	2.72	(1.32)	1.58	(0.73)	3.61	(1.61)	11.16	(1.27)
In transit, truck	0.32	(0.14)	1.04	(0.50)	1.78	(0.82)	0.53	(0.24)	3.67	(0.42)
In transit, van	0.01	(0.00)	0.27	(0.13)	0.54	(0.25)	0.01	(0.01)	0.83	(0.09)
Indoors, public garage	0.06	(0.03)	0.05	(0.02)	0.06	(0.03)	0.06	(0.03)	0.22	(0.03)
Outdoors, in a parking lot	1.55	(0.66)	1.47	(0.71)	1.40	(0.65)	1.55	(0.69)	5.97	(0.68)
Outdoors, along a roadway	11.33	(4.84)	12.41	(6.01)	17.02	(7.88)	11.12	(4.96)	51.89	(5.89)
In transit, motorcycle	0.46	(0.20)	0.06	(0.03)	0.00	(0.00)	0.25	(0.11)	0.77	(0.09)
Indoors, service station	0.00	(0.00)	0.03	(0.02)	0.04	(0.02)	0.00	(0.00)	0.07	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.01)	0.13	(0.06)	0.16	(0.07)	0.04	(0.02)	0.36	(0.04)
Indoors, in a repair shop	0.02	(0.01)	0.05	(0.02)	0.03	(0.01)	0.05	(0.02)	0.14	(0.02)
Indoors, home	133.71	(57.09)	110.96	(53.72)	113.14	(52.37)	126.47	(56.35)	484.28	(54.97)
Indoors, office	13.05	(5.57)	10.22	(4.95)	10.03	(4.64)	11.16	(4.97)	44.47	(5.05)
Indoors, store	5.28	(2.25)	4.31	(2.08)	4.46	(2.06)	4.62	(2.06)	18.67	(2.12)
Indoors, restaurant	4.58	(1.96)	4.81	(2.33)	5.40	(2.50)	4.77	(2.13)	19.57	(2.22)
Indoors, mfg. facility	3.89	(1.66)	2.97	(1.44)	2.49	(1.15)	3.41	(1.52)	12.76	(1.45)
Indoors, school	14.88	(6.35)	10.72	(5.19)	5.48	(2.54)	14.76	(6.58)	45.84	(5.20)
Indoors, church	0.58	(0.25)	0.71	(0.34)	0.77	(0.36)	0.64	(0.29)	2.70	(0.31)
Indoors, shopping mall	1.26	(0.54)	2.31	(1.12)	2.52	(1.16)	1.80	(0.80)	7.88	(0.89)
Indoors, auditorium	0.12	(0.05)	0.21	(0.10)	0.39	(0.18)	0.14	(0.06)	0.85	(0.10)
Indoors, health care facility	1.59	(0.68)	1.34	(0.65)	1.44	(0.67)	1.53	(0.68)	5.90	(0.67)
Indoors, public building	0.37	(0.16)	0.52	(0.25)	0.48	(0.22)	0.48	(0.21)	1.86	(0.21)
Indoors, other location	5.51	(2.35)	4.28	(2.07)	3.46	(1.60)	4.95	(2.20)	18.19	(2.06)
Indoors, not specified	0.09	(0.04)	0.08	(0.04)	0.05	(0.02)	0.09	(0.04)	0.30	(0.03)
Outdoors, construction	0.00	(0.00)	0.11	(0.05)	0.15	(0.07)	0.00	(0.00)	0.26	(0.03)
Outdoors, residential grounds	2.60	(1.11)	4.65	(2.25)	9.24	(4.28)	2.50	(1.12)	18.99	(2.16)
Outdoors, school grounds	1.38	(0.59)	1.35	(0.65)	0.85	(0.39)	1.66	(0.74)	5.24	(0.59)
Outdoors, sports arena	0.07	(0.03)	0.47	(0.23)	0.69	(0.32)	0.16	(0.07)	1.39	(0.16)
Outdoors, park/golf course	0.31	(0.13)	0.96	(0.47)	1.96	(0.91)	0.57	(0.25)	3.81	(0.43)
Outdoors, other location	0.11	(0.05)	2.36	(1.14)	4.16	(1.93)	0.16	(0.07)	6.79	(0.77)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.62	(5.99)	18.31	(8.50)	22.61	(9.99)	15.49	(6.63)	71.03	(7.73)
In transit, bus	1.99	(0.82)	0.32	(0.15)	0.36	(0.16)	0.92	(0.39)	3.59	(0.39)
In transit, truck	7.78	(3.19)	3.52	(1.63)	1.86	(0.82)	6.23	(2.67)	19.38	(2.11)
In transit, van	0.96	(0.39)	1.93	(0.90)	1.42	(0.63)	2.33	(1.00)	6.63	(0.72)
Indoors, public garage	0.00	(0.00)	0.07	(0.03)	0.09	(0.04)	0.00	(0.00)	0.17	(0.02)
Outdoors, in a parking lot	0.63	(0.26)	1.28	(0.59)	1.98	(0.87)	0.58	(0.25)	4.46	(0.49)
Outdoors, along a roadway	13.73	(5.63)	12.52	(5.81)	15.75	(6.96)	12.92	(5.53)	54.92	(5.97)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	4.45	(1.82)	0.60	(0.28)	0.00	(0.00)	2.20	(0.94)	7.25	(0.79)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	141.07	(57.84)	123.79	(57.44)	124.11	(54.85)	137.62	(58.95)	526.60	(57.29)
Indoors, office	8.61	(3.53)	8.64	(4.01)	9.69	(4.28)	6.92	(2.96)	33.87	(3.68)
Indoors, store	0.10	(0.04)	1.39	(0.65)	2.15	(0.95)	0.22	(0.09)	3.86	(0.42)
Indoors, restaurant	7.42	(3.04)	7.31	(3.39)	8.74	(3.86)	6.53	(2.80)	30.00	(3.26)
Indoors, mfg. facility	0.00	(0.00)	0.16	(0.08)	0.21	(0.09)	0.00	(0.00)	0.37	(0.04)
Indoors, school	28.58	(11.72)	13.51	(6.27)	11.06	(4.89)	21.46	(9.19)	74.61	(8.12)
Indoors, church	0.70	(0.29)	0.60	(0.28)	0.61	(0.27)	0.55	(0.24)	2.46	(0.27)
Indoors, shopping mall	0.16	(0.06)	0.33	(0.16)	0.19	(0.08)	0.35	(0.15)	1.03	(0.11)
Indoors, auditorium	0.38	(0.16)	0.60	(0.28)	0.48	(0.21)	0.80	(0.34)	2.26	(0.25)
Indoors, health care facility	1.43	(0.59)	0.98	(0.45)	0.61	(0.27)	1.55	(0.66)	4.57	(0.50)
Indoors, public building	0.00	(0.00)	0.31	(0.14)	1.12	(0.49)	0.00	(0.00)	1.42	(0.15)
Indoors, other location	1.81	(0.74)	4.92	(2.28)	5.65	(2.49)	4.57	(1.96)	16.94	(1.84)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.54	(0.25)	0.70	(0.31)	0.00	(0.00)	1.24	(0.14)
Outdoors, residential grounds	7.44	(3.05)	8.20	(3.81)	8.51	(3.76)	8.48	(3.63)	32.63	(3.55)
Outdoors, school grounds	1.16	(0.47)	2.11	(0.98)	1.76	(0.78)	2.43	(1.04)	7.46	(0.81)
Outdoors, sports arena	0.00	(0.00)	0.08	(0.04)	0.31	(0.14)	0.00	(0.00)	0.39	(0.04)
Outdoors, park/golf course	0.89	(0.36)	2.29	(1.06)	3.52	(1.56)	1.33	(0.57)	8.03	(0.87)
Outdoors, other location	0.00	(0.00)	1.22	(0.57)	2.84	(1.25)	0.00	(0.00)	4.06	(0.44)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.77	(6.40)	14.06	(6.90)	16.39	(7.67)	14.01	(6.48)	59.23	(6.85)
In transit, bus	5.67	(2.46)	3.98	(1.96)	2.30	(1.08)	5.41	(2.50)	17.36	(2.01)
In transit, truck	0.59	(0.25)	0.36	(0.18)	0.56	(0.26)	0.39	(0.18)	1.90	(0.22)
In transit, van	1.21	(0.52)	1.27	(0.62)	1.20	(0.56)	1.62	(0.75)	5.29	(0.61)
Indoors, public garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.92	(0.40)	0.95	(0.47)	1.15	(0.54)	0.82	(0.38)	3.83	(0.44)
Outdoors, along a roadway	15.68	(6.80)	18.54	(9.10)	25.57	(11.96)	15.23	(7.04)	75.02	(8.68)
In transit, motorcycle	0.32	(0.14)	0.08	(0.04)	0.07	(0.03)	0.19	(0.09)	0.66	(0.08)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.09	(0.04)	0.21	(0.10)	0.16	(0.07)	0.21	(0.10)	0.67	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	139.96	(60.67)	119.70	(58.74)	122.79	(57.45)	131.34	(60.74)	513.79	(59.45)
Indoors, office	0.16	(0.07)	0.40	(0.20)	0.68	(0.32)	0.15	(0.07)	1.39	(0.16)
Indoors, store	2.64	(1.14)	2.26	(1.11)	2.36	(1.10)	2.41	(1.11)	9.66	(1.12)
Indoors, restaurant	1.91	(0.83)	2.39	(1.17)	3.09	(1.45)	1.93	(0.89)	9.32	(1.08)
Indoors, mfg. facility	0.02	(0.01)	0.03	(0.01)	0.02	(0.01)	0.04	(0.02)	0.10	(0.01)
Indoors, school	33.72	(14.62)	21.66	(10.63)	12.98	(6.07)	29.03	(13.43)	97.40	(11.27)
Indoors, church	0.99	(0.43)	0.78	(0.38)	0.69	(0.33)	0.89	(0.41)	3.36	(0.39)
Indoors, shopping mall	1.25	(0.54)	1.27	(0.63)	1.09	(0.51)	1.29	(0.60)	4.90	(0.57)
Indoors, auditorium	0.15	(0.06)	0.19	(0.09)	0.19	(0.09)	0.23	(0.11)	0.76	(0.09)
Indoors, health care facility	1.00	(0.43)	0.82	(0.40)	0.85	(0.40)	1.06	(0.49)	3.73	(0.43)
Indoors, public building	0.19	(0.08)	0.31	(0.15)	0.48	(0.22)	0.22	(0.10)	1.20	(0.14)
Indoors, other location	1.30	(0.56)	1.31	(0.64)	1.76	(0.82)	1.28	(0.59)	5.65	(0.65)
Indoors, not specified	0.00	(0.00)	0.05	(0.03)	0.08	(0.04)	0.00	(0.00)	0.13	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	4.05	(1.76)	6.38	(3.13)	9.91	(4.64)	4.21	(1.95)	24.56	(2.84)
Outdoors, school grounds	3.58	(1.55)	3.35	(1.64)	2.64	(1.23)	3.57	(1.65)	13.14	(1.52)
Outdoors, sports arena	0.21	(0.09)	0.44	(0.21)	0.62	(0.29)	0.28	(0.13)	1.55	(0.18)
Outdoors, park/golf course	0.22	(0.09)	1.11	(0.54)	2.07	(0.97)	0.30	(0.14)	3.69	(0.43)
Outdoors, other location	0.02	(0.01)	1.79	(0.88)	3.96	(1.85)	0.05	(0.02)	5.81	(0.67)
Outdoors, not specified	0.04	(0.02)	0.06	(0.03)	0.04	(0.02)	0.08	(0.04)	0.22	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	40.55	(16.13)	26.43	(11.98)	28.53	(12.45)	32.46	(13.76)	127.97	(13.66)
In transit, bus	1.61	(0.64)	0.23	(0.11)	0.00	(0.00)	0.79	(0.34)	2.63	(0.28)
In transit, truck	2.02	(0.80)	5.19	(2.35)	10.37	(4.53)	2.84	(1.20)	20.41	(2.18)
In transit, van	0.00	(0.00)	0.64	(0.29)	1.19	(0.52)	0.00	(0.00)	1.84	(0.20)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.23	(0.49)	1.80	(0.82)	1.88	(0.82)	1.66	(0.70)	6.57	(0.70)
Outdoors, along a roadway	21.43	(8.53)	22.78	(10.32)	17.28	(7.55)	25.32	(10.73)	86.81	(9.27)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.01)	0.06	(0.03)	0.05	(0.02)	0.05	(0.02)	0.18	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	141.93	(56.47)	118.00	(53.47)	113.48	(49.54)	133.55	(56.62)	506.96	(54.11)
Indoors, office	6.12	(2.44)	9.65	(4.37)	9.34	(4.08)	6.10	(2.59)	31.20	(3.33)
Indoors, store	1.02	(0.40)	1.23	(0.56)	1.07	(0.47)	1.15	(0.49)	4.46	(0.48)
Indoors, restaurant	4.04	(1.61)	2.67	(1.21)	2.17	(0.95)	3.22	(1.37)	12.10	(1.29)
Indoors, mfg. facility	0.00	(0.00)	2.90	(1.31)	9.47	(4.13)	0.00	(0.00)	12.36	(1.32)
Indoors, school	16.29	(6.48)	8.50	(3.85)	3.94	(1.72)	13.41	(5.68)	42.14	(4.50)
Indoors, church	0.10	(0.04)	0.64	(0.29)	0.91	(0.40)	0.23	(0.10)	1.88	(0.20)
Indoors, shopping mall	0.41	(0.16)	0.75	(0.34)	0.44	(0.19)	0.93	(0.40)	2.53	(0.27)
Indoors, auditorium	0.07	(0.03)	0.50	(0.23)	1.46	(0.64)	0.04	(0.02)	2.06	(0.22)
Indoors, health care facility	0.54	(0.22)	0.48	(0.22)	0.35	(0.15)	0.55	(0.23)	1.92	(0.20)
Indoors, public building	1.93	(0.77)	1.77	(0.80)	0.95	(0.42)	2.51	(1.07)	7.17	(0.76)
Indoors, other location	8.25	(3.28)	5.64	(2.55)	4.56	(1.99)	6.53	(2.77)	24.97	(2.67)
Indoors, not specified	0.01	(0.01)	0.03	(0.01)	0.02	(0.01)	0.03	(0.01)	0.08	(0.01)
Outdoors, construction	0.00	(0.00)	1.28	(0.58)	1.65	(0.72)	0.00	(0.00)	2.93	(0.31)
Outdoors, residential grounds	0.91	(0.36)	2.56	(1.16)	3.15	(1.37)	1.23	(0.52)	7.85	(0.84)
Outdoors, school grounds	1.04	(0.41)	1.94	(0.88)	1.10	(0.48)	2.33	(0.99)	6.40	(0.68)
Outdoors, sports arena	0.49	(0.19)	0.63	(0.28)	1.26	(0.55)	0.23	(0.10)	2.61	(0.28)
Outdoors, park/golf course	0.25	(0.10)	0.57	(0.26)	0.73	(0.32)	0.18	(0.08)	1.73	(0.19)
Outdoors, other location	0.35	(0.14)	3.78	(1.71)	13.70	(5.98)	0.18	(0.08)	18.01	(1.92)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.73	(0.29)	0.09	(0.04)	0.00	(0.00)	0.39	(0.17)	1.21	(0.13)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	34.95	(13.78)	29.86	(13.34)	29.40	(12.81)	33.65	(14.00)	127.87	(13.50)
In transit, bus	0.63	(0.25)	0.74	(0.33)	0.89	(0.39)	0.41	(0.17)	2.67	(0.28)
In transit, truck	6.23	(2.45)	5.34	(2.38)	5.43	(2.36)	5.04	(2.10)	22.02	(2.32)
In transit, van	1.69	(0.67)	1.68	(0.75)	1.82	(0.79)	1.67	(0.69)	6.86	(0.72)
Indoors, public garage	2.19	(0.86)	1.65	(0.74)	1.00	(0.43)	2.23	(0.93)	7.06	(0.75)
Outdoors, in a parking lot	1.86	(0.73)	2.18	(0.97)	2.22	(0.97)	1.84	(0.77)	8.09	(0.85)
Outdoors, along a roadway	10.59	(4.17)	13.46	(6.01)	15.28	(6.66)	12.44	(5.18)	51.77	(5.46)
In transit, motorcycle	0.00	(0.00)	0.15	(0.07)	0.24	(0.11)	0.00	(0.00)	0.39	(0.04)
Indoors, service station	3.57	(1.41)	1.85	(0.83)	1.12	(0.49)	2.91	(1.21)	9.45	(1.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.83	(0.33)	0.80	(0.36)	0.58	(0.25)	1.22	(0.51)	3.42	(0.36)
Indoors, in a repair shop	3.16	(1.25)	0.49	(0.22)	0.02	(0.01)	1.58	(0.66)	5.25	(0.55)
Indoors, home	124.34	(49.01)	107.70	(48.10)	108.24	(47.16)	119.88	(49.89)	460.16	(48.56)
Indoors, office	24.48	(9.65)	17.29	(7.72)	17.14	(7.47)	20.93	(8.71)	79.85	(8.43)
Indoors, store	4.66	(1.84)	4.28	(1.91)	5.41	(2.36)	3.74	(1.56)	18.10	(1.91)
Indoors, restaurant	7.25	(2.86)	5.28	(2.36)	4.64	(2.02)	5.87	(2.44)	23.03	(2.43)
Indoors, mfg. facility	4.33	(1.71)	5.70	(2.55)	6.34	(2.76)	4.38	(1.82)	20.74	(2.19)
Indoors, school	2.51	(0.99)	1.70	(0.76)	1.30	(0.57)	2.27	(0.94)	7.78	(0.82)
Indoors, church	0.77	(0.30)	0.78	(0.35)	0.65	(0.28)	0.94	(0.39)	3.14	(0.33)
Indoors, shopping mall	0.83	(0.33)	0.56	(0.25)	0.34	(0.15)	0.80	(0.33)	2.54	(0.27)
Indoors, auditorium	0.30	(0.12)	0.08	(0.04)	0.10	(0.04)	0.16	(0.07)	0.65	(0.07)
Indoors, health care facility	1.31	(0.52)	1.42	(0.63)	1.39	(0.61)	1.37	(0.57)	5.49	(0.58)
Indoors, public building	0.64	(0.25)	0.90	(0.40)	1.80	(0.78)	0.48	(0.20)	3.82	(0.40)
Indoors, other location	9.68	(3.82)	8.88	(3.97)	8.78	(3.83)	8.39	(3.49)	35.72	(3.77)
Indoors, not specified	1.20	(0.47)	0.36	(0.16)	0.11	(0.05)	0.76	(0.32)	2.44	(0.26)
Outdoors, construction	1.40	(0.55)	2.26	(1.01)	1.73	(0.75)	1.90	(0.79)	7.28	(0.77)
Outdoors, residential grounds	0.93	(0.37)	2.67	(1.19)	5.64	(2.46)	1.27	(0.53)	10.52	(1.11)
Outdoors, school grounds	0.16	(0.06)	0.22	(0.10)	0.16	(0.07)	0.21	(0.09)	0.75	(0.08)
Outdoors, sports arena	0.09	(0.04)	0.32	(0.14)	0.60	(0.26)	0.07	(0.03)	1.08	(0.11)
Outdoors, park/golf course	0.21	(0.08)	0.68	(0.30)	1.10	(0.48)	0.41	(0.17)	2.40	(0.25)
Outdoors, other location	2.43	(0.96)	4.22	(1.89)	5.62	(2.45)	3.21	(1.34)	15.49	(1.64)
Outdoors, not specified	0.02	(0.01)	0.13	(0.06)	0.17	(0.08)	0.05	(0.02)	0.37	(0.04)
In transit, train	0.46	(0.18)	0.24	(0.11)	0.24	(0.10)	0.25	(0.10)	1.18	(0.12)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	25.09	(10.91)	22.00	(10.81)	22.95	(10.85)	24.11	(11.17)	94.16	(10.94)
In transit, bus	1.82	(0.79)	0.64	(0.32)	0.60	(0.28)	1.14	(0.53)	4.21	(0.49)
In transit, truck	2.75	(1.19)	0.43	(0.21)	0.00	(0.00)	1.39	(0.64)	4.57	(0.53)
In transit, van	0.03	(0.02)	0.13	(0.07)	0.20	(0.10)	0.08	(0.04)	0.45	(0.05)
Indoors, public garage	0.07	(0.03)	0.05	(0.03)	0.03	(0.01)	0.08	(0.04)	0.23	(0.03)
Outdoors, in a parking lot	0.72	(0.31)	1.18	(0.58)	1.57	(0.74)	0.80	(0.37)	4.28	(0.50)
Outdoors, along a roadway	7.45	(3.24)	10.32	(5.07)	13.52	(6.39)	8.03	(3.72)	39.32	(4.57)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.04	(0.02)	0.00	(0.00)	0.07	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.24	(0.10)	0.05	(0.03)	0.01	(0.01)	0.13	(0.06)	0.44	(0.05)
Indoors, in a repair shop	0.04	(0.02)	0.08	(0.04)	0.04	(0.02)	0.08	(0.04)	0.25	(0.03)
Indoors, home	167.12	(72.66)	140.15	(68.87)	140.33	(66.33)	153.84	(71.29)	601.45	(69.87)
Indoors, office	1.34	(0.58)	0.65	(0.32)	0.58	(0.27)	0.77	(0.36)	3.34	(0.39)
Indoors, store	3.98	(1.73)	4.88	(2.40)	7.07	(3.34)	3.61	(1.67)	19.55	(2.27)
Indoors, restaurant	4.29	(1.86)	3.86	(1.90)	3.52	(1.66)	4.07	(1.89)	15.74	(1.83)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	3.22	(1.40)	4.49	(2.21)	3.29	(1.56)	5.07	(2.35)	16.07	(1.87)
Indoors, church	0.72	(0.31)	0.75	(0.37)	0.65	(0.31)	0.90	(0.42)	3.03	(0.35)
Indoors, shopping mall	2.01	(0.88)	1.11	(0.54)	1.25	(0.59)	0.99	(0.46)	5.36	(0.62)
Indoors, auditorium	0.38	(0.16)	0.35	(0.17)	0.38	(0.18)	0.43	(0.20)	1.55	(0.18)
Indoors, health care facility	0.50	(0.22)	0.68	(0.34)	0.68	(0.32)	0.62	(0.29)	2.48	(0.29)
Indoors, public building	0.69	(0.30)	0.37	(0.18)	0.30	(0.14)	0.54	(0.25)	1.90	(0.22)
Indoors, other location	5.74	(2.50)	5.40	(2.65)	5.15	(2.43)	6.22	(2.88)	22.51	(2.61)
Indoors, not specified	0.00	(0.00)	0.04	(0.02)	0.14	(0.06)	0.00	(0.00)	0.17	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.91	(0.40)	3.06	(1.51)	4.11	(1.94)	1.80	(0.84)	9.88	(1.15)
Outdoors, school grounds	0.22	(0.09)	0.61	(0.30)	0.64	(0.30)	0.50	(0.23)	1.96	(0.23)
Outdoors, sports arena	0.32	(0.14)	0.20	(0.10)	0.34	(0.16)	0.15	(0.07)	1.01	(0.12)
Outdoors, park/golf course	0.07	(0.03)	0.81	(0.40)	1.60	(0.76)	0.17	(0.08)	2.66	(0.31)
Outdoors, other location	0.18	(0.08)	1.16	(0.57)	2.57	(1.21)	0.20	(0.09)	4.10	(0.48)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.11	(0.05)	0.01	(0.01)	0.00	(0.00)	0.06	(0.03)	0.18	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	34.38	(14.22)	26.09	(12.35)	26.47	(12.02)	30.47	(13.39)	117.42	(13.04)
In transit, bus	2.22	(0.92)	1.71	(0.81)	1.51	(0.69)	2.06	(0.91)	7.51	(0.83)
In transit, truck	1.52	(0.63)	1.39	(0.66)	1.29	(0.59)	1.59	(0.70)	5.79	(0.64)
In transit, van	0.02	(0.01)	0.37	(0.17)	0.55	(0.25)	0.01	(0.00)	0.95	(0.11)
Indoors, public garage	0.59	(0.24)	0.25	(0.12)	0.15	(0.07)	0.42	(0.18)	1.41	(0.16)
Outdoors, in a parking lot	0.90	(0.37)	1.31	(0.62)	1.62	(0.74)	1.02	(0.45)	4.85	(0.54)
Outdoors, along a roadway	7.64	(3.16)	9.07	(4.30)	11.60	(5.27)	7.76	(3.41)	36.07	(4.00)
In transit, motorcycle	0.00	(0.00)	1.00	(0.48)	2.63	(1.20)	0.00	(0.00)	3.64	(0.40)
Indoors, service station	0.02	(0.01)	0.04	(0.02)	0.03	(0.01)	0.04	(0.02)	0.12	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.01	(0.01)	0.01	(0.00)	0.02	(0.01)	0.06	(0.01)
Indoors, in a repair shop	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, home	129.03	(53.35)	114.29	(54.13)	118.70	(53.91)	124.39	(54.68)	486.41	(54.00)
Indoors, office	25.53	(10.56)	21.12	(10.00)	18.59	(8.44)	22.92	(10.07)	88.16	(9.79)
Indoors, store	7.07	(2.92)	6.67	(3.16)	6.17	(2.80)	7.28	(3.20)	27.20	(3.02)
Indoors, restaurant	8.74	(3.61)	6.41	(3.04)	6.90	(3.13)	7.08	(3.11)	29.12	(3.23)
Indoors, mfg. facility	1.82	(0.75)	1.70	(0.80)	1.24	(0.56)	1.86	(0.82)	6.61	(0.73)
Indoors, school	6.41	(2.65)	4.31	(2.04)	2.40	(1.09)	5.82	(2.56)	18.93	(2.10)
Indoors, church	1.04	(0.43)	0.96	(0.46)	0.83	(0.38)	1.17	(0.51)	4.01	(0.44)
Indoors, shopping mall	2.16	(0.89)	1.32	(0.62)	0.84	(0.38)	2.02	(0.89)	6.34	(0.70)
Indoors, auditorium	0.16	(0.07)	0.16	(0.07)	0.22	(0.10)	0.18	(0.08)	0.72	(0.08)
Indoors, health care facility	2.88	(1.19)	2.11	(1.00)	1.83	(0.83)	2.70	(1.19)	9.52	(1.06)
Indoors, public building	0.58	(0.24)	0.52	(0.24)	0.73	(0.33)	0.52	(0.23)	2.35	(0.26)
Indoors, other location	8.19	(3.39)	5.93	(2.81)	6.41	(2.91)	6.83	(3.00)	27.36	(3.04)
Indoors, not specified	0.09	(0.04)	0.06	(0.03)	0.03	(0.01)	0.10	(0.04)	0.29	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.41	(0.17)	2.06	(0.97)	4.24	(1.93)	0.66	(0.29)	7.36	(0.82)
Outdoors, school grounds	0.11	(0.05)	0.39	(0.19)	0.43	(0.19)	0.20	(0.09)	1.13	(0.13)
Outdoors, sports arena	0.01	(0.00)	0.38	(0.18)	0.63	(0.29)	0.02	(0.01)	1.04	(0.12)
Outdoors, park/golf course	0.07	(0.03)	0.36	(0.17)	0.96	(0.44)	0.12	(0.05)	1.50	(0.17)
Outdoors, other location	0.12	(0.05)	1.05	(0.50)	3.10	(1.41)	0.10	(0.05)	4.38	(0.49)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
In transit, train	0.10	(0.04)	0.13	(0.06)	0.07	(0.03)	0.16	(0.07)	0.47	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.63	(9.99)	22.82	(10.95)	23.14	(10.51)	21.76	(10.21)	90.35	(10.41)
In transit, bus	1.56	(0.69)	5.39	(2.59)	6.90	(3.13)	0.69	(0.33)	14.55	(1.68)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.23	(0.10)	0.45	(0.21)	0.33	(0.15)	0.54	(0.25)	1.55	(0.18)
Indoors, public garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, in a parking lot	1.43	(0.63)	4.17	(2.00)	5.62	(2.55)	1.67	(0.78)	12.89	(1.48)
Outdoors, along a roadway	6.22	(2.75)	8.48	(4.07)	8.55	(3.88)	7.71	(3.62)	30.96	(3.57)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.17	(0.51)	1.59	(0.76)	1.03	(0.47)	2.13	(1.00)	5.92	(0.68)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	170.19	(75.11)	133.00	(63.81)	125.80	(57.11)	155.70	(73.08)	584.68	(67.35)
Indoors, office	0.94	(0.42)	0.33	(0.16)	0.26	(0.12)	0.57	(0.27)	2.10	(0.24)
Indoors, store	3.02	(1.33)	3.18	(1.53)	4.87	(2.21)	2.71	(1.27)	13.79	(1.59)
Indoors, restaurant	3.02	(1.33)	0.86	(0.41)	0.83	(0.38)	1.65	(0.78)	6.36	(0.73)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.46	(0.64)	2.82	(1.35)	1.84	(0.83)	3.48	(1.64)	9.60	(1.11)
Indoors, church	0.71	(0.32)	0.75	(0.36)	0.45	(0.20)	0.99	(0.47)	2.91	(0.33)
Indoors, shopping mall	4.35	(1.92)	0.81	(0.39)	0.00	(0.00)	2.06	(0.97)	7.22	(0.83)
Indoors, auditorium	0.15	(0.07)	0.22	(0.11)	0.26	(0.12)	0.08	(0.04)	0.71	(0.08)
Indoors, health care facility	2.32	(1.02)	2.93	(1.41)	1.53	(0.69)	3.46	(1.62)	10.24	(1.18)
Indoors, public building	0.18	(0.08)	0.20	(0.09)	0.82	(0.37)	0.09	(0.04)	1.30	(0.15)
Indoors, other location	4.62	(2.04)	8.65	(4.15)	9.79	(4.45)	4.90	(2.30)	27.96	(3.22)
Indoors, not specified	0.52	(0.23)	0.06	(0.03)	0.00	(0.00)	0.28	(0.13)	0.86	(0.10)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.49	(0.66)	7.98	(3.83)	22.09	(10.03)	2.39	(1.12)	33.96	(3.91)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.50	(0.24)	0.69	(0.31)	0.00	(0.00)	1.19	(0.14)
Outdoors, park/golf course	0.35	(0.15)	0.33	(0.16)	1.40	(0.63)	0.17	(0.08)	2.24	(0.26)
Outdoors, other location	0.00	(0.00)	2.89	(1.39)	4.07	(1.85)	0.00	(0.00)	6.96	(0.80)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	39.50	(15.48)	32.52	(14.63)	32.78	(14.43)	37.43	(15.50)	142.23	(15.03)
In transit, bus	5.41	(2.12)	2.03	(0.91)	1.08	(0.47)	3.74	(1.55)	12.27	(1.30)
In transit, truck	6.04	(2.37)	6.57	(2.96)	4.66	(2.05)	7.16	(2.96)	24.44	(2.58)
In transit, van	0.65	(0.25)	2.21	(0.99)	2.43	(1.07)	0.86	(0.35)	6.14	(0.65)
Indoors, public garage	0.46	(0.18)	0.61	(0.27)	0.34	(0.15)	0.72	(0.30)	2.13	(0.22)
Outdoors, in a parking lot	1.42	(0.56)	1.43	(0.64)	1.39	(0.61)	1.47	(0.61)	5.71	(0.60)
Outdoors, along a roadway	9.95	(3.90)	11.39	(5.12)	14.05	(6.18)	9.66	(4.00)	45.04	(4.76)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.68	(0.66)	0.56	(0.25)	0.28	(0.12)	1.15	(0.47)	3.67	(0.39)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.01)	0.06	(0.03)	0.08	(0.04)	0.02	(0.01)	0.19	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	117.58	(46.06)	102.31	(46.02)	102.87	(45.27)	114.98	(47.61)	437.74	(46.26)
Indoors, office	30.71	(12.03)	22.04	(9.91)	26.20	(11.53)	24.57	(10.18)	103.52	(10.94)
Indoors, store	7.49	(2.93)	4.86	(2.19)	3.46	(1.52)	6.63	(2.75)	22.43	(2.37)
Indoors, restaurant	6.30	(2.47)	5.62	(2.53)	5.97	(2.63)	6.26	(2.59)	24.16	(2.55)
Indoors, mfg. facility	3.17	(1.24)	7.09	(3.19)	9.30	(4.09)	5.03	(2.08)	24.59	(2.60)
Indoors, school	1.05	(0.41)	3.05	(1.37)	2.61	(1.15)	1.98	(0.82)	8.69	(0.92)
Indoors, church	1.22	(0.48)	1.11	(0.50)	1.09	(0.48)	1.24	(0.51)	4.66	(0.49)
Indoors, shopping mall	1.98	(0.78)	0.72	(0.32)	0.45	(0.20)	1.09	(0.45)	4.24	(0.45)
Indoors, auditorium	0.15	(0.06)	0.06	(0.03)	0.07	(0.03)	0.08	(0.03)	0.36	(0.04)
Indoors, health care facility	1.64	(0.64)	0.36	(0.16)	0.13	(0.06)	0.92	(0.38)	3.06	(0.32)
Indoors, public building	0.45	(0.18)	1.55	(0.70)	1.76	(0.77)	0.72	(0.30)	4.48	(0.47)
Indoors, other location	13.97	(5.47)	9.11	(4.10)	5.69	(2.51)	12.29	(5.09)	41.06	(4.34)
Indoors, not specified	1.53	(0.60)	0.33	(0.15)	0.10	(0.04)	0.84	(0.35)	2.79	(0.29)
Outdoors, construction	0.00	(0.00)	0.53	(0.24)	1.07	(0.47)	0.00	(0.00)	1.60	(0.17)
Outdoors, residential grounds	0.36	(0.14)	3.72	(1.67)	6.42	(2.83)	0.50	(0.21)	11.00	(1.16)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.39	(0.15)	0.89	(0.40)	1.18	(0.52)	0.58	(0.24)	3.04	(0.32)
Outdoors, other location	1.90	(0.75)	1.58	(0.71)	1.78	(0.78)	1.50	(0.62)	6.75	(0.71)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.18	(0.07)	0.02	(0.01)	0.00	(0.00)	0.09	(0.04)	0.30	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.84	(9.65)	16.97	(8.61)	17.92	(8.69)	18.23	(8.67)	74.96	(8.93)
In transit, bus	0.85	(0.38)	0.53	(0.27)	0.39	(0.19)	0.63	(0.30)	2.40	(0.29)
In transit, truck	1.69	(0.75)	0.26	(0.13)	0.00	(0.00)	0.84	(0.40)	2.79	(0.33)
In transit, van	0.39	(0.17)	0.67	(0.34)	0.50	(0.24)	0.91	(0.43)	2.47	(0.29)
Indoors, public garage	0.13	(0.06)	0.03	(0.02)	0.01	(0.00)	0.08	(0.04)	0.25	(0.03)
Outdoors, in a parking lot	0.59	(0.26)	1.11	(0.56)	1.50	(0.73)	0.64	(0.30)	3.84	(0.46)
Outdoors, along a roadway	8.54	(3.78)	7.24	(3.67)	8.92	(4.33)	6.73	(3.20)	31.43	(3.74)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.04	(0.02)	0.02	(0.01)	0.02	(0.01)	0.02	(0.01)	0.10	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	173.18	(76.54)	147.79	(75.00)	147.18	(71.40)	163.60	(77.80)	631.75	(75.23)
Indoors, office	0.82	(0.36)	0.65	(0.33)	0.55	(0.27)	0.77	(0.37)	2.79	(0.33)
Indoors, store	3.69	(1.63)	3.27	(1.66)	3.22	(1.56)	3.29	(1.57)	13.48	(1.61)
Indoors, restaurant	3.03	(1.34)	3.48	(1.77)	4.68	(2.27)	3.25	(1.54)	14.44	(1.72)
Indoors, mfg. facility	0.00	(0.00)	0.04	(0.02)	0.05	(0.02)	0.00	(0.00)	0.08	(0.01)
Indoors, school	0.58	(0.26)	0.58	(0.29)	0.49	(0.24)	0.70	(0.33)	2.34	(0.28)
Indoors, church	1.16	(0.51)	1.32	(0.67)	1.10	(0.53)	1.49	(0.71)	5.07	(0.60)
Indoors, shopping mall	2.27	(1.00)	1.62	(0.82)	1.73	(0.84)	1.80	(0.86)	7.42	(0.88)
Indoors, auditorium	0.08	(0.04)	0.03	(0.02)	0.02	(0.01)	0.04	(0.02)	0.18	(0.02)
Indoors, health care facility	0.83	(0.36)	1.25	(0.64)	1.68	(0.82)	0.67	(0.32)	4.43	(0.53)
Indoors, public building	0.20	(0.09)	0.43	(0.22)	0.39	(0.19)	0.44	(0.21)	1.46	(0.17)
Indoors, other location	4.00	(1.77)	4.46	(2.26)	5.49	(2.66)	3.64	(1.73)	17.59	(2.09)
Indoors, not specified	0.54	(0.24)	0.07	(0.03)	0.00	(0.00)	0.29	(0.14)	0.89	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.49	(0.66)	3.78	(1.92)	6.95	(3.37)	2.00	(0.95)	14.22	(1.69)
Outdoors, school grounds	0.09	(0.04)	0.01	(0.01)	0.00	(0.00)	0.04	(0.02)	0.14	(0.02)
Outdoors, sports arena	0.00	(0.00)	0.26	(0.13)	0.39	(0.19)	0.00	(0.00)	0.65	(0.08)
Outdoors, park/golf course	0.00	(0.00)	0.73	(0.37)	1.66	(0.81)	0.00	(0.00)	2.40	(0.29)
Outdoors, other location	0.03	(0.02)	0.42	(0.21)	1.27	(0.62)	0.08	(0.04)	1.80	(0.21)
Outdoors, not specified	0.20	(0.09)	0.03	(0.01)	0.00	(0.00)	0.10	(0.05)	0.33	(0.04)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	29.58	(12.41)	23.84	(11.39)	25.28	(11.63)	25.57	(11.35)	104.27	(11.71)
In transit, bus	3.07	(1.29)	1.57	(0.75)	1.38	(0.64)	2.35	(1.04)	8.37	(0.94)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.87	(0.37)	0.30	(0.14)	0.11	(0.05)	0.60	(0.27)	1.88	(0.21)
Indoors, public garage	0.10	(0.04)	0.05	(0.03)	0.02	(0.01)	0.09	(0.04)	0.27	(0.03)
Outdoors, in a parking lot	1.19	(0.50)	1.44	(0.69)	2.53	(1.17)	1.07	(0.48)	6.24	(0.70)
Outdoors, along a roadway	8.48	(3.56)	7.70	(3.68)	9.39	(4.32)	7.61	(3.38)	33.19	(3.73)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.00)	0.02	(0.01)	0.02	(0.01)	0.02	(0.01)	0.07	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	135.27	(56.78)	115.97	(55.40)	120.68	(55.50)	129.55	(57.52)	501.48	(56.34)
Indoors, office	24.90	(10.45)	18.39	(8.79)	14.08	(6.48)	22.25	(9.88)	79.63	(8.94)
Indoors, store	4.92	(2.07)	5.74	(2.74)	6.34	(2.92)	5.30	(2.35)	22.31	(2.51)
Indoors, restaurant	7.12	(2.99)	7.62	(3.64)	7.31	(3.36)	8.48	(3.76)	30.53	(3.43)
Indoors, mfg. facility	0.00	(0.00)	4.97	(2.38)	8.68	(3.99)	0.00	(0.00)	13.65	(1.53)
Indoors, school	5.44	(2.28)	3.24	(1.55)	2.55	(1.17)	4.66	(2.07)	15.90	(1.79)
Indoors, church	1.34	(0.56)	1.19	(0.57)	1.48	(0.68)	1.14	(0.50)	5.15	(0.58)
Indoors, shopping mall	1.68	(0.70)	2.49	(1.19)	1.65	(0.76)	2.69	(1.20)	8.51	(0.96)
Indoors, auditorium	0.04	(0.02)	0.07	(0.03)	0.05	(0.02)	0.10	(0.04)	0.26	(0.03)
Indoors, health care facility	3.07	(1.29)	3.20	(1.53)	2.49	(1.14)	3.47	(1.54)	12.22	(1.37)
Indoors, public building	0.35	(0.15)	0.17	(0.08)	0.22	(0.10)	0.19	(0.09)	0.93	(0.10)
Indoors, other location	9.98	(4.19)	8.53	(4.08)	8.36	(3.84)	8.79	(3.90)	35.67	(4.01)
Indoors, not specified	0.01	(0.00)	0.14	(0.07)	0.59	(0.27)	0.02	(0.01)	0.76	(0.09)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.50	(0.21)	2.00	(0.96)	3.10	(1.43)	0.84	(0.37)	6.44	(0.72)
Outdoors, school grounds	0.10	(0.04)	0.26	(0.13)	0.20	(0.09)	0.21	(0.10)	0.77	(0.09)
Outdoors, sports arena	0.10	(0.04)	0.13	(0.06)	0.39	(0.18)	0.05	(0.02)	0.66	(0.07)
Outdoors, park/golf course	0.05	(0.02)	0.01	(0.00)	0.00	(0.00)	0.03	(0.01)	0.09	(0.01)
Outdoors, other location	0.05	(0.02)	0.23	(0.11)	0.49	(0.23)	0.13	(0.06)	0.91	(0.10)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	34.61	(14.96)	31.30	(15.01)	29.94	(13.55)	35.80	(16.13)	131.65	(14.92)
In transit, bus	0.99	(0.43)	1.94	(0.93)	1.07	(0.49)	2.16	(0.97)	6.16	(0.70)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.00)	0.05	(0.02)	0.00	(0.00)	0.06	(0.01)
Indoors, public garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.04	(0.00)
Outdoors, in a parking lot	0.94	(0.40)	2.47	(1.19)	3.92	(1.78)	1.24	(0.56)	8.57	(0.97)
Outdoors, along a roadway	6.49	(2.81)	12.27	(5.88)	20.72	(9.38)	8.27	(3.73)	47.75	(5.41)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.13	(0.06)	0.21	(0.09)	0.00	(0.00)	0.34	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.03	(0.01)	0.03	(0.01)	0.03	(0.01)	0.10	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, home	156.67	(67.74)	129.41	(62.05)	131.67	(59.62)	143.06	(64.48)	560.82	(63.54)
Indoors, office	7.78	(3.36)	4.92	(2.36)	3.04	(1.38)	7.50	(3.38)	23.24	(2.63)
Indoors, store	2.03	(0.88)	1.75	(0.84)	2.58	(1.17)	1.62	(0.73)	7.99	(0.90)
Indoors, restaurant	4.66	(2.02)	4.84	(2.32)	5.91	(2.68)	5.26	(2.37)	20.67	(2.34)
Indoors, mfg. facility	2.13	(0.92)	1.40	(0.67)	0.65	(0.29)	2.02	(0.91)	6.20	(0.70)
Indoors, school	1.23	(0.53)	0.46	(0.22)	0.49	(0.22)	0.64	(0.29)	2.82	(0.32)
Indoors, church	1.25	(0.54)	1.30	(0.62)	0.99	(0.45)	1.67	(0.75)	5.20	(0.59)
Indoors, shopping mall	3.28	(1.42)	1.91	(0.92)	3.76	(1.70)	1.71	(0.77)	10.66	(1.21)
Indoors, auditorium	0.63	(0.27)	0.75	(0.36)	0.53	(0.24)	1.09	(0.49)	2.99	(0.34)
Indoors, health care facility	0.32	(0.14)	0.83	(0.40)	1.52	(0.69)	0.43	(0.20)	3.11	(0.35)
Indoors, public building	0.20	(0.09)	0.52	(0.25)	0.66	(0.30)	0.16	(0.07)	1.54	(0.17)
Indoors, other location	2.54	(1.10)	3.05	(1.46)	1.84	(0.83)	3.78	(1.70)	11.20	(1.27)
Indoors, not specified	0.00	(0.00)	0.40	(0.19)	0.52	(0.24)	0.00	(0.00)	0.92	(0.10)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	3.18	(1.38)	6.75	(3.24)	9.03	(4.09)	2.86	(1.29)	21.82	(2.47)
Outdoors, school grounds	0.32	(0.14)	0.60	(0.29)	0.35	(0.16)	0.75	(0.34)	2.02	(0.23)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	1.26	(0.54)	0.96	(0.46)	0.46	(0.21)	1.33	(0.60)	4.00	(0.45)
Outdoors, other location	0.00	(0.00)	0.30	(0.15)	0.81	(0.37)	0.00	(0.00)	1.12	(0.13)
Outdoors, not specified	0.08	(0.03)	0.16	(0.08)	0.09	(0.04)	0.17	(0.08)	0.50	(0.06)
In transit, train	0.69	(0.30)	0.08	(0.04)	0.00	(0.00)	0.35	(0.16)	1.13	(0.13)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.64	(8.83)	17.15	(8.76)	21.57	(10.49)	17.13	(8.18)	75.48	(9.06)
In transit, bus	0.26	(0.12)	0.69	(0.35)	0.93	(0.45)	0.58	(0.27)	2.45	(0.29)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.30	(0.13)	0.04	(0.02)	0.00	(0.00)	0.16	(0.08)	0.50	(0.06)
Indoors, public garage	0.07	(0.03)	0.06	(0.03)	0.20	(0.10)	0.05	(0.02)	0.38	(0.05)
Outdoors, in a parking lot	0.29	(0.13)	0.63	(0.32)	0.99	(0.48)	0.29	(0.14)	2.20	(0.26)
Outdoors, along a roadway	7.22	(3.25)	6.91	(3.53)	9.36	(4.55)	5.70	(2.72)	29.18	(3.50)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.04	(0.02)	0.06	(0.03)	0.00	(0.00)	0.10	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	171.52	(77.10)	150.19	(76.75)	150.52	(73.18)	165.43	(78.98)	637.67	(76.53)
Indoors, office	2.04	(0.92)	0.52	(0.27)	0.29	(0.14)	1.07	(0.51)	3.93	(0.47)
Indoors, store	1.92	(0.87)	3.00	(1.53)	6.73	(3.27)	1.40	(0.67)	13.06	(1.57)
Indoors, restaurant	3.03	(1.36)	3.43	(1.75)	3.88	(1.89)	3.17	(1.51)	13.52	(1.62)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.09	(0.04)	0.11	(0.05)	0.00	(0.00)	0.20	(0.02)
Indoors, church	2.52	(1.13)	1.93	(0.98)	1.26	(0.61)	2.41	(1.15)	8.12	(0.97)
Indoors, shopping mall	1.77	(0.80)	3.77	(1.93)	2.13	(1.04)	3.92	(1.87)	11.60	(1.39)
Indoors, auditorium	0.05	(0.02)	0.10	(0.05)	0.06	(0.03)	0.11	(0.05)	0.32	(0.04)
Indoors, health care facility	1.73	(0.78)	0.72	(0.37)	0.37	(0.18)	1.19	(0.57)	4.01	(0.48)
Indoors, public building	0.32	(0.14)	0.57	(0.29)	0.48	(0.23)	0.44	(0.21)	1.81	(0.22)
Indoors, other location	9.27	(4.17)	3.17	(1.62)	2.28	(1.11)	5.82	(2.78)	20.54	(2.46)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.38	(0.17)	1.84	(0.94)	3.35	(1.63)	0.26	(0.12)	5.83	(0.70)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.12	(0.05)	0.32	(0.17)	0.30	(0.14)	0.29	(0.14)	1.03	(0.12)
Outdoors, park/golf course	0.00	(0.00)	0.20	(0.10)	0.29	(0.14)	0.00	(0.00)	0.49	(0.06)
Outdoors, other location	0.00	(0.00)	0.30	(0.15)	0.53	(0.26)	0.00	(0.00)	0.82	(0.10)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.71	(7.25)	13.78	(5.59)	15.83	(6.14)	17.71	(6.68)	68.03	(6.45)
In transit, bus	0.00	(0.00)	0.58	(0.24)	0.73	(0.28)	0.00	(0.00)	1.31	(0.12)
In transit, truck	22.99	(8.05)	22.12	(8.97)	26.15	(10.14)	18.32	(6.91)	89.58	(8.49)
In transit, van	2.00	(0.70)	0.29	(0.12)	0.00	(0.00)	1.05	(0.40)	3.34	(0.32)
Indoors, public garage	5.65	(1.98)	3.60	(1.46)	1.76	(0.68)	5.98	(2.26)	17.00	(1.61)
Outdoors, in a parking lot	1.88	(0.66)	3.40	(1.38)	3.07	(1.19)	3.14	(1.18)	11.49	(1.09)
Outdoors, along a roadway	34.16	(11.96)	38.54	(15.63)	47.49	(18.41)	35.63	(13.43)	155.82	(14.76)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	12.92	(4.52)	2.30	(0.93)	0.68	(0.26)	6.57	(2.48)	22.47	(2.13)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	2.14	(0.75)	0.46	(0.18)	0.05	(0.02)	1.20	(0.45)	3.85	(0.36)
Indoors, in a repair shop	0.00	(0.00)	0.28	(0.11)	0.35	(0.14)	0.00	(0.00)	0.63	(0.06)
Indoors, home	105.27	(36.84)	89.19	(36.18)	85.39	(33.10)	103.59	(39.06)	383.44	(36.33)
Indoors, office	6.61	(2.31)	4.95	(2.01)	5.73	(2.22)	3.87	(1.46)	21.15	(2.00)
Indoors, store	1.80	(0.63)	0.79	(0.32)	0.41	(0.16)	1.26	(0.48)	4.26	(0.40)
Indoors, restaurant	7.46	(2.61)	2.83	(1.15)	2.38	(0.92)	5.82	(2.19)	18.48	(1.75)
Indoors, mfg. facility	1.72	(0.60)	5.80	(2.35)	12.57	(4.87)	3.74	(1.41)	23.84	(2.26)
Indoors, school	0.69	(0.24)	1.41	(0.57)	0.77	(0.30)	1.47	(0.56)	4.33	(0.41)
Indoors, church	2.26	(0.79)	0.95	(0.38)	0.40	(0.15)	1.67	(0.63)	5.28	(0.50)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.26	(0.09)	0.67	(0.27)	1.48	(0.57)	0.13	(0.05)	2.54	(0.24)
Indoors, health care facility	0.00	(0.00)	0.33	(0.14)	0.62	(0.24)	0.00	(0.00)	0.95	(0.09)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	10.13	(3.55)	2.70	(1.09)	1.04	(0.40)	6.08	(2.29)	19.95	(1.89)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	15.16	(5.31)	24.13	(9.79)	24.84	(9.63)	15.46	(5.83)	79.59	(7.54)
Outdoors, residential grounds	1.67	(0.58)	3.15	(1.28)	2.48	(0.96)	2.84	(1.07)	10.14	(0.96)
Outdoors, school grounds	0.09	(0.03)	0.16	(0.07)	0.09	(0.04)	0.19	(0.07)	0.53	(0.05)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.39	(0.14)	0.88	(0.35)	0.58	(0.22)	0.88	(0.33)	2.72	(0.26)
Outdoors, other location	29.73	(10.41)	23.25	(9.43)	23.09	(8.95)	28.62	(10.79)	104.69	(9.92)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.31	(5.04)	14.29	(6.74)	17.59	(7.98)	13.59	(5.95)	57.77	(6.38)
In transit, bus	8.99	(3.68)	5.41	(2.55)	2.93	(1.33)	7.95	(3.48)	25.27	(2.79)
In transit, truck	0.08	(0.03)	0.35	(0.16)	0.46	(0.21)	0.18	(0.08)	1.07	(0.12)
In transit, van	0.85	(0.35)	0.43	(0.20)	0.45	(0.21)	0.59	(0.26)	2.32	(0.26)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	1.40	(0.57)	1.15	(0.54)	1.17	(0.53)	1.20	(0.52)	4.93	(0.54)
Outdoors, along a roadway	29.45	(12.06)	26.47	(12.49)	33.79	(15.32)	26.01	(11.39)	115.71	(12.79)
In transit, motorcycle	0.96	(0.39)	0.20	(0.10)	0.06	(0.03)	0.58	(0.25)	1.80	(0.20)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.01)	0.11	(0.05)	0.11	(0.05)	0.08	(0.03)	0.33	(0.04)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	119.81	(49.06)	106.53	(50.27)	111.99	(50.78)	113.69	(49.80)	452.01	(49.95)
Indoors, office	0.46	(0.19)	0.31	(0.15)	0.71	(0.32)	0.25	(0.11)	1.74	(0.19)
Indoors, store	3.10	(1.27)	2.16	(1.02)	2.55	(1.16)	2.54	(1.11)	10.36	(1.14)
Indoors, restaurant	1.13	(0.46)	2.18	(1.03)	2.76	(1.25)	1.92	(0.84)	8.00	(0.88)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	45.23	(18.52)	27.37	(12.91)	14.57	(6.61)	38.70	(16.95)	125.86	(13.91)
Indoors, church	1.28	(0.53)	0.92	(0.43)	0.85	(0.38)	1.08	(0.47)	4.13	(0.46)
Indoors, shopping mall	1.98	(0.81)	1.46	(0.69)	1.05	(0.47)	1.73	(0.76)	6.21	(0.69)
Indoors, auditorium	0.08	(0.03)	0.18	(0.08)	0.20	(0.09)	0.21	(0.09)	0.67	(0.07)
Indoors, health care facility	0.69	(0.28)	0.78	(0.37)	0.59	(0.27)	1.04	(0.46)	3.10	(0.34)
Indoors, public building	0.66	(0.27)	0.65	(0.31)	0.61	(0.28)	0.68	(0.30)	2.60	(0.29)
Indoors, other location	1.86	(0.76)	1.62	(0.76)	1.69	(0.77)	1.84	(0.80)	7.00	(0.77)
Indoors, not specified	0.00	(0.00)	0.06	(0.03)	0.08	(0.04)	0.00	(0.00)	0.15	(0.02)
Outdoors, construction	0.00	(0.00)	0.22	(0.10)	0.28	(0.13)	0.00	(0.00)	0.50	(0.06)
Outdoors, residential grounds	5.57	(2.28)	7.62	(3.59)	11.83	(5.37)	5.36	(2.35)	30.39	(3.36)
Outdoors, school grounds	7.28	(2.98)	6.20	(2.93)	4.14	(1.88)	7.76	(3.40)	25.38	(2.80)
Outdoors, sports arena	0.71	(0.29)	0.96	(0.45)	1.16	(0.53)	0.84	(0.37)	3.67	(0.41)
Outdoors, park/golf course	0.25	(0.10)	1.36	(0.64)	2.70	(1.22)	0.34	(0.15)	4.65	(0.51)
Outdoors, other location	0.06	(0.02)	2.93	(1.38)	6.15	(2.79)	0.13	(0.06)	9.26	(1.02)
Outdoors, not specified	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.71	(6.23)	15.37	(7.70)	18.30	(8.74)	12.52	(5.98)	59.89	(7.14)
In transit, bus	2.75	(1.25)	2.76	(1.38)	1.67	(0.80)	3.53	(1.69)	10.71	(1.28)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.56	(0.25)	0.91	(0.46)	0.73	(0.35)	1.27	(0.61)	3.47	(0.41)
Indoors, public garage	0.00	(0.00)	0.01	(0.01)	0.06	(0.03)	0.00	(0.00)	0.07	(0.01)
Outdoors, in a parking lot	0.72	(0.33)	0.88	(0.44)	1.09	(0.52)	0.65	(0.31)	3.34	(0.40)
Outdoors, along a roadway	7.31	(3.32)	8.87	(4.44)	12.60	(6.02)	6.30	(3.01)	35.08	(4.18)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.07	(0.04)	0.10	(0.05)	0.00	(0.00)	0.17	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.28	(0.13)	0.18	(0.09)	0.12	(0.06)	0.25	(0.12)	0.82	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	162.67	(73.88)	136.13	(68.19)	140.37	(67.02)	152.03	(72.64)	591.20	(70.50)
Indoors, office	7.94	(3.61)	6.58	(3.30)	5.36	(2.56)	7.30	(3.49)	27.19	(3.24)
Indoors, store	2.55	(1.16)	2.68	(1.34)	3.30	(1.58)	2.11	(1.01)	10.64	(1.27)
Indoors, restaurant	5.32	(2.42)	4.00	(2.00)	4.66	(2.23)	4.47	(2.14)	18.45	(2.20)
Indoors, mfg. facility	2.20	(1.00)	3.13	(1.57)	2.46	(1.18)	2.50	(1.20)	10.29	(1.23)
Indoors, school	7.75	(3.52)	6.66	(3.34)	3.80	(1.81)	7.86	(3.76)	26.07	(3.11)
Indoors, church	1.67	(0.76)	1.64	(0.82)	1.21	(0.58)	2.17	(1.04)	6.68	(0.80)
Indoors, shopping mall	0.42	(0.19)	1.34	(0.67)	1.48	(0.71)	0.92	(0.44)	4.18	(0.50)
Indoors, auditorium	0.03	(0.01)	0.06	(0.03)	0.03	(0.02)	0.07	(0.03)	0.18	(0.02)
Indoors, health care facility	1.14	(0.52)	0.78	(0.39)	0.85	(0.40)	0.88	(0.42)	3.65	(0.43)
Indoors, public building	0.08	(0.04)	0.20	(0.10)	0.61	(0.29)	0.09	(0.04)	0.97	(0.12)
Indoors, other location	0.20	(0.09)	1.24	(0.62)	1.90	(0.91)	0.36	(0.17)	3.70	(0.44)
Indoors, not specified	0.14	(0.06)	0.30	(0.15)	0.67	(0.32)	0.07	(0.03)	1.18	(0.14)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.40	(0.64)	3.66	(1.83)	5.89	(2.81)	2.17	(1.04)	13.12	(1.57)
Outdoors, school grounds	0.82	(0.37)	1.16	(0.58)	0.64	(0.30)	1.46	(0.70)	4.07	(0.49)
Outdoors, sports arena	0.01	(0.00)	0.14	(0.07)	0.23	(0.11)	0.01	(0.01)	0.40	(0.05)
Outdoors, park/golf course	0.44	(0.20)	0.13	(0.06)	0.20	(0.10)	0.23	(0.11)	1.01	(0.12)
Outdoors, other location	0.03	(0.01)	0.76	(0.38)	1.08	(0.52)	0.07	(0.03)	1.95	(0.23)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

New York City: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	28.78	(12.02)	22.65	(10.77)	23.04	(10.54)	25.82	(11.48)	100.28	(11.23)
In transit, bus	2.54	(1.06)	1.92	(0.91)	1.41	(0.65)	2.37	(1.05)	8.24	(0.92)
In transit, truck	2.60	(1.09)	2.01	(0.96)	1.84	(0.84)	2.18	(0.97)	8.63	(0.97)
In transit, van	0.76	(0.32)	0.91	(0.43)	0.94	(0.43)	0.91	(0.41)	3.53	(0.39)
Indoors, public garage	0.65	(0.27)	0.40	(0.19)	0.23	(0.11)	0.59	(0.26)	1.87	(0.21)
Outdoors, in a parking lot	1.09	(0.46)	1.41	(0.67)	1.73	(0.79)	1.11	(0.49)	5.34	(0.60)
Outdoors, along a roadway	10.06	(4.20)	12.98	(6.17)	17.05	(7.80)	10.61	(4.72)	50.70	(5.68)
In transit, motorcycle	0.05	(0.02)	0.17	(0.08)	0.41	(0.19)	0.03	(0.01)	0.65	(0.07)
Indoors, service station	0.87	(0.36)	0.40	(0.19)	0.23	(0.10)	0.65	(0.29)	2.15	(0.24)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.22	(0.09)	0.21	(0.10)	0.15	(0.07)	0.28	(0.13)	0.86	(0.10)
Indoors, in a repair shop	0.68	(0.28)	0.11	(0.05)	0.01	(0.00)	0.35	(0.15)	1.15	(0.13)
Indoors, home	138.47	(57.86)	120.21	(57.15)	123.77	(56.65)	131.66	(58.52)	514.11	(57.56)
Indoors, office	15.56	(6.50)	10.09	(4.79)	8.04	(3.68)	12.74	(5.66)	46.43	(5.20)
Indoors, store	4.68	(1.96)	4.16	(1.98)	4.55	(2.08)	4.25	(1.89)	17.64	(1.98)
Indoors, restaurant	5.80	(2.42)	4.52	(2.15)	4.60	(2.10)	5.03	(2.24)	19.95	(2.23)
Indoors, mfg. facility	1.57	(0.66)	2.10	(1.00)	2.29	(1.05)	1.62	(0.72)	7.58	(0.85)
Indoors, school	8.80	(3.68)	7.73	(3.67)	5.27	(2.41)	9.04	(4.02)	30.84	(3.45)
Indoors, church	0.97	(0.41)	0.92	(0.44)	0.84	(0.39)	1.04	(0.46)	3.78	(0.42)
Indoors, shopping mall	1.69	(0.70)	1.29	(0.62)	1.04	(0.48)	1.55	(0.69)	5.57	(0.62)
Indoors, auditorium	0.20	(0.08)	0.18	(0.08)	0.20	(0.09)	0.21	(0.09)	0.79	(0.09)
Indoors, health care facility	1.67	(0.70)	1.32	(0.63)	1.19	(0.55)	1.58	(0.70)	5.75	(0.64)
Indoors, public building	0.49	(0.20)	0.57	(0.27)	0.73	(0.33)	0.47	(0.21)	2.26	(0.25)
Indoors, other location	7.26	(3.03)	5.40	(2.57)	5.06	(2.32)	6.19	(2.75)	23.92	(2.68)
Indoors, not specified	0.42	(0.18)	0.16	(0.07)	0.14	(0.06)	0.25	(0.11)	0.97	(0.11)
Outdoors, construction	0.26	(0.11)	0.47	(0.23)	0.43	(0.20)	0.33	(0.15)	1.49	(0.17)
Outdoors, residential grounds	1.35	(0.57)	3.91	(1.86)	6.84	(3.13)	1.82	(0.81)	13.93	(1.56)
Outdoors, school grounds	0.76	(0.32)	1.13	(0.54)	0.97	(0.44)	1.01	(0.45)	3.87	(0.43)
Outdoors, sports arena	0.12	(0.05)	0.32	(0.15)	0.52	(0.24)	0.12	(0.05)	1.08	(0.12)
Outdoors, park/golf course	0.17	(0.07)	0.75	(0.36)	1.39	(0.64)	0.26	(0.12)	2.57	(0.29)
Outdoors, other location	0.65	(0.27)	1.86	(0.88)	3.48	(1.59)	0.72	(0.32)	6.70	(0.75)
Outdoors, not specified	0.03	(0.01)	0.05	(0.02)	0.05	(0.02)	0.04	(0.02)	0.18	(0.02)
In transit, train	0.17	(0.07)	0.07	(0.04)	0.06	(0.03)	0.11	(0.05)	0.41	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.66	(8.93)	9.19	(9.44)	11.47	(10.12)	12.07	(9.13)	46.39	(9.36)
In transit, bus	2.24	(1.46)	1.02	(1.05)	0.70	(0.62)	1.80	(1.36)	5.76	(1.16)
In transit, truck	0.84	(0.55)	0.87	(0.90)	0.89	(0.79)	0.91	(0.69)	3.52	(0.71)
In transit, van	0.65	(0.43)	0.49	(0.51)	0.58	(0.51)	0.65	(0.50)	2.38	(0.48)
Indoors, public garage	0.27	(0.18)	0.10	(0.11)	0.08	(0.07)	0.21	(0.16)	0.67	(0.13)
Outdoors, in a parking lot	1.17	(0.77)	0.75	(0.77)	0.93	(0.82)	0.96	(0.72)	3.81	(0.77)
Outdoors, along a roadway	6.93	(4.53)	5.88	(6.04)	8.76	(7.73)	6.40	(4.84)	27.97	(5.64)
In transit, motorcycle	0.06	(0.04)	0.08	(0.08)	0.19	(0.17)	0.03	(0.02)	0.35	(0.07)
Indoors, service station	0.35	(0.23)	0.15	(0.16)	0.10	(0.09)	0.28	(0.21)	0.88	(0.18)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.12	(0.08)	0.07	(0.07)	0.05	(0.05)	0.12	(0.09)	0.37	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, home	92.92	(60.74)	56.55	(58.06)	64.71	(57.10)	80.07	(60.58)	294.26	(59.34)
Indoors, office	5.07	(3.32)	3.40	(3.49)	3.63	(3.20)	4.18	(3.16)	16.28	(3.28)
Indoors, store	3.23	(2.11)	1.95	(2.00)	2.30	(2.03)	2.61	(1.98)	10.09	(2.03)
Indoors, restaurant	3.53	(2.31)	2.04	(2.09)	2.32	(2.05)	2.90	(2.19)	10.78	(2.17)
Indoors, mfg. facility	1.93	(1.26)	1.29	(1.32)	1.30	(1.15)	1.60	(1.21)	6.11	(1.23)
Indoors, school	10.36	(6.77)	5.13	(5.27)	3.37	(2.97)	8.50	(6.43)	27.36	(5.52)
Indoors, church	0.71	(0.46)	0.42	(0.43)	0.42	(0.37)	0.64	(0.48)	2.19	(0.44)
Indoors, shopping mall	1.07	(0.70)	0.60	(0.62)	0.59	(0.52)	0.89	(0.67)	3.15	(0.63)
Indoors, auditorium	0.11	(0.07)	0.09	(0.09)	0.12	(0.10)	0.12	(0.09)	0.43	(0.09)
Indoors, health care facility	1.12	(0.73)	0.64	(0.66)	0.57	(0.50)	1.00	(0.76)	3.34	(0.67)
Indoors, public building	0.36	(0.24)	0.30	(0.31)	0.43	(0.38)	0.33	(0.25)	1.42	(0.29)
Indoors, other location	2.87	(1.87)	2.15	(2.21)	2.19	(1.93)	2.68	(2.03)	9.88	(1.99)
Indoors, not specified	0.04	(0.03)	0.03	(0.03)	0.06	(0.05)	0.03	(0.02)	0.16	(0.03)
Outdoors, construction	0.34	(0.22)	0.28	(0.29)	0.24	(0.21)	0.31	(0.24)	1.18	(0.24)
Outdoors, residential grounds	1.47	(0.96)	1.97	(2.02)	3.94	(3.48)	1.44	(1.09)	8.81	(1.78)
Outdoors, school grounds	1.00	(0.66)	0.66	(0.68)	0.51	(0.45)	0.92	(0.70)	3.09	(0.62)
Outdoors, sports arena	0.04	(0.03)	0.13	(0.13)	0.27	(0.24)	0.04	(0.03)	0.48	(0.10)
Outdoors, park/golf course	0.17	(0.11)	0.37	(0.38)	0.78	(0.69)	0.20	(0.15)	1.53	(0.31)
Outdoors, other location	0.30	(0.20)	0.76	(0.78)	1.82	(1.61)	0.26	(0.20)	3.14	(0.63)
Outdoors, not specified	0.03	(0.02)	0.03	(0.03)	0.02	(0.02)	0.03	(0.02)	0.10	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.51	(8.45)	8.78	(7.06)	9.73	(7.44)	11.03	(7.40)	44.05	(7.65)
In transit, bus	4.15	(2.42)	4.10	(3.30)	3.47	(2.65)	4.66	(3.13)	16.38	(2.84)
In transit, truck	0.00	(0.00)	0.41	(0.33)	0.46	(0.35)	0.00	(0.00)	0.87	(0.15)
In transit, van	0.00	(0.00)	0.02	(0.02)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.09	(0.63)	0.73	(0.58)	1.20	(0.92)	0.72	(0.48)	3.73	(0.65)
Outdoors, along a roadway	4.68	(2.73)	7.02	(5.64)	11.67	(8.92)	4.52	(3.03)	27.90	(4.84)
In transit, motorcycle	0.12	(0.07)	0.12	(0.10)	0.08	(0.06)	0.19	(0.12)	0.51	(0.09)
Indoors, service station	0.00	(0.00)	0.06	(0.04)	0.06	(0.04)	0.00	(0.00)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.03	(0.03)	0.03	(0.03)	0.00	(0.00)	0.07	(0.01)
Indoors, home	118.48	(68.99)	81.91	(65.84)	83.24	(63.62)	102.81	(68.99)	386.45	(67.10)
Indoors, office	0.28	(0.16)	1.47	(1.18)	1.50	(1.14)	0.47	(0.31)	3.71	(0.64)
Indoors, store	1.09	(0.63)	1.12	(0.90)	1.84	(1.41)	1.00	(0.67)	5.05	(0.88)
Indoors, restaurant	2.01	(1.17)	0.48	(0.38)	0.30	(0.23)	1.30	(0.87)	4.09	(0.71)
Indoors, mfg. facility	3.03	(1.76)	0.93	(0.75)	0.49	(0.38)	1.59	(1.06)	6.04	(1.05)
Indoors, school	8.73	(5.08)	7.26	(5.84)	4.47	(3.42)	9.62	(6.46)	30.08	(5.22)
Indoors, church	2.67	(1.56)	1.36	(1.09)	1.49	(1.14)	2.16	(1.45)	7.69	(1.33)
Indoors, shopping mall	0.40	(0.23)	0.55	(0.44)	0.43	(0.33)	0.63	(0.43)	2.01	(0.35)
Indoors, auditorium	0.05	(0.03)	0.06	(0.04)	0.04	(0.03)	0.08	(0.05)	0.22	(0.04)
Indoors, health care facility	1.44	(0.84)	1.73	(1.39)	2.58	(1.97)	1.50	(1.01)	7.25	(1.26)
Indoors, public building	0.06	(0.04)	0.18	(0.14)	0.44	(0.34)	0.07	(0.05)	0.76	(0.13)
Indoors, other location	7.11	(4.14)	2.06	(1.66)	2.10	(1.61)	4.11	(2.76)	15.39	(2.67)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.69	(0.40)	2.01	(1.62)	2.96	(2.26)	0.97	(0.65)	6.63	(1.15)
Outdoors, school grounds	0.87	(0.51)	0.96	(0.77)	0.57	(0.44)	1.13	(0.76)	3.53	(0.61)
Outdoors, sports arena	0.27	(0.15)	0.32	(0.26)	0.25	(0.19)	0.45	(0.30)	1.29	(0.22)
Outdoors, park/golf course	0.00	(0.00)	0.10	(0.08)	0.07	(0.05)	0.00	(0.00)	0.17	(0.03)
Outdoors, other location	0.01	(0.01)	0.38	(0.30)	1.04	(0.79)	0.01	(0.00)	1.43	(0.25)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.26	(0.21)	0.27	(0.21)	0.00	(0.00)	0.53	(0.09)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.77	(7.55)	8.96	(7.07)	10.46	(7.36)	10.85	(7.01)	43.04	(7.26)
In transit, bus	3.12	(1.84)	3.18	(2.51)	3.08	(2.17)	3.55	(2.29)	12.92	(2.18)
In transit, truck	0.00	(0.00)	0.38	(0.30)	0.45	(0.32)	0.00	(0.00)	0.83	(0.14)
In transit, van	0.54	(0.32)	0.61	(0.48)	0.48	(0.34)	0.81	(0.52)	2.44	(0.41)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.02	(0.61)	0.82	(0.65)	1.27	(0.90)	0.82	(0.53)	3.94	(0.66)
Outdoors, along a roadway	8.28	(4.89)	11.37	(8.97)	15.38	(10.83)	10.11	(6.54)	45.14	(7.62)
In transit, motorcycle	0.09	(0.05)	0.09	(0.07)	0.07	(0.05)	0.14	(0.09)	0.38	(0.06)
Indoors, service station	0.00	(0.00)	0.05	(0.04)	0.06	(0.04)	0.00	(0.00)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.03	(0.02)	0.03	(0.02)	0.00	(0.00)	0.06	(0.01)
Indoors, home	118.85	(70.26)	81.83	(64.59)	88.52	(62.31)	106.11	(68.61)	395.31	(66.72)
Indoors, office	0.40	(0.23)	1.63	(1.28)	1.70	(1.19)	0.63	(0.40)	4.35	(0.73)
Indoors, store	0.95	(0.56)	1.20	(0.94)	1.94	(1.36)	0.96	(0.62)	5.04	(0.85)
Indoors, restaurant	1.84	(1.09)	0.55	(0.44)	0.39	(0.28)	1.34	(0.86)	4.12	(0.70)
Indoors, mfg. facility	2.56	(1.51)	0.84	(0.66)	0.49	(0.34)	1.42	(0.92)	5.30	(0.89)
Indoors, school	6.97	(4.12)	5.38	(4.25)	3.54	(2.49)	7.42	(4.80)	23.31	(3.93)
Indoors, church	2.18	(1.29)	1.38	(1.09)	1.66	(1.17)	2.05	(1.33)	7.27	(1.23)
Indoors, shopping mall	0.34	(0.20)	0.49	(0.39)	0.42	(0.30)	0.59	(0.38)	1.85	(0.31)
Indoors, auditorium	0.04	(0.02)	0.05	(0.04)	0.04	(0.03)	0.08	(0.05)	0.21	(0.04)
Indoors, health care facility	1.21	(0.72)	1.54	(1.21)	2.45	(1.73)	1.34	(0.87)	6.54	(1.10)
Indoors, public building	0.05	(0.03)	0.16	(0.13)	0.43	(0.30)	0.07	(0.05)	0.71	(0.12)
Indoors, other location	6.28	(3.71)	2.09	(1.65)	2.20	(1.55)	4.03	(2.61)	14.61	(2.47)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.74	(0.44)	2.21	(1.74)	4.46	(3.14)	1.02	(0.66)	8.43	(1.42)
Outdoors, school grounds	0.60	(0.35)	0.69	(0.55)	0.45	(0.32)	0.82	(0.53)	2.56	(0.43)
Outdoors, sports arena	0.23	(0.14)	0.31	(0.25)	0.26	(0.19)	0.42	(0.27)	1.23	(0.21)
Outdoors, park/golf course	0.00	(0.00)	0.09	(0.07)	0.07	(0.05)	0.00	(0.00)	0.16	(0.03)
Outdoors, other location	0.08	(0.04)	0.51	(0.40)	1.47	(1.04)	0.10	(0.06)	2.15	(0.36)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.25	(0.19)	0.27	(0.19)	0.00	(0.00)	0.52	(0.09)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.35	(4.64)	6.35	(5.75)	9.44	(7.91)	6.43	(4.66)	29.57	(5.62)
In transit, bus	2.49	(1.57)	1.23	(1.11)	0.65	(0.54)	2.00	(1.45)	6.37	(1.21)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.20	(0.19)	0.90	(0.75)	0.00	(0.00)	1.10	(0.21)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.83	(0.52)	1.07	(0.97)	1.07	(0.90)	1.01	(0.73)	3.98	(0.76)
Outdoors, along a roadway	7.33	(4.62)	6.29	(5.70)	6.67	(5.59)	7.35	(5.32)	27.64	(5.25)
In transit, motorcycle	0.00	(0.00)	0.07	(0.07)	0.22	(0.19)	0.00	(0.00)	0.29	(0.06)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.03	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	120.71	(76.16)	81.80	(74.08)	85.74	(71.84)	105.06	(76.08)	393.31	(74.72)
Indoors, office	0.38	(0.24)	0.10	(0.09)	0.10	(0.08)	0.22	(0.16)	0.81	(0.15)
Indoors, store	2.85	(1.80)	2.24	(2.03)	4.18	(3.50)	1.98	(1.44)	11.25	(2.14)
Indoors, restaurant	3.14	(1.98)	0.84	(0.76)	0.67	(0.56)	2.05	(1.48)	6.70	(1.27)
Indoors, mfg. facility	1.59	(1.00)	1.12	(1.01)	0.76	(0.64)	0.83	(0.60)	4.30	(0.82)
Indoors, school	7.37	(4.65)	4.42	(4.00)	2.24	(1.87)	6.87	(4.97)	20.89	(3.97)
Indoors, church	0.35	(0.22)	0.24	(0.22)	0.16	(0.13)	0.42	(0.30)	1.17	(0.22)
Indoors, shopping mall	0.73	(0.46)	0.74	(0.67)	0.43	(0.36)	0.94	(0.68)	2.84	(0.54)
Indoors, auditorium	0.09	(0.06)	0.13	(0.12)	0.19	(0.16)	0.14	(0.10)	0.55	(0.10)
Indoors, health care facility	0.29	(0.19)	0.33	(0.30)	0.34	(0.29)	0.37	(0.27)	1.34	(0.25)
Indoors, public building	0.53	(0.34)	0.16	(0.14)	0.07	(0.06)	0.32	(0.23)	1.08	(0.21)
Indoors, other location	1.19	(0.75)	1.03	(0.93)	1.08	(0.91)	0.94	(0.68)	4.24	(0.81)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.94	(0.60)	1.10	(0.99)	1.60	(1.34)	0.87	(0.63)	4.51	(0.86)
Outdoors, school grounds	0.18	(0.11)	0.18	(0.16)	0.11	(0.09)	0.23	(0.16)	0.69	(0.13)
Outdoors, sports arena	0.00	(0.00)	0.14	(0.12)	0.30	(0.25)	0.00	(0.00)	0.44	(0.08)
Outdoors, park/golf course	0.13	(0.08)	0.09	(0.08)	0.22	(0.19)	0.06	(0.04)	0.50	(0.09)
Outdoors, other location	0.01	(0.01)	0.56	(0.50)	2.19	(1.83)	0.01	(0.01)	2.77	(0.53)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.15	(7.62)	8.81	(8.21)	10.36	(8.73)	11.09	(8.00)	42.42	(8.09)
In transit, bus	1.14	(0.71)	0.92	(0.85)	0.64	(0.54)	1.19	(0.86)	3.89	(0.74)
In transit, truck	0.67	(0.42)	1.25	(1.17)	1.04	(0.88)	0.70	(0.51)	3.68	(0.70)
In transit, van	0.09	(0.06)	0.13	(0.12)	0.13	(0.11)	0.15	(0.11)	0.51	(0.10)
Indoors, public garage	0.00	(0.00)	0.03	(0.03)	0.12	(0.10)	0.00	(0.00)	0.16	(0.03)
Outdoors, in a parking lot	2.17	(1.36)	1.04	(0.97)	1.47	(1.24)	1.49	(1.07)	6.16	(1.18)
Outdoors, along a roadway	7.78	(4.88)	7.35	(6.85)	11.08	(9.33)	7.00	(5.05)	33.20	(6.34)
In transit, motorcycle	0.00	(0.00)	0.53	(0.50)	1.45	(1.22)	0.00	(0.00)	1.98	(0.38)
Indoors, service station	0.00	(0.00)	0.05	(0.04)	0.13	(0.11)	0.01	(0.00)	0.18	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.15	(0.10)	0.11	(0.11)	0.08	(0.07)	0.17	(0.12)	0.52	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, home	100.37	(62.93)	64.82	(60.44)	71.15	(59.95)	87.01	(62.76)	323.35	(61.70)
Indoors, office	3.48	(2.18)	2.39	(2.23)	2.08	(1.75)	3.00	(2.16)	10.95	(2.09)
Indoors, store	2.39	(1.50)	2.08	(1.94)	2.74	(2.31)	2.23	(1.61)	9.44	(1.80)
Indoors, restaurant	6.70	(4.20)	3.10	(2.89)	2.43	(2.04)	5.47	(3.94)	17.69	(3.38)
Indoors, mfg. facility	3.21	(2.01)	1.80	(1.68)	1.19	(1.01)	2.59	(1.87)	8.79	(1.68)
Indoors, school	9.13	(5.72)	4.45	(4.15)	2.48	(2.09)	7.20	(5.19)	23.25	(4.44)
Indoors, church	0.70	(0.44)	0.51	(0.48)	0.52	(0.44)	0.69	(0.50)	2.42	(0.46)
Indoors, shopping mall	1.70	(1.06)	0.67	(0.63)	0.35	(0.30)	1.17	(0.85)	3.89	(0.74)
Indoors, auditorium	0.04	(0.02)	0.05	(0.04)	0.06	(0.05)	0.06	(0.04)	0.21	(0.04)
Indoors, health care facility	1.94	(1.21)	0.99	(0.92)	1.28	(1.08)	1.60	(1.16)	5.80	(1.11)
Indoors, public building	0.31	(0.19)	0.11	(0.10)	0.08	(0.07)	0.19	(0.14)	0.69	(0.13)
Indoors, other location	2.85	(1.79)	2.66	(2.48)	2.10	(1.77)	3.18	(2.30)	10.79	(2.06)
Indoors, not specified	0.02	(0.01)	0.03	(0.03)	0.04	(0.03)	0.01	(0.01)	0.10	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.25	(0.79)	1.73	(1.61)	3.14	(2.65)	1.26	(0.91)	7.39	(1.41)
Outdoors, school grounds	1.06	(0.67)	0.80	(0.75)	0.57	(0.48)	1.01	(0.73)	3.45	(0.66)
Outdoors, sports arena	0.00	(0.00)	0.14	(0.13)	0.26	(0.22)	0.00	(0.00)	0.40	(0.08)
Outdoors, park/golf course	0.07	(0.05)	0.34	(0.32)	1.11	(0.94)	0.10	(0.08)	1.63	(0.31)
Outdoors, other location	0.00	(0.00)	0.33	(0.31)	0.58	(0.49)	0.00	(0.00)	0.91	(0.17)
Outdoors, not specified	0.10	(0.07)	0.02	(0.01)	0.00	(0.00)	0.06	(0.04)	0.18	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.38	(9.20)	9.60	(9.45)	11.69	(10.02)	12.61	(9.32)	48.29	(9.47)
In transit, bus	2.36	(1.51)	1.01	(0.99)	0.75	(0.64)	1.80	(1.33)	5.93	(1.16)
In transit, truck	0.59	(0.38)	0.64	(0.63)	0.52	(0.45)	0.66	(0.49)	2.41	(0.47)
In transit, van	1.37	(0.88)	0.94	(0.93)	1.00	(0.86)	1.30	(0.96)	4.62	(0.91)
Indoors, public garage	0.65	(0.42)	0.20	(0.19)	0.09	(0.08)	0.48	(0.35)	1.41	(0.28)
Outdoors, in a parking lot	1.04	(0.66)	0.72	(0.71)	0.90	(0.77)	0.87	(0.64)	3.52	(0.69)
Outdoors, along a roadway	7.19	(4.60)	6.98	(6.87)	10.02	(8.58)	7.24	(5.35)	31.43	(6.16)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, service station	0.07	(0.04)	0.04	(0.04)	0.03	(0.03)	0.06	(0.04)	0.20	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.19	(0.12)	0.08	(0.08)	0.06	(0.05)	0.17	(0.13)	0.50	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	96.15	(61.51)	59.30	(58.32)	66.10	(56.64)	82.53	(61.00)	304.08	(59.63)
Indoors, office	5.15	(3.29)	3.68	(3.62)	4.03	(3.46)	4.49	(3.32)	17.35	(3.40)
Indoors, store	2.86	(1.83)	1.86	(1.83)	2.29	(1.96)	2.22	(1.64)	9.23	(1.81)
Indoors, restaurant	2.49	(1.60)	1.56	(1.53)	1.91	(1.64)	2.14	(1.58)	8.11	(1.59)
Indoors, mfg. facility	2.12	(1.35)	1.51	(1.49)	1.58	(1.36)	1.78	(1.31)	6.99	(1.37)
Indoors, school	8.49	(5.43)	4.25	(4.18)	2.80	(2.40)	6.78	(5.01)	22.32	(4.38)
Indoors, church	1.19	(0.76)	0.58	(0.57)	0.55	(0.48)	1.04	(0.77)	3.36	(0.66)
Indoors, shopping mall	1.05	(0.67)	0.49	(0.48)	0.52	(0.44)	0.82	(0.61)	2.87	(0.56)
Indoors, auditorium	0.12	(0.08)	0.08	(0.08)	0.09	(0.07)	0.14	(0.10)	0.43	(0.08)
Indoors, health care facility	0.99	(0.63)	0.64	(0.63)	0.51	(0.44)	0.92	(0.68)	3.06	(0.60)
Indoors, public building	0.38	(0.24)	0.41	(0.40)	0.64	(0.55)	0.37	(0.28)	1.80	(0.35)
Indoors, other location	3.61	(2.31)	2.22	(2.18)	2.19	(1.88)	3.10	(2.29)	11.12	(2.18)
Indoors, not specified	0.06	(0.04)	0.04	(0.04)	0.09	(0.08)	0.03	(0.02)	0.23	(0.05)
Outdoors, construction	0.77	(0.49)	0.60	(0.59)	0.49	(0.42)	0.71	(0.52)	2.57	(0.50)
Outdoors, residential grounds	1.43	(0.91)	2.27	(2.24)	4.12	(3.53)	1.57	(1.16)	9.39	(1.84)
Outdoors, school grounds	0.89	(0.57)	0.60	(0.59)	0.47	(0.40)	0.80	(0.59)	2.76	(0.54)
Outdoors, sports arena	0.01	(0.01)	0.09	(0.09)	0.23	(0.20)	0.01	(0.01)	0.34	(0.07)
Outdoors, park/golf course	0.17	(0.11)	0.31	(0.31)	0.52	(0.45)	0.19	(0.14)	1.19	(0.23)
Outdoors, other location	0.56	(0.36)	0.92	(0.91)	2.42	(2.07)	0.48	(0.36)	4.37	(0.86)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.04	(0.04)	0.04	(0.04)	0.00	(0.00)	0.08	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.81	(11.44)	11.71	(11.64)	13.90	(11.85)	15.90	(11.75)	59.33	(11.65)
In transit, bus	2.37	(1.52)	1.35	(1.34)	0.85	(0.73)	2.22	(1.64)	6.80	(1.34)
In transit, truck	0.30	(0.19)	0.56	(0.56)	1.33	(1.13)	0.35	(0.26)	2.54	(0.50)
In transit, van	0.01	(0.00)	0.14	(0.14)	0.35	(0.30)	0.01	(0.01)	0.50	(0.10)
Indoors, public garage	0.04	(0.02)	0.02	(0.02)	0.03	(0.03)	0.03	(0.03)	0.13	(0.03)
Outdoors, in a parking lot	0.98	(0.63)	0.68	(0.67)	0.76	(0.65)	0.89	(0.66)	3.31	(0.65)
Outdoors, along a roadway	7.06	(4.53)	5.79	(5.75)	9.25	(7.88)	6.31	(4.66)	28.40	(5.58)
In transit, motorcycle	0.21	(0.13)	0.02	(0.02)	0.00	(0.00)	0.12	(0.09)	0.35	(0.07)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.02)	0.06	(0.06)	0.04	(0.04)	0.03	(0.02)	0.15	(0.03)
Indoors, in a repair shop	0.02	(0.01)	0.02	(0.02)	0.01	(0.01)	0.03	(0.02)	0.09	(0.02)
Indoors, home	90.58	(58.18)	55.00	(54.66)	61.88	(52.73)	77.98	(57.62)	285.44	(56.08)
Indoors, office	8.25	(5.30)	5.11	(5.07)	5.57	(4.74)	6.56	(4.85)	25.48	(5.01)
Indoors, store	3.17	(2.04)	1.96	(1.95)	2.26	(1.93)	2.58	(1.90)	9.97	(1.96)
Indoors, restaurant	2.85	(1.83)	2.19	(2.18)	2.77	(2.36)	2.69	(1.99)	10.50	(2.06)
Indoors, mfg. facility	2.45	(1.58)	1.41	(1.40)	1.28	(1.09)	2.00	(1.48)	7.14	(1.40)
Indoors, school	10.45	(6.71)	5.48	(5.44)	3.00	(2.56)	9.22	(6.81)	28.14	(5.53)
Indoors, church	0.39	(0.25)	0.34	(0.34)	0.35	(0.30)	0.39	(0.29)	1.48	(0.29)
Indoors, shopping mall	0.94	(0.61)	1.03	(1.03)	1.13	(0.97)	1.04	(0.77)	4.15	(0.82)
Indoors, auditorium	0.07	(0.05)	0.10	(0.10)	0.19	(0.16)	0.07	(0.05)	0.43	(0.09)
Indoors, health care facility	0.99	(0.64)	0.69	(0.68)	0.90	(0.76)	0.90	(0.66)	3.48	(0.68)
Indoors, public building	0.26	(0.17)	0.23	(0.23)	0.24	(0.20)	0.28	(0.21)	1.01	(0.20)
Indoors, other location	3.56	(2.29)	2.02	(2.01)	1.92	(1.64)	2.95	(2.18)	10.45	(2.05)
Indoors, not specified	0.06	(0.04)	0.03	(0.03)	0.02	(0.02)	0.05	(0.04)	0.16	(0.03)
Outdoors, construction	0.00	(0.00)	0.05	(0.05)	0.06	(0.05)	0.00	(0.00)	0.10	(0.02)
Outdoors, residential grounds	1.50	(0.96)	2.29	(2.27)	5.63	(4.79)	1.33	(0.98)	10.74	(2.11)
Outdoors, school grounds	0.96	(0.61)	0.62	(0.62)	0.44	(0.38)	0.93	(0.69)	2.95	(0.58)
Outdoors, sports arena	0.07	(0.04)	0.20	(0.20)	0.30	(0.26)	0.09	(0.07)	0.67	(0.13)
Outdoors, park/golf course	0.23	(0.15)	0.48	(0.48)	1.16	(0.99)	0.31	(0.23)	2.18	(0.43)
Outdoors, other location	0.08	(0.05)	1.04	(1.03)	1.71	(1.45)	0.09	(0.06)	2.91	(0.57)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.25	(6.03)	7.99	(8.11)	11.10	(9.55)	8.69	(6.53)	37.02	(7.39)
In transit, bus	1.20	(0.78)	0.17	(0.17)	0.23	(0.20)	0.62	(0.46)	2.22	(0.44)
In transit, truck	4.16	(2.71)	1.62	(1.65)	0.92	(0.79)	3.32	(2.50)	10.03	(2.00)
In transit, van	0.78	(0.51)	0.82	(0.83)	0.68	(0.58)	1.23	(0.93)	3.51	(0.70)
Indoors, public garage	0.00	(0.00)	0.03	(0.03)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Outdoors, in a parking lot	0.37	(0.24)	0.57	(0.58)	1.13	(0.97)	0.32	(0.24)	2.40	(0.48)
Outdoors, along a roadway	7.51	(4.90)	5.53	(5.61)	8.31	(7.15)	6.70	(5.03)	28.05	(5.60)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	2.36	(1.54)	0.27	(0.27)	0.00	(0.00)	1.23	(0.92)	3.86	(0.77)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	92.18	(60.06)	57.00	(57.86)	63.52	(54.66)	80.22	(60.31)	292.92	(58.43)
Indoors, office	4.94	(3.22)	3.92	(3.98)	4.61	(3.96)	3.72	(2.80)	17.18	(3.43)
Indoors, store	0.11	(0.07)	0.60	(0.61)	1.00	(0.86)	0.14	(0.11)	1.85	(0.37)
Indoors, restaurant	4.22	(2.75)	3.12	(3.17)	3.99	(3.43)	3.58	(2.69)	14.92	(2.98)
Indoors, mfg. facility	0.00	(0.00)	0.07	(0.07)	0.08	(0.07)	0.00	(0.00)	0.15	(0.03)
Indoors, school	16.52	(10.76)	6.59	(6.69)	6.62	(5.69)	12.08	(9.08)	41.81	(8.34)
Indoors, church	0.53	(0.35)	0.29	(0.29)	0.27	(0.23)	0.38	(0.29)	1.47	(0.29)
Indoors, shopping mall	0.15	(0.10)	0.15	(0.15)	0.10	(0.09)	0.19	(0.14)	0.58	(0.12)
Indoors, auditorium	0.27	(0.17)	0.26	(0.27)	0.23	(0.20)	0.41	(0.31)	1.18	(0.23)
Indoors, health care facility	0.81	(0.52)	0.42	(0.42)	0.27	(0.23)	0.77	(0.58)	2.26	(0.45)
Indoors, public building	0.00	(0.00)	0.18	(0.18)	0.77	(0.66)	0.00	(0.00)	0.94	(0.19)
Indoors, other location	1.76	(1.15)	2.49	(2.52)	2.72	(2.34)	2.95	(2.22)	9.91	(1.98)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.22	(0.22)	0.26	(0.22)	0.00	(0.00)	0.48	(0.10)
Outdoors, residential grounds	4.96	(3.23)	3.64	(3.69)	4.81	(4.14)	4.61	(3.46)	18.01	(3.59)
Outdoors, school grounds	0.90	(0.59)	0.98	(0.99)	0.93	(0.80)	1.22	(0.92)	4.04	(0.81)
Outdoors, sports arena	0.00	(0.00)	0.05	(0.05)	0.23	(0.20)	0.00	(0.00)	0.27	(0.05)
Outdoors, park/golf course	0.50	(0.32)	1.01	(1.02)	1.83	(1.58)	0.63	(0.47)	3.97	(0.79)
Outdoors, other location	0.00	(0.00)	0.53	(0.54)	1.57	(1.35)	0.00	(0.00)	2.11	(0.42)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.48	(6.00)	6.92	(6.56)	9.17	(7.63)	8.45	(6.15)	34.02	(6.53)
In transit, bus	4.04	(2.56)	2.16	(2.05)	1.31	(1.09)	3.55	(2.58)	11.06	(2.12)
In transit, truck	0.31	(0.20)	0.19	(0.18)	0.34	(0.28)	0.21	(0.16)	1.05	(0.20)
In transit, van	0.84	(0.53)	0.69	(0.65)	0.66	(0.55)	1.01	(0.74)	3.21	(0.62)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.59	(0.37)	0.47	(0.44)	0.65	(0.54)	0.49	(0.36)	2.19	(0.42)
Outdoors, along a roadway	9.79	(6.19)	9.04	(8.58)	14.03	(11.67)	8.88	(6.46)	41.73	(8.01)
In transit, motorcycle	0.16	(0.10)	0.04	(0.03)	0.04	(0.03)	0.10	(0.08)	0.34	(0.06)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.10	(0.06)	0.10	(0.09)	0.08	(0.07)	0.14	(0.10)	0.41	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	98.39	(62.25)	63.11	(59.87)	69.84	(58.12)	85.42	(62.15)	316.76	(60.79)
Indoors, office	0.10	(0.06)	0.20	(0.19)	0.38	(0.31)	0.09	(0.06)	0.77	(0.15)
Indoors, store	1.57	(1.00)	1.09	(1.03)	1.30	(1.08)	1.37	(1.00)	5.33	(1.02)
Indoors, restaurant	1.24	(0.78)	1.13	(1.08)	1.56	(1.30)	1.16	(0.85)	5.09	(0.98)
Indoors, mfg. facility	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.02)	0.06	(0.01)
Indoors, school	22.98	(14.54)	11.45	(10.86)	7.30	(6.07)	18.64	(13.56)	60.37	(11.58)
Indoors, church	0.66	(0.41)	0.39	(0.37)	0.43	(0.35)	0.56	(0.41)	2.03	(0.39)
Indoors, shopping mall	0.84	(0.53)	0.61	(0.58)	0.58	(0.48)	0.74	(0.54)	2.77	(0.53)
Indoors, auditorium	0.10	(0.06)	0.09	(0.09)	0.11	(0.09)	0.14	(0.10)	0.44	(0.08)
Indoors, health care facility	0.65	(0.41)	0.43	(0.41)	0.54	(0.45)	0.62	(0.45)	2.24	(0.43)
Indoors, public building	0.14	(0.09)	0.16	(0.15)	0.29	(0.24)	0.14	(0.10)	0.72	(0.14)
Indoors, other location	0.85	(0.54)	0.71	(0.67)	1.19	(0.99)	0.80	(0.58)	3.54	(0.68)
Indoors, not specified	0.00	(0.00)	0.02	(0.02)	0.03	(0.03)	0.00	(0.00)	0.05	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.58	(1.63)	3.14	(2.98)	5.54	(4.61)	2.42	(1.76)	13.68	(2.62)
Outdoors, school grounds	2.32	(1.47)	1.61	(1.53)	1.17	(0.97)	2.07	(1.50)	7.17	(1.38)
Outdoors, sports arena	0.15	(0.09)	0.21	(0.20)	0.36	(0.30)	0.16	(0.12)	0.88	(0.17)
Outdoors, park/golf course	0.14	(0.09)	0.52	(0.49)	0.99	(0.83)	0.17	(0.12)	1.82	(0.35)
Outdoors, other location	0.02	(0.01)	0.89	(0.84)	2.27	(1.89)	0.03	(0.02)	3.20	(0.62)
Outdoors, not specified	0.03	(0.02)	0.03	(0.03)	0.03	(0.02)	0.05	(0.03)	0.14	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	24.14	(14.26)	13.09	(11.65)	16.39	(12.98)	18.63	(12.75)	72.25	(13.04)
In transit, bus	0.88	(0.52)	0.11	(0.09)	0.00	(0.00)	0.45	(0.31)	1.43	(0.26)
In transit, truck	1.67	(0.98)	2.86	(2.55)	6.62	(5.25)	1.80	(1.23)	12.95	(2.34)
In transit, van	0.00	(0.00)	0.44	(0.39)	1.23	(0.97)	0.00	(0.00)	1.67	(0.30)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.89	(0.53)	0.97	(0.87)	1.23	(0.98)	0.97	(0.66)	4.07	(0.74)
Outdoors, along a roadway	15.59	(9.21)	11.19	(9.95)	8.82	(6.99)	15.38	(10.52)	50.97	(9.20)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.01)	0.03	(0.03)	0.03	(0.02)	0.03	(0.02)	0.10	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	98.26	(58.05)	60.86	(54.15)	60.42	(47.86)	85.34	(58.37)	304.88	(55.04)
Indoors, office	4.18	(2.47)	4.63	(4.12)	3.69	(2.92)	3.71	(2.54)	16.21	(2.93)
Indoors, store	0.69	(0.41)	0.60	(0.53)	0.50	(0.39)	0.67	(0.46)	2.46	(0.44)
Indoors, restaurant	2.39	(1.41)	1.21	(1.08)	0.86	(0.68)	1.83	(1.26)	6.31	(1.14)
Indoors, mfg. facility	0.00	(0.00)	1.69	(1.51)	5.77	(4.57)	0.00	(0.00)	7.47	(1.35)
Indoors, school	10.70	(6.32)	4.47	(3.98)	2.14	(1.70)	8.38	(5.73)	25.69	(4.64)
Indoors, church	0.10	(0.06)	0.29	(0.26)	0.40	(0.32)	0.15	(0.10)	0.94	(0.17)
Indoors, shopping mall	0.41	(0.24)	0.32	(0.29)	0.21	(0.17)	0.61	(0.42)	1.55	(0.28)
Indoors, auditorium	0.04	(0.02)	0.25	(0.22)	0.82	(0.65)	0.02	(0.02)	1.14	(0.20)
Indoors, health care facility	0.33	(0.20)	0.23	(0.21)	0.16	(0.12)	0.32	(0.22)	1.04	(0.19)
Indoors, public building	1.37	(0.81)	0.81	(0.72)	0.50	(0.40)	1.53	(1.05)	4.21	(0.76)
Indoors, other location	5.00	(2.95)	2.52	(2.24)	1.94	(1.54)	3.82	(2.61)	13.28	(2.40)
Indoors, not specified	0.02	(0.01)	0.02	(0.01)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Outdoors, construction	0.00	(0.00)	0.57	(0.50)	0.65	(0.52)	0.00	(0.00)	1.22	(0.22)
Outdoors, residential grounds	0.66	(0.39)	1.24	(1.10)	1.88	(1.49)	0.69	(0.47)	4.47	(0.81)
Outdoors, school grounds	1.04	(0.61)	1.00	(0.89)	0.59	(0.47)	1.33	(0.91)	3.96	(0.72)
Outdoors, sports arena	0.25	(0.15)	0.37	(0.33)	1.27	(1.01)	0.12	(0.08)	2.01	(0.36)
Outdoors, park/golf course	0.15	(0.09)	0.23	(0.20)	0.23	(0.18)	0.10	(0.07)	0.71	(0.13)
Outdoors, other location	0.16	(0.09)	2.34	(2.08)	9.87	(7.82)	0.08	(0.06)	12.45	(2.25)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.33	(0.19)	0.03	(0.03)	0.00	(0.00)	0.20	(0.14)	0.56	(0.10)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.25	(13.43)	14.12	(13.15)	15.63	(12.90)	19.44	(13.62)	71.44	(13.30)
In transit, bus	0.34	(0.21)	0.34	(0.32)	0.40	(0.33)	0.22	(0.15)	1.30	(0.24)
In transit, truck	3.78	(2.28)	2.49	(2.32)	2.41	(1.99)	2.96	(2.08)	11.64	(2.17)
In transit, van	1.10	(0.66)	0.87	(0.81)	1.38	(1.14)	0.99	(0.69)	4.34	(0.81)
Indoors, public garage	1.43	(0.86)	0.78	(0.73)	0.59	(0.49)	1.28	(0.89)	4.08	(0.76)
Outdoors, in a parking lot	1.29	(0.78)	1.01	(0.94)	1.14	(0.94)	1.11	(0.78)	4.55	(0.85)
Outdoors, along a roadway	7.16	(4.32)	6.33	(5.90)	7.97	(6.58)	7.07	(4.95)	28.53	(5.31)
In transit, motorcycle	0.00	(0.00)	0.06	(0.05)	0.06	(0.05)	0.00	(0.00)	0.11	(0.02)
Indoors, service station	2.14	(1.29)	0.87	(0.81)	0.56	(0.46)	1.63	(1.14)	5.20	(0.97)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.53	(0.32)	0.37	(0.34)	0.29	(0.24)	0.65	(0.46)	1.84	(0.34)
Indoors, in a repair shop	1.61	(0.97)	0.20	(0.19)	0.01	(0.01)	0.81	(0.57)	2.62	(0.49)
Indoors, home	84.02	(50.70)	52.15	(48.57)	56.87	(46.91)	73.40	(51.43)	266.44	(49.62)
Indoors, office	15.35	(9.27)	8.73	(8.13)	10.07	(8.31)	12.22	(8.56)	46.38	(8.64)
Indoors, store	2.69	(1.62)	1.97	(1.83)	2.74	(2.26)	2.04	(1.43)	9.43	(1.76)
Indoors, restaurant	4.25	(2.56)	2.39	(2.22)	2.07	(1.70)	3.24	(2.27)	11.94	(2.22)
Indoors, mfg. facility	2.98	(1.80)	2.83	(2.63)	3.55	(2.93)	2.64	(1.85)	11.99	(2.23)
Indoors, school	1.61	(0.97)	0.84	(0.78)	0.71	(0.59)	1.34	(0.94)	4.50	(0.84)
Indoors, church	0.55	(0.33)	0.39	(0.36)	0.36	(0.30)	0.58	(0.41)	1.88	(0.35)
Indoors, shopping mall	0.54	(0.32)	0.27	(0.25)	0.24	(0.19)	0.44	(0.31)	1.48	(0.27)
Indoors, auditorium	0.15	(0.09)	0.03	(0.03)	0.07	(0.06)	0.09	(0.06)	0.35	(0.06)
Indoors, health care facility	0.90	(0.54)	0.70	(0.66)	0.82	(0.68)	0.83	(0.58)	3.25	(0.60)
Indoors, public building	0.36	(0.22)	0.46	(0.43)	1.08	(0.89)	0.26	(0.18)	2.15	(0.40)
Indoors, other location	5.89	(3.55)	3.99	(3.72)	4.03	(3.33)	4.80	(3.36)	18.71	(3.48)
Indoors, not specified	0.73	(0.44)	0.16	(0.15)	0.06	(0.05)	0.44	(0.31)	1.38	(0.26)
Outdoors, construction	1.12	(0.68)	1.03	(0.96)	0.78	(0.64)	1.13	(0.79)	4.07	(0.76)
Outdoors, residential grounds	0.66	(0.40)	1.31	(1.22)	3.58	(2.96)	0.71	(0.50)	6.27	(1.17)
Outdoors, school grounds	0.13	(0.08)	0.10	(0.10)	0.08	(0.07)	0.13	(0.09)	0.44	(0.08)
Outdoors, sports arena	0.05	(0.03)	0.13	(0.13)	0.22	(0.18)	0.03	(0.02)	0.44	(0.08)
Outdoors, park/golf course	0.16	(0.10)	0.32	(0.30)	0.61	(0.50)	0.22	(0.15)	1.32	(0.25)
Outdoors, other location	1.69	(1.02)	1.95	(1.82)	2.72	(2.24)	1.85	(1.30)	8.22	(1.53)
Outdoors, not specified	0.02	(0.01)	0.07	(0.06)	0.04	(0.03)	0.03	(0.02)	0.15	(0.03)
In transit, train	0.24	(0.14)	0.10	(0.10)	0.09	(0.08)	0.14	(0.10)	0.57	(0.11)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.28	(10.49)	10.79	(10.48)	13.00	(11.25)	14.32	(10.67)	54.38	(10.71)
In transit, bus	0.99	(0.64)	0.31	(0.31)	0.34	(0.29)	0.62	(0.46)	2.26	(0.45)
In transit, truck	1.43	(0.92)	0.17	(0.16)	0.00	(0.00)	0.73	(0.54)	2.32	(0.46)
In transit, van	0.03	(0.02)	0.08	(0.08)	0.18	(0.16)	0.05	(0.04)	0.34	(0.07)
Indoors, public garage	0.05	(0.03)	0.03	(0.03)	0.02	(0.01)	0.05	(0.04)	0.14	(0.03)
Outdoors, in a parking lot	0.50	(0.32)	0.57	(0.56)	0.86	(0.74)	0.47	(0.35)	2.41	(0.47)
Outdoors, along a roadway	4.99	(3.22)	4.99	(4.84)	7.38	(6.39)	4.71	(3.51)	22.07	(4.34)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.13	(0.09)	0.02	(0.02)	0.01	(0.01)	0.08	(0.06)	0.24	(0.05)
Indoors, in a repair shop	0.04	(0.03)	0.04	(0.04)	0.02	(0.02)	0.05	(0.04)	0.16	(0.03)
Indoors, home	114.25	(73.66)	72.13	(70.07)	76.89	(66.53)	97.70	(72.75)	360.97	(71.06)
Indoors, office	0.72	(0.46)	0.30	(0.29)	0.26	(0.22)	0.42	(0.32)	1.70	(0.34)
Indoors, store	2.46	(1.59)	2.39	(2.32)	3.67	(3.17)	2.04	(1.52)	10.56	(2.08)
Indoors, restaurant	2.77	(1.78)	1.77	(1.72)	1.76	(1.52)	2.43	(1.81)	8.72	(1.72)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	2.74	(1.77)	2.35	(2.28)	1.85	(1.60)	3.29	(2.45)	10.23	(2.01)
Indoors, church	0.53	(0.34)	0.39	(0.38)	0.41	(0.36)	0.57	(0.42)	1.89	(0.37)
Indoors, shopping mall	1.03	(0.66)	0.49	(0.47)	0.59	(0.51)	0.50	(0.37)	2.61	(0.51)
Indoors, auditorium	0.27	(0.17)	0.18	(0.17)	0.22	(0.19)	0.27	(0.20)	0.94	(0.18)
Indoors, health care facility	0.37	(0.24)	0.34	(0.33)	0.37	(0.32)	0.38	(0.28)	1.46	(0.29)
Indoors, public building	0.39	(0.25)	0.18	(0.17)	0.22	(0.19)	0.30	(0.22)	1.09	(0.21)
Indoors, other location	3.67	(2.36)	2.59	(2.51)	2.28	(1.97)	3.61	(2.69)	12.14	(2.39)
Indoors, not specified	0.00	(0.00)	0.02	(0.02)	0.08	(0.07)	0.00	(0.00)	0.10	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.85	(0.55)	1.47	(1.43)	2.18	(1.88)	1.07	(0.80)	5.57	(1.10)
Outdoors, school grounds	0.23	(0.15)	0.28	(0.27)	0.33	(0.29)	0.33	(0.24)	1.17	(0.23)
Outdoors, sports arena	0.17	(0.11)	0.09	(0.09)	0.23	(0.19)	0.08	(0.06)	0.57	(0.11)
Outdoors, park/golf course	0.06	(0.04)	0.41	(0.40)	1.04	(0.90)	0.09	(0.07)	1.60	(0.31)
Outdoors, other location	0.12	(0.08)	0.57	(0.55)	1.38	(1.20)	0.11	(0.08)	2.18	(0.43)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.05	(0.03)	0.01	(0.00)	0.00	(0.00)	0.03	(0.02)	0.08	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.94	(13.22)	12.31	(12.03)	14.15	(12.06)	17.40	(12.80)	64.80	(12.61)
In transit, bus	1.47	(0.93)	0.87	(0.85)	0.87	(0.74)	1.24	(0.92)	4.45	(0.87)
In transit, truck	1.01	(0.63)	0.67	(0.65)	0.82	(0.70)	0.96	(0.70)	3.45	(0.67)
In transit, van	0.01	(0.01)	0.15	(0.14)	0.14	(0.12)	0.01	(0.00)	0.30	(0.06)
Indoors, public garage	0.33	(0.21)	0.12	(0.11)	0.07	(0.06)	0.23	(0.17)	0.74	(0.14)
Outdoors, in a parking lot	0.60	(0.38)	0.63	(0.61)	0.93	(0.79)	0.60	(0.44)	2.76	(0.54)
Outdoors, along a roadway	4.77	(3.01)	4.24	(4.14)	6.03	(5.14)	4.34	(3.19)	19.38	(3.77)
In transit, motorcycle	0.00	(0.00)	0.46	(0.45)	1.17	(1.00)	0.00	(0.00)	1.64	(0.32)
Indoors, service station	0.02	(0.01)	0.02	(0.02)	0.01	(0.01)	0.02	(0.02)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
Indoors, in a repair shop	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	88.01	(55.57)	56.43	(55.15)	63.57	(54.17)	76.82	(56.49)	284.83	(55.41)
Indoors, office	16.28	(10.28)	10.29	(10.06)	9.93	(8.46)	13.33	(9.80)	49.83	(9.69)
Indoors, store	4.35	(2.75)	3.03	(2.97)	3.11	(2.65)	3.95	(2.90)	14.44	(2.81)
Indoors, restaurant	5.23	(3.30)	2.88	(2.81)	3.41	(2.91)	4.01	(2.95)	15.53	(3.02)
Indoors, mfg. facility	1.30	(0.82)	0.86	(0.84)	0.52	(0.45)	1.18	(0.87)	3.86	(0.75)
Indoors, school	4.22	(2.66)	2.12	(2.07)	1.27	(1.08)	3.48	(2.56)	11.08	(2.16)
Indoors, church	0.69	(0.43)	0.47	(0.46)	0.51	(0.44)	0.69	(0.51)	2.36	(0.46)
Indoors, shopping mall	1.28	(0.81)	0.60	(0.58)	0.46	(0.39)	1.09	(0.80)	3.42	(0.67)
Indoors, auditorium	0.11	(0.07)	0.08	(0.08)	0.14	(0.12)	0.10	(0.08)	0.42	(0.08)
Indoors, health care facility	1.83	(1.15)	1.02	(1.00)	0.98	(0.84)	1.58	(1.16)	5.41	(1.05)
Indoors, public building	0.37	(0.23)	0.26	(0.26)	0.44	(0.37)	0.30	(0.22)	1.37	(0.27)
Indoors, other location	4.83	(3.05)	2.63	(2.57)	2.53	(2.15)	3.87	(2.84)	13.85	(2.69)
Indoors, not specified	0.06	(0.04)	0.03	(0.03)	0.02	(0.01)	0.06	(0.04)	0.17	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.32	(0.20)	1.03	(1.00)	2.86	(2.43)	0.37	(0.27)	4.58	(0.89)
Outdoors, school grounds	0.09	(0.06)	0.16	(0.16)	0.19	(0.16)	0.12	(0.09)	0.56	(0.11)
Outdoors, sports arena	0.01	(0.01)	0.16	(0.16)	0.30	(0.26)	0.01	(0.01)	0.49	(0.10)
Outdoors, park/golf course	0.06	(0.04)	0.20	(0.20)	0.67	(0.57)	0.07	(0.05)	1.00	(0.19)
Outdoors, other location	0.07	(0.04)	0.56	(0.55)	2.19	(1.87)	0.05	(0.04)	2.88	(0.56)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.10	(0.06)	0.07	(0.06)	0.04	(0.03)	0.11	(0.08)	0.31	(0.06)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.45	(9.96)	11.33	(10.62)	12.25	(10.17)	13.38	(9.97)	52.41	(10.15)
In transit, bus	1.01	(0.65)	2.30	(2.15)	2.63	(2.18)	0.49	(0.37)	6.42	(1.24)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.21	(0.13)	0.25	(0.23)	0.19	(0.16)	0.33	(0.25)	0.98	(0.19)
Indoors, public garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	1.01	(0.65)	1.81	(1.70)	1.50	(1.24)	0.97	(0.72)	5.29	(1.02)
Outdoors, along a roadway	4.09	(2.64)	3.98	(3.73)	3.97	(3.30)	4.38	(3.26)	16.42	(3.18)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.90	(0.58)	0.84	(0.79)	0.57	(0.47)	1.16	(0.86)	3.48	(0.67)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	116.62	(75.21)	69.22	(64.92)	69.23	(57.44)	99.69	(74.29)	354.77	(68.69)
Indoors, office	0.51	(0.33)	0.17	(0.16)	0.25	(0.21)	0.30	(0.22)	1.24	(0.24)
Indoors, store	1.91	(1.23)	1.66	(1.55)	2.87	(2.38)	1.52	(1.13)	7.95	(1.54)
Indoors, restaurant	1.72	(1.11)	0.47	(0.44)	0.85	(0.71)	0.97	(0.72)	4.01	(0.78)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.40	(0.91)	1.41	(1.33)	1.00	(0.83)	2.09	(1.56)	5.91	(1.15)
Indoors, church	0.57	(0.37)	0.39	(0.36)	0.24	(0.20)	0.60	(0.44)	1.80	(0.35)
Indoors, shopping mall	2.60	(1.68)	0.32	(0.30)	0.00	(0.00)	1.23	(0.92)	4.14	(0.80)
Indoors, auditorium	0.07	(0.05)	0.11	(0.10)	0.11	(0.09)	0.04	(0.03)	0.33	(0.06)
Indoors, health care facility	2.21	(1.43)	1.69	(1.59)	0.92	(0.76)	2.50	(1.86)	7.32	(1.42)
Indoors, public building	0.09	(0.06)	0.13	(0.12)	0.55	(0.46)	0.05	(0.04)	0.82	(0.16)
Indoors, other location	3.17	(2.04)	4.13	(3.87)	4.00	(3.32)	2.89	(2.16)	14.19	(2.75)
Indoors, not specified	0.24	(0.15)	0.03	(0.03)	0.00	(0.00)	0.13	(0.09)	0.39	(0.08)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.07	(0.69)	4.80	(4.51)	16.40	(13.61)	1.36	(1.01)	23.63	(4.58)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.20	(0.18)	0.27	(0.22)	0.00	(0.00)	0.46	(0.09)
Outdoors, park/golf course	0.19	(0.12)	0.19	(0.18)	0.89	(0.74)	0.10	(0.07)	1.37	(0.27)
Outdoors, other location	0.00	(0.00)	1.22	(1.15)	1.81	(1.50)	0.00	(0.00)	3.04	(0.59)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	24.89	(14.89)	15.44	(14.43)	16.95	(14.01)	21.84	(15.13)	79.12	(14.67)
In transit, bus	3.04	(1.82)	0.94	(0.88)	0.50	(0.41)	2.13	(1.48)	6.61	(1.23)
In transit, truck	4.54	(2.72)	3.26	(3.05)	2.64	(2.19)	4.42	(3.07)	14.87	(2.76)
In transit, van	0.49	(0.29)	0.97	(0.91)	0.96	(0.79)	0.51	(0.35)	2.93	(0.54)
Indoors, public garage	0.42	(0.25)	0.31	(0.29)	0.19	(0.15)	0.48	(0.33)	1.40	(0.26)
Outdoors, in a parking lot	0.93	(0.56)	0.66	(0.62)	0.79	(0.66)	0.85	(0.59)	3.24	(0.60)
Outdoors, along a roadway	6.22	(3.72)	5.21	(4.87)	7.30	(6.03)	5.41	(3.75)	24.13	(4.47)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.92	(0.55)	0.27	(0.25)	0.14	(0.11)	0.62	(0.43)	1.95	(0.36)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.02	(0.02)	0.02	(0.01)	0.01	(0.01)	0.07	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	80.61	(48.24)	49.53	(46.30)	54.92	(45.40)	70.89	(49.11)	255.96	(47.46)
Indoors, office	18.54	(11.10)	11.16	(10.43)	15.29	(12.64)	14.08	(9.75)	59.07	(10.95)
Indoors, store	4.58	(2.74)	2.30	(2.15)	1.61	(1.33)	3.82	(2.64)	12.30	(2.28)
Indoors, restaurant	3.81	(2.28)	2.54	(2.37)	2.96	(2.44)	3.44	(2.39)	12.75	(2.36)
Indoors, mfg. facility	2.37	(1.42)	3.53	(3.30)	5.11	(4.22)	2.88	(2.00)	13.90	(2.58)
Indoors, school	1.06	(0.64)	1.47	(1.38)	1.20	(1.00)	1.31	(0.91)	5.05	(0.94)
Indoors, church	0.74	(0.44)	0.53	(0.49)	0.49	(0.41)	0.71	(0.49)	2.47	(0.46)
Indoors, shopping mall	1.04	(0.62)	0.28	(0.26)	0.18	(0.15)	0.58	(0.40)	2.08	(0.39)
Indoors, auditorium	0.07	(0.04)	0.02	(0.02)	0.01	(0.01)	0.04	(0.03)	0.14	(0.03)
Indoors, health care facility	0.82	(0.49)	0.15	(0.14)	0.06	(0.05)	0.47	(0.32)	1.50	(0.28)
Indoors, public building	0.32	(0.19)	0.66	(0.62)	0.79	(0.66)	0.41	(0.29)	2.18	(0.40)
Indoors, other location	9.08	(5.43)	4.52	(4.22)	2.81	(2.32)	7.50	(5.20)	23.91	(4.43)
Indoors, not specified	0.77	(0.46)	0.14	(0.13)	0.04	(0.03)	0.42	(0.29)	1.38	(0.25)
Outdoors, construction	0.00	(0.00)	0.27	(0.26)	0.81	(0.67)	0.00	(0.00)	1.09	(0.20)
Outdoors, residential grounds	0.27	(0.16)	1.68	(1.57)	3.74	(3.09)	0.29	(0.20)	5.99	(1.11)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.25	(0.15)	0.41	(0.38)	0.61	(0.50)	0.30	(0.20)	1.56	(0.29)
Outdoors, other location	1.21	(0.72)	0.68	(0.64)	0.86	(0.71)	0.86	(0.60)	3.61	(0.67)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.08	(0.05)	0.01	(0.01)	0.00	(0.00)	0.05	(0.03)	0.14	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.51	(8.29)	7.93	(8.01)	8.96	(7.96)	9.96	(7.66)	39.36	(7.99)
In transit, bus	0.48	(0.32)	0.24	(0.25)	0.17	(0.15)	0.34	(0.26)	1.24	(0.25)
In transit, truck	0.84	(0.56)	0.10	(0.10)	0.00	(0.00)	0.42	(0.33)	1.37	(0.28)
In transit, van	0.32	(0.21)	0.31	(0.32)	0.25	(0.22)	0.52	(0.40)	1.41	(0.29)
Indoors, public garage	0.07	(0.05)	0.02	(0.02)	0.00	(0.00)	0.04	(0.03)	0.13	(0.03)
Outdoors, in a parking lot	0.39	(0.26)	0.53	(0.54)	0.87	(0.77)	0.37	(0.29)	2.16	(0.44)
Outdoors, along a roadway	4.88	(3.23)	3.39	(3.42)	4.94	(4.39)	3.73	(2.87)	16.94	(3.44)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.04	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	119.31	(79.09)	75.68	(76.43)	81.35	(72.25)	103.72	(79.84)	380.05	(77.20)
Indoors, office	0.52	(0.35)	0.32	(0.32)	0.30	(0.26)	0.44	(0.34)	1.57	(0.32)
Indoors, store	2.29	(1.52)	1.55	(1.57)	1.52	(1.35)	1.88	(1.45)	7.24	(1.47)
Indoors, restaurant	1.96	(1.30)	1.68	(1.70)	2.84	(2.53)	1.90	(1.46)	8.38	(1.70)
Indoors, mfg. facility	0.00	(0.00)	0.02	(0.02)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Indoors, school	0.36	(0.24)	0.25	(0.25)	0.22	(0.20)	0.40	(0.31)	1.23	(0.25)
Indoors, church	0.86	(0.57)	0.66	(0.67)	0.59	(0.53)	0.90	(0.70)	3.02	(0.61)
Indoors, shopping mall	1.26	(0.83)	0.77	(0.78)	1.27	(1.13)	0.98	(0.75)	4.28	(0.87)
Indoors, auditorium	0.04	(0.03)	0.01	(0.01)	0.01	(0.01)	0.02	(0.02)	0.09	(0.02)
Indoors, health care facility	0.52	(0.35)	0.60	(0.61)	0.76	(0.67)	0.39	(0.30)	2.28	(0.46)
Indoors, public building	0.19	(0.13)	0.20	(0.20)	0.21	(0.19)	0.27	(0.21)	0.87	(0.18)
Indoors, other location	2.57	(1.70)	2.06	(2.08)	2.14	(1.90)	2.17	(1.67)	8.93	(1.81)
Indoors, not specified	0.25	(0.17)	0.03	(0.03)	0.00	(0.00)	0.14	(0.11)	0.41	(0.08)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.06	(0.70)	1.95	(1.97)	4.33	(3.85)	1.17	(0.90)	8.52	(1.73)
Outdoors, school grounds	0.04	(0.02)	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.06	(0.01)
Outdoors, sports arena	0.00	(0.00)	0.10	(0.11)	0.12	(0.11)	0.00	(0.00)	0.22	(0.05)
Outdoors, park/golf course	0.00	(0.00)	0.35	(0.36)	0.85	(0.76)	0.00	(0.00)	1.21	(0.25)
Outdoors, other location	0.04	(0.02)	0.23	(0.24)	0.84	(0.74)	0.05	(0.03)	1.15	(0.23)
Outdoors, not specified	0.09	(0.06)	0.01	(0.01)	0.00	(0.00)	0.05	(0.04)	0.15	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.88	(11.42)	11.20	(11.02)	12.45	(10.80)	14.64	(10.84)	56.18	(11.04)
In transit, bus	1.80	(1.15)	0.77	(0.76)	0.76	(0.66)	1.36	(1.01)	4.70	(0.92)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.53	(0.34)	0.14	(0.14)	0.06	(0.05)	0.36	(0.27)	1.10	(0.22)
Indoors, public garage	0.07	(0.04)	0.03	(0.03)	0.01	(0.01)	0.06	(0.04)	0.16	(0.03)
Outdoors, in a parking lot	0.74	(0.48)	0.70	(0.69)	1.47	(1.27)	0.62	(0.46)	3.53	(0.69)
Outdoors, along a roadway	5.15	(3.29)	3.71	(3.65)	5.46	(4.73)	4.29	(3.18)	18.60	(3.66)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.02	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	91.25	(58.26)	57.00	(56.09)	66.24	(57.44)	79.39	(58.75)	293.87	(57.77)
Indoors, office	16.20	(10.34)	9.21	(9.06)	7.41	(6.42)	13.31	(9.85)	46.12	(9.07)
Indoors, store	3.12	(1.99)	2.63	(2.59)	3.20	(2.77)	2.89	(2.14)	11.84	(2.33)
Indoors, restaurant	4.99	(3.19)	3.55	(3.49)	3.52	(3.05)	5.04	(3.73)	17.10	(3.36)
Indoors, mfg. facility	0.00	(0.00)	2.36	(2.33)	4.66	(4.04)	0.00	(0.00)	7.03	(1.38)
Indoors, school	3.50	(2.24)	1.67	(1.64)	1.63	(1.41)	2.77	(2.05)	9.57	(1.88)
Indoors, church	0.81	(0.52)	0.60	(0.59)	1.02	(0.88)	0.66	(0.49)	3.09	(0.61)
Indoors, shopping mall	1.27	(0.81)	1.18	(1.16)	0.81	(0.71)	1.46	(1.08)	4.72	(0.93)
Indoors, auditorium	0.03	(0.02)	0.03	(0.03)	0.03	(0.02)	0.05	(0.04)	0.14	(0.03)
Indoors, health care facility	2.23	(1.42)	1.59	(1.57)	0.98	(0.85)	2.16	(1.60)	6.95	(1.37)
Indoors, public building	0.20	(0.12)	0.09	(0.09)	0.21	(0.18)	0.11	(0.08)	0.61	(0.12)
Indoors, other location	6.15	(3.93)	3.76	(3.70)	2.67	(2.31)	5.11	(3.78)	17.69	(3.48)
Indoors, not specified	0.02	(0.01)	0.08	(0.08)	0.36	(0.31)	0.02	(0.02)	0.48	(0.09)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.42	(0.27)	0.97	(0.95)	1.64	(1.42)	0.56	(0.41)	3.59	(0.71)
Outdoors, school grounds	0.10	(0.06)	0.12	(0.12)	0.09	(0.08)	0.12	(0.09)	0.44	(0.09)
Outdoors, sports arena	0.05	(0.03)	0.07	(0.07)	0.32	(0.27)	0.02	(0.02)	0.45	(0.09)
Outdoors, park/golf course	0.03	(0.02)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.01)
Outdoors, other location	0.05	(0.03)	0.12	(0.12)	0.33	(0.29)	0.07	(0.05)	0.57	(0.11)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.46	(14.45)	15.25	(14.75)	15.92	(13.26)	20.68	(15.24)	74.31	(14.44)
In transit, bus	1.13	(0.72)	1.01	(0.98)	0.59	(0.49)	1.45	(1.07)	4.18	(0.81)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.03	(0.03)	0.00	(0.00)	0.04	(0.01)
Indoors, public garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)
Outdoors, in a parking lot	0.71	(0.46)	1.16	(1.12)	1.89	(1.57)	0.74	(0.55)	4.50	(0.87)
Outdoors, along a roadway	4.43	(2.85)	6.17	(5.97)	12.84	(10.70)	4.75	(3.50)	28.20	(5.48)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.07	(0.07)	0.14	(0.12)	0.00	(0.00)	0.22	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.02	(0.02)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	106.14	(68.31)	64.60	(62.47)	70.53	(58.76)	89.63	(66.03)	330.90	(64.31)
Indoors, office	5.02	(3.23)	2.52	(2.44)	1.56	(1.30)	4.40	(3.24)	13.50	(2.62)
Indoors, store	1.16	(0.75)	0.84	(0.81)	1.40	(1.16)	0.91	(0.67)	4.31	(0.84)
Indoors, restaurant	3.36	(2.16)	2.59	(2.51)	3.46	(2.88)	3.39	(2.49)	12.79	(2.49)
Indoors, mfg. facility	1.52	(0.98)	0.73	(0.71)	0.36	(0.30)	1.29	(0.95)	3.91	(0.76)
Indoors, school	0.59	(0.38)	0.18	(0.17)	0.08	(0.07)	0.30	(0.22)	1.14	(0.22)
Indoors, church	0.88	(0.57)	0.65	(0.63)	0.60	(0.50)	0.97	(0.71)	3.09	(0.60)
Indoors, shopping mall	1.56	(1.00)	0.92	(0.89)	2.13	(1.78)	0.80	(0.59)	5.41	(1.05)
Indoors, auditorium	0.45	(0.29)	0.34	(0.33)	0.28	(0.23)	0.64	(0.47)	1.70	(0.33)
Indoors, health care facility	0.25	(0.16)	0.44	(0.43)	0.95	(0.79)	0.25	(0.19)	1.89	(0.37)
Indoors, public building	0.12	(0.07)	0.22	(0.21)	0.27	(0.22)	0.09	(0.06)	0.68	(0.13)
Indoors, other location	2.07	(1.34)	1.45	(1.40)	1.03	(0.86)	2.36	(1.74)	6.91	(1.34)
Indoors, not specified	0.00	(0.00)	0.17	(0.16)	0.20	(0.16)	0.00	(0.00)	0.36	(0.07)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.94	(1.25)	3.08	(2.98)	4.67	(3.89)	1.56	(1.15)	11.26	(2.19)
Outdoors, school grounds	0.32	(0.21)	0.25	(0.24)	0.17	(0.14)	0.48	(0.36)	1.22	(0.24)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.81	(0.52)	0.46	(0.45)	0.25	(0.20)	0.73	(0.54)	2.25	(0.44)
Outdoors, other location	0.00	(0.00)	0.15	(0.15)	0.62	(0.52)	0.00	(0.00)	0.78	(0.15)
Outdoors, not specified	0.08	(0.05)	0.08	(0.07)	0.05	(0.04)	0.10	(0.07)	0.31	(0.06)
In transit, train	0.37	(0.24)	0.04	(0.04)	0.00	(0.00)	0.19	(0.14)	0.60	(0.12)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.94	(8.00)	8.25	(8.47)	11.46	(10.24)	9.63	(7.48)	41.28	(8.47)
In transit, bus	0.29	(0.19)	0.36	(0.36)	0.55	(0.49)	0.36	(0.28)	1.55	(0.32)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.13	(0.09)	0.02	(0.02)	0.00	(0.00)	0.07	(0.05)	0.22	(0.04)
Indoors, public garage	0.04	(0.03)	0.03	(0.04)	0.13	(0.12)	0.03	(0.02)	0.24	(0.05)
Outdoors, in a parking lot	0.19	(0.13)	0.29	(0.30)	0.48	(0.42)	0.16	(0.13)	1.12	(0.23)
Outdoors, along a roadway	4.02	(2.70)	3.26	(3.34)	5.60	(5.01)	3.05	(2.37)	15.94	(3.27)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.02	(0.02)	0.01	(0.01)	0.00	(0.00)	0.03	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	117.77	(78.90)	75.57	(77.52)	81.09	(72.45)	103.66	(80.55)	378.09	(77.58)
Indoors, office	1.06	(0.71)	0.24	(0.25)	0.12	(0.11)	0.57	(0.44)	1.99	(0.41)
Indoors, store	1.12	(0.75)	1.52	(1.56)	3.78	(3.37)	0.77	(0.60)	7.18	(1.47)
Indoors, restaurant	2.02	(1.36)	1.65	(1.69)	2.33	(2.08)	1.77	(1.38)	7.77	(1.60)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.04	(0.04)	0.04	(0.04)	0.00	(0.00)	0.08	(0.02)
Indoors, church	1.88	(1.26)	0.95	(0.97)	0.64	(0.57)	1.56	(1.21)	5.03	(1.03)
Indoors, shopping mall	1.92	(1.29)	1.89	(1.94)	1.14	(1.02)	2.45	(1.90)	7.40	(1.52)
Indoors, auditorium	0.05	(0.03)	0.05	(0.05)	0.03	(0.03)	0.06	(0.05)	0.19	(0.04)
Indoors, health care facility	0.93	(0.63)	0.34	(0.34)	0.18	(0.16)	0.65	(0.50)	2.09	(0.43)
Indoors, public building	0.25	(0.17)	0.26	(0.27)	0.20	(0.18)	0.26	(0.20)	0.98	(0.20)
Indoors, other location	5.26	(3.52)	1.52	(1.56)	1.99	(1.78)	3.28	(2.55)	12.05	(2.47)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.26	(0.18)	0.88	(0.91)	1.63	(1.46)	0.19	(0.15)	2.97	(0.61)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.10	(0.07)	0.16	(0.16)	0.14	(0.12)	0.16	(0.13)	0.56	(0.12)
Outdoors, park/golf course	0.00	(0.00)	0.08	(0.08)	0.13	(0.11)	0.00	(0.00)	0.21	(0.04)
Outdoors, other location	0.00	(0.00)	0.12	(0.13)	0.24	(0.21)	0.00	(0.00)	0.36	(0.07)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.51	(7.15)	7.14	(5.85)	10.18	(7.13)	10.84	(6.73)	41.67	(6.78)
In transit, bus	0.00	(0.00)	0.33	(0.27)	0.34	(0.24)	0.00	(0.00)	0.67	(0.11)
In transit, truck	14.50	(7.68)	10.56	(8.66)	12.18	(8.53)	11.37	(7.07)	48.61	(7.91)
In transit, van	1.01	(0.53)	0.12	(0.10)	0.00	(0.00)	0.52	(0.33)	1.65	(0.27)
Indoors, public garage	3.60	(1.91)	1.67	(1.37)	0.94	(0.66)	3.47	(2.16)	9.68	(1.58)
Outdoors, in a parking lot	1.79	(0.95)	1.73	(1.42)	1.70	(1.19)	2.07	(1.29)	7.30	(1.19)
Outdoors, along a roadway	22.38	(11.85)	18.98	(15.57)	27.02	(18.92)	20.50	(12.74)	88.88	(14.46)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	6.84	(3.62)	1.08	(0.88)	0.29	(0.20)	3.58	(2.23)	11.80	(1.92)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.20	(0.64)	0.15	(0.13)	0.03	(0.02)	0.72	(0.45)	2.10	(0.34)
Indoors, in a repair shop	0.00	(0.00)	0.13	(0.11)	0.15	(0.11)	0.00	(0.00)	0.29	(0.05)
Indoors, home	74.19	(39.28)	45.64	(37.43)	47.65	(33.37)	66.16	(41.12)	233.64	(38.01)
Indoors, office	3.73	(1.97)	2.08	(1.71)	1.30	(0.91)	2.22	(1.38)	9.33	(1.52)
Indoors, store	1.04	(0.55)	0.33	(0.27)	0.19	(0.13)	0.70	(0.44)	2.27	(0.37)
Indoors, restaurant	3.78	(2.00)	1.39	(1.14)	1.43	(1.00)	2.91	(1.81)	9.51	(1.55)
Indoors, mfg. facility	1.91	(1.01)	3.48	(2.85)	8.84	(6.19)	2.44	(1.51)	16.67	(2.71)
Indoors, school	0.80	(0.42)	0.75	(0.62)	0.44	(0.31)	1.01	(0.63)	3.00	(0.49)
Indoors, church	1.50	(0.79)	0.43	(0.35)	0.22	(0.15)	1.06	(0.66)	3.20	(0.52)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.14	(0.07)	0.27	(0.22)	0.54	(0.38)	0.08	(0.05)	1.02	(0.17)
Indoors, health care facility	0.00	(0.00)	0.19	(0.15)	0.51	(0.36)	0.00	(0.00)	0.70	(0.11)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	5.56	(2.95)	1.20	(0.98)	0.48	(0.34)	3.34	(2.08)	10.59	(1.72)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	10.75	(5.69)	10.99	(9.01)	12.36	(8.65)	9.18	(5.71)	43.27	(7.04)
Outdoors, residential grounds	1.48	(0.78)	1.45	(1.19)	1.36	(0.95)	1.71	(1.06)	6.00	(0.98)
Outdoors, school grounds	0.09	(0.05)	0.08	(0.07)	0.05	(0.04)	0.11	(0.07)	0.33	(0.05)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.41	(0.22)	0.44	(0.36)	0.30	(0.21)	0.55	(0.34)	1.70	(0.28)
Outdoors, other location	18.67	(9.89)	11.31	(9.28)	14.28	(10.00)	16.37	(10.17)	60.63	(9.87)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.46	(5.07)	7.24	(6.59)	10.42	(8.37)	8.40	(5.80)	34.53	(6.32)
In transit, bus	6.22	(3.72)	2.96	(2.69)	1.73	(1.39)	5.24	(3.62)	16.15	(2.96)
In transit, truck	0.07	(0.04)	0.18	(0.16)	0.24	(0.19)	0.11	(0.07)	0.59	(0.11)
In transit, van	0.42	(0.25)	0.20	(0.19)	0.23	(0.19)	0.30	(0.21)	1.16	(0.21)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.89	(0.53)	0.56	(0.51)	0.69	(0.55)	0.72	(0.49)	2.85	(0.52)
Outdoors, along a roadway	17.52	(10.49)	12.91	(11.75)	18.55	(14.89)	14.89	(10.28)	63.87	(11.69)
In transit, motorcycle	0.47	(0.28)	0.08	(0.07)	0.03	(0.02)	0.31	(0.22)	0.90	(0.16)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.04	(0.02)	0.05	(0.05)	0.06	(0.05)	0.05	(0.03)	0.20	(0.04)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	85.64	(51.30)	56.47	(51.41)	63.50	(50.99)	74.83	(51.64)	280.44	(51.35)
Indoors, office	0.26	(0.16)	0.18	(0.16)	0.46	(0.37)	0.16	(0.11)	1.06	(0.19)
Indoors, store	1.74	(1.04)	1.04	(0.95)	1.38	(1.11)	1.42	(0.98)	5.58	(1.02)
Indoors, restaurant	1.00	(0.60)	1.10	(1.00)	1.67	(1.34)	1.25	(0.86)	5.01	(0.92)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	30.86	(18.49)	14.55	(13.24)	8.30	(6.66)	24.99	(17.25)	78.70	(14.41)
Indoors, church	0.83	(0.50)	0.47	(0.43)	0.57	(0.46)	0.68	(0.47)	2.54	(0.47)
Indoors, shopping mall	1.27	(0.76)	0.69	(0.63)	0.43	(0.34)	0.98	(0.68)	3.37	(0.62)
Indoors, auditorium	0.08	(0.05)	0.09	(0.08)	0.13	(0.10)	0.13	(0.09)	0.43	(0.08)
Indoors, health care facility	0.51	(0.30)	0.39	(0.36)	0.36	(0.29)	0.61	(0.42)	1.86	(0.34)
Indoors, public building	0.46	(0.28)	0.33	(0.30)	0.39	(0.31)	0.42	(0.29)	1.59	(0.29)
Indoors, other location	1.29	(0.77)	0.84	(0.76)	1.13	(0.91)	1.12	(0.77)	4.37	(0.80)
Indoors, not specified	0.00	(0.00)	0.03	(0.02)	0.03	(0.03)	0.00	(0.00)	0.06	(0.01)
Outdoors, construction	0.00	(0.00)	0.10	(0.09)	0.11	(0.09)	0.00	(0.00)	0.21	(0.04)
Outdoors, residential grounds	3.40	(2.04)	3.75	(3.41)	6.55	(5.26)	3.07	(2.12)	16.77	(3.07)
Outdoors, school grounds	4.81	(2.88)	3.05	(2.78)	1.92	(1.54)	4.48	(3.09)	14.27	(2.61)
Outdoors, sports arena	0.48	(0.29)	0.47	(0.43)	0.73	(0.59)	0.49	(0.34)	2.17	(0.40)
Outdoors, park/golf course	0.15	(0.09)	0.66	(0.61)	1.45	(1.16)	0.19	(0.13)	2.45	(0.45)
Outdoors, other location	0.05	(0.03)	1.45	(1.32)	3.45	(2.77)	0.08	(0.05)	5.04	(0.92)
Outdoors, not specified	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.09	(6.12)	7.30	(7.35)	9.04	(7.97)	7.58	(5.87)	33.01	(6.73)
In transit, bus	2.20	(1.48)	1.38	(1.39)	0.92	(0.81)	2.23	(1.73)	6.74	(1.37)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.42	(0.28)	0.42	(0.42)	0.36	(0.32)	0.71	(0.55)	1.91	(0.39)
Indoors, public garage	0.00	(0.00)	0.01	(0.01)	0.04	(0.04)	0.00	(0.00)	0.05	(0.01)
Outdoors, in a parking lot	0.47	(0.32)	0.42	(0.42)	0.53	(0.47)	0.40	(0.31)	1.82	(0.37)
Outdoors, along a roadway	4.36	(2.94)	4.10	(4.13)	6.79	(5.99)	3.59	(2.78)	18.84	(3.84)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.03	(0.03)	0.04	(0.03)	0.00	(0.00)	0.07	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.16	(0.11)	0.09	(0.09)	0.05	(0.04)	0.13	(0.10)	0.42	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	109.54	(73.68)	68.53	(68.99)	77.19	(68.05)	94.51	(73.18)	349.77	(71.30)
Indoors, office	5.38	(3.62)	3.37	(3.39)	3.06	(2.70)	4.49	(3.48)	16.31	(3.32)
Indoors, store	1.51	(1.01)	1.23	(1.23)	1.61	(1.42)	1.16	(0.90)	5.50	(1.12)
Indoors, restaurant	3.35	(2.25)	1.92	(1.93)	2.92	(2.58)	2.60	(2.02)	10.80	(2.20)
Indoors, mfg. facility	1.74	(1.17)	1.57	(1.58)	1.16	(1.02)	1.64	(1.27)	6.10	(1.24)
Indoors, school	5.81	(3.91)	3.46	(3.49)	2.00	(1.77)	5.17	(4.01)	16.45	(3.35)
Indoors, church	1.20	(0.80)	0.79	(0.79)	0.56	(0.49)	1.26	(0.98)	3.80	(0.78)
Indoors, shopping mall	0.48	(0.32)	0.75	(0.75)	1.35	(1.19)	0.60	(0.46)	3.17	(0.65)
Indoors, auditorium	0.03	(0.02)	0.02	(0.02)	0.02	(0.01)	0.04	(0.03)	0.11	(0.02)
Indoors, health care facility	0.75	(0.51)	0.40	(0.41)	0.49	(0.43)	0.58	(0.45)	2.22	(0.45)
Indoors, public building	0.05	(0.04)	0.13	(0.13)	0.42	(0.37)	0.05	(0.04)	0.65	(0.13)
Indoors, other location	0.17	(0.12)	0.55	(0.55)	0.83	(0.73)	0.21	(0.17)	1.77	(0.36)
Indoors, not specified	0.07	(0.05)	0.14	(0.14)	0.36	(0.31)	0.04	(0.03)	0.60	(0.12)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.91	(0.61)	1.72	(1.73)	2.80	(2.47)	1.15	(0.89)	6.58	(1.34)
Outdoors, school grounds	0.71	(0.47)	0.55	(0.55)	0.33	(0.29)	0.85	(0.66)	2.44	(0.50)
Outdoors, sports arena	0.01	(0.00)	0.06	(0.06)	0.04	(0.03)	0.01	(0.01)	0.11	(0.02)
Outdoors, park/golf course	0.20	(0.14)	0.06	(0.06)	0.14	(0.13)	0.11	(0.08)	0.52	(0.11)
Outdoors, other location	0.03	(0.02)	0.33	(0.33)	0.39	(0.35)	0.04	(0.03)	0.80	(0.16)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Philadelphia: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.93	(11.21)	10.92	(10.41)	12.35	(10.41)	15.11	(10.93)	56.31	(10.79)
In transit, bus	1.72	(1.07)	0.98	(0.94)	0.76	(0.64)	1.48	(1.07)	4.93	(0.95)
In transit, truck	1.64	(1.02)	0.98	(0.93)	0.91	(0.77)	1.31	(0.95)	4.84	(0.93)
In transit, van	0.52	(0.33)	0.47	(0.44)	0.56	(0.47)	0.55	(0.40)	2.10	(0.40)
Indoors, public garage	0.41	(0.26)	0.20	(0.19)	0.13	(0.11)	0.35	(0.25)	1.10	(0.21)
Outdoors, in a parking lot	0.74	(0.46)	0.68	(0.65)	0.94	(0.79)	0.67	(0.48)	3.02	(0.58)
Outdoors, along a roadway	6.52	(4.08)	6.22	(5.93)	9.29	(7.83)	6.12	(4.43)	28.15	(5.40)
In transit, motorcycle	0.02	(0.01)	0.08	(0.08)	0.19	(0.16)	0.02	(0.01)	0.31	(0.06)
Indoors, service station	0.52	(0.32)	0.19	(0.18)	0.11	(0.09)	0.37	(0.27)	1.20	(0.23)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.14	(0.09)	0.10	(0.09)	0.07	(0.06)	0.16	(0.12)	0.48	(0.09)
Indoors, in a repair shop	0.36	(0.22)	0.05	(0.05)	0.00	(0.00)	0.18	(0.13)	0.59	(0.11)
Indoors, home	95.34	(59.59)	60.89	(58.07)	67.83	(57.17)	83.01	(60.07)	307.07	(58.86)
Indoors, office	9.80	(6.12)	5.13	(4.89)	4.36	(3.68)	7.60	(5.50)	26.89	(5.15)
Indoors, store	2.85	(1.78)	1.98	(1.89)	2.36	(1.99)	2.39	(1.73)	9.58	(1.84)
Indoors, restaurant	3.58	(2.24)	2.11	(2.01)	2.32	(1.95)	2.93	(2.12)	10.94	(2.10)
Indoors, mfg. facility	1.10	(0.69)	1.06	(1.02)	1.19	(1.00)	1.00	(0.73)	4.36	(0.84)
Indoors, school	6.36	(3.97)	3.99	(3.81)	2.87	(2.42)	5.75	(4.16)	18.97	(3.64)
Indoors, church	0.66	(0.41)	0.46	(0.44)	0.48	(0.40)	0.64	(0.46)	2.24	(0.43)
Indoors, shopping mall	1.04	(0.65)	0.61	(0.58)	0.59	(0.49)	0.86	(0.62)	3.10	(0.59)
Indoors, auditorium	0.13	(0.08)	0.08	(0.08)	0.11	(0.09)	0.12	(0.09)	0.44	(0.08)
Indoors, health care facility	1.09	(0.68)	0.67	(0.64)	0.66	(0.56)	0.95	(0.69)	3.36	(0.64)
Indoors, public building	0.31	(0.19)	0.28	(0.26)	0.42	(0.35)	0.27	(0.20)	1.28	(0.25)
Indoors, other location	4.49	(2.81)	2.55	(2.44)	2.36	(1.99)	3.66	(2.65)	13.07	(2.51)
Indoors, not specified	0.24	(0.15)	0.07	(0.07)	0.07	(0.06)	0.14	(0.10)	0.53	(0.10)
Outdoors, construction	0.21	(0.13)	0.22	(0.21)	0.21	(0.17)	0.21	(0.15)	0.85	(0.16)
Outdoors, residential grounds	0.96	(0.60)	1.91	(1.82)	4.02	(3.38)	1.05	(0.76)	7.94	(1.52)
Outdoors, school grounds	0.56	(0.35)	0.53	(0.50)	0.44	(0.37)	0.59	(0.43)	2.11	(0.41)
Outdoors, sports arena	0.07	(0.05)	0.14	(0.14)	0.28	(0.23)	0.07	(0.05)	0.56	(0.11)
Outdoors, park/golf course	0.12	(0.08)	0.36	(0.34)	0.76	(0.64)	0.14	(0.10)	1.39	(0.27)
Outdoors, other location	0.44	(0.27)	0.90	(0.86)	1.96	(1.65)	0.42	(0.31)	3.72	(0.71)
Outdoors, not specified	0.02	(0.01)	0.03	(0.03)	0.02	(0.01)	0.02	(0.02)	0.09	(0.02)
In transit, train	0.09	(0.06)	0.04	(0.03)	0.02	(0.02)	0.06	(0.05)	0.22	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.53	(7.97)	10.38	(8.33)	13.13	(9.23)	20.74	(8.19)	61.78	(8.35)
In transit, bus	2.41	(1.10)	0.97	(0.77)	0.67	(0.47)	2.70	(1.06)	6.75	(0.91)
In transit, truck	1.84	(0.84)	0.87	(0.70)	0.84	(0.59)	2.04	(0.81)	5.60	(0.76)
In transit, van	1.24	(0.56)	0.62	(0.50)	0.67	(0.47)	1.33	(0.53)	3.86	(0.52)
Indoors, public garage	0.21	(0.09)	0.10	(0.08)	0.09	(0.07)	0.25	(0.10)	0.65	(0.09)
Outdoors, in a parking lot	1.31	(0.60)	0.81	(0.65)	1.05	(0.74)	1.53	(0.60)	4.69	(0.63)
Outdoors, along a roadway	8.68	(3.94)	6.62	(5.31)	10.10	(7.10)	10.29	(4.07)	35.69	(4.82)
In transit, motorcycle	0.00	(0.00)	0.09	(0.07)	0.23	(0.16)	0.01	(0.00)	0.32	(0.04)
Indoors, service station	0.33	(0.15)	0.13	(0.11)	0.09	(0.07)	0.36	(0.14)	0.92	(0.12)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.18	(0.08)	0.07	(0.06)	0.05	(0.04)	0.25	(0.10)	0.55	(0.07)
Indoors, in a repair shop	0.01	(0.01)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
Indoors, home	143.26	(65.13)	80.74	(64.75)	88.41	(62.11)	166.51	(65.76)	478.92	(64.70)
Indoors, office	6.23	(2.83)	3.33	(2.67)	3.72	(2.61)	6.42	(2.54)	19.69	(2.66)
Indoors, store	2.94	(1.34)	1.80	(1.45)	2.35	(1.65)	3.50	(1.38)	10.60	(1.43)
Indoors, restaurant	3.65	(1.66)	2.07	(1.66)	2.50	(1.75)	4.46	(1.76)	12.68	(1.71)
Indoors, mfg. facility	2.43	(1.11)	1.22	(0.98)	1.24	(0.87)	2.57	(1.02)	7.47	(1.01)
Indoors, school	13.85	(6.30)	5.13	(4.12)	3.34	(2.35)	14.06	(5.55)	36.39	(4.92)
Indoors, church	1.07	(0.49)	0.44	(0.35)	0.44	(0.31)	1.22	(0.48)	3.17	(0.43)
Indoors, shopping mall	0.99	(0.45)	0.56	(0.45)	0.58	(0.41)	1.27	(0.50)	3.40	(0.46)
Indoors, auditorium	0.23	(0.10)	0.12	(0.10)	0.16	(0.11)	0.28	(0.11)	0.78	(0.11)
Indoors, health care facility	1.61	(0.73)	0.70	(0.56)	0.60	(0.42)	1.81	(0.71)	4.71	(0.64)
Indoors, public building	0.57	(0.26)	0.37	(0.30)	0.51	(0.36)	0.67	(0.26)	2.12	(0.29)
Indoors, other location	5.09	(2.32)	2.41	(1.93)	2.27	(1.60)	5.83	(2.30)	15.60	(2.11)
Indoors, not specified	0.02	(0.01)	0.03	(0.02)	0.07	(0.05)	0.02	(0.01)	0.14	(0.02)
Outdoors, construction	0.47	(0.21)	0.22	(0.17)	0.16	(0.11)	0.52	(0.21)	1.37	(0.18)
Outdoors, residential grounds	1.90	(0.86)	2.70	(2.16)	5.08	(3.57)	2.30	(0.91)	11.98	(1.62)
Outdoors, school grounds	1.22	(0.55)	0.56	(0.45)	0.40	(0.28)	1.39	(0.55)	3.57	(0.48)
Outdoors, sports arena	0.05	(0.02)	0.13	(0.11)	0.30	(0.21)	0.07	(0.03)	0.55	(0.07)
Outdoors, park/golf course	0.27	(0.12)	0.48	(0.39)	0.97	(0.68)	0.33	(0.13)	2.06	(0.28)
Outdoors, other location	0.32	(0.15)	1.01	(0.81)	2.28	(1.60)	0.44	(0.17)	4.05	(0.55)
Outdoors, not specified	0.04	(0.02)	0.01	(0.01)	0.01	(0.01)	0.04	(0.01)	0.10	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.23	(4.83)	6.43	(5.17)	8.42	(6.02)	12.07	(4.85)	37.15	(5.13)
In transit, bus	8.46	(4.00)	3.99	(3.21)	3.20	(2.29)	9.40	(3.78)	25.06	(3.46)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.00	(0.00)	0.03	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.00)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.50	(0.23)	0.74	(0.59)	1.45	(1.04)	0.62	(0.25)	3.30	(0.46)
Outdoors, along a roadway	5.17	(2.44)	6.09	(4.90)	10.86	(7.77)	6.10	(2.45)	28.22	(3.89)
In transit, motorcycle	0.28	(0.13)	0.09	(0.07)	0.06	(0.04)	0.48	(0.19)	0.90	(0.12)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	155.70	(73.55)	89.82	(72.24)	97.98	(70.09)	185.29	(74.48)	528.80	(72.98)
Indoors, office	1.14	(0.54)	0.50	(0.41)	0.54	(0.39)	1.12	(0.45)	3.30	(0.46)
Indoors, store	1.17	(0.55)	1.06	(0.85)	1.73	(1.24)	1.21	(0.49)	5.16	(0.71)
Indoors, restaurant	0.64	(0.30)	0.20	(0.16)	0.25	(0.18)	1.12	(0.45)	2.21	(0.31)
Indoors, mfg. facility	0.19	(0.09)	0.00	(0.00)	0.03	(0.02)	0.13	(0.05)	0.35	(0.05)
Indoors, school	17.05	(8.05)	7.03	(5.66)	3.82	(2.73)	17.75	(7.14)	45.65	(6.30)
Indoors, church	2.16	(1.02)	1.22	(0.98)	1.35	(0.97)	2.69	(1.08)	7.42	(1.02)
Indoors, shopping mall	0.84	(0.40)	0.48	(0.38)	0.33	(0.24)	0.81	(0.33)	2.47	(0.34)
Indoors, auditorium	0.08	(0.04)	0.04	(0.03)	0.03	(0.02)	0.10	(0.04)	0.25	(0.03)
Indoors, health care facility	3.71	(1.75)	2.81	(2.26)	3.48	(2.49)	4.36	(1.75)	14.36	(1.98)
Indoors, public building	0.08	(0.04)	0.21	(0.17)	0.46	(0.33)	0.09	(0.04)	0.84	(0.12)
Indoors, other location	0.94	(0.44)	0.78	(0.63)	1.65	(1.18)	1.11	(0.45)	4.48	(0.62)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.25	(0.59)	1.38	(1.11)	2.38	(1.70)	1.84	(0.74)	6.84	(0.94)
Outdoors, school grounds	1.53	(0.72)	0.78	(0.63)	0.43	(0.31)	1.77	(0.71)	4.51	(0.62)
Outdoors, sports arena	0.55	(0.26)	0.26	(0.21)	0.20	(0.14)	0.68	(0.27)	1.69	(0.23)
Outdoors, park/golf course	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, other location	0.00	(0.00)	0.43	(0.35)	1.06	(0.76)	0.00	(0.00)	1.50	(0.21)
Outdoors, not specified	0.01	(0.01)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.00	(0.00)	0.03	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.34	(5.18)	6.58	(5.29)	8.32	(5.84)	13.30	(5.11)	39.54	(5.30)
In transit, bus	6.15	(2.81)	2.95	(2.37)	2.67	(1.88)	6.89	(2.65)	18.66	(2.50)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.00	(0.00)	0.02	(0.00)
In transit, van	0.95	(0.43)	0.42	(0.33)	0.31	(0.22)	1.25	(0.48)	2.93	(0.39)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.80	(0.37)	0.83	(0.67)	1.40	(0.98)	0.93	(0.36)	3.96	(0.53)
Outdoors, along a roadway	16.98	(7.75)	11.15	(8.96)	13.91	(9.77)	20.02	(7.69)	62.06	(8.32)
In transit, motorcycle	0.20	(0.09)	0.06	(0.05)	0.04	(0.03)	0.34	(0.13)	0.64	(0.09)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	155.28	(70.90)	87.18	(70.05)	97.58	(68.54)	186.59	(71.73)	526.62	(70.59)
Indoors, office	1.42	(0.65)	0.59	(0.47)	0.58	(0.41)	1.43	(0.55)	4.03	(0.54)
Indoors, store	1.15	(0.52)	0.96	(0.77)	1.60	(1.13)	1.22	(0.47)	4.93	(0.66)
Indoors, restaurant	0.79	(0.36)	0.30	(0.24)	0.30	(0.21)	1.19	(0.46)	2.58	(0.35)
Indoors, mfg. facility	0.17	(0.08)	0.00	(0.00)	0.02	(0.02)	0.12	(0.05)	0.32	(0.04)
Indoors, school	12.48	(5.70)	4.86	(3.91)	2.85	(2.00)	13.15	(5.05)	33.34	(4.47)
Indoors, church	2.14	(0.98)	1.23	(0.99)	1.41	(0.99)	2.56	(0.99)	7.34	(0.98)
Indoors, shopping mall	0.78	(0.35)	0.41	(0.33)	0.30	(0.21)	0.77	(0.30)	2.26	(0.30)
Indoors, auditorium	0.07	(0.03)	0.04	(0.03)	0.03	(0.02)	0.09	(0.04)	0.23	(0.03)
Indoors, health care facility	3.09	(1.41)	2.32	(1.86)	3.05	(2.14)	3.61	(1.39)	12.07	(1.62)
Indoors, public building	0.08	(0.04)	0.18	(0.14)	0.41	(0.28)	0.08	(0.03)	0.74	(0.10)
Indoors, other location	1.85	(0.84)	0.98	(0.79)	1.63	(1.15)	2.29	(0.88)	6.75	(0.90)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.57	(0.72)	2.04	(1.64)	3.92	(2.75)	2.20	(0.84)	9.73	(1.30)
Outdoors, school grounds	1.11	(0.51)	0.53	(0.43)	0.31	(0.22)	1.30	(0.50)	3.25	(0.44)
Outdoors, sports arena	0.50	(0.23)	0.23	(0.18)	0.18	(0.13)	0.63	(0.24)	1.54	(0.21)
Outdoors, park/golf course	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, other location	0.13	(0.06)	0.62	(0.50)	1.47	(1.03)	0.14	(0.05)	2.36	(0.32)
Outdoors, not specified	0.01	(0.01)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.00	(0.00)	0.03	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.33	(3.48)	6.46	(5.26)	10.08	(7.28)	8.88	(3.58)	32.75	(4.55)
In transit, bus	2.31	(1.10)	0.99	(0.81)	0.52	(0.38)	2.47	(0.99)	6.29	(0.87)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.45	(0.37)	1.19	(0.86)	0.00	(0.00)	1.64	(0.23)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.88	(0.89)	0.85	(0.69)	0.92	(0.66)	2.25	(0.91)	5.90	(0.82)
Outdoors, along a roadway	8.85	(4.20)	5.67	(4.62)	6.88	(4.97)	11.61	(4.68)	33.01	(4.59)
In transit, motorcycle	0.00	(0.00)	0.09	(0.07)	0.24	(0.17)	0.00	(0.00)	0.33	(0.05)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.04	(0.03)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	170.55	(81.02)	96.62	(78.72)	104.88	(75.70)	201.01	(81.05)	573.06	(79.62)
Indoors, office	0.15	(0.07)	0.06	(0.05)	0.10	(0.07)	0.14	(0.06)	0.45	(0.06)
Indoors, store	1.41	(0.67)	2.24	(1.82)	4.28	(3.09)	1.88	(0.76)	9.80	(1.36)
Indoors, restaurant	0.95	(0.45)	0.48	(0.39)	0.56	(0.41)	1.21	(0.49)	3.20	(0.44)
Indoors, mfg. facility	0.17	(0.08)	0.01	(0.01)	0.04	(0.03)	0.13	(0.05)	0.34	(0.05)
Indoors, school	11.40	(5.42)	4.27	(3.48)	2.12	(1.53)	11.70	(4.72)	29.48	(4.10)
Indoors, church	0.71	(0.34)	0.24	(0.20)	0.16	(0.11)	0.98	(0.39)	2.09	(0.29)
Indoors, shopping mall	1.07	(0.51)	0.64	(0.52)	0.37	(0.27)	1.22	(0.49)	3.30	(0.46)
Indoors, auditorium	0.19	(0.09)	0.16	(0.13)	0.24	(0.18)	0.19	(0.08)	0.79	(0.11)
Indoors, health care facility	0.67	(0.32)	0.37	(0.30)	0.37	(0.27)	0.69	(0.28)	2.10	(0.29)
Indoors, public building	0.18	(0.08)	0.09	(0.08)	0.05	(0.04)	0.23	(0.09)	0.55	(0.08)
Indoors, other location	1.07	(0.51)	0.61	(0.50)	0.80	(0.58)	1.47	(0.59)	3.95	(0.55)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.25	(0.59)	1.03	(0.84)	1.55	(1.12)	1.56	(0.63)	5.39	(0.75)
Outdoors, school grounds	0.33	(0.15)	0.17	(0.14)	0.09	(0.07)	0.35	(0.14)	0.94	(0.13)
Outdoors, sports arena	0.00	(0.00)	0.13	(0.11)	0.29	(0.21)	0.00	(0.00)	0.42	(0.06)
Outdoors, park/golf course	0.00	(0.00)	0.08	(0.07)	0.21	(0.15)	0.01	(0.00)	0.31	(0.04)
Outdoors, other location	0.03	(0.01)	0.99	(0.81)	2.57	(1.85)	0.03	(0.01)	3.61	(0.50)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.62	(6.97)	9.07	(7.16)	11.03	(7.66)	18.66	(7.12)	54.39	(7.18)
In transit, bus	2.61	(1.16)	0.97	(0.77)	0.54	(0.38)	3.00	(1.14)	7.12	(0.94)
In transit, truck	1.25	(0.56)	0.49	(0.39)	0.33	(0.23)	1.61	(0.62)	3.68	(0.49)
In transit, van	0.25	(0.11)	0.10	(0.08)	0.09	(0.07)	0.35	(0.13)	0.79	(0.10)
Indoors, public garage	0.00	(0.00)	0.08	(0.06)	0.19	(0.13)	0.00	(0.00)	0.27	(0.04)
Outdoors, in a parking lot	1.39	(0.62)	1.32	(1.04)	2.11	(1.47)	1.68	(0.64)	6.52	(0.86)
Outdoors, along a roadway	8.71	(3.88)	7.32	(5.77)	11.85	(8.23)	10.12	(3.86)	38.00	(5.02)
In transit, motorcycle	0.00	(0.00)	0.66	(0.52)	1.75	(1.22)	0.00	(0.00)	2.41	(0.32)
Indoors, service station	0.02	(0.01)	0.06	(0.05)	0.15	(0.10)	0.01	(0.01)	0.24	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.18	(0.08)	0.11	(0.08)	0.08	(0.05)	0.20	(0.08)	0.57	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	149.15	(66.51)	84.79	(66.87)	94.50	(65.61)	175.65	(67.02)	504.10	(66.58)
Indoors, office	3.99	(1.78)	1.97	(1.56)	1.90	(1.32)	4.19	(1.60)	12.05	(1.59)
Indoors, store	3.10	(1.38)	1.94	(1.53)	2.75	(1.91)	3.61	(1.38)	11.40	(1.51)
Indoors, restaurant	7.76	(3.46)	3.43	(2.70)	2.77	(1.92)	9.31	(3.55)	23.27	(3.07)
Indoors, mfg. facility	4.23	(1.89)	1.69	(1.34)	1.03	(0.71)	4.43	(1.69)	11.39	(1.50)
Indoors, school	10.48	(4.67)	3.63	(2.86)	1.89	(1.31)	10.72	(4.09)	26.71	(3.53)
Indoors, church	1.25	(0.56)	0.55	(0.44)	0.54	(0.38)	1.33	(0.51)	3.67	(0.48)
Indoors, shopping mall	1.15	(0.51)	0.45	(0.36)	0.25	(0.18)	1.42	(0.54)	3.28	(0.43)
Indoors, auditorium	0.12	(0.05)	0.07	(0.06)	0.08	(0.06)	0.14	(0.05)	0.42	(0.06)
Indoors, health care facility	2.29	(1.02)	1.48	(1.17)	1.90	(1.32)	2.81	(1.07)	8.48	(1.12)
Indoors, public building	0.12	(0.06)	0.06	(0.05)	0.06	(0.04)	0.13	(0.05)	0.37	(0.05)
Indoors, other location	7.18	(3.20)	2.95	(2.32)	1.94	(1.35)	8.57	(3.27)	20.64	(2.73)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.64	(0.73)	1.92	(1.51)	3.50	(2.43)	2.02	(0.77)	9.08	(1.20)
Outdoors, school grounds	1.59	(0.71)	0.61	(0.48)	0.36	(0.25)	1.86	(0.71)	4.42	(0.58)
Outdoors, sports arena	0.00	(0.00)	0.06	(0.05)	0.17	(0.12)	0.00	(0.00)	0.23	(0.03)
Outdoors, park/golf course	0.16	(0.07)	0.83	(0.66)	1.86	(1.29)	0.24	(0.09)	3.08	(0.41)
Outdoors, other location	0.00	(0.00)	0.17	(0.13)	0.41	(0.28)	0.00	(0.00)	0.58	(0.08)
Outdoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.90	(8.15)	10.41	(8.41)	13.21	(9.19)	20.83	(8.26)	62.34	(8.43)
In transit, bus	2.05	(0.93)	0.85	(0.68)	0.71	(0.49)	2.36	(0.94)	5.96	(0.81)
In transit, truck	1.17	(0.53)	0.50	(0.40)	0.35	(0.24)	1.35	(0.54)	3.37	(0.46)
In transit, van	2.18	(0.99)	1.01	(0.82)	1.02	(0.71)	2.33	(0.93)	6.55	(0.89)
Indoors, public garage	0.43	(0.19)	0.15	(0.12)	0.09	(0.06)	0.51	(0.20)	1.17	(0.16)
Outdoors, in a parking lot	1.20	(0.55)	0.73	(0.59)	0.98	(0.69)	1.36	(0.54)	4.28	(0.58)
Outdoors, along a roadway	10.78	(4.91)	7.71	(6.23)	11.15	(7.75)	12.60	(5.00)	42.24	(5.71)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.07	(0.03)	0.03	(0.03)	0.03	(0.02)	0.07	(0.03)	0.21	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.26	(0.12)	0.09	(0.07)	0.06	(0.04)	0.38	(0.15)	0.79	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	143.78	(65.49)	79.99	(64.61)	88.80	(61.78)	166.50	(66.03)	479.07	(64.81)
Indoors, office	7.28	(3.31)	3.95	(3.19)	4.47	(3.11)	7.47	(2.96)	23.16	(3.13)
Indoors, store	2.29	(1.04)	1.57	(1.27)	2.30	(1.60)	2.67	(1.06)	8.83	(1.19)
Indoors, restaurant	2.55	(1.16)	1.59	(1.29)	2.11	(1.47)	3.18	(1.26)	9.43	(1.28)
Indoors, mfg. facility	2.62	(1.19)	1.38	(1.11)	1.55	(1.08)	2.67	(1.06)	8.22	(1.11)
Indoors, school	10.13	(4.61)	3.70	(2.99)	2.41	(1.67)	10.30	(4.08)	26.53	(3.59)
Indoors, church	1.49	(0.68)	0.60	(0.48)	0.59	(0.41)	1.76	(0.70)	4.44	(0.60)
Indoors, shopping mall	0.69	(0.32)	0.47	(0.38)	0.54	(0.38)	0.97	(0.38)	2.67	(0.36)
Indoors, auditorium	0.26	(0.12)	0.10	(0.08)	0.11	(0.07)	0.32	(0.13)	0.79	(0.11)
Indoors, health care facility	1.56	(0.71)	0.65	(0.52)	0.49	(0.34)	1.74	(0.69)	4.43	(0.60)
Indoors, public building	0.68	(0.31)	0.47	(0.38)	0.71	(0.50)	0.78	(0.31)	2.65	(0.36)
Indoors, other location	5.13	(2.34)	2.34	(1.89)	2.33	(1.62)	5.92	(2.35)	15.72	(2.13)
Indoors, not specified	0.00	(0.00)	0.04	(0.03)	0.11	(0.08)	0.00	(0.00)	0.16	(0.02)
Outdoors, construction	1.02	(0.46)	0.47	(0.38)	0.36	(0.25)	1.13	(0.45)	2.98	(0.40)
Outdoors, residential grounds	2.19	(1.00)	2.63	(2.13)	4.81	(3.35)	2.64	(1.05)	12.27	(1.66)
Outdoors, school grounds	1.00	(0.45)	0.45	(0.37)	0.37	(0.25)	1.16	(0.46)	2.97	(0.40)
Outdoors, sports arena	0.02	(0.01)	0.13	(0.10)	0.30	(0.21)	0.03	(0.01)	0.48	(0.07)
Outdoors, park/golf course	0.25	(0.12)	0.28	(0.22)	0.49	(0.34)	0.29	(0.12)	1.31	(0.18)
Outdoors, other location	0.60	(0.27)	1.49	(1.20)	3.29	(2.29)	0.83	(0.33)	6.21	(0.84)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.36	(10.23)	12.31	(9.99)	14.98	(10.60)	26.27	(10.58)	75.92	(10.38)
In transit, bus	3.40	(1.56)	1.33	(1.08)	0.81	(0.57)	3.76	(1.52)	9.30	(1.27)
In transit, truck	0.77	(0.35)	0.90	(0.73)	1.66	(1.17)	0.86	(0.35)	4.18	(0.57)
In transit, van	0.02	(0.01)	0.27	(0.22)	0.53	(0.38)	0.03	(0.01)	0.85	(0.12)
Indoors, public garage	0.05	(0.02)	0.04	(0.03)	0.06	(0.04)	0.06	(0.02)	0.20	(0.03)
Outdoors, in a parking lot	1.34	(0.61)	0.69	(0.56)	0.77	(0.54)	1.63	(0.66)	4.43	(0.61)
Outdoors, along a roadway	8.38	(3.84)	6.72	(5.46)	10.90	(7.71)	9.86	(3.97)	35.86	(4.90)
In transit, motorcycle	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.04	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.05	(0.02)	0.02	(0.02)	0.01	(0.01)	0.06	(0.02)	0.14	(0.02)
Indoors, in a repair shop	0.05	(0.03)	0.02	(0.02)	0.01	(0.01)	0.06	(0.02)	0.15	(0.02)
Indoors, home	135.03	(61.80)	74.99	(60.87)	80.93	(57.25)	155.29	(62.55)	446.25	(61.02)
Indoors, office	9.04	(4.14)	4.81	(3.90)	5.50	(3.89)	9.18	(3.70)	28.53	(3.90)
Indoors, store	2.88	(1.32)	1.65	(1.34)	2.10	(1.48)	3.35	(1.35)	9.98	(1.37)
Indoors, restaurant	3.78	(1.73)	2.16	(1.75)	2.81	(1.99)	4.57	(1.84)	13.32	(1.82)
Indoors, mfg. facility	2.70	(1.24)	1.23	(1.00)	1.09	(0.77)	3.07	(1.24)	8.09	(1.11)
Indoors, school	16.10	(7.37)	5.61	(4.56)	2.92	(2.07)	16.01	(6.45)	40.65	(5.56)
Indoors, church	0.77	(0.35)	0.31	(0.25)	0.31	(0.22)	0.80	(0.32)	2.19	(0.30)
Indoors, shopping mall	1.61	(0.74)	0.87	(0.71)	1.02	(0.72)	2.03	(0.82)	5.52	(0.75)
Indoors, auditorium	0.11	(0.05)	0.14	(0.12)	0.26	(0.18)	0.13	(0.05)	0.64	(0.09)
Indoors, health care facility	1.41	(0.64)	0.80	(0.65)	1.01	(0.72)	1.46	(0.59)	4.68	(0.64)
Indoors, public building	0.52	(0.24)	0.21	(0.17)	0.19	(0.13)	0.68	(0.27)	1.60	(0.22)
Indoors, other location	4.65	(2.13)	2.18	(1.77)	1.97	(1.39)	5.01	(2.02)	13.81	(1.89)
Indoors, not specified	0.06	(0.03)	0.03	(0.02)	0.02	(0.01)	0.07	(0.03)	0.18	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.50	(0.69)	3.80	(3.08)	7.86	(5.56)	1.76	(0.71)	14.92	(2.04)
Outdoors, school grounds	1.13	(0.52)	0.56	(0.45)	0.37	(0.26)	1.36	(0.55)	3.42	(0.47)
Outdoors, sports arena	0.12	(0.06)	0.14	(0.11)	0.24	(0.17)	0.18	(0.07)	0.68	(0.09)
Outdoors, park/golf course	0.48	(0.22)	0.80	(0.65)	1.61	(1.14)	0.57	(0.23)	3.47	(0.47)
Outdoors, other location	0.11	(0.05)	0.60	(0.48)	1.43	(1.01)	0.12	(0.05)	2.26	(0.31)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.48	(5.90)	8.23	(6.81)	10.80	(8.34)	15.12	(6.36)	46.63	(6.66)
In transit, bus	0.17	(0.08)	0.13	(0.10)	0.30	(0.24)	0.11	(0.05)	0.71	(0.10)
In transit, truck	4.68	(2.21)	1.41	(1.17)	0.74	(0.57)	5.32	(2.24)	12.15	(1.74)
In transit, van	2.56	(1.21)	0.96	(0.79)	0.63	(0.48)	3.15	(1.33)	7.30	(1.04)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.52	(0.24)	0.64	(0.53)	1.08	(0.84)	0.54	(0.23)	2.78	(0.40)
Outdoors, along a roadway	9.02	(4.26)	6.16	(5.09)	8.34	(6.45)	10.29	(4.33)	33.81	(4.83)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.27	(0.13)	0.00	(0.00)	0.00	(0.00)	0.17	(0.07)	0.44	(0.06)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	136.57	(64.54)	76.65	(63.40)	76.59	(59.16)	155.28	(65.32)	445.09	(63.61)
Indoors, office	4.29	(2.03)	2.54	(2.10)	3.14	(2.43)	4.23	(1.78)	14.21	(2.03)
Indoors, store	0.36	(0.17)	0.40	(0.33)	0.70	(0.54)	0.38	(0.16)	1.84	(0.26)
Indoors, restaurant	4.61	(2.18)	2.89	(2.39)	3.67	(2.84)	5.55	(2.33)	16.72	(2.39)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, school	15.70	(7.42)	7.25	(6.00)	7.50	(5.79)	15.29	(6.43)	45.75	(6.54)
Indoors, church	0.49	(0.23)	0.23	(0.19)	0.21	(0.16)	0.58	(0.24)	1.50	(0.21)
Indoors, shopping mall	0.28	(0.13)	0.16	(0.13)	0.09	(0.07)	0.30	(0.13)	0.83	(0.12)
Indoors, auditorium	0.84	(0.40)	0.31	(0.25)	0.21	(0.16)	0.97	(0.41)	2.32	(0.33)
Indoors, health care facility	0.71	(0.34)	0.36	(0.29)	0.21	(0.16)	0.92	(0.39)	2.20	(0.31)
Indoors, public building	0.00	(0.00)	0.60	(0.49)	1.24	(0.96)	0.00	(0.00)	1.84	(0.26)
Indoors, other location	9.57	(4.52)	4.53	(3.74)	3.63	(2.81)	9.74	(4.10)	27.48	(3.93)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, residential grounds	5.91	(2.79)	4.30	(3.56)	5.39	(4.16)	6.92	(2.91)	22.52	(3.22)
Outdoors, school grounds	1.82	(0.86)	1.11	(0.92)	0.90	(0.69)	1.89	(0.79)	5.72	(0.82)
Outdoors, sports arena	0.00	(0.00)	0.15	(0.12)	0.34	(0.27)	0.00	(0.00)	0.49	(0.07)
Outdoors, park/golf course	0.74	(0.35)	0.98	(0.81)	1.65	(1.28)	0.95	(0.40)	4.33	(0.62)
Outdoors, other location	0.00	(0.00)	0.94	(0.78)	2.06	(1.59)	0.00	(0.00)	3.00	(0.43)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.39	(5.23)	7.25	(5.84)	10.07	(6.97)	13.74	(5.45)	42.45	(5.75)
In transit, bus	5.38	(2.47)	2.09	(1.69)	1.24	(0.86)	5.87	(2.33)	14.58	(1.97)
In transit, truck	0.16	(0.07)	0.20	(0.16)	0.39	(0.27)	0.17	(0.07)	0.91	(0.12)
In transit, van	2.18	(1.00)	0.94	(0.75)	0.83	(0.58)	2.39	(0.95)	6.33	(0.86)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.59	(0.27)	0.44	(0.35)	0.66	(0.46)	0.71	(0.28)	2.40	(0.32)
Outdoors, along a roadway	10.18	(4.67)	8.94	(7.20)	15.03	(10.41)	12.41	(4.92)	46.56	(6.30)
In transit, motorcycle	0.05	(0.02)	0.03	(0.02)	0.05	(0.03)	0.07	(0.03)	0.19	(0.03)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.28	(0.13)	0.10	(0.08)	0.07	(0.05)	0.39	(0.15)	0.84	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	146.74	(67.35)	82.37	(66.37)	91.27	(63.20)	172.41	(68.37)	492.80	(66.73)
Indoors, office	0.10	(0.04)	0.17	(0.14)	0.35	(0.24)	0.12	(0.05)	0.74	(0.10)
Indoors, store	1.45	(0.66)	0.89	(0.71)	1.17	(0.81)	1.75	(0.69)	5.26	(0.71)
Indoors, restaurant	1.43	(0.66)	1.02	(0.82)	1.59	(1.10)	1.86	(0.74)	5.90	(0.80)
Indoors, mfg. facility	0.03	(0.01)	0.01	(0.01)	0.01	(0.01)	0.05	(0.02)	0.11	(0.01)
Indoors, school	28.08	(12.89)	10.57	(8.52)	6.77	(4.69)	28.54	(11.32)	73.96	(10.01)
Indoors, church	0.82	(0.38)	0.38	(0.30)	0.41	(0.28)	0.96	(0.38)	2.57	(0.35)
Indoors, shopping mall	0.71	(0.33)	0.49	(0.39)	0.50	(0.35)	0.90	(0.36)	2.60	(0.35)
Indoors, auditorium	0.26	(0.12)	0.12	(0.10)	0.13	(0.09)	0.32	(0.13)	0.83	(0.11)
Indoors, health care facility	0.79	(0.36)	0.56	(0.45)	0.74	(0.51)	0.95	(0.38)	3.04	(0.41)
Indoors, public building	0.22	(0.10)	0.21	(0.17)	0.36	(0.25)	0.25	(0.10)	1.03	(0.14)
Indoors, other location	1.39	(0.64)	0.98	(0.79)	1.44	(1.00)	1.52	(0.60)	5.34	(0.72)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.65	(1.21)	3.52	(2.84)	6.56	(4.54)	3.40	(1.35)	16.12	(2.18)
Outdoors, school grounds	2.47	(1.14)	1.15	(0.93)	0.77	(0.53)	2.73	(1.08)	7.13	(0.96)
Outdoors, sports arena	0.19	(0.09)	0.21	(0.17)	0.39	(0.27)	0.26	(0.10)	1.05	(0.14)
Outdoors, park/golf course	0.19	(0.09)	0.48	(0.39)	1.07	(0.74)	0.26	(0.10)	2.01	(0.27)
Outdoors, other location	0.05	(0.02)	0.97	(0.78)	2.49	(1.73)	0.05	(0.02)	3.57	(0.48)
Outdoors, not specified	0.09	(0.04)	0.03	(0.03)	0.02	(0.02)	0.09	(0.03)	0.24	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.97	(8.72)	15.47	(11.53)	21.33	(13.98)	23.63	(8.81)	80.40	(10.25)
In transit, bus	0.08	(0.04)	0.00	(0.00)	0.00	(0.00)	0.06	(0.02)	0.14	(0.02)
In transit, truck	2.87	(1.25)	4.28	(3.19)	7.93	(5.20)	3.82	(1.42)	18.91	(2.41)
In transit, van	0.00	(0.00)	1.02	(0.76)	1.88	(1.23)	0.00	(0.00)	2.90	(0.37)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.66	(0.72)	1.46	(1.09)	1.87	(1.23)	1.77	(0.66)	6.76	(0.86)
Outdoors, along a roadway	26.06	(11.38)	12.08	(9.00)	8.69	(5.69)	30.19	(11.25)	77.03	(9.82)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.08	(0.03)	0.02	(0.02)	0.02	(0.01)	0.07	(0.03)	0.19	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	143.72	(62.74)	75.98	(56.62)	77.23	(50.62)	169.43	(63.13)	466.37	(59.47)
Indoors, office	5.75	(2.51)	2.25	(1.68)	1.29	(0.85)	5.94	(2.21)	15.23	(1.94)
Indoors, store	1.03	(0.45)	0.42	(0.31)	0.30	(0.20)	1.02	(0.38)	2.77	(0.35)
Indoors, restaurant	2.16	(0.94)	0.91	(0.68)	0.60	(0.39)	2.40	(0.90)	6.08	(0.77)
Indoors, mfg. facility	0.00	(0.00)	3.02	(2.25)	7.40	(4.85)	0.00	(0.00)	10.42	(1.33)
Indoors, school	11.70	(5.11)	4.19	(3.12)	2.18	(1.43)	12.06	(4.49)	30.12	(3.84)
Indoors, church	0.35	(0.15)	0.23	(0.17)	0.34	(0.22)	0.52	(0.19)	1.44	(0.18)
Indoors, shopping mall	1.07	(0.47)	0.32	(0.24)	0.22	(0.14)	1.85	(0.69)	3.47	(0.44)
Indoors, auditorium	0.00	(0.00)	0.66	(0.49)	1.48	(0.97)	0.01	(0.00)	2.14	(0.27)
Indoors, health care facility	0.51	(0.22)	0.22	(0.17)	0.12	(0.08)	0.56	(0.21)	1.42	(0.18)
Indoors, public building	3.03	(1.32)	1.09	(0.81)	0.60	(0.39)	4.01	(1.49)	8.72	(1.11)
Indoors, other location	6.36	(2.78)	2.66	(1.98)	1.98	(1.30)	7.93	(2.95)	18.93	(2.41)
Indoors, not specified	0.05	(0.02)	0.02	(0.01)	0.01	(0.01)	0.05	(0.02)	0.12	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.04	(0.03)	0.00	(0.00)	0.04	(0.01)
Outdoors, residential grounds	0.95	(0.41)	1.31	(0.97)	2.01	(1.31)	1.05	(0.39)	5.31	(0.68)
Outdoors, school grounds	1.53	(0.67)	0.91	(0.67)	0.54	(0.35)	1.78	(0.66)	4.75	(0.61)
Outdoors, sports arena	0.00	(0.00)	0.72	(0.54)	1.61	(1.05)	0.02	(0.01)	2.35	(0.30)
Outdoors, park/golf course	0.09	(0.04)	0.02	(0.02)	0.03	(0.02)	0.15	(0.06)	0.29	(0.04)
Outdoors, other location	0.01	(0.00)	4.94	(3.68)	12.90	(8.46)	0.01	(0.00)	17.86	(2.28)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.03	(0.01)	0.06	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	26.93	(11.70)	15.15	(11.74)	17.29	(11.91)	31.42	(11.86)	90.79	(11.80)
In transit, bus	0.14	(0.06)	0.13	(0.10)	0.22	(0.15)	0.14	(0.05)	0.63	(0.08)
In transit, truck	3.99	(1.73)	1.82	(1.41)	1.83	(1.26)	4.52	(1.71)	12.16	(1.58)
In transit, van	1.59	(0.69)	1.18	(0.91)	1.67	(1.15)	1.69	(0.64)	6.14	(0.80)
Indoors, public garage	1.88	(0.82)	0.83	(0.64)	0.65	(0.45)	2.11	(0.80)	5.47	(0.71)
Outdoors, in a parking lot	1.76	(0.77)	0.96	(0.74)	1.09	(0.75)	1.99	(0.75)	5.80	(0.75)
Outdoors, along a roadway	10.67	(4.63)	6.72	(5.20)	8.59	(5.92)	12.02	(4.54)	37.99	(4.94)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.88	(0.82)	0.77	(0.60)	0.55	(0.38)	2.07	(0.78)	5.27	(0.69)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.05	(0.46)	0.40	(0.31)	0.29	(0.20)	1.23	(0.46)	2.97	(0.39)
Indoors, in a repair shop	0.10	(0.05)	0.00	(0.00)	0.00	(0.00)	0.13	(0.05)	0.23	(0.03)
Indoors, home	132.49	(57.55)	72.38	(56.06)	76.65	(52.80)	155.71	(58.77)	437.24	(56.83)
Indoors, office	17.69	(7.68)	9.83	(7.61)	11.62	(8.00)	18.25	(6.89)	57.38	(7.46)
Indoors, store	2.24	(0.97)	1.74	(1.35)	2.73	(1.88)	2.51	(0.95)	9.21	(1.20)
Indoors, restaurant	3.67	(1.59)	1.73	(1.34)	1.64	(1.13)	4.12	(1.55)	11.15	(1.45)
Indoors, mfg. facility	4.45	(1.93)	2.85	(2.21)	3.41	(2.35)	4.81	(1.82)	15.52	(2.02)
Indoors, school	2.04	(0.89)	0.91	(0.71)	0.85	(0.59)	2.11	(0.80)	5.92	(0.77)
Indoors, church	1.21	(0.53)	0.43	(0.33)	0.36	(0.25)	1.29	(0.49)	3.30	(0.43)
Indoors, shopping mall	0.35	(0.15)	0.25	(0.19)	0.25	(0.17)	0.43	(0.16)	1.28	(0.17)
Indoors, auditorium	0.02	(0.01)	0.05	(0.04)	0.11	(0.08)	0.03	(0.01)	0.22	(0.03)
Indoors, health care facility	1.52	(0.66)	0.77	(0.59)	0.84	(0.58)	1.61	(0.61)	4.73	(0.61)
Indoors, public building	0.27	(0.12)	0.62	(0.48)	1.32	(0.91)	0.28	(0.11)	2.49	(0.32)
Indoors, other location	7.13	(3.10)	3.58	(2.78)	3.68	(2.53)	8.20	(3.09)	22.59	(2.94)
Indoors, not specified	0.18	(0.08)	0.09	(0.07)	0.05	(0.04)	0.27	(0.10)	0.60	(0.08)
Outdoors, construction	1.82	(0.79)	0.76	(0.59)	0.43	(0.30)	2.01	(0.76)	5.02	(0.65)
Outdoors, residential grounds	1.05	(0.46)	2.33	(1.80)	4.98	(3.43)	1.28	(0.48)	9.64	(1.25)
Outdoors, school grounds	0.23	(0.10)	0.10	(0.07)	0.07	(0.05)	0.23	(0.09)	0.63	(0.08)
Outdoors, sports arena	0.02	(0.01)	0.08	(0.06)	0.19	(0.13)	0.03	(0.01)	0.31	(0.04)
Outdoors, park/golf course	0.33	(0.14)	0.36	(0.28)	0.66	(0.45)	0.36	(0.14)	1.71	(0.22)
Outdoors, other location	3.38	(1.47)	2.24	(1.74)	3.14	(2.16)	3.98	(1.50)	12.73	(1.66)
Outdoors, not specified	0.04	(0.02)	0.01	(0.01)	0.01	(0.01)	0.06	(0.02)	0.13	(0.02)
In transit, train	0.06	(0.02)	0.01	(0.01)	0.01	(0.01)	0.06	(0.02)	0.14	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.07	(8.95)	11.36	(9.27)	14.20	(10.18)	22.74	(9.19)	67.37	(9.32)
In transit, bus	0.27	(0.13)	0.21	(0.17)	0.34	(0.25)	0.33	(0.13)	1.16	(0.16)
In transit, truck	0.05	(0.02)	0.00	(0.00)	0.00	(0.00)	0.14	(0.06)	0.19	(0.03)
In transit, van	0.13	(0.06)	0.11	(0.09)	0.19	(0.14)	0.12	(0.05)	0.54	(0.08)
Indoors, public garage	0.08	(0.04)	0.03	(0.02)	0.02	(0.01)	0.10	(0.04)	0.23	(0.03)
Outdoors, in a parking lot	0.63	(0.30)	0.60	(0.49)	0.94	(0.68)	0.72	(0.29)	2.90	(0.40)
Outdoors, along a roadway	6.63	(3.11)	5.60	(4.57)	8.55	(6.13)	7.56	(3.05)	28.35	(3.92)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.04	(0.02)	0.01	(0.01)	0.01	(0.01)	0.05	(0.02)	0.10	(0.01)
Indoors, in a repair shop	0.09	(0.04)	0.04	(0.03)	0.02	(0.02)	0.10	(0.04)	0.25	(0.03)
Indoors, home	163.31	(76.61)	91.02	(74.27)	97.84	(70.09)	189.49	(76.54)	541.66	(74.93)
Indoors, office	0.15	(0.07)	0.06	(0.05)	0.09	(0.06)	0.17	(0.07)	0.47	(0.06)
Indoors, store	2.29	(1.08)	2.23	(1.82)	3.77	(2.70)	2.53	(1.02)	10.82	(1.50)
Indoors, restaurant	3.08	(1.45)	1.63	(1.33)	1.67	(1.19)	3.91	(1.58)	10.29	(1.42)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	6.99	(3.28)	2.61	(2.13)	1.88	(1.35)	7.52	(3.04)	19.01	(2.63)
Indoors, church	1.03	(0.48)	0.44	(0.36)	0.44	(0.32)	1.16	(0.47)	3.07	(0.42)
Indoors, shopping mall	0.03	(0.02)	0.17	(0.14)	0.39	(0.28)	0.08	(0.03)	0.67	(0.09)
Indoors, auditorium	0.45	(0.21)	0.23	(0.19)	0.30	(0.21)	0.53	(0.21)	1.51	(0.21)
Indoors, health care facility	0.60	(0.28)	0.30	(0.24)	0.33	(0.24)	0.72	(0.29)	1.95	(0.27)
Indoors, public building	0.35	(0.17)	0.20	(0.17)	0.27	(0.19)	0.42	(0.17)	1.24	(0.17)
Indoors, other location	5.35	(2.51)	2.44	(1.99)	2.35	(1.68)	6.02	(2.43)	16.15	(2.23)
Indoors, not specified	0.00	(0.00)	0.05	(0.04)	0.14	(0.10)	0.00	(0.00)	0.19	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.56	(0.73)	1.60	(1.30)	2.45	(1.76)	1.92	(0.77)	7.53	(1.04)
Outdoors, school grounds	0.75	(0.35)	0.33	(0.27)	0.40	(0.28)	0.98	(0.39)	2.45	(0.34)
Outdoors, sports arena	0.00	(0.00)	0.10	(0.08)	0.26	(0.19)	0.02	(0.01)	0.38	(0.05)
Outdoors, park/golf course	0.11	(0.05)	0.50	(0.41)	1.13	(0.81)	0.13	(0.05)	1.87	(0.26)
Outdoors, other location	0.10	(0.04)	0.66	(0.54)	1.58	(1.13)	0.11	(0.04)	2.45	(0.34)
Outdoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	22.01	(10.05)	12.38	(9.98)	15.08	(10.66)	26.00	(10.30)	75.48	(10.24)
In transit, bus	1.60	(0.73)	0.90	(0.73)	0.98	(0.69)	1.83	(0.72)	5.31	(0.72)
In transit, truck	1.84	(0.84)	0.91	(0.73)	1.00	(0.70)	2.16	(0.85)	5.90	(0.80)
In transit, van	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, public garage	0.15	(0.07)	0.06	(0.05)	0.04	(0.03)	0.17	(0.07)	0.41	(0.06)
Outdoors, in a parking lot	1.01	(0.46)	0.67	(0.54)	0.94	(0.66)	1.19	(0.47)	3.82	(0.52)
Outdoors, along a roadway	5.97	(2.73)	4.30	(3.47)	6.33	(4.47)	6.88	(2.73)	23.49	(3.19)
In transit, motorcycle	0.00	(0.00)	0.52	(0.42)	1.37	(0.97)	0.00	(0.00)	1.88	(0.26)
Indoors, service station	0.04	(0.02)	0.02	(0.01)	0.01	(0.01)	0.04	(0.02)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.04	(0.02)	0.01	(0.01)	0.01	(0.00)	0.04	(0.02)	0.09	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	137.45	(62.75)	76.98	(62.10)	84.13	(59.46)	160.16	(63.46)	458.72	(62.25)
Indoors, office	19.33	(8.82)	9.52	(7.67)	9.51	(6.72)	20.03	(7.94)	58.37	(7.92)
Indoors, store	4.88	(2.23)	2.67	(2.15)	2.83	(2.00)	5.82	(2.31)	16.20	(2.20)
Indoors, restaurant	4.62	(2.11)	2.68	(2.16)	3.38	(2.39)	5.64	(2.23)	16.32	(2.21)
Indoors, mfg. facility	2.30	(1.05)	0.82	(0.66)	0.43	(0.30)	2.32	(0.92)	5.87	(0.80)
Indoors, school	5.32	(2.43)	1.95	(1.57)	1.12	(0.79)	5.46	(2.16)	13.85	(1.88)
Indoors, church	1.17	(0.54)	0.50	(0.40)	0.51	(0.36)	1.31	(0.52)	3.48	(0.47)
Indoors, shopping mall	1.20	(0.55)	0.56	(0.45)	0.47	(0.34)	1.55	(0.62)	3.79	(0.51)
Indoors, auditorium	0.17	(0.08)	0.12	(0.10)	0.18	(0.12)	0.21	(0.08)	0.67	(0.09)
Indoors, health care facility	2.60	(1.19)	1.14	(0.92)	1.00	(0.71)	2.96	(1.17)	7.70	(1.05)
Indoors, public building	0.40	(0.18)	0.45	(0.36)	0.73	(0.52)	0.40	(0.16)	1.98	(0.27)
Indoors, other location	5.71	(2.61)	2.80	(2.26)	2.75	(1.94)	6.65	(2.64)	17.91	(2.43)
Indoors, not specified	0.05	(0.02)	0.03	(0.02)	0.01	(0.01)	0.07	(0.03)	0.16	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.62	(0.28)	1.88	(1.51)	3.98	(2.81)	0.69	(0.28)	7.17	(0.97)
Outdoors, school grounds	0.16	(0.07)	0.08	(0.07)	0.10	(0.07)	0.25	(0.10)	0.59	(0.08)
Outdoors, sports arena	0.03	(0.01)	0.10	(0.08)	0.24	(0.17)	0.04	(0.02)	0.41	(0.06)
Outdoors, park/golf course	0.13	(0.06)	0.54	(0.44)	1.15	(0.81)	0.18	(0.07)	2.01	(0.27)
Outdoors, other location	0.04	(0.02)	1.34	(1.08)	3.20	(2.26)	0.05	(0.02)	4.64	(0.63)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.22	(0.10)	0.07	(0.06)	0.04	(0.03)	0.26	(0.10)	0.59	(0.08)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	18.30	(8.74)	10.30	(8.43)	11.59	(8.30)	20.86	(8.57)	61.06	(8.54)
In transit, bus	0.01	(0.01)	0.00	(0.00)	0.16	(0.12)	0.18	(0.07)	0.35	(0.05)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.74	(0.35)	0.27	(0.22)	0.17	(0.13)	0.69	(0.28)	1.87	(0.26)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.30	(0.62)	0.71	(0.58)	0.64	(0.46)	1.40	(0.57)	4.05	(0.57)
Outdoors, along a roadway	5.19	(2.48)	2.92	(2.39)	3.02	(2.16)	6.42	(2.64)	17.55	(2.46)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.39	(0.67)	0.81	(0.66)	0.54	(0.39)	1.51	(0.62)	4.25	(0.60)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	163.33	(78.05)	87.85	(71.85)	90.44	(64.71)	191.12	(78.54)	532.74	(74.55)
Indoors, office	0.12	(0.06)	0.16	(0.13)	0.29	(0.21)	0.13	(0.05)	0.70	(0.10)
Indoors, store	1.39	(0.66)	1.83	(1.50)	3.21	(2.30)	1.51	(0.62)	7.94	(1.11)
Indoors, restaurant	0.29	(0.14)	0.43	(0.35)	0.94	(0.67)	0.36	(0.15)	2.02	(0.28)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	4.28	(2.04)	1.73	(1.41)	1.09	(0.78)	4.97	(2.04)	12.06	(1.69)
Indoors, church	0.75	(0.36)	0.37	(0.30)	0.22	(0.16)	0.79	(0.33)	2.14	(0.30)
Indoors, shopping mall	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.32	(0.13)	0.34	(0.05)
Indoors, auditorium	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, health care facility	5.75	(2.75)	1.98	(1.62)	0.96	(0.69)	5.95	(2.45)	14.64	(2.05)
Indoors, public building	0.01	(0.00)	0.31	(0.26)	0.78	(0.56)	0.00	(0.00)	1.11	(0.15)
Indoors, other location	4.19	(2.00)	2.01	(1.65)	1.97	(1.41)	4.93	(2.02)	13.11	(1.83)
Indoors, not specified	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.20	(1.05)	9.95	(8.14)	21.83	(15.62)	2.16	(0.89)	36.14	(5.06)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.00	(0.00)	0.02	(0.00)
Outdoors, park/golf course	0.00	(0.00)	0.45	(0.37)	1.31	(0.93)	0.02	(0.01)	1.78	(0.25)
Outdoors, other location	0.00	(0.00)	0.18	(0.15)	0.54	(0.38)	0.00	(0.00)	0.72	(0.10)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	31.20	(13.40)	16.28	(12.60)	18.07	(12.60)	36.36	(13.62)	101.91	(13.19)
In transit, bus	1.99	(0.85)	0.64	(0.49)	0.35	(0.25)	2.34	(0.88)	5.32	(0.69)
In transit, truck	8.02	(3.44)	3.49	(2.70)	2.56	(1.79)	8.46	(3.17)	22.53	(2.92)
In transit, van	0.74	(0.32)	0.31	(0.24)	0.23	(0.16)	0.88	(0.33)	2.16	(0.28)
Indoors, public garage	1.03	(0.44)	0.39	(0.30)	0.20	(0.14)	1.13	(0.42)	2.75	(0.36)
Outdoors, in a parking lot	1.41	(0.60)	0.73	(0.57)	0.80	(0.56)	1.69	(0.63)	4.62	(0.60)
Outdoors, along a roadway	6.62	(2.84)	5.26	(4.07)	7.94	(5.54)	7.68	(2.88)	27.51	(3.56)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.59	(0.25)	0.18	(0.14)	0.12	(0.08)	0.54	(0.20)	1.43	(0.18)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	127.65	(54.82)	71.21	(55.11)	75.75	(52.85)	150.03	(56.18)	424.65	(54.98)
Indoors, office	18.39	(7.89)	12.65	(9.79)	17.79	(12.41)	19.00	(7.11)	67.82	(8.78)
Indoors, store	5.75	(2.47)	2.15	(1.67)	1.51	(1.05)	6.24	(2.34)	15.65	(2.03)
Indoors, restaurant	4.54	(1.95)	2.56	(1.98)	3.11	(2.17)	5.59	(2.09)	15.80	(2.05)
Indoors, mfg. facility	5.39	(2.32)	3.64	(2.82)	4.96	(3.46)	5.97	(2.23)	19.96	(2.58)
Indoors, school	3.18	(1.36)	1.11	(0.86)	0.61	(0.42)	3.36	(1.26)	8.25	(1.07)
Indoors, church	1.09	(0.47)	0.47	(0.36)	0.42	(0.29)	1.16	(0.44)	3.14	(0.41)
Indoors, shopping mall	0.10	(0.04)	0.03	(0.02)	0.02	(0.02)	0.25	(0.09)	0.40	(0.05)
Indoors, auditorium	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Indoors, health care facility	0.14	(0.06)	0.03	(0.03)	0.02	(0.01)	0.13	(0.05)	0.33	(0.04)
Indoors, public building	1.02	(0.44)	0.41	(0.32)	0.39	(0.27)	1.22	(0.46)	3.04	(0.39)
Indoors, other location	12.19	(5.23)	4.52	(3.50)	2.46	(1.72)	12.72	(4.76)	31.88	(4.13)
Indoors, not specified	0.15	(0.06)	0.04	(0.03)	0.02	(0.02)	0.15	(0.06)	0.36	(0.05)
Outdoors, construction	0.00	(0.00)	0.37	(0.29)	0.85	(0.59)	0.00	(0.00)	1.22	(0.16)
Outdoors, residential grounds	0.62	(0.26)	1.74	(1.35)	3.62	(2.53)	0.71	(0.27)	6.69	(0.87)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.41	(0.17)	0.36	(0.28)	0.57	(0.39)	0.42	(0.16)	1.75	(0.23)
Outdoors, other location	0.66	(0.28)	0.64	(0.49)	1.00	(0.70)	1.02	(0.38)	3.31	(0.43)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.76	(4.80)	6.42	(5.45)	8.31	(6.19)	11.39	(4.85)	35.88	(5.20)
In transit, bus	0.23	(0.11)	0.12	(0.10)	0.07	(0.06)	0.24	(0.10)	0.66	(0.10)
In transit, truck	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.07	(0.03)	0.09	(0.01)
In transit, van	0.99	(0.49)	0.35	(0.30)	0.26	(0.19)	1.34	(0.57)	2.94	(0.43)
Indoors, public garage	0.02	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.01)	0.06	(0.01)
Outdoors, in a parking lot	0.53	(0.26)	0.49	(0.42)	0.87	(0.65)	0.58	(0.25)	2.47	(0.36)
Outdoors, along a roadway	3.80	(1.87)	3.11	(2.65)	5.00	(3.73)	4.45	(1.89)	16.37	(2.37)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	173.78	(85.52)	96.29	(81.82)	102.78	(76.57)	200.06	(85.13)	572.91	(83.02)
Indoors, office	0.47	(0.23)	0.28	(0.24)	0.29	(0.21)	0.50	(0.21)	1.54	(0.22)
Indoors, store	2.26	(1.11)	1.18	(1.00)	1.28	(0.96)	2.53	(1.08)	7.26	(1.05)
Indoors, restaurant	2.64	(1.30)	2.19	(1.86)	3.40	(2.53)	3.21	(1.37)	11.45	(1.66)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.76	(0.37)	0.23	(0.20)	0.17	(0.13)	0.96	(0.41)	2.12	(0.31)
Indoors, church	1.48	(0.73)	0.66	(0.56)	0.55	(0.41)	1.64	(0.70)	4.32	(0.63)
Indoors, shopping mall	1.03	(0.51)	0.77	(0.65)	1.32	(0.98)	1.32	(0.56)	4.44	(0.64)
Indoors, auditorium	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, health care facility	0.42	(0.21)	0.37	(0.31)	0.60	(0.45)	0.42	(0.18)	1.82	(0.26)
Indoors, public building	0.54	(0.27)	0.23	(0.20)	0.22	(0.17)	0.73	(0.31)	1.72	(0.25)
Indoors, other location	2.53	(1.24)	1.41	(1.19)	1.75	(1.30)	3.25	(1.38)	8.93	(1.29)
Indoors, not specified	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.85	(0.91)	2.66	(2.26)	5.21	(3.88)	2.19	(0.93)	11.90	(1.72)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, park/golf course	0.00	(0.00)	0.38	(0.33)	0.88	(0.65)	0.00	(0.00)	1.26	(0.18)
Outdoors, other location	0.07	(0.04)	0.53	(0.45)	1.25	(0.93)	0.08	(0.03)	1.94	(0.28)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	18.39	(8.43)	10.47	(8.53)	12.58	(9.14)	21.83	(8.70)	63.26	(8.67)
In transit, bus	1.51	(0.69)	0.72	(0.59)	0.78	(0.57)	1.79	(0.71)	4.80	(0.66)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.36	(0.16)	0.10	(0.08)	0.06	(0.04)	0.41	(0.16)	0.93	(0.13)
Indoors, public garage	0.10	(0.04)	0.04	(0.03)	0.02	(0.01)	0.11	(0.04)	0.26	(0.04)
Outdoors, in a parking lot	0.84	(0.39)	1.15	(0.94)	2.15	(1.57)	0.93	(0.37)	5.08	(0.70)
Outdoors, along a roadway	5.25	(2.40)	4.08	(3.33)	6.14	(4.46)	6.14	(2.45)	21.61	(2.96)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.05	(0.02)	0.01	(0.01)	0.01	(0.00)	0.05	(0.02)	0.12	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	136.19	(62.39)	78.75	(64.19)	87.71	(63.74)	159.17	(63.41)	461.81	(63.30)
Indoors, office	20.69	(9.48)	8.58	(6.99)	6.79	(4.93)	21.00	(8.37)	57.06	(7.82)
Indoors, store	3.77	(1.73)	2.34	(1.90)	2.91	(2.12)	4.44	(1.77)	13.46	(1.84)
Indoors, restaurant	9.42	(4.31)	4.34	(3.53)	3.96	(2.88)	11.17	(4.45)	28.88	(3.96)
Indoors, mfg. facility	0.00	(0.00)	1.78	(1.45)	4.36	(3.17)	0.00	(0.00)	6.14	(0.84)
Indoors, school	3.98	(1.82)	1.96	(1.60)	1.95	(1.42)	4.04	(1.61)	11.93	(1.64)
Indoors, church	0.91	(0.42)	0.68	(0.55)	1.07	(0.78)	1.04	(0.41)	3.70	(0.51)
Indoors, shopping mall	2.13	(0.98)	1.07	(0.87)	0.64	(0.47)	2.23	(0.89)	6.08	(0.83)
Indoors, auditorium	0.07	(0.03)	0.03	(0.03)	0.02	(0.02)	0.09	(0.03)	0.21	(0.03)
Indoors, health care facility	4.42	(2.02)	1.72	(1.41)	0.89	(0.65)	4.70	(1.87)	11.73	(1.61)
Indoors, public building	0.05	(0.02)	0.12	(0.10)	0.23	(0.17)	0.04	(0.02)	0.43	(0.06)
Indoors, other location	8.30	(3.80)	2.98	(2.43)	2.10	(1.52)	10.00	(3.98)	23.37	(3.20)
Indoors, not specified	0.07	(0.03)	0.23	(0.18)	0.60	(0.43)	0.07	(0.03)	0.96	(0.13)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.41	(0.64)	0.94	(0.76)	1.51	(1.10)	1.35	(0.54)	5.21	(0.71)
Outdoors, school grounds	0.22	(0.10)	0.10	(0.08)	0.06	(0.04)	0.23	(0.09)	0.60	(0.08)
Outdoors, sports arena	0.00	(0.00)	0.23	(0.19)	0.56	(0.40)	0.00	(0.00)	0.79	(0.11)
Outdoors, park/golf course	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Outdoors, other location	0.14	(0.06)	0.28	(0.23)	0.52	(0.38)	0.15	(0.06)	1.10	(0.15)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	31.08	(14.13)	16.00	(12.41)	17.18	(11.46)	34.44	(13.57)	98.70	(13.12)
In transit, bus	3.00	(1.36)	1.17	(0.91)	0.61	(0.41)	3.21	(1.26)	8.00	(1.06)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.02	(0.01)	0.04	(0.03)	0.00	(0.00)	0.06	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.38	(0.63)	1.48	(1.15)	2.43	(1.62)	1.46	(0.58)	6.75	(0.90)
Outdoors, along a roadway	7.43	(3.38)	8.79	(6.82)	16.19	(10.80)	8.54	(3.37)	40.95	(5.44)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.04	(0.03)	0.11	(0.07)	0.00	(0.00)	0.15	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.01)	0.01	(0.01)	0.01	(0.00)	0.03	(0.01)	0.08	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	148.60	(67.53)	85.10	(66.01)	93.70	(62.51)	174.14	(68.64)	501.53	(66.65)
Indoors, office	5.66	(2.57)	2.35	(1.82)	1.43	(0.96)	5.90	(2.32)	15.33	(2.04)
Indoors, store	1.04	(0.47)	0.83	(0.65)	1.53	(1.02)	1.31	(0.51)	4.71	(0.63)
Indoors, restaurant	6.64	(3.02)	3.70	(2.87)	4.51	(3.01)	7.17	(2.82)	22.01	(2.93)
Indoors, mfg. facility	2.09	(0.95)	0.73	(0.57)	0.37	(0.25)	2.09	(0.82)	5.28	(0.70)
Indoors, school	0.04	(0.02)	0.00	(0.00)	0.00	(0.00)	0.03	(0.01)	0.07	(0.01)
Indoors, church	1.83	(0.83)	0.82	(0.63)	0.75	(0.50)	1.95	(0.77)	5.35	(0.71)
Indoors, shopping mall	0.11	(0.05)	0.97	(0.75)	2.57	(1.72)	0.07	(0.03)	3.73	(0.50)
Indoors, auditorium	1.55	(0.70)	0.50	(0.39)	0.35	(0.24)	1.89	(0.75)	4.30	(0.57)
Indoors, health care facility	0.37	(0.17)	0.61	(0.47)	1.10	(0.73)	0.38	(0.15)	2.47	(0.33)
Indoors, public building	0.10	(0.05)	0.07	(0.05)	0.11	(0.07)	0.10	(0.04)	0.38	(0.05)
Indoors, other location	5.42	(2.46)	2.15	(1.67)	1.31	(0.88)	6.44	(2.54)	15.33	(2.04)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.38	(0.62)	2.34	(1.81)	4.07	(2.71)	1.67	(0.66)	9.45	(1.26)
Outdoors, school grounds	1.07	(0.49)	0.31	(0.24)	0.20	(0.13)	1.65	(0.65)	3.23	(0.43)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	1.01	(0.46)	0.45	(0.35)	0.24	(0.16)	1.03	(0.41)	2.73	(0.36)
Outdoors, other location	0.00	(0.00)	0.40	(0.31)	1.00	(0.67)	0.00	(0.00)	1.40	(0.19)
Outdoors, not specified	0.17	(0.08)	0.09	(0.07)	0.05	(0.03)	0.18	(0.07)	0.48	(0.06)
In transit, train	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.06	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.90	(5.33)	8.79	(7.33)	13.81	(9.86)	12.21	(5.19)	45.72	(6.53)
In transit, bus	0.72	(0.35)	0.48	(0.40)	0.68	(0.49)	0.73	(0.31)	2.61	(0.37)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, public garage	0.01	(0.01)	0.14	(0.11)	0.29	(0.20)	0.03	(0.01)	0.47	(0.07)
Outdoors, in a parking lot	0.22	(0.11)	0.23	(0.19)	0.45	(0.32)	0.26	(0.11)	1.16	(0.17)
Outdoors, along a roadway	2.94	(1.44)	3.69	(3.07)	6.62	(4.73)	3.37	(1.43)	16.61	(2.37)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	175.94	(86.03)	97.12	(80.98)	104.76	(74.83)	203.41	(86.50)	581.24	(83.08)
Indoors, office	0.18	(0.09)	0.03	(0.02)	0.02	(0.01)	0.14	(0.06)	0.37	(0.05)
Indoors, store	0.56	(0.27)	2.03	(1.70)	4.76	(3.40)	0.69	(0.29)	8.04	(1.15)
Indoors, restaurant	2.06	(1.01)	1.77	(1.47)	2.52	(1.80)	2.23	(0.95)	8.57	(1.23)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, church	2.32	(1.14)	0.92	(0.77)	0.70	(0.50)	2.66	(1.13)	6.61	(0.94)
Indoors, shopping mall	4.89	(2.39)	2.04	(1.70)	1.11	(0.79)	4.90	(2.08)	12.94	(1.85)
Indoors, auditorium	0.10	(0.05)	0.05	(0.05)	0.03	(0.02)	0.11	(0.05)	0.29	(0.04)
Indoors, health care facility	0.63	(0.31)	0.21	(0.18)	0.11	(0.08)	0.66	(0.28)	1.62	(0.23)
Indoors, public building	0.44	(0.22)	0.19	(0.16)	0.12	(0.09)	0.45	(0.19)	1.20	(0.17)
Indoors, other location	1.91	(0.93)	1.46	(1.22)	2.35	(1.68)	2.63	(1.12)	8.35	(1.19)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.35	(0.17)	0.58	(0.48)	1.36	(0.97)	0.36	(0.15)	2.65	(0.38)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.34	(0.17)	0.14	(0.11)	0.10	(0.07)	0.32	(0.13)	0.89	(0.13)
Outdoors, park/golf course	0.00	(0.00)	0.02	(0.01)	0.05	(0.03)	0.00	(0.00)	0.06	(0.01)
Outdoors, other location	0.00	(0.00)	0.05	(0.04)	0.17	(0.12)	0.00	(0.00)	0.22	(0.03)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.39	(5.30)	9.70	(6.68)	13.90	(8.11)	16.12	(5.48)	53.12	(6.15)
In transit, bus	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.00	(0.00)	0.03	(0.00)
In transit, truck	16.32	(6.46)	8.41	(5.79)	10.40	(6.07)	18.51	(6.30)	53.64	(6.21)
In transit, van	0.10	(0.04)	0.00	(0.00)	0.00	(0.00)	0.07	(0.02)	0.16	(0.02)
Indoors, public garage	5.25	(2.08)	1.93	(1.33)	1.05	(0.61)	6.59	(2.24)	14.82	(1.72)
Outdoors, in a parking lot	4.72	(1.87)	2.21	(1.52)	2.08	(1.21)	5.14	(1.75)	14.15	(1.64)
Outdoors, along a roadway	30.19	(11.96)	22.16	(15.26)	33.34	(19.44)	33.24	(11.31)	118.94	(13.78)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.05	(0.42)	0.18	(0.13)	0.10	(0.06)	0.88	(0.30)	2.22	(0.26)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.19	(0.07)	0.05	(0.04)	0.03	(0.02)	0.57	(0.19)	0.84	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, home	126.57	(50.13)	66.57	(45.84)	67.66	(39.45)	149.34	(50.80)	410.14	(47.52)
Indoors, office	1.54	(0.61)	0.51	(0.35)	0.27	(0.16)	1.54	(0.52)	3.86	(0.45)
Indoors, store	0.67	(0.27)	0.24	(0.17)	0.16	(0.09)	0.85	(0.29)	1.92	(0.22)
Indoors, restaurant	1.84	(0.73)	1.40	(0.96)	1.90	(1.11)	2.29	(0.78)	7.43	(0.86)
Indoors, mfg. facility	5.56	(2.20)	7.41	(5.10)	12.97	(7.56)	5.91	(2.01)	31.85	(3.69)
Indoors, school	2.35	(0.93)	0.88	(0.61)	0.45	(0.26)	2.42	(0.82)	6.11	(0.71)
Indoors, church	1.06	(0.42)	0.33	(0.23)	0.22	(0.13)	1.49	(0.51)	3.10	(0.36)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.00	(0.00)	0.28	(0.20)	0.76	(0.44)	0.04	(0.01)	1.08	(0.13)
Indoors, health care facility	0.00	(0.00)	0.18	(0.12)	0.47	(0.27)	0.00	(0.00)	0.65	(0.07)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	1.87	(0.74)	0.62	(0.42)	0.35	(0.20)	2.00	(0.68)	4.83	(0.56)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	12.23	(4.84)	7.38	(5.08)	8.27	(4.82)	13.96	(4.75)	41.84	(4.85)
Outdoors, residential grounds	2.82	(1.12)	1.44	(0.99)	1.24	(0.73)	3.30	(1.12)	8.80	(1.02)
Outdoors, school grounds	0.16	(0.07)	0.08	(0.06)	0.05	(0.03)	0.18	(0.06)	0.48	(0.06)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	1.13	(0.45)	0.46	(0.32)	0.27	(0.16)	1.14	(0.39)	3.00	(0.35)
Outdoors, other location	23.45	(9.29)	12.77	(8.80)	15.51	(9.05)	28.39	(9.66)	80.13	(9.28)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.17	(5.82)	8.57	(6.71)	12.12	(8.17)	15.76	(6.04)	49.61	(6.50)
In transit, bus	7.83	(3.46)	2.88	(2.26)	1.74	(1.17)	8.51	(3.26)	20.97	(2.75)
In transit, truck	0.22	(0.10)	0.14	(0.11)	0.20	(0.14)	0.20	(0.08)	0.76	(0.10)
In transit, van	0.19	(0.09)	0.14	(0.11)	0.20	(0.14)	0.21	(0.08)	0.75	(0.10)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.77	(0.34)	0.50	(0.39)	0.67	(0.45)	0.98	(0.38)	2.92	(0.38)
Outdoors, along a roadway	15.56	(6.88)	12.29	(9.63)	19.73	(13.30)	18.92	(7.25)	66.50	(8.72)
In transit, motorcycle	0.14	(0.06)	0.03	(0.02)	0.02	(0.01)	0.21	(0.08)	0.40	(0.05)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.06	(0.02)	0.03	(0.03)	0.04	(0.03)	0.09	(0.03)	0.22	(0.03)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	132.15	(58.44)	74.77	(58.59)	83.14	(56.08)	155.92	(59.77)	445.99	(58.46)
Indoors, office	0.06	(0.02)	0.25	(0.20)	0.57	(0.39)	0.07	(0.02)	0.94	(0.12)
Indoors, store	1.18	(0.52)	0.90	(0.70)	1.40	(0.94)	1.58	(0.60)	5.06	(0.66)
Indoors, restaurant	2.54	(1.12)	1.50	(1.18)	2.05	(1.38)	3.04	(1.17)	9.13	(1.20)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	38.33	(16.95)	13.58	(10.64)	7.81	(5.27)	38.72	(14.84)	98.44	(12.90)
Indoors, church	0.91	(0.40)	0.48	(0.37)	0.57	(0.38)	1.04	(0.40)	2.99	(0.39)
Indoors, shopping mall	0.71	(0.31)	0.45	(0.35)	0.34	(0.23)	0.88	(0.34)	2.37	(0.31)
Indoors, auditorium	0.30	(0.13)	0.15	(0.12)	0.18	(0.12)	0.38	(0.15)	1.01	(0.13)
Indoors, health care facility	0.93	(0.41)	0.45	(0.36)	0.42	(0.28)	1.14	(0.44)	2.93	(0.38)
Indoors, public building	0.64	(0.28)	0.34	(0.27)	0.42	(0.29)	0.72	(0.28)	2.12	(0.28)
Indoors, other location	1.32	(0.58)	0.93	(0.73)	1.29	(0.87)	1.53	(0.59)	5.07	(0.66)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, residential grounds	3.04	(1.34)	4.12	(3.23)	7.77	(5.24)	3.99	(1.53)	18.92	(2.48)
Outdoors, school grounds	5.19	(2.30)	2.43	(1.90)	1.48	(1.00)	5.86	(2.25)	14.96	(1.96)
Outdoors, sports arena	0.53	(0.23)	0.47	(0.37)	0.77	(0.52)	0.74	(0.28)	2.50	(0.33)
Outdoors, park/golf course	0.21	(0.09)	0.71	(0.56)	1.62	(1.09)	0.28	(0.11)	2.82	(0.37)
Outdoors, other location	0.15	(0.06)	1.50	(1.17)	3.70	(2.50)	0.15	(0.06)	5.49	(0.72)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.73	(4.67)	6.58	(5.49)	9.07	(6.60)	11.35	(4.71)	36.73	(5.20)
In transit, bus	3.43	(1.64)	1.49	(1.25)	1.00	(0.72)	3.98	(1.65)	9.90	(1.40)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	1.24	(0.59)	0.45	(0.37)	0.36	(0.26)	1.72	(0.71)	3.76	(0.53)
Indoors, public garage	0.00	(0.00)	0.04	(0.03)	0.08	(0.06)	0.00	(0.00)	0.12	(0.02)
Outdoors, in a parking lot	0.56	(0.27)	0.36	(0.30)	0.50	(0.36)	0.65	(0.27)	2.07	(0.29)
Outdoors, along a roadway	4.47	(2.14)	4.30	(3.59)	7.53	(5.48)	5.44	(2.26)	21.74	(3.08)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.10	(0.05)	0.06	(0.05)	0.03	(0.02)	0.12	(0.05)	0.31	(0.04)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	159.46	(76.46)	90.63	(75.59)	101.19	(73.57)	185.49	(77.00)	536.78	(75.94)
Indoors, office	6.73	(3.23)	3.13	(2.61)	2.88	(2.09)	6.89	(2.86)	19.64	(2.78)
Indoors, store	0.95	(0.46)	0.90	(0.75)	1.42	(1.04)	1.24	(0.52)	4.52	(0.64)
Indoors, restaurant	2.37	(1.14)	2.11	(1.76)	3.29	(2.39)	3.14	(1.30)	10.91	(1.54)
Indoors, mfg. facility	2.95	(1.42)	1.11	(0.93)	0.62	(0.45)	3.04	(1.26)	7.73	(1.09)
Indoors, school	9.32	(4.47)	3.30	(2.75)	1.68	(1.22)	9.53	(3.96)	23.83	(3.37)
Indoors, church	1.85	(0.89)	0.74	(0.61)	0.50	(0.37)	2.07	(0.86)	5.16	(0.73)
Indoors, shopping mall	1.28	(0.61)	1.06	(0.89)	1.48	(1.07)	1.27	(0.53)	5.09	(0.72)
Indoors, auditorium	0.11	(0.05)	0.03	(0.03)	0.02	(0.01)	0.15	(0.06)	0.32	(0.05)
Indoors, health care facility	0.83	(0.40)	0.44	(0.37)	0.56	(0.40)	0.86	(0.36)	2.68	(0.38)
Indoors, public building	0.08	(0.04)	0.29	(0.24)	0.61	(0.44)	0.08	(0.03)	1.05	(0.15)
Indoors, other location	0.45	(0.21)	0.44	(0.37)	0.70	(0.51)	0.53	(0.22)	2.11	(0.30)
Indoors, not specified	0.00	(0.00)	0.14	(0.12)	0.44	(0.32)	0.01	(0.00)	0.59	(0.08)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.37	(0.66)	1.60	(1.33)	2.91	(2.12)	1.66	(0.69)	7.54	(1.07)
Outdoors, school grounds	1.15	(0.55)	0.54	(0.45)	0.33	(0.24)	1.51	(0.63)	3.53	(0.50)
Outdoors, sports arena	0.03	(0.01)	0.01	(0.01)	0.00	(0.00)	0.03	(0.01)	0.07	(0.01)
Outdoors, park/golf course	0.02	(0.01)	0.09	(0.07)	0.19	(0.14)	0.02	(0.01)	0.31	(0.04)
Outdoors, other location	0.06	(0.03)	0.07	(0.05)	0.13	(0.10)	0.07	(0.03)	0.33	(0.05)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Phoenix: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.26	(8.77)	10.98	(8.79)	13.26	(9.29)	22.70	(8.94)	66.20	(8.93)
In transit, bus	2.09	(0.95)	0.90	(0.72)	0.69	(0.48)	2.32	(0.91)	5.99	(0.81)
In transit, truck	1.78	(0.81)	0.84	(0.67)	0.81	(0.57)	2.00	(0.79)	5.43	(0.73)
In transit, van	1.03	(0.47)	0.54	(0.44)	0.61	(0.42)	1.14	(0.45)	3.32	(0.45)
Indoors, public garage	0.45	(0.20)	0.19	(0.15)	0.14	(0.10)	0.50	(0.20)	1.28	(0.17)
Outdoors, in a parking lot	0.99	(0.45)	0.71	(0.57)	1.02	(0.71)	1.14	(0.45)	3.87	(0.52)
Outdoors, along a roadway	8.22	(3.74)	6.57	(5.26)	10.16	(7.12)	9.62	(3.79)	34.57	(4.66)
In transit, motorcycle	0.01	(0.00)	0.08	(0.07)	0.21	(0.15)	0.02	(0.01)	0.32	(0.04)
Indoors, service station	0.38	(0.17)	0.15	(0.12)	0.10	(0.07)	0.40	(0.16)	1.03	(0.14)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.25	(0.11)	0.10	(0.08)	0.07	(0.05)	0.30	(0.12)	0.71	(0.10)
Indoors, in a repair shop	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.03	(0.01)	0.07	(0.01)
Indoors, home	144.46	(65.77)	81.46	(65.19)	89.46	(62.68)	169.05	(66.60)	484.44	(65.36)
Indoors, office	9.88	(4.50)	4.57	(3.66)	4.22	(2.96)	10.17	(4.01)	28.85	(3.89)
Indoors, store	2.76	(1.25)	1.74	(1.39)	2.29	(1.61)	3.17	(1.25)	9.96	(1.34)
Indoors, restaurant	3.56	(1.62)	1.97	(1.58)	2.36	(1.65)	4.28	(1.69)	12.17	(1.64)
Indoors, mfg. facility	1.64	(0.75)	0.92	(0.74)	1.04	(0.73)	1.75	(0.69)	5.36	(0.72)
Indoors, school	9.99	(4.55)	3.90	(3.12)	2.68	(1.88)	10.25	(4.04)	26.81	(3.62)
Indoors, church	1.06	(0.48)	0.47	(0.37)	0.47	(0.33)	1.19	(0.47)	3.19	(0.43)
Indoors, shopping mall	0.87	(0.40)	0.52	(0.42)	0.55	(0.39)	1.07	(0.42)	3.01	(0.41)
Indoors, auditorium	0.18	(0.08)	0.10	(0.08)	0.14	(0.10)	0.22	(0.09)	0.65	(0.09)
Indoors, health care facility	1.45	(0.66)	0.72	(0.58)	0.72	(0.51)	1.61	(0.63)	4.50	(0.61)
Indoors, public building	0.42	(0.19)	0.32	(0.25)	0.48	(0.34)	0.48	(0.19)	1.70	(0.23)
Indoors, other location	5.24	(2.39)	2.42	(1.94)	2.31	(1.62)	6.02	(2.37)	15.99	(2.16)
Indoors, not specified	0.06	(0.03)	0.05	(0.04)	0.08	(0.06)	0.08	(0.03)	0.27	(0.04)
Outdoors, construction	0.31	(0.14)	0.15	(0.12)	0.12	(0.09)	0.34	(0.14)	0.93	(0.13)
Outdoors, residential grounds	1.48	(0.67)	2.49	(1.99)	4.89	(3.43)	1.79	(0.71)	10.65	(1.44)
Outdoors, school grounds	0.85	(0.39)	0.41	(0.33)	0.31	(0.22)	0.98	(0.38)	2.54	(0.34)
Outdoors, sports arena	0.07	(0.03)	0.14	(0.11)	0.29	(0.20)	0.10	(0.04)	0.59	(0.08)
Outdoors, park/golf course	0.20	(0.09)	0.43	(0.34)	0.89	(0.62)	0.24	(0.09)	1.75	(0.24)
Outdoors, other location	0.62	(0.28)	1.11	(0.89)	2.31	(1.62)	0.74	(0.29)	4.78	(0.65)
Outdoors, not specified	0.04	(0.02)	0.01	(0.01)	0.01	(0.01)	0.04	(0.02)	0.10	(0.01)
In transit, train	0.05	(0.02)	0.02	(0.01)	0.01	(0.01)	0.06	(0.02)	0.14	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.80	(8.99)	12.04	(9.75)	14.42	(10.18)	22.62	(8.70)	65.88	(9.25)
In transit, bus	2.52	(1.35)	1.34	(1.08)	1.18	(0.84)	3.14	(1.21)	8.18	(1.15)
In transit, truck	1.38	(0.74)	1.26	(1.02)	1.54	(1.09)	2.09	(0.80)	6.27	(0.88)
In transit, van	0.95	(0.51)	0.63	(0.51)	0.72	(0.51)	1.28	(0.49)	3.59	(0.50)
Indoors, public garage	0.26	(0.14)	0.12	(0.10)	0.11	(0.07)	0.31	(0.12)	0.80	(0.11)
Outdoors, in a parking lot	1.31	(0.70)	0.95	(0.77)	1.21	(0.85)	1.74	(0.67)	5.20	(0.73)
Outdoors, along a roadway	8.90	(4.77)	7.80	(6.31)	10.47	(7.39)	11.72	(4.51)	38.89	(5.46)
In transit, motorcycle	0.03	(0.02)	0.11	(0.09)	0.21	(0.15)	0.02	(0.01)	0.37	(0.05)
Indoors, service station	0.37	(0.20)	0.20	(0.16)	0.16	(0.11)	0.46	(0.18)	1.18	(0.17)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.18	(0.09)	0.11	(0.09)	0.10	(0.07)	0.26	(0.10)	0.64	(0.09)
Indoors, in a repair shop	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
Indoors, home	113.80	(60.94)	70.24	(56.83)	77.90	(54.98)	163.11	(62.72)	425.04	(59.69)
Indoors, office	5.91	(3.16)	4.34	(3.51)	5.16	(3.64)	7.61	(2.93)	23.02	(3.23)
Indoors, store	3.46	(1.85)	2.54	(2.06)	3.25	(2.30)	4.32	(1.66)	13.57	(1.91)
Indoors, restaurant	3.90	(2.09)	2.68	(2.17)	3.28	(2.32)	5.14	(1.98)	15.00	(2.11)
Indoors, mfg. facility	2.26	(1.21)	1.68	(1.36)	2.20	(1.55)	2.88	(1.11)	9.02	(1.27)
Indoors, school	12.13	(6.49)	6.41	(5.19)	4.96	(3.50)	15.80	(6.08)	39.31	(5.52)
Indoors, church	0.89	(0.47)	0.52	(0.42)	0.51	(0.36)	1.25	(0.48)	3.17	(0.45)
Indoors, shopping mall	1.20	(0.64)	0.79	(0.64)	0.77	(0.54)	1.61	(0.62)	4.37	(0.61)
Indoors, auditorium	0.18	(0.10)	0.12	(0.10)	0.12	(0.08)	0.26	(0.10)	0.67	(0.09)
Indoors, health care facility	1.42	(0.76)	0.85	(0.68)	0.80	(0.57)	1.93	(0.74)	5.00	(0.70)
Indoors, public building	0.48	(0.25)	0.38	(0.31)	0.49	(0.35)	0.68	(0.26)	2.02	(0.28)
Indoors, other location	3.91	(2.09)	2.99	(2.42)	3.89	(2.75)	5.76	(2.21)	16.54	(2.32)
Indoors, not specified	0.03	(0.02)	0.04	(0.03)	0.07	(0.05)	0.03	(0.01)	0.16	(0.02)
Outdoors, construction	0.45	(0.24)	0.40	(0.32)	0.52	(0.37)	0.65	(0.25)	2.02	(0.28)
Outdoors, residential grounds	2.02	(1.08)	2.43	(1.96)	3.57	(2.52)	2.70	(1.04)	10.71	(1.50)
Outdoors, school grounds	1.30	(0.70)	0.98	(0.79)	1.07	(0.75)	1.70	(0.65)	5.04	(0.71)
Outdoors, sports arena	0.06	(0.03)	0.17	(0.14)	0.35	(0.24)	0.08	(0.03)	0.65	(0.09)
Outdoors, park/golf course	0.29	(0.15)	0.49	(0.40)	0.82	(0.58)	0.38	(0.15)	1.98	(0.28)
Outdoors, other location	0.35	(0.19)	0.92	(0.75)	1.77	(1.25)	0.50	(0.19)	3.54	(0.50)
Outdoors, not specified	0.04	(0.02)	0.05	(0.04)	0.06	(0.05)	0.04	(0.02)	0.19	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.68	(6.87)	8.27	(6.86)	10.37	(8.02)	13.78	(6.00)	44.10	(6.79)
In transit, bus	6.06	(3.56)	4.58	(3.80)	3.76	(2.91)	8.70	(3.79)	23.11	(3.56)
In transit, truck	0.00	(0.00)	0.55	(0.45)	1.42	(1.10)	0.00	(0.00)	1.97	(0.30)
In transit, van	0.00	(0.00)	0.03	(0.03)	0.07	(0.06)	0.00	(0.00)	0.11	(0.02)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.73	(0.43)	0.61	(0.51)	0.94	(0.73)	0.82	(0.36)	3.10	(0.48)
Outdoors, along a roadway	5.25	(3.09)	7.12	(5.90)	10.66	(8.25)	6.80	(2.96)	29.83	(4.59)
In transit, motorcycle	0.23	(0.13)	0.17	(0.14)	0.11	(0.09)	0.36	(0.16)	0.87	(0.13)
Indoors, service station	0.00	(0.00)	0.07	(0.06)	0.19	(0.15)	0.00	(0.00)	0.26	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.04	(0.03)	0.09	(0.07)	0.00	(0.00)	0.13	(0.02)
Indoors, home	117.62	(69.14)	77.03	(63.85)	77.84	(60.22)	162.38	(70.78)	434.88	(66.96)
Indoors, office	0.61	(0.36)	2.01	(1.67)	3.96	(3.06)	0.89	(0.39)	7.48	(1.15)
Indoors, store	1.12	(0.66)	1.06	(0.88)	1.22	(0.94)	1.37	(0.60)	4.76	(0.73)
Indoors, restaurant	1.20	(0.71)	0.27	(0.23)	0.27	(0.21)	1.31	(0.57)	3.05	(0.47)
Indoors, mfg. facility	1.39	(0.81)	0.80	(0.66)	1.85	(1.43)	0.76	(0.33)	4.79	(0.74)
Indoors, school	12.02	(7.07)	8.19	(6.79)	4.74	(3.67)	17.38	(7.58)	42.33	(6.52)
Indoors, church	2.28	(1.34)	1.15	(0.95)	0.85	(0.66)	2.85	(1.24)	7.13	(1.10)
Indoors, shopping mall	0.86	(0.51)	0.77	(0.63)	0.57	(0.44)	1.00	(0.43)	3.19	(0.49)
Indoors, auditorium	0.10	(0.06)	0.07	(0.06)	0.04	(0.03)	0.12	(0.05)	0.34	(0.05)
Indoors, health care facility	1.90	(1.11)	1.55	(1.29)	1.15	(0.89)	3.31	(1.44)	7.91	(1.22)
Indoors, public building	0.10	(0.06)	0.17	(0.14)	0.16	(0.12)	0.13	(0.06)	0.55	(0.09)
Indoors, other location	3.73	(2.19)	1.34	(1.11)	2.41	(1.87)	2.93	(1.28)	10.42	(1.60)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.20	(0.70)	2.32	(1.92)	3.76	(2.91)	1.80	(0.78)	9.08	(1.40)
Outdoors, school grounds	1.47	(0.86)	1.24	(1.03)	0.72	(0.56)	2.01	(0.88)	5.45	(0.84)
Outdoors, sports arena	0.57	(0.33)	0.43	(0.36)	0.26	(0.20)	0.71	(0.31)	1.97	(0.30)
Outdoors, park/golf course	0.00	(0.00)	0.19	(0.16)	0.39	(0.30)	0.00	(0.00)	0.59	(0.09)
Outdoors, other location	0.01	(0.00)	0.33	(0.27)	0.70	(0.54)	0.01	(0.00)	1.04	(0.16)
Outdoors, not specified	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)
In transit, train	0.00	(0.00)	0.29	(0.24)	0.72	(0.56)	0.00	(0.00)	1.01	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.22	(6.52)	8.87	(6.95)	11.28	(8.00)	16.31	(5.96)	48.67	(6.67)
In transit, bus	4.76	(2.54)	3.53	(2.77)	3.34	(2.37)	7.24	(2.65)	18.87	(2.59)
In transit, truck	0.00	(0.00)	0.50	(0.39)	1.38	(0.98)	0.00	(0.00)	1.88	(0.26)
In transit, van	1.00	(0.53)	0.78	(0.61)	0.62	(0.44)	1.46	(0.54)	3.86	(0.53)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.93	(0.50)	0.79	(0.62)	1.04	(0.74)	1.22	(0.45)	3.98	(0.55)
Outdoors, along a roadway	13.07	(6.98)	12.26	(9.61)	13.68	(9.70)	21.36	(7.81)	60.38	(8.28)
In transit, motorcycle	0.17	(0.09)	0.12	(0.09)	0.09	(0.07)	0.31	(0.11)	0.69	(0.09)
Indoors, service station	0.00	(0.00)	0.07	(0.06)	0.19	(0.13)	0.00	(0.00)	0.26	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.03	(0.03)	0.09	(0.06)	0.00	(0.00)	0.12	(0.02)
Indoors, home	128.81	(68.80)	80.43	(63.02)	85.46	(60.59)	189.64	(69.33)	484.33	(66.39)
Indoors, office	0.88	(0.47)	2.21	(1.73)	4.35	(3.08)	1.35	(0.50)	8.79	(1.21)
Indoors, store	1.12	(0.60)	1.24	(0.97)	1.70	(1.21)	1.51	(0.55)	5.58	(0.77)
Indoors, restaurant	1.36	(0.73)	0.42	(0.33)	0.35	(0.25)	1.64	(0.60)	3.77	(0.52)
Indoors, mfg. facility	1.25	(0.66)	0.74	(0.58)	1.80	(1.28)	0.74	(0.27)	4.53	(0.62)
Indoors, school	9.52	(5.09)	5.99	(4.69)	3.81	(2.70)	14.33	(5.24)	33.65	(4.61)
Indoors, church	2.29	(1.22)	1.26	(0.99)	0.95	(0.68)	3.12	(1.14)	7.62	(1.05)
Indoors, shopping mall	0.78	(0.42)	0.67	(0.53)	0.53	(0.38)	0.99	(0.36)	2.98	(0.41)
Indoors, auditorium	0.09	(0.05)	0.06	(0.05)	0.04	(0.03)	0.13	(0.05)	0.32	(0.04)
Indoors, health care facility	1.82	(0.97)	1.52	(1.19)	1.20	(0.85)	3.26	(1.19)	7.81	(1.07)
Indoors, public building	0.09	(0.05)	0.15	(0.12)	0.15	(0.11)	0.13	(0.05)	0.52	(0.07)
Indoors, other location	4.06	(2.17)	1.54	(1.21)	2.58	(1.83)	4.00	(1.46)	12.17	(1.67)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.30	(0.69)	2.25	(1.76)	3.60	(2.56)	2.25	(0.82)	9.40	(1.29)
Outdoors, school grounds	1.06	(0.57)	0.88	(0.69)	0.58	(0.41)	1.61	(0.59)	4.13	(0.57)
Outdoors, sports arena	0.52	(0.28)	0.40	(0.31)	0.30	(0.21)	0.73	(0.27)	1.95	(0.27)
Outdoors, park/golf course	0.00	(0.00)	0.17	(0.13)	0.37	(0.26)	0.00	(0.00)	0.54	(0.07)
Outdoors, other location	0.12	(0.07)	0.44	(0.35)	0.73	(0.52)	0.18	(0.07)	1.47	(0.20)
Outdoors, not specified	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.30	(0.24)	0.80	(0.57)	0.00	(0.00)	1.10	(0.15)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.15	(4.57)	6.90	(5.67)	8.16	(6.15)	10.07	(4.23)	33.29	(4.96)
In transit, bus	2.57	(1.44)	1.45	(1.19)	1.13	(0.85)	2.94	(1.24)	8.09	(1.21)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.04	(0.03)	0.00	(0.00)	0.00	(0.00)	0.04	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.38	(0.77)	1.62	(1.33)	2.27	(1.71)	1.84	(0.78)	7.11	(1.06)
Outdoors, along a roadway	9.60	(5.38)	8.12	(6.67)	9.35	(7.05)	12.56	(5.28)	39.63	(5.91)
In transit, motorcycle	0.00	(0.00)	0.06	(0.05)	0.11	(0.09)	0.00	(0.00)	0.17	(0.03)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	136.23	(76.34)	88.62	(72.83)	95.72	(72.14)	185.33	(77.90)	505.89	(75.43)
Indoors, office	0.24	(0.13)	0.07	(0.06)	0.10	(0.07)	0.21	(0.09)	0.62	(0.09)
Indoors, store	2.29	(1.28)	2.06	(1.69)	2.81	(2.11)	2.64	(1.11)	9.80	(1.46)
Indoors, restaurant	2.16	(1.21)	0.61	(0.50)	0.69	(0.52)	2.01	(0.84)	5.46	(0.81)
Indoors, mfg. facility	0.84	(0.47)	1.63	(1.34)	3.71	(2.80)	0.49	(0.21)	6.68	(1.00)
Indoors, school	9.25	(5.19)	5.23	(4.30)	2.58	(1.95)	12.28	(5.16)	29.34	(4.38)
Indoors, church	0.57	(0.32)	0.32	(0.26)	0.18	(0.13)	0.80	(0.34)	1.86	(0.28)
Indoors, shopping mall	1.35	(0.76)	1.06	(0.87)	0.53	(0.40)	1.75	(0.73)	4.69	(0.70)
Indoors, auditorium	0.21	(0.12)	0.18	(0.15)	0.11	(0.08)	0.24	(0.10)	0.74	(0.11)
Indoors, health care facility	0.53	(0.30)	0.41	(0.34)	0.20	(0.15)	0.77	(0.32)	1.91	(0.28)
Indoors, public building	0.36	(0.20)	0.15	(0.12)	0.11	(0.08)	0.40	(0.17)	1.01	(0.15)
Indoors, other location	1.18	(0.66)	1.34	(1.10)	2.17	(1.63)	1.53	(0.64)	6.21	(0.93)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.13	(0.63)	1.22	(1.00)	2.01	(1.52)	1.51	(0.63)	5.86	(0.87)
Outdoors, school grounds	0.33	(0.19)	0.26	(0.22)	0.13	(0.10)	0.44	(0.18)	1.17	(0.17)
Outdoors, sports arena	0.00	(0.00)	0.14	(0.11)	0.38	(0.28)	0.00	(0.00)	0.51	(0.08)
Outdoors, park/golf course	0.06	(0.03)	0.03	(0.02)	0.07	(0.05)	0.05	(0.02)	0.21	(0.03)
Outdoors, other location	0.02	(0.01)	0.19	(0.15)	0.18	(0.13)	0.03	(0.01)	0.41	(0.06)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.96	(7.92)	11.01	(8.54)	12.35	(8.54)	19.82	(7.68)	58.14	(8.07)
In transit, bus	1.80	(0.95)	1.28	(1.00)	1.29	(0.89)	2.67	(1.03)	7.04	(0.98)
In transit, truck	0.99	(0.52)	2.07	(1.61)	3.92	(2.71)	1.54	(0.60)	8.53	(1.18)
In transit, van	0.22	(0.12)	0.20	(0.16)	0.26	(0.18)	0.30	(0.12)	0.98	(0.14)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, in a parking lot	1.84	(0.97)	1.06	(0.82)	1.13	(0.78)	2.21	(0.86)	6.24	(0.87)
Outdoors, along a roadway	9.32	(4.93)	9.17	(7.12)	12.90	(8.92)	11.59	(4.49)	42.98	(5.96)
In transit, motorcycle	0.00	(0.00)	0.72	(0.56)	1.24	(0.86)	0.00	(0.00)	1.96	(0.27)
Indoors, service station	0.01	(0.00)	0.05	(0.04)	0.09	(0.06)	0.01	(0.00)	0.15	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.24	(0.13)	0.17	(0.13)	0.10	(0.07)	0.28	(0.11)	0.79	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.04	(0.03)	0.00	(0.00)	0.05	(0.01)
Indoors, home	119.08	(63.02)	75.66	(58.73)	82.09	(56.75)	166.17	(64.36)	442.99	(61.47)
Indoors, office	4.10	(2.17)	3.14	(2.44)	3.31	(2.29)	5.09	(1.97)	15.63	(2.17)
Indoors, store	2.98	(1.58)	2.64	(2.05)	3.43	(2.37)	3.91	(1.52)	12.96	(1.80)
Indoors, restaurant	7.31	(3.87)	3.62	(2.81)	2.49	(1.72)	9.77	(3.79)	23.20	(3.22)
Indoors, mfg. facility	3.55	(1.88)	2.18	(1.69)	2.30	(1.59)	4.46	(1.73)	12.49	(1.73)
Indoors, school	9.68	(5.12)	5.30	(4.12)	4.70	(3.25)	11.94	(4.63)	31.63	(4.39)
Indoors, church	0.96	(0.51)	0.62	(0.48)	0.52	(0.36)	1.34	(0.52)	3.43	(0.48)
Indoors, shopping mall	1.44	(0.76)	0.76	(0.59)	0.70	(0.48)	1.87	(0.72)	4.76	(0.66)
Indoors, auditorium	0.09	(0.05)	0.06	(0.05)	0.03	(0.02)	0.14	(0.05)	0.32	(0.05)
Indoors, health care facility	2.10	(1.11)	1.03	(0.80)	0.67	(0.46)	2.83	(1.10)	6.64	(0.92)
Indoors, public building	0.22	(0.12)	0.11	(0.09)	0.14	(0.10)	0.22	(0.08)	0.69	(0.10)
Indoors, other location	4.73	(2.50)	3.82	(2.97)	4.47	(3.09)	7.65	(2.96)	20.67	(2.87)
Indoors, not specified	0.01	(0.01)	0.04	(0.03)	0.11	(0.08)	0.01	(0.00)	0.17	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.72	(0.91)	2.05	(1.59)	3.09	(2.14)	2.15	(0.83)	9.01	(1.25)
Outdoors, school grounds	1.41	(0.74)	1.14	(0.88)	1.32	(0.91)	1.95	(0.75)	5.81	(0.81)
Outdoors, sports arena	0.00	(0.00)	0.16	(0.13)	0.45	(0.31)	0.00	(0.00)	0.61	(0.09)
Outdoors, park/golf course	0.15	(0.08)	0.31	(0.24)	0.32	(0.22)	0.24	(0.09)	1.02	(0.14)
Outdoors, other location	0.00	(0.00)	0.43	(0.34)	1.14	(0.79)	0.00	(0.00)	1.57	(0.22)
Outdoors, not specified	0.06	(0.03)	0.00	(0.00)	0.00	(0.00)	0.03	(0.01)	0.10	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.35	(9.15)	12.30	(9.74)	14.11	(9.92)	23.01	(8.78)	66.75	(9.27)
In transit, bus	2.41	(1.27)	1.25	(0.99)	1.31	(0.92)	2.84	(1.08)	7.81	(1.08)
In transit, truck	0.98	(0.52)	1.01	(0.80)	1.32	(0.92)	1.46	(0.56)	4.77	(0.66)
In transit, van	1.82	(0.96)	1.19	(0.94)	1.39	(0.97)	2.37	(0.90)	6.76	(0.94)
Indoors, public garage	0.60	(0.31)	0.21	(0.17)	0.12	(0.08)	0.66	(0.25)	1.59	(0.22)
Outdoors, in a parking lot	1.19	(0.63)	0.91	(0.72)	1.09	(0.77)	1.58	(0.60)	4.76	(0.66)
Outdoors, along a roadway	10.32	(5.44)	9.25	(7.32)	11.56	(8.13)	14.16	(5.40)	45.28	(6.29)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, service station	0.07	(0.04)	0.05	(0.04)	0.05	(0.04)	0.09	(0.04)	0.26	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.23	(0.12)	0.11	(0.09)	0.09	(0.06)	0.36	(0.14)	0.80	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	116.33	(61.39)	71.82	(56.88)	78.34	(55.08)	165.39	(63.11)	431.88	(59.99)
Indoors, office	6.42	(3.39)	4.63	(3.67)	4.75	(3.34)	8.52	(3.25)	24.32	(3.38)
Indoors, store	2.88	(1.52)	2.42	(1.91)	3.38	(2.38)	3.43	(1.31)	12.11	(1.68)
Indoors, restaurant	2.86	(1.51)	2.00	(1.59)	2.14	(1.50)	3.81	(1.45)	10.81	(1.50)
Indoors, mfg. facility	2.48	(1.31)	1.95	(1.54)	2.47	(1.74)	3.09	(1.18)	10.00	(1.39)
Indoors, school	9.37	(4.95)	5.23	(4.14)	4.95	(3.48)	11.82	(4.51)	31.37	(4.36)
Indoors, church	1.37	(0.72)	0.69	(0.55)	0.57	(0.40)	1.87	(0.71)	4.51	(0.63)
Indoors, shopping mall	1.06	(0.56)	0.55	(0.44)	0.42	(0.30)	1.35	(0.51)	3.38	(0.47)
Indoors, auditorium	0.20	(0.10)	0.12	(0.10)	0.10	(0.07)	0.29	(0.11)	0.71	(0.10)
Indoors, health care facility	1.31	(0.69)	0.85	(0.68)	0.85	(0.60)	1.83	(0.70)	4.84	(0.67)
Indoors, public building	0.54	(0.28)	0.51	(0.40)	0.74	(0.52)	0.76	(0.29)	2.55	(0.35)
Indoors, other location	4.33	(2.28)	2.88	(2.28)	3.58	(2.51)	6.05	(2.31)	16.84	(2.34)
Indoors, not specified	0.03	(0.02)	0.04	(0.03)	0.11	(0.07)	0.02	(0.01)	0.20	(0.03)
Outdoors, construction	1.00	(0.53)	0.83	(0.66)	0.96	(0.67)	1.43	(0.55)	4.22	(0.59)
Outdoors, residential grounds	2.28	(1.20)	3.02	(2.39)	4.32	(3.04)	3.11	(1.19)	12.73	(1.77)
Outdoors, school grounds	1.12	(0.59)	0.88	(0.69)	1.03	(0.72)	1.40	(0.54)	4.42	(0.61)
Outdoors, sports arena	0.02	(0.01)	0.11	(0.09)	0.21	(0.15)	0.03	(0.01)	0.38	(0.05)
Outdoors, park/golf course	0.27	(0.14)	0.42	(0.34)	0.73	(0.52)	0.36	(0.14)	1.79	(0.25)
Outdoors, other location	0.65	(0.34)	0.98	(0.77)	1.39	(0.98)	0.95	(0.36)	3.97	(0.55)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.05	(0.04)	0.14	(0.10)	0.00	(0.00)	0.20	(0.03)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.97	(11.55)	15.22	(12.08)	17.55	(12.35)	29.84	(11.17)	84.58	(11.66)
In transit, bus	3.22	(1.70)	1.85	(1.47)	1.17	(0.83)	4.46	(1.67)	10.71	(1.48)
In transit, truck	0.54	(0.28)	0.51	(0.40)	0.57	(0.40)	0.86	(0.32)	2.47	(0.34)
In transit, van	0.01	(0.01)	0.14	(0.11)	0.28	(0.20)	0.02	(0.01)	0.46	(0.06)
Indoors, public garage	0.05	(0.02)	0.03	(0.02)	0.02	(0.02)	0.06	(0.02)	0.16	(0.02)
Outdoors, in a parking lot	1.24	(0.65)	0.87	(0.69)	1.07	(0.75)	1.74	(0.65)	4.92	(0.68)
Outdoors, along a roadway	8.61	(4.53)	7.35	(5.83)	9.53	(6.71)	11.45	(4.29)	36.94	(5.09)
In transit, motorcycle	0.12	(0.07)	0.00	(0.00)	0.00	(0.00)	0.08	(0.03)	0.21	(0.03)
Indoors, service station	0.00	(0.00)	0.02	(0.02)	0.06	(0.04)	0.00	(0.00)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.04	(0.02)	0.10	(0.08)	0.18	(0.13)	0.07	(0.02)	0.39	(0.05)
Indoors, in a repair shop	0.04	(0.02)	0.03	(0.03)	0.02	(0.01)	0.07	(0.03)	0.16	(0.02)
Indoors, home	110.42	(58.04)	67.46	(53.53)	74.15	(52.20)	159.56	(59.75)	411.59	(56.73)
Indoors, office	9.02	(4.74)	6.25	(4.96)	7.32	(5.15)	11.37	(4.26)	33.96	(4.68)
Indoors, store	3.38	(1.78)	2.54	(2.02)	3.34	(2.35)	4.32	(1.62)	13.58	(1.87)
Indoors, restaurant	3.69	(1.94)	2.95	(2.34)	3.74	(2.63)	5.10	(1.91)	15.48	(2.13)
Indoors, mfg. facility	2.75	(1.45)	1.81	(1.43)	2.26	(1.59)	3.58	(1.34)	10.40	(1.43)
Indoors, school	13.30	(6.99)	7.04	(5.58)	4.21	(2.96)	18.20	(6.81)	42.75	(5.89)
Indoors, church	0.56	(0.29)	0.47	(0.37)	0.60	(0.42)	0.80	(0.30)	2.43	(0.33)
Indoors, shopping mall	1.50	(0.79)	1.59	(1.26)	2.08	(1.46)	2.23	(0.84)	7.40	(1.02)
Indoors, auditorium	0.10	(0.05)	0.14	(0.11)	0.20	(0.14)	0.14	(0.05)	0.58	(0.08)
Indoors, health care facility	1.25	(0.66)	0.81	(0.65)	0.85	(0.60)	1.66	(0.62)	4.57	(0.63)
Indoors, public building	0.41	(0.21)	0.33	(0.26)	0.46	(0.32)	0.64	(0.24)	1.83	(0.25)
Indoors, other location	4.12	(2.17)	2.42	(1.92)	2.68	(1.89)	5.72	(2.14)	14.94	(2.06)
Indoors, not specified	0.07	(0.04)	0.05	(0.04)	0.05	(0.03)	0.09	(0.03)	0.25	(0.03)
Outdoors, construction	0.00	(0.00)	0.08	(0.06)	0.22	(0.16)	0.00	(0.00)	0.30	(0.04)
Outdoors, residential grounds	1.76	(0.93)	2.49	(1.97)	3.79	(2.67)	2.24	(0.84)	10.28	(1.42)
Outdoors, school grounds	1.32	(0.69)	0.90	(0.71)	0.70	(0.49)	1.79	(0.67)	4.70	(0.65)
Outdoors, sports arena	0.14	(0.07)	0.32	(0.25)	0.58	(0.41)	0.21	(0.08)	1.25	(0.17)
Outdoors, park/golf course	0.46	(0.24)	0.59	(0.46)	0.68	(0.48)	0.63	(0.24)	2.35	(0.32)
Outdoors, other location	0.13	(0.07)	1.66	(1.32)	3.71	(2.61)	0.17	(0.06)	5.67	(0.78)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.14	(6.54)	10.61	(8.69)	15.26	(10.92)	16.70	(6.43)	54.70	(7.74)
In transit, bus	0.77	(0.41)	0.03	(0.02)	0.00	(0.00)	0.48	(0.18)	1.27	(0.18)
In transit, truck	4.44	(2.39)	1.90	(1.56)	1.52	(1.09)	5.71	(2.20)	13.57	(1.92)
In transit, van	1.94	(1.05)	1.34	(1.10)	0.99	(0.71)	2.91	(1.12)	7.18	(1.02)
Indoors, public garage	0.00	(0.00)	0.05	(0.04)	0.14	(0.10)	0.00	(0.00)	0.19	(0.03)
Outdoors, in a parking lot	0.45	(0.24)	0.64	(0.53)	1.22	(0.87)	0.61	(0.23)	2.92	(0.41)
Outdoors, along a roadway	9.07	(4.89)	6.81	(5.58)	9.47	(6.78)	11.52	(4.44)	36.87	(5.21)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.35	(0.73)	0.00	(0.00)	0.00	(0.00)	0.86	(0.33)	2.21	(0.31)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	112.66	(60.72)	70.06	(57.38)	75.49	(54.04)	165.43	(63.69)	423.64	(59.92)
Indoors, office	4.93	(2.66)	5.06	(4.14)	8.76	(6.27)	5.80	(2.23)	24.56	(3.47)
Indoors, store	0.23	(0.13)	0.86	(0.70)	1.89	(1.36)	0.37	(0.14)	3.36	(0.47)
Indoors, restaurant	4.84	(2.61)	4.25	(3.48)	6.53	(4.68)	6.14	(2.37)	21.76	(3.08)
Indoors, mfg. facility	0.00	(0.00)	0.11	(0.09)	0.31	(0.22)	0.00	(0.00)	0.43	(0.06)
Indoors, school	16.16	(8.71)	6.79	(5.56)	3.91	(2.80)	19.16	(7.38)	46.01	(6.51)
Indoors, church	0.54	(0.29)	0.37	(0.30)	0.49	(0.35)	0.72	(0.28)	2.11	(0.30)
Indoors, shopping mall	0.29	(0.16)	0.24	(0.19)	0.13	(0.09)	0.41	(0.16)	1.07	(0.15)
Indoors, auditorium	0.62	(0.34)	0.41	(0.33)	0.32	(0.23)	0.91	(0.35)	2.26	(0.32)
Indoors, health care facility	1.02	(0.55)	0.60	(0.49)	0.44	(0.32)	1.27	(0.49)	3.34	(0.47)
Indoors, public building	0.00	(0.00)	0.09	(0.07)	0.09	(0.07)	0.00	(0.00)	0.18	(0.03)
Indoors, other location	5.03	(2.71)	3.64	(2.98)	3.50	(2.51)	8.24	(3.17)	20.42	(2.89)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.34	(0.28)	0.97	(0.70)	0.00	(0.00)	1.31	(0.18)
Outdoors, residential grounds	6.29	(3.39)	4.51	(3.69)	3.76	(2.69)	8.94	(3.44)	23.50	(3.32)
Outdoors, school grounds	1.88	(1.01)	1.49	(1.22)	0.94	(0.67)	2.47	(0.95)	6.78	(0.96)
Outdoors, sports arena	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, park/golf course	0.88	(0.48)	1.32	(1.08)	2.29	(1.64)	1.12	(0.43)	5.62	(0.79)
Outdoors, other location	0.00	(0.00)	0.58	(0.47)	1.25	(0.90)	0.00	(0.00)	1.83	(0.26)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.03	(5.98)	8.30	(6.70)	10.03	(7.24)	15.05	(5.77)	44.41	(6.28)
In transit, bus	4.94	(2.68)	2.72	(2.19)	1.96	(1.41)	6.55	(2.51)	16.16	(2.28)
In transit, truck	0.24	(0.13)	0.18	(0.15)	0.28	(0.20)	0.25	(0.10)	0.95	(0.13)
In transit, van	1.47	(0.80)	0.90	(0.73)	0.72	(0.52)	2.15	(0.82)	5.24	(0.74)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.63	(0.34)	0.56	(0.45)	0.77	(0.55)	0.85	(0.32)	2.80	(0.40)
Outdoors, along a roadway	11.42	(6.19)	11.24	(9.08)	15.85	(11.43)	14.84	(5.69)	53.35	(7.54)
In transit, motorcycle	0.11	(0.06)	0.03	(0.02)	0.03	(0.02)	0.11	(0.04)	0.27	(0.04)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.20	(0.11)	0.14	(0.11)	0.12	(0.09)	0.34	(0.13)	0.80	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	115.74	(62.75)	72.34	(58.44)	78.84	(56.89)	169.67	(65.09)	436.59	(61.71)
Indoors, office	0.11	(0.06)	0.25	(0.20)	0.49	(0.35)	0.15	(0.06)	1.00	(0.14)
Indoors, store	1.71	(0.93)	1.34	(1.08)	1.77	(1.27)	2.17	(0.83)	6.99	(0.99)
Indoors, restaurant	1.50	(0.81)	1.50	(1.21)	2.11	(1.52)	2.09	(0.80)	7.20	(1.02)
Indoors, mfg. facility	0.03	(0.02)	0.02	(0.02)	0.01	(0.01)	0.06	(0.02)	0.12	(0.02)
Indoors, school	24.97	(13.54)	13.28	(10.73)	10.30	(7.43)	32.52	(12.48)	81.07	(11.46)
Indoors, church	0.71	(0.39)	0.42	(0.34)	0.44	(0.31)	1.01	(0.39)	2.59	(0.37)
Indoors, shopping mall	0.96	(0.52)	0.82	(0.66)	0.88	(0.64)	1.28	(0.49)	3.94	(0.56)
Indoors, auditorium	0.19	(0.10)	0.13	(0.10)	0.11	(0.08)	0.28	(0.11)	0.71	(0.10)
Indoors, health care facility	0.81	(0.44)	0.51	(0.41)	0.33	(0.24)	1.10	(0.42)	2.76	(0.39)
Indoors, public building	0.18	(0.10)	0.18	(0.14)	0.21	(0.15)	0.27	(0.10)	0.83	(0.12)
Indoors, other location	1.08	(0.59)	0.72	(0.58)	0.80	(0.57)	1.51	(0.58)	4.10	(0.58)
Indoors, not specified	0.00	(0.00)	0.03	(0.03)	0.09	(0.06)	0.00	(0.00)	0.12	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	3.11	(1.69)	3.88	(3.13)	5.75	(4.15)	4.16	(1.60)	16.90	(2.39)
Outdoors, school grounds	2.73	(1.48)	2.26	(1.83)	2.61	(1.88)	3.51	(1.35)	11.11	(1.57)
Outdoors, sports arena	0.22	(0.12)	0.26	(0.21)	0.39	(0.28)	0.30	(0.12)	1.16	(0.16)
Outdoors, park/golf course	0.22	(0.12)	0.74	(0.60)	1.42	(1.02)	0.30	(0.12)	2.69	(0.38)
Outdoors, other location	0.04	(0.02)	1.01	(0.82)	2.26	(1.63)	0.06	(0.02)	3.37	(0.48)
Outdoors, not specified	0.06	(0.03)	0.04	(0.04)	0.03	(0.02)	0.09	(0.03)	0.23	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	23.51	(11.87)	14.30	(10.82)	15.79	(11.10)	28.37	(10.55)	81.97	(11.06)
In transit, bus	0.44	(0.22)	0.00	(0.00)	0.00	(0.00)	0.29	(0.11)	0.73	(0.10)
In transit, truck	2.51	(1.27)	2.97	(2.24)	3.13	(2.20)	3.82	(1.42)	12.42	(1.68)
In transit, van	0.00	(0.00)	0.19	(0.14)	0.52	(0.37)	0.00	(0.00)	0.71	(0.10)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.42	(0.72)	1.12	(0.85)	1.04	(0.73)	1.90	(0.71)	5.48	(0.74)
Outdoors, along a roadway	21.80	(11.00)	14.65	(11.09)	13.00	(9.14)	31.11	(11.57)	80.56	(10.87)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.04	(0.02)	0.04	(0.03)	0.05	(0.04)	0.06	(0.02)	0.20	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	116.42	(58.78)	72.15	(54.61)	75.57	(53.12)	161.55	(60.10)	425.70	(57.41)
Indoors, office	5.14	(2.60)	6.69	(5.06)	11.51	(8.09)	6.66	(2.48)	30.01	(4.05)
Indoors, store	0.92	(0.46)	0.82	(0.62)	1.08	(0.76)	1.19	(0.44)	4.00	(0.54)
Indoors, restaurant	2.36	(1.19)	1.55	(1.18)	2.11	(1.49)	2.80	(1.04)	8.83	(1.19)
Indoors, mfg. facility	0.00	(0.00)	1.60	(1.21)	2.38	(1.67)	0.00	(0.00)	3.98	(0.54)
Indoors, school	11.15	(5.63)	5.10	(3.86)	2.80	(1.97)	13.54	(5.04)	32.60	(4.40)
Indoors, church	0.22	(0.11)	0.42	(0.32)	0.67	(0.47)	0.38	(0.14)	1.70	(0.23)
Indoors, shopping mall	0.89	(0.45)	0.53	(0.40)	0.26	(0.18)	1.48	(0.55)	3.16	(0.43)
Indoors, auditorium	0.02	(0.01)	0.28	(0.21)	0.53	(0.37)	0.03	(0.01)	0.85	(0.12)
Indoors, health care facility	0.45	(0.23)	0.31	(0.24)	0.33	(0.23)	0.60	(0.22)	1.69	(0.23)
Indoors, public building	2.18	(1.10)	1.10	(0.83)	0.55	(0.39)	3.39	(1.26)	7.22	(0.97)
Indoors, other location	5.08	(2.56)	2.89	(2.19)	3.41	(2.40)	7.32	(2.72)	18.70	(2.52)
Indoors, not specified	0.03	(0.01)	0.02	(0.01)	0.01	(0.01)	0.05	(0.02)	0.10	(0.01)
Outdoors, construction	0.00	(0.00)	0.86	(0.65)	2.39	(1.68)	0.00	(0.00)	3.25	(0.44)
Outdoors, residential grounds	1.02	(0.51)	1.51	(1.14)	2.56	(1.80)	1.30	(0.48)	6.39	(0.86)
Outdoors, school grounds	1.96	(0.99)	1.52	(1.15)	0.77	(0.54)	2.61	(0.97)	6.84	(0.92)
Outdoors, sports arena	0.11	(0.06)	0.05	(0.04)	0.10	(0.07)	0.11	(0.04)	0.37	(0.05)
Outdoors, park/golf course	0.12	(0.06)	0.39	(0.30)	0.92	(0.64)	0.15	(0.06)	1.58	(0.21)
Outdoors, other location	0.09	(0.04)	1.07	(0.81)	0.77	(0.54)	0.04	(0.02)	1.96	(0.27)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.20	(0.10)	0.00	(0.00)	0.00	(0.00)	0.12	(0.05)	0.32	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	26.78	(13.49)	17.83	(13.57)	19.16	(12.70)	35.56	(12.90)	99.33	(13.13)
In transit, bus	0.26	(0.13)	0.47	(0.35)	1.08	(0.72)	0.24	(0.09)	2.05	(0.27)
In transit, truck	3.97	(2.00)	3.30	(2.51)	5.13	(3.40)	5.01	(1.82)	17.41	(2.30)
In transit, van	1.38	(0.69)	0.83	(0.63)	0.84	(0.55)	1.83	(0.66)	4.87	(0.64)
Indoors, public garage	1.76	(0.89)	0.96	(0.73)	0.66	(0.44)	2.39	(0.87)	5.78	(0.76)
Outdoors, in a parking lot	1.55	(0.78)	1.29	(0.98)	1.69	(1.12)	2.22	(0.80)	6.75	(0.89)
Outdoors, along a roadway	10.03	(5.06)	8.41	(6.40)	9.93	(6.58)	13.60	(4.93)	41.97	(5.55)
In transit, motorcycle	0.00	(0.00)	0.10	(0.08)	0.24	(0.16)	0.00	(0.00)	0.34	(0.04)
Indoors, service station	2.11	(1.06)	1.03	(0.78)	0.76	(0.50)	2.59	(0.94)	6.49	(0.86)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.92	(0.46)	0.53	(0.40)	0.37	(0.25)	1.26	(0.46)	3.07	(0.41)
Indoors, in a repair shop	0.82	(0.41)	0.01	(0.01)	0.03	(0.02)	0.59	(0.22)	1.46	(0.19)
Indoors, home	103.84	(52.32)	62.81	(47.79)	68.69	(45.51)	151.10	(54.80)	386.44	(51.07)
Indoors, office	16.58	(8.35)	9.93	(7.55)	9.19	(6.09)	21.25	(7.70)	56.94	(7.53)
Indoors, store	2.61	(1.31)	2.43	(1.85)	3.93	(2.61)	3.16	(1.15)	12.14	(1.60)
Indoors, restaurant	4.22	(2.13)	3.10	(2.36)	4.22	(2.80)	5.23	(1.90)	16.77	(2.22)
Indoors, mfg. facility	3.72	(1.87)	3.53	(2.69)	5.17	(3.42)	5.15	(1.87)	17.57	(2.32)
Indoors, school	1.85	(0.93)	1.01	(0.77)	0.70	(0.46)	2.42	(0.88)	5.97	(0.79)
Indoors, church	0.84	(0.42)	0.49	(0.37)	0.43	(0.28)	1.22	(0.44)	2.98	(0.39)
Indoors, shopping mall	0.58	(0.29)	0.31	(0.24)	0.16	(0.11)	0.72	(0.26)	1.77	(0.23)
Indoors, auditorium	0.09	(0.05)	0.01	(0.01)	0.01	(0.01)	0.09	(0.03)	0.20	(0.03)
Indoors, health care facility	1.19	(0.60)	0.85	(0.65)	0.94	(0.62)	1.67	(0.61)	4.65	(0.61)
Indoors, public building	0.32	(0.16)	0.46	(0.35)	0.77	(0.51)	0.39	(0.14)	1.95	(0.26)
Indoors, other location	6.51	(3.28)	5.14	(3.91)	8.10	(5.37)	8.78	(3.19)	28.54	(3.77)
Indoors, not specified	0.51	(0.26)	0.14	(0.11)	0.07	(0.05)	0.56	(0.20)	1.28	(0.17)
Outdoors, construction	1.61	(0.81)	1.47	(1.12)	1.91	(1.26)	2.41	(0.87)	7.40	(0.98)
Outdoors, residential grounds	1.01	(0.51)	1.28	(0.97)	1.57	(1.04)	1.45	(0.53)	5.31	(0.70)
Outdoors, school grounds	0.19	(0.10)	0.14	(0.11)	0.12	(0.08)	0.27	(0.10)	0.72	(0.10)
Outdoors, sports arena	0.04	(0.02)	0.22	(0.17)	0.45	(0.30)	0.05	(0.02)	0.75	(0.10)
Outdoors, park/golf course	0.33	(0.16)	0.41	(0.31)	0.53	(0.35)	0.45	(0.16)	1.72	(0.23)
Outdoors, other location	2.67	(1.34)	2.68	(2.04)	3.51	(2.33)	3.91	(1.42)	12.77	(1.69)
Outdoors, not specified	0.04	(0.02)	0.14	(0.10)	0.22	(0.15)	0.07	(0.02)	0.47	(0.06)
In transit, train	0.15	(0.08)	0.11	(0.09)	0.30	(0.20)	0.12	(0.04)	0.68	(0.09)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.08	(10.47)	12.81	(10.52)	13.29	(9.79)	25.42	(10.13)	70.62	(10.22)
In transit, bus	0.71	(0.39)	0.28	(0.23)	0.32	(0.24)	0.64	(0.25)	1.94	(0.28)
In transit, truck	0.71	(0.39)	0.00	(0.00)	0.00	(0.00)	0.58	(0.23)	1.28	(0.19)
In transit, van	0.07	(0.04)	0.05	(0.04)	0.04	(0.03)	0.11	(0.04)	0.28	(0.04)
Indoors, public garage	0.07	(0.04)	0.04	(0.03)	0.02	(0.01)	0.10	(0.04)	0.22	(0.03)
Outdoors, in a parking lot	0.64	(0.35)	0.71	(0.59)	1.02	(0.75)	0.87	(0.35)	3.25	(0.47)
Outdoors, along a roadway	6.45	(3.54)	6.23	(5.11)	8.05	(5.93)	8.64	(3.44)	29.37	(4.25)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.02	(0.01)	0.03	(0.03)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.08	(0.04)	0.01	(0.01)	0.01	(0.01)	0.08	(0.03)	0.19	(0.03)
Indoors, in a repair shop	0.08	(0.04)	0.06	(0.05)	0.03	(0.02)	0.11	(0.05)	0.28	(0.04)
Indoors, home	133.24	(73.12)	84.00	(68.95)	91.78	(67.57)	185.99	(74.13)	495.01	(71.67)
Indoors, office	0.47	(0.26)	0.33	(0.27)	0.73	(0.54)	0.38	(0.15)	1.90	(0.27)
Indoors, store	2.65	(1.45)	3.01	(2.47)	4.39	(3.23)	3.21	(1.28)	13.25	(1.92)
Indoors, restaurant	3.17	(1.74)	2.27	(1.86)	2.84	(2.09)	4.38	(1.75)	12.66	(1.83)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	4.86	(2.67)	3.09	(2.54)	2.07	(1.52)	7.26	(2.89)	17.28	(2.50)
Indoors, church	0.79	(0.43)	0.46	(0.38)	0.34	(0.25)	1.12	(0.45)	2.71	(0.39)
Indoors, shopping mall	0.49	(0.27)	0.53	(0.43)	1.33	(0.98)	0.38	(0.15)	2.73	(0.40)
Indoors, auditorium	0.36	(0.20)	0.21	(0.17)	0.15	(0.11)	0.52	(0.21)	1.25	(0.18)
Indoors, health care facility	0.53	(0.29)	0.43	(0.36)	0.49	(0.36)	0.74	(0.30)	2.19	(0.32)
Indoors, public building	0.37	(0.20)	0.16	(0.13)	0.11	(0.08)	0.45	(0.18)	1.09	(0.16)
Indoors, other location	4.91	(2.70)	3.56	(2.92)	3.70	(2.72)	6.45	(2.57)	18.61	(2.69)
Indoors, not specified	0.00	(0.00)	0.02	(0.01)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.58	(0.87)	2.03	(1.66)	2.62	(1.93)	2.25	(0.90)	8.48	(1.23)
Outdoors, school grounds	0.49	(0.27)	0.39	(0.32)	0.37	(0.27)	0.82	(0.33)	2.08	(0.30)
Outdoors, sports arena	0.08	(0.04)	0.06	(0.05)	0.14	(0.10)	0.08	(0.03)	0.35	(0.05)
Outdoors, park/golf course	0.13	(0.07)	0.42	(0.35)	0.79	(0.58)	0.17	(0.07)	1.52	(0.22)
Outdoors, other location	0.14	(0.08)	0.65	(0.53)	1.15	(0.84)	0.17	(0.07)	2.11	(0.31)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
In transit, train	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	23.09	(12.35)	14.87	(12.08)	16.89	(12.07)	29.70	(11.45)	84.54	(11.92)
In transit, bus	1.68	(0.90)	1.08	(0.88)	1.05	(0.75)	2.17	(0.84)	5.98	(0.84)
In transit, truck	1.35	(0.72)	0.75	(0.61)	0.71	(0.51)	2.01	(0.78)	4.82	(0.68)
In transit, van	0.00	(0.00)	0.28	(0.22)	0.68	(0.48)	0.00	(0.00)	0.96	(0.14)
Indoors, public garage	0.27	(0.15)	0.13	(0.11)	0.17	(0.12)	0.28	(0.11)	0.85	(0.12)
Outdoors, in a parking lot	0.84	(0.45)	0.76	(0.61)	1.06	(0.76)	1.20	(0.46)	3.87	(0.55)
Outdoors, along a roadway	5.93	(3.17)	5.40	(4.39)	7.29	(5.21)	7.79	(3.01)	26.42	(3.73)
In transit, motorcycle	0.00	(0.00)	0.70	(0.57)	1.29	(0.92)	0.00	(0.00)	1.98	(0.28)
Indoors, service station	0.03	(0.02)	0.03	(0.02)	0.02	(0.02)	0.05	(0.02)	0.13	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.01	(0.01)	0.00	(0.00)	0.04	(0.01)	0.07	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	107.44	(57.45)	66.84	(54.33)	73.74	(52.73)	154.83	(59.72)	402.85	(56.80)
Indoors, office	18.09	(9.67)	12.65	(10.28)	14.80	(10.58)	23.55	(9.08)	69.09	(9.74)
Indoors, store	5.26	(2.81)	4.01	(3.26)	4.62	(3.30)	6.92	(2.67)	20.81	(2.93)
Indoors, restaurant	5.13	(2.74)	3.45	(2.81)	4.46	(3.19)	6.69	(2.58)	19.73	(2.78)
Indoors, mfg. facility	1.72	(0.92)	1.19	(0.97)	1.23	(0.88)	2.36	(0.91)	6.49	(0.92)
Indoors, school	4.79	(2.56)	2.60	(2.12)	2.04	(1.46)	6.29	(2.42)	15.72	(2.22)
Indoors, church	0.94	(0.50)	0.55	(0.45)	0.48	(0.34)	1.33	(0.51)	3.30	(0.46)
Indoors, shopping mall	1.44	(0.77)	0.75	(0.61)	0.48	(0.34)	1.84	(0.71)	4.51	(0.64)
Indoors, auditorium	0.14	(0.08)	0.09	(0.07)	0.06	(0.04)	0.21	(0.08)	0.50	(0.07)
Indoors, health care facility	2.15	(1.15)	1.23	(1.00)	1.29	(0.93)	2.99	(1.15)	7.66	(1.08)
Indoors, public building	0.40	(0.21)	0.28	(0.23)	0.27	(0.19)	0.51	(0.20)	1.46	(0.21)
Indoors, other location	5.12	(2.74)	3.39	(2.76)	4.18	(2.99)	6.88	(2.65)	19.57	(2.76)
Indoors, not specified	0.08	(0.04)	0.04	(0.03)	0.02	(0.01)	0.09	(0.04)	0.23	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.56	(0.30)	0.92	(0.75)	1.37	(0.98)	0.78	(0.30)	3.62	(0.51)
Outdoors, school grounds	0.17	(0.09)	0.25	(0.20)	0.47	(0.34)	0.26	(0.10)	1.14	(0.16)
Outdoors, sports arena	0.02	(0.01)	0.23	(0.18)	0.51	(0.36)	0.04	(0.01)	0.79	(0.11)
Outdoors, park/golf course	0.10	(0.05)	0.15	(0.12)	0.16	(0.11)	0.16	(0.06)	0.57	(0.08)
Outdoors, other location	0.07	(0.04)	0.33	(0.26)	0.47	(0.34)	0.08	(0.03)	0.94	(0.13)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
In transit, train	0.17	(0.09)	0.09	(0.07)	0.05	(0.03)	0.26	(0.10)	0.57	(0.08)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	18.05	(9.89)	14.57	(11.22)	17.51	(11.55)	23.61	(9.66)	73.74	(10.41)
In transit, bus	0.52	(0.29)	3.58	(2.75)	9.84	(6.49)	0.51	(0.21)	14.45	(2.04)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.50	(0.27)	0.35	(0.27)	0.23	(0.15)	0.67	(0.28)	1.74	(0.25)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	1.37	(0.75)	3.42	(2.63)	6.16	(4.06)	1.73	(0.71)	12.67	(1.79)
Outdoors, along a roadway	6.07	(3.33)	5.87	(4.52)	8.04	(5.30)	7.56	(3.09)	27.54	(3.89)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.73	(0.95)	1.30	(1.00)	0.76	(0.50)	2.08	(0.85)	5.87	(0.83)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	135.55	(74.25)	81.78	(62.96)	83.57	(55.10)	184.45	(75.48)	485.35	(68.50)
Indoors, office	0.34	(0.19)	0.09	(0.07)	0.05	(0.03)	0.29	(0.12)	0.76	(0.11)
Indoors, store	2.06	(1.13)	1.97	(1.52)	2.05	(1.35)	2.26	(0.92)	8.34	(1.18)
Indoors, restaurant	1.07	(0.58)	0.11	(0.09)	0.07	(0.05)	0.83	(0.34)	2.09	(0.29)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	3.18	(1.74)	2.11	(1.62)	1.18	(0.78)	4.62	(1.89)	11.09	(1.57)
Indoors, church	0.86	(0.47)	0.56	(0.43)	0.31	(0.21)	1.05	(0.43)	2.77	(0.39)
Indoors, shopping mall	1.14	(0.62)	0.00	(0.00)	0.00	(0.00)	1.14	(0.47)	2.28	(0.32)
Indoors, auditorium	0.04	(0.02)	0.14	(0.11)	0.38	(0.25)	0.02	(0.01)	0.58	(0.08)
Indoors, health care facility	3.80	(2.08)	2.26	(1.74)	1.09	(0.72)	5.69	(2.33)	12.84	(1.81)
Indoors, public building	0.05	(0.03)	0.07	(0.05)	0.00	(0.00)	0.03	(0.01)	0.14	(0.02)
Indoors, other location	4.01	(2.19)	6.11	(4.71)	11.20	(7.39)	5.23	(2.14)	26.55	(3.75)
Indoors, not specified	0.12	(0.07)	0.00	(0.00)	0.00	(0.00)	0.06	(0.03)	0.19	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.03	(1.11)	3.38	(2.60)	3.35	(2.21)	2.45	(1.00)	11.21	(1.58)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.30	(0.23)	0.83	(0.55)	0.00	(0.00)	1.13	(0.16)
Outdoors, park/golf course	0.09	(0.05)	0.10	(0.08)	0.00	(0.00)	0.09	(0.04)	0.28	(0.04)
Outdoors, other location	0.00	(0.00)	1.82	(1.40)	5.04	(3.33)	0.00	(0.00)	6.86	(0.97)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	29.87	(14.95)	19.85	(15.09)	21.67	(14.53)	39.42	(14.26)	110.82	(14.64)
In transit, bus	2.69	(1.35)	1.05	(0.80)	1.05	(0.70)	2.91	(1.05)	7.70	(1.02)
In transit, truck	6.38	(3.19)	4.25	(3.23)	3.46	(2.32)	9.28	(3.36)	23.37	(3.09)
In transit, van	0.74	(0.37)	1.53	(1.16)	3.22	(2.16)	1.03	(0.37)	6.52	(0.86)
Indoors, public garage	0.73	(0.37)	0.45	(0.34)	0.26	(0.17)	1.12	(0.40)	2.55	(0.34)
Outdoors, in a parking lot	1.18	(0.59)	0.81	(0.61)	0.89	(0.60)	1.69	(0.61)	4.56	(0.60)
Outdoors, along a roadway	7.27	(3.64)	6.66	(5.06)	9.63	(6.46)	9.36	(3.38)	32.91	(4.35)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.76	(0.38)	0.26	(0.20)	0.20	(0.14)	0.76	(0.28)	1.98	(0.26)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.04	(0.03)	0.10	(0.06)	0.01	(0.00)	0.16	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	99.82	(49.97)	59.71	(45.40)	62.78	(42.12)	145.82	(52.74)	368.13	(48.63)
Indoors, office	18.65	(9.34)	12.48	(9.49)	13.86	(9.30)	22.80	(8.25)	67.80	(8.96)
Indoors, store	5.17	(2.59)	2.95	(2.25)	2.79	(1.87)	6.67	(2.41)	17.58	(2.32)
Indoors, restaurant	4.67	(2.34)	3.37	(2.57)	3.82	(2.56)	6.17	(2.23)	18.03	(2.38)
Indoors, mfg. facility	4.24	(2.12)	4.70	(3.58)	6.78	(4.55)	6.13	(2.22)	21.86	(2.89)
Indoors, school	2.03	(1.01)	2.13	(1.62)	3.14	(2.11)	3.26	(1.18)	10.56	(1.40)
Indoors, church	0.98	(0.49)	0.74	(0.56)	0.89	(0.60)	1.25	(0.45)	3.86	(0.51)
Indoors, shopping mall	0.60	(0.30)	0.23	(0.18)	0.59	(0.40)	0.64	(0.23)	2.07	(0.27)
Indoors, auditorium	0.04	(0.02)	0.03	(0.02)	0.07	(0.05)	0.03	(0.01)	0.17	(0.02)
Indoors, health care facility	0.51	(0.25)	0.10	(0.08)	0.17	(0.11)	0.38	(0.14)	1.15	(0.15)
Indoors, public building	0.63	(0.32)	0.97	(0.74)	2.09	(1.40)	0.98	(0.35)	4.66	(0.62)
Indoors, other location	10.35	(5.18)	5.65	(4.30)	5.03	(3.37)	13.69	(4.95)	34.72	(4.59)
Indoors, not specified	0.47	(0.24)	0.08	(0.06)	0.09	(0.06)	0.37	(0.13)	1.02	(0.13)
Outdoors, construction	0.00	(0.00)	0.18	(0.14)	0.42	(0.28)	0.00	(0.00)	0.60	(0.08)
Outdoors, residential grounds	0.44	(0.22)	1.89	(1.44)	4.13	(2.77)	0.69	(0.25)	7.15	(0.94)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.43	(0.21)	0.55	(0.42)	0.81	(0.54)	0.53	(0.19)	2.32	(0.31)
Outdoors, other location	1.06	(0.53)	0.86	(0.65)	1.16	(0.78)	1.44	(0.52)	4.52	(0.60)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.05	(0.02)	0.00	(0.00)	0.00	(0.00)	0.03	(0.01)	0.07	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.60	(7.16)	9.97	(8.41)	13.99	(10.45)	14.54	(6.10)	51.09	(7.66)
In transit, bus	0.43	(0.24)	0.31	(0.26)	0.45	(0.33)	0.42	(0.17)	1.59	(0.24)
In transit, truck	0.40	(0.23)	0.00	(0.00)	0.00	(0.00)	0.33	(0.14)	0.73	(0.11)
In transit, van	0.79	(0.45)	0.51	(0.43)	0.32	(0.24)	1.13	(0.48)	2.76	(0.41)
Indoors, public garage	0.05	(0.03)	0.01	(0.01)	0.01	(0.00)	0.04	(0.02)	0.10	(0.02)
Outdoors, in a parking lot	0.50	(0.28)	0.64	(0.54)	1.09	(0.82)	0.65	(0.27)	2.88	(0.43)
Outdoors, along a roadway	4.70	(2.67)	3.94	(3.33)	6.07	(4.53)	5.43	(2.28)	20.14	(3.02)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.01	(0.01)	0.03	(0.02)	0.01	(0.00)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	142.03	(80.80)	89.78	(75.79)	94.26	(70.36)	197.36	(82.79)	523.43	(78.52)
Indoors, office	0.58	(0.33)	0.40	(0.33)	0.36	(0.27)	0.69	(0.29)	2.02	(0.30)
Indoors, store	2.47	(1.40)	2.06	(1.74)	2.77	(2.07)	3.01	(1.26)	10.31	(1.55)
Indoors, restaurant	2.54	(1.44)	1.93	(1.63)	2.07	(1.54)	3.48	(1.46)	10.02	(1.50)
Indoors, mfg. facility	0.00	(0.00)	0.03	(0.02)	0.07	(0.05)	0.00	(0.00)	0.10	(0.01)
Indoors, school	0.55	(0.31)	0.35	(0.30)	0.44	(0.33)	0.77	(0.32)	2.12	(0.32)
Indoors, church	1.27	(0.72)	0.88	(0.75)	0.77	(0.57)	1.73	(0.72)	4.64	(0.70)
Indoors, shopping mall	1.21	(0.69)	0.67	(0.56)	0.81	(0.61)	1.42	(0.60)	4.11	(0.62)
Indoors, auditorium	0.02	(0.01)	0.01	(0.01)	0.04	(0.03)	0.02	(0.01)	0.09	(0.01)
Indoors, health care facility	0.51	(0.29)	0.83	(0.70)	1.56	(1.17)	0.58	(0.24)	3.48	(0.52)
Indoors, public building	0.41	(0.23)	0.29	(0.25)	0.24	(0.18)	0.64	(0.27)	1.58	(0.24)
Indoors, other location	2.83	(1.61)	2.92	(2.46)	4.17	(3.11)	3.65	(1.53)	13.58	(2.04)
Indoors, not specified	0.13	(0.08)	0.00	(0.00)	0.00	(0.00)	0.07	(0.03)	0.21	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.66	(0.94)	2.10	(1.77)	2.79	(2.08)	2.29	(0.96)	8.83	(1.32)
Outdoors, school grounds	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.18	(0.15)	0.46	(0.34)	0.00	(0.00)	0.64	(0.10)
Outdoors, park/golf course	0.00	(0.00)	0.46	(0.39)	0.95	(0.71)	0.00	(0.00)	1.41	(0.21)
Outdoors, other location	0.07	(0.04)	0.20	(0.17)	0.25	(0.19)	0.10	(0.04)	0.62	(0.09)
Outdoors, not specified	0.05	(0.03)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.07	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.33	(10.44)	14.35	(11.60)	18.22	(12.88)	24.58	(9.60)	76.48	(10.83)
In transit, bus	1.76	(0.95)	0.92	(0.74)	0.93	(0.66)	2.02	(0.79)	5.63	(0.80)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.45	(0.24)	0.13	(0.11)	0.07	(0.05)	0.50	(0.20)	1.16	(0.16)
Indoors, public garage	0.08	(0.04)	0.04	(0.03)	0.02	(0.01)	0.10	(0.04)	0.24	(0.03)
Outdoors, in a parking lot	0.81	(0.44)	0.78	(0.63)	0.96	(0.68)	1.10	(0.43)	3.67	(0.52)
Outdoors, along a roadway	5.70	(3.08)	4.33	(3.50)	5.49	(3.88)	7.04	(2.75)	22.56	(3.19)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.03	(0.01)	0.02	(0.02)	0.02	(0.02)	0.05	(0.02)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	109.50	(59.13)	66.71	(53.92)	71.38	(50.46)	156.02	(60.97)	403.62	(57.15)
Indoors, office	18.31	(9.89)	11.44	(9.24)	11.31	(7.99)	23.68	(9.25)	64.73	(9.16)
Indoors, store	3.89	(2.10)	3.53	(2.85)	4.73	(3.34)	5.17	(2.02)	17.32	(2.45)
Indoors, restaurant	7.22	(3.90)	4.86	(3.92)	4.52	(3.20)	10.63	(4.16)	27.23	(3.86)
Indoors, mfg. facility	0.00	(0.00)	3.04	(2.46)	8.07	(5.71)	0.00	(0.00)	11.11	(1.57)
Indoors, school	3.73	(2.02)	1.82	(1.47)	0.90	(0.63)	4.79	(1.87)	11.25	(1.59)
Indoors, church	0.83	(0.45)	0.54	(0.44)	0.65	(0.46)	1.12	(0.44)	3.14	(0.44)
Indoors, shopping mall	2.18	(1.18)	1.77	(1.43)	1.49	(1.05)	2.85	(1.11)	8.29	(1.17)
Indoors, auditorium	0.07	(0.04)	0.05	(0.04)	0.03	(0.02)	0.10	(0.04)	0.26	(0.04)
Indoors, health care facility	3.13	(1.69)	2.25	(1.82)	2.22	(1.57)	4.61	(1.80)	12.21	(1.73)
Indoors, public building	0.13	(0.07)	0.04	(0.03)	0.07	(0.05)	0.10	(0.04)	0.33	(0.05)
Indoors, other location	6.75	(3.65)	5.45	(4.41)	8.00	(5.65)	9.64	(3.77)	29.84	(4.22)
Indoors, not specified	0.04	(0.02)	0.06	(0.05)	0.01	(0.01)	0.06	(0.02)	0.16	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.87	(0.47)	1.28	(1.03)	2.07	(1.47)	1.27	(0.50)	5.49	(0.78)
Outdoors, school grounds	0.18	(0.10)	0.18	(0.14)	0.18	(0.13)	0.27	(0.11)	0.82	(0.12)
Outdoors, sports arena	0.02	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.01)	0.06	(0.01)
Outdoors, park/golf course	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.04	(0.01)
Outdoors, other location	0.11	(0.06)	0.12	(0.10)	0.12	(0.08)	0.16	(0.06)	0.51	(0.07)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	29.11	(15.35)	20.25	(15.56)	19.65	(13.65)	36.99	(14.67)	105.99	(14.81)
In transit, bus	2.27	(1.19)	1.52	(1.17)	0.76	(0.53)	3.38	(1.34)	7.92	(1.11)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, public garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Outdoors, in a parking lot	1.10	(0.58)	1.64	(1.26)	2.55	(1.78)	1.53	(0.61)	6.82	(0.95)
Outdoors, along a roadway	6.85	(3.61)	7.03	(5.40)	8.99	(6.25)	9.05	(3.59)	31.92	(4.46)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.08	(0.06)	0.20	(0.14)	0.00	(0.00)	0.28	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.03	(0.02)	0.03	(0.02)	0.03	(0.01)	0.12	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, home	124.14	(65.44)	79.80	(61.34)	88.76	(61.68)	168.31	(66.75)	461.01	(64.40)
Indoors, office	6.20	(3.27)	3.44	(2.64)	2.70	(1.87)	7.02	(2.78)	19.35	(2.70)
Indoors, store	1.19	(0.63)	1.02	(0.79)	1.54	(1.07)	1.37	(0.54)	5.12	(0.72)
Indoors, restaurant	5.08	(2.68)	3.34	(2.57)	2.66	(1.85)	6.66	(2.64)	17.73	(2.48)
Indoors, mfg. facility	1.83	(0.97)	0.92	(0.71)	0.47	(0.32)	2.33	(0.92)	5.55	(0.77)
Indoors, school	0.32	(0.17)	0.22	(0.17)	0.48	(0.33)	0.17	(0.07)	1.19	(0.17)
Indoors, church	1.40	(0.74)	0.86	(0.66)	0.58	(0.40)	1.89	(0.75)	4.73	(0.66)
Indoors, shopping mall	0.86	(0.45)	0.87	(0.67)	1.89	(1.31)	0.45	(0.18)	4.08	(0.57)
Indoors, auditorium	0.96	(0.51)	0.51	(0.39)	0.32	(0.22)	1.42	(0.56)	3.21	(0.45)
Indoors, health care facility	0.38	(0.20)	0.51	(0.39)	0.62	(0.43)	0.48	(0.19)	1.99	(0.28)
Indoors, public building	0.11	(0.06)	0.34	(0.26)	0.83	(0.57)	0.13	(0.05)	1.41	(0.20)
Indoors, other location	3.63	(1.91)	2.02	(1.56)	1.04	(0.72)	5.59	(2.22)	12.29	(1.72)
Indoors, not specified	0.00	(0.00)	0.29	(0.23)	0.84	(0.59)	0.00	(0.00)	1.14	(0.16)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.07	(1.09)	4.12	(3.17)	8.23	(5.72)	2.49	(0.99)	16.91	(2.36)
Outdoors, school grounds	0.74	(0.39)	0.42	(0.32)	0.21	(0.15)	1.23	(0.49)	2.60	(0.36)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	1.06	(0.56)	0.64	(0.49)	0.33	(0.23)	1.29	(0.51)	3.31	(0.46)
Outdoors, other location	0.00	(0.00)	0.08	(0.06)	0.17	(0.12)	0.00	(0.00)	0.25	(0.03)
Outdoors, not specified	0.17	(0.09)	0.13	(0.10)	0.07	(0.05)	0.22	(0.09)	0.58	(0.08)
In transit, train	0.21	(0.11)	0.00	(0.00)	0.00	(0.00)	0.12	(0.05)	0.32	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.87	(7.24)	10.43	(8.62)	11.99	(8.97)	15.18	(6.45)	50.47	(7.56)
In transit, bus	0.56	(0.31)	0.46	(0.38)	0.21	(0.16)	0.81	(0.34)	2.04	(0.31)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.07	(0.04)	0.00	(0.00)	0.00	(0.00)	0.04	(0.01)	0.11	(0.02)
Indoors, public garage	0.04	(0.02)	0.02	(0.02)	0.01	(0.00)	0.05	(0.02)	0.12	(0.02)
Outdoors, in a parking lot	0.23	(0.13)	0.41	(0.34)	0.75	(0.56)	0.29	(0.12)	1.68	(0.25)
Outdoors, along a roadway	3.91	(2.20)	3.71	(3.06)	5.91	(4.42)	4.35	(1.85)	17.88	(2.68)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.02	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.04	(0.03)	0.07	(0.05)	0.00	(0.00)	0.11	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	144.48	(81.28)	94.32	(77.97)	101.75	(76.14)	195.98	(83.24)	536.54	(80.35)
Indoors, office	0.62	(0.35)	0.17	(0.14)	0.40	(0.30)	0.40	(0.17)	1.59	(0.24)
Indoors, store	0.97	(0.55)	1.74	(1.44)	2.75	(2.06)	1.00	(0.43)	6.46	(0.97)
Indoors, restaurant	2.51	(1.41)	2.08	(1.72)	1.95	(1.46)	3.04	(1.29)	9.58	(1.43)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.06	(0.05)	0.15	(0.12)	0.00	(0.00)	0.21	(0.03)
Indoors, church	2.07	(1.17)	1.19	(0.98)	0.89	(0.67)	2.90	(1.23)	7.05	(1.06)
Indoors, shopping mall	3.79	(2.13)	2.81	(2.33)	1.49	(1.11)	5.42	(2.30)	13.51	(2.02)
Indoors, auditorium	0.10	(0.06)	0.08	(0.07)	0.04	(0.03)	0.14	(0.06)	0.36	(0.05)
Indoors, health care facility	0.78	(0.44)	0.36	(0.29)	0.37	(0.27)	0.87	(0.37)	2.37	(0.36)
Indoors, public building	0.39	(0.22)	0.39	(0.32)	0.48	(0.36)	0.52	(0.22)	1.78	(0.27)
Indoors, other location	3.86	(2.17)	0.94	(0.78)	0.53	(0.40)	3.78	(1.61)	9.12	(1.37)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.28	(0.16)	1.22	(1.00)	2.79	(2.09)	0.34	(0.14)	4.62	(0.69)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.25	(0.14)	0.24	(0.20)	0.27	(0.20)	0.33	(0.14)	1.09	(0.16)
Outdoors, park/golf course	0.00	(0.00)	0.12	(0.10)	0.33	(0.24)	0.00	(0.00)	0.44	(0.07)
Outdoors, other location	0.00	(0.00)	0.19	(0.16)	0.49	(0.37)	0.00	(0.00)	0.68	(0.10)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.24	(6.49)	7.75	(5.29)	6.20	(3.60)	18.88	(6.16)	47.06	(5.57)
In transit, bus	0.00	(0.00)	0.51	(0.35)	1.27	(0.74)	0.00	(0.00)	1.78	(0.21)
In transit, truck	15.40	(7.02)	13.79	(9.42)	23.08	(13.40)	19.39	(6.32)	71.66	(8.48)
In transit, van	0.55	(0.25)	0.00	(0.00)	0.00	(0.00)	0.35	(0.11)	0.90	(0.11)
Indoors, public garage	4.67	(2.13)	2.18	(1.49)	1.13	(0.66)	6.72	(2.19)	14.69	(1.74)
Outdoors, in a parking lot	3.16	(1.44)	2.32	(1.58)	1.84	(1.07)	5.09	(1.66)	12.41	(1.47)
Outdoors, along a roadway	28.26	(12.88)	23.34	(15.95)	27.91	(16.20)	38.10	(12.43)	117.62	(13.92)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	3.87	(1.76)	0.47	(0.32)	1.08	(0.63)	2.60	(0.85)	8.03	(0.95)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.73	(0.33)	0.06	(0.04)	0.03	(0.02)	0.98	(0.32)	1.81	(0.21)
Indoors, in a repair shop	0.00	(0.00)	0.18	(0.12)	0.50	(0.29)	0.00	(0.00)	0.68	(0.08)
Indoors, home	93.48	(42.58)	54.43	(37.19)	56.81	(32.96)	140.19	(45.72)	344.90	(40.83)
Indoors, office	2.58	(1.17)	3.38	(2.31)	7.04	(4.08)	2.43	(0.79)	15.42	(1.83)
Indoors, store	0.85	(0.39)	0.37	(0.25)	0.37	(0.21)	1.08	(0.35)	2.66	(0.32)
Indoors, restaurant	3.48	(1.59)	1.48	(1.01)	1.10	(0.64)	3.52	(1.15)	9.58	(1.13)
Indoors, mfg. facility	3.79	(1.73)	3.38	(2.31)	1.47	(0.85)	6.03	(1.97)	14.68	(1.74)
Indoors, school	1.59	(0.72)	1.07	(0.73)	0.54	(0.31)	2.51	(0.82)	5.71	(0.68)
Indoors, church	1.27	(0.58)	0.42	(0.29)	0.25	(0.15)	1.82	(0.60)	3.77	(0.45)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.08	(0.03)	0.45	(0.31)	0.87	(0.50)	0.09	(0.03)	1.49	(0.18)
Indoors, health care facility	0.00	(0.00)	0.13	(0.09)	0.34	(0.20)	0.00	(0.00)	0.47	(0.06)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	3.80	(1.73)	0.95	(0.65)	1.21	(0.70)	3.63	(1.18)	9.58	(1.13)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	12.29	(5.60)	14.31	(9.78)	24.49	(14.21)	17.70	(5.77)	68.79	(8.14)
Outdoors, residential grounds	2.45	(1.12)	2.00	(1.37)	1.96	(1.14)	3.79	(1.24)	10.21	(1.21)
Outdoors, school grounds	0.17	(0.08)	0.13	(0.09)	0.06	(0.04)	0.24	(0.08)	0.59	(0.07)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.83	(0.38)	0.64	(0.44)	0.45	(0.26)	1.26	(0.41)	3.18	(0.38)
Outdoors, other location	21.96	(10.01)	12.64	(8.64)	12.31	(7.14)	30.23	(9.86)	77.14	(9.13)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.43	(5.89)	8.73	(6.74)	9.71	(6.78)	16.33	(5.99)	46.20	(6.25)
In transit, bus	7.18	(3.70)	3.56	(2.75)	2.36	(1.65)	9.46	(3.47)	22.55	(3.05)
In transit, truck	0.16	(0.08)	0.24	(0.18)	0.39	(0.27)	0.22	(0.08)	1.00	(0.14)
In transit, van	0.35	(0.18)	0.24	(0.19)	0.37	(0.26)	0.32	(0.12)	1.28	(0.17)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.90	(0.46)	0.66	(0.51)	0.80	(0.56)	1.21	(0.44)	3.57	(0.48)
Outdoors, along a roadway	18.71	(9.64)	15.80	(12.19)	21.42	(14.96)	23.25	(8.52)	79.17	(10.70)
In transit, motorcycle	0.33	(0.17)	0.06	(0.05)	0.05	(0.04)	0.32	(0.12)	0.76	(0.10)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.07	(0.04)	0.07	(0.06)	0.10	(0.07)	0.11	(0.04)	0.35	(0.05)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	101.94	(52.51)	65.09	(50.24)	73.07	(51.02)	151.68	(55.61)	391.77	(52.98)
Indoors, office	0.18	(0.09)	0.14	(0.11)	0.22	(0.16)	0.15	(0.05)	0.69	(0.09)
Indoors, store	1.69	(0.87)	1.26	(0.97)	1.64	(1.14)	2.07	(0.76)	6.66	(0.90)
Indoors, restaurant	1.81	(0.93)	1.36	(1.05)	1.25	(0.88)	2.93	(1.07)	7.35	(0.99)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	33.51	(17.26)	16.70	(12.90)	11.37	(7.94)	43.74	(16.04)	105.33	(14.24)
Indoors, church	0.85	(0.44)	0.48	(0.37)	0.48	(0.34)	1.15	(0.42)	2.97	(0.40)
Indoors, shopping mall	1.21	(0.62)	0.96	(0.74)	0.96	(0.67)	1.53	(0.56)	4.66	(0.63)
Indoors, auditorium	0.19	(0.10)	0.12	(0.09)	0.07	(0.05)	0.32	(0.12)	0.69	(0.09)
Indoors, health care facility	0.85	(0.44)	0.54	(0.42)	0.31	(0.22)	1.21	(0.44)	2.91	(0.39)
Indoors, public building	0.55	(0.28)	0.37	(0.29)	0.35	(0.24)	0.80	(0.29)	2.06	(0.28)
Indoors, other location	1.45	(0.75)	0.90	(0.70)	0.83	(0.58)	1.93	(0.71)	5.11	(0.69)
Indoors, not specified	0.00	(0.00)	0.04	(0.03)	0.10	(0.07)	0.00	(0.00)	0.13	(0.02)
Outdoors, construction	0.00	(0.00)	0.15	(0.11)	0.41	(0.29)	0.00	(0.00)	0.56	(0.08)
Outdoors, residential grounds	3.83	(1.98)	4.65	(3.59)	7.06	(4.93)	4.99	(1.83)	20.54	(2.78)
Outdoors, school grounds	5.94	(3.06)	4.28	(3.31)	3.69	(2.58)	7.69	(2.82)	21.60	(2.92)
Outdoors, sports arena	0.63	(0.33)	0.56	(0.43)	0.69	(0.48)	0.88	(0.32)	2.76	(0.37)
Outdoors, park/golf course	0.25	(0.13)	0.86	(0.66)	1.67	(1.17)	0.32	(0.12)	3.10	(0.42)
Outdoors, other location	0.11	(0.06)	1.71	(1.32)	3.83	(2.67)	0.16	(0.06)	5.82	(0.79)
Outdoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.15	(5.71)	9.64	(7.96)	13.64	(9.96)	13.27	(5.44)	46.71	(6.87)
In transit, bus	3.24	(1.82)	1.94	(1.60)	0.97	(0.71)	4.51	(1.85)	10.66	(1.57)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	1.08	(0.61)	0.70	(0.58)	0.49	(0.36)	1.49	(0.61)	3.76	(0.55)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.54	(0.31)	0.55	(0.45)	0.81	(0.59)	0.72	(0.29)	2.62	(0.39)
Outdoors, along a roadway	4.72	(2.66)	5.09	(4.20)	8.48	(6.19)	5.94	(2.43)	24.23	(3.56)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.05	(0.04)	0.14	(0.10)	0.00	(0.00)	0.19	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.17	(0.09)	0.12	(0.10)	0.11	(0.08)	0.18	(0.07)	0.58	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, home	130.19	(73.21)	81.28	(67.09)	87.80	(64.12)	181.13	(74.23)	480.41	(70.65)
Indoors, office	6.22	(3.50)	4.08	(3.37)	4.04	(2.95)	7.97	(3.27)	22.31	(3.28)
Indoors, store	1.47	(0.83)	1.62	(1.34)	2.67	(1.95)	1.72	(0.71)	7.48	(1.10)
Indoors, restaurant	3.33	(1.87)	2.05	(1.69)	1.87	(1.37)	4.18	(1.71)	11.43	(1.68)
Indoors, mfg. facility	2.37	(1.33)	2.18	(1.80)	2.97	(2.17)	3.32	(1.36)	10.83	(1.59)
Indoors, school	7.40	(4.16)	4.45	(3.67)	3.49	(2.55)	10.23	(4.19)	25.57	(3.76)
Indoors, church	1.75	(0.99)	1.14	(0.94)	0.89	(0.65)	2.30	(0.94)	6.08	(0.89)
Indoors, shopping mall	0.90	(0.51)	0.65	(0.53)	0.33	(0.24)	1.38	(0.57)	3.26	(0.48)
Indoors, auditorium	0.07	(0.04)	0.04	(0.03)	0.02	(0.01)	0.12	(0.05)	0.24	(0.03)
Indoors, health care facility	0.77	(0.43)	0.46	(0.38)	0.48	(0.35)	0.98	(0.40)	2.68	(0.39)
Indoors, public building	0.07	(0.04)	0.10	(0.08)	0.05	(0.04)	0.09	(0.04)	0.31	(0.04)
Indoors, other location	0.32	(0.18)	0.77	(0.63)	1.37	(1.00)	0.49	(0.20)	2.95	(0.43)
Indoors, not specified	0.03	(0.02)	0.16	(0.14)	0.39	(0.29)	0.03	(0.01)	0.62	(0.09)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.63	(0.92)	2.53	(2.09)	3.86	(2.82)	2.05	(0.84)	10.06	(1.48)
Outdoors, school grounds	1.23	(0.69)	0.84	(0.69)	0.43	(0.31)	1.76	(0.72)	4.25	(0.63)
Outdoors, sports arena	0.01	(0.01)	0.13	(0.11)	0.26	(0.19)	0.03	(0.01)	0.44	(0.06)
Outdoors, park/golf course	0.11	(0.06)	0.03	(0.02)	0.04	(0.03)	0.06	(0.03)	0.24	(0.04)
Outdoors, other location	0.07	(0.04)	0.55	(0.45)	1.31	(0.96)	0.09	(0.04)	2.01	(0.30)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

San Francisco: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.01	(10.59)	13.37	(10.59)	14.98	(10.55)	25.76	(9.90)	74.13	(10.33)
In transit, bus	2.04	(1.08)	1.27	(1.00)	1.21	(0.86)	2.63	(1.01)	7.15	(1.00)
In transit, truck	1.73	(0.92)	1.23	(0.97)	1.53	(1.08)	2.25	(0.86)	6.74	(0.94)
In transit, van	0.80	(0.42)	0.58	(0.46)	0.66	(0.46)	1.09	(0.42)	3.13	(0.44)
Indoors, public garage	0.47	(0.25)	0.24	(0.19)	0.16	(0.12)	0.59	(0.23)	1.46	(0.20)
Outdoors, in a parking lot	0.91	(0.48)	0.85	(0.67)	1.15	(0.81)	1.26	(0.48)	4.16	(0.58)
Outdoors, along a roadway	8.34	(4.41)	7.84	(6.21)	10.52	(7.41)	10.97	(4.22)	37.68	(5.25)
In transit, motorcycle	0.02	(0.01)	0.11	(0.09)	0.20	(0.14)	0.02	(0.01)	0.35	(0.05)
Indoors, service station	0.47	(0.25)	0.22	(0.17)	0.17	(0.12)	0.53	(0.20)	1.39	(0.19)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.22	(0.12)	0.14	(0.11)	0.12	(0.08)	0.31	(0.12)	0.78	(0.11)
Indoors, in a repair shop	0.19	(0.10)	0.01	(0.01)	0.01	(0.01)	0.13	(0.05)	0.34	(0.05)
Indoors, home	114.76	(60.71)	71.91	(56.95)	78.25	(55.13)	164.01	(63.04)	428.93	(59.78)
Indoors, office	10.11	(5.35)	6.04	(4.79)	6.04	(4.25)	12.28	(4.72)	34.47	(4.80)
Indoors, store	3.12	(1.65)	2.50	(1.98)	3.18	(2.24)	3.87	(1.49)	12.68	(1.77)
Indoors, restaurant	3.82	(2.02)	2.63	(2.08)	3.11	(2.19)	4.94	(1.90)	14.51	(2.02)
Indoors, mfg. facility	1.42	(0.75)	1.40	(1.11)	2.04	(1.44)	1.89	(0.73)	6.75	(0.94)
Indoors, school	8.15	(4.31)	5.04	(3.99)	4.14	(2.92)	11.09	(4.26)	28.42	(3.96)
Indoors, church	0.87	(0.46)	0.56	(0.44)	0.53	(0.38)	1.21	(0.46)	3.16	(0.44)
Indoors, shopping mall	1.12	(0.59)	0.75	(0.60)	0.74	(0.52)	1.41	(0.54)	4.02	(0.56)
Indoors, auditorium	0.16	(0.09)	0.10	(0.08)	0.10	(0.07)	0.22	(0.09)	0.59	(0.08)
Indoors, health care facility	1.29	(0.69)	0.81	(0.64)	0.78	(0.55)	1.72	(0.66)	4.61	(0.64)
Indoors, public building	0.37	(0.20)	0.32	(0.25)	0.44	(0.31)	0.50	(0.19)	1.64	(0.23)
Indoors, other location	4.86	(2.57)	3.18	(2.52)	3.91	(2.76)	6.39	(2.46)	18.34	(2.56)
Indoors, not specified	0.16	(0.09)	0.06	(0.05)	0.08	(0.06)	0.16	(0.06)	0.47	(0.07)
Outdoors, construction	0.29	(0.15)	0.31	(0.25)	0.45	(0.32)	0.42	(0.16)	1.47	(0.21)
Outdoors, residential grounds	1.48	(0.78)	2.25	(1.78)	3.47	(2.44)	2.04	(0.78)	9.23	(1.29)
Outdoors, school grounds	0.84	(0.45)	0.78	(0.62)	0.93	(0.65)	1.15	(0.44)	3.71	(0.52)
Outdoors, sports arena	0.09	(0.05)	0.18	(0.14)	0.34	(0.24)	0.12	(0.04)	0.73	(0.10)
Outdoors, park/golf course	0.21	(0.11)	0.45	(0.36)	0.77	(0.54)	0.28	(0.11)	1.70	(0.24)
Outdoors, other location	0.58	(0.31)	1.05	(0.83)	1.78	(1.26)	0.80	(0.31)	4.22	(0.59)
Outdoors, not specified	0.03	(0.02)	0.05	(0.04)	0.06	(0.04)	0.04	(0.02)	0.18	(0.03)
In transit, train	0.08	(0.04)	0.04	(0.03)	0.06	(0.04)	0.08	(0.03)	0.26	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	31.49	(10.03)	26.47	(10.76)	30.96	(11.01)	32.37	(10.09)	121.29	(10.44)
In transit, bus	4.81	(1.53)	2.87	(1.16)	1.96	(0.70)	5.10	(1.59)	14.73	(1.27)
In transit, truck	1.23	(0.39)	2.38	(0.97)	2.44	(0.87)	1.49	(0.47)	7.55	(0.65)
In transit, van	1.33	(0.42)	1.26	(0.51)	1.47	(0.52)	1.46	(0.46)	5.52	(0.48)
Indoors, public garage	0.75	(0.24)	0.31	(0.13)	0.23	(0.08)	0.75	(0.23)	2.04	(0.18)
Outdoors, in a parking lot	2.69	(0.86)	2.19	(0.89)	2.54	(0.90)	2.86	(0.89)	10.28	(0.88)
Outdoors, along a roadway	16.20	(5.16)	17.36	(7.05)	23.95	(8.52)	16.98	(5.29)	74.49	(6.41)
In transit, motorcycle	0.21	(0.07)	0.25	(0.10)	0.50	(0.18)	0.18	(0.06)	1.14	(0.10)
Indoors, service station	0.78	(0.25)	0.45	(0.18)	0.28	(0.10)	0.84	(0.26)	2.34	(0.20)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.26	(0.08)	0.23	(0.09)	0.17	(0.06)	0.26	(0.08)	0.92	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.01	(0.00)	0.01	(0.00)	0.03	(0.00)
Indoors, home	183.23	(58.35)	130.47	(53.01)	150.95	(53.70)	181.92	(56.69)	646.57	(55.64)
Indoors, office	10.16	(3.24)	9.14	(3.71)	9.10	(3.24)	11.29	(3.52)	39.69	(3.42)
Indoors, store	8.10	(2.58)	6.03	(2.45)	6.30	(2.24)	8.49	(2.64)	28.93	(2.49)
Indoors, restaurant	8.71	(2.77)	6.21	(2.52)	6.50	(2.31)	8.86	(2.76)	30.28	(2.61)
Indoors, mfg. facility	3.83	(1.22)	3.47	(1.41)	3.47	(1.23)	4.21	(1.31)	14.99	(1.29)
Indoors, school	19.50	(6.21)	12.99	(5.28)	8.27	(2.94)	21.89	(6.82)	62.66	(5.39)
Indoors, church	1.40	(0.45)	1.02	(0.42)	0.98	(0.35)	1.49	(0.46)	4.89	(0.42)
Indoors, shopping mall	2.64	(0.84)	1.92	(0.78)	1.58	(0.56)	2.81	(0.87)	8.95	(0.77)
Indoors, auditorium	0.22	(0.07)	0.24	(0.10)	0.31	(0.11)	0.22	(0.07)	1.00	(0.09)
Indoors, health care facility	2.42	(0.77)	1.74	(0.71)	1.45	(0.51)	2.50	(0.78)	8.10	(0.70)
Indoors, public building	0.75	(0.24)	0.82	(0.33)	1.04	(0.37)	0.81	(0.25)	3.42	(0.29)
Indoors, other location	5.78	(1.84)	6.02	(2.45)	6.50	(2.31)	5.79	(1.80)	24.09	(2.07)
Indoors, not specified	0.15	(0.05)	0.10	(0.04)	0.17	(0.06)	0.15	(0.05)	0.57	(0.05)
Outdoors, construction	0.54	(0.17)	0.87	(0.36)	0.74	(0.26)	0.68	(0.21)	2.83	(0.24)
Outdoors, residential grounds	3.33	(1.06)	5.45	(2.21)	9.91	(3.53)	3.64	(1.13)	22.33	(1.92)
Outdoors, school grounds	2.23	(0.71)	2.20	(0.89)	1.65	(0.59)	2.50	(0.78)	8.57	(0.74)
Outdoors, sports arena	0.09	(0.03)	0.40	(0.16)	0.78	(0.28)	0.11	(0.03)	1.38	(0.12)
Outdoors, park/golf course	0.36	(0.11)	1.10	(0.45)	2.03	(0.72)	0.42	(0.13)	3.91	(0.34)
Outdoors, other location	0.69	(0.22)	2.05	(0.83)	4.81	(1.71)	0.72	(0.22)	8.26	(0.71)
Outdoors, not specified	0.09	(0.03)	0.07	(0.03)	0.06	(0.02)	0.09	(0.03)	0.31	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	33.21	(10.27)	20.93	(8.19)	23.85	(8.13)	33.96	(10.24)	111.95	(9.30)
In transit, bus	4.84	(1.50)	8.79	(3.44)	8.15	(2.78)	6.23	(1.88)	28.01	(2.33)
In transit, truck	0.00	(0.00)	1.33	(0.52)	1.65	(0.56)	0.00	(0.00)	2.99	(0.25)
In transit, van	0.00	(0.00)	0.08	(0.03)	0.14	(0.05)	0.00	(0.00)	0.22	(0.02)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	2.77	(0.86)	1.70	(0.66)	2.85	(0.97)	2.74	(0.83)	10.06	(0.84)
Outdoors, along a roadway	9.32	(2.88)	16.46	(6.44)	27.77	(9.47)	9.56	(2.88)	63.11	(5.24)
In transit, motorcycle	0.09	(0.03)	0.27	(0.11)	0.21	(0.07)	0.15	(0.04)	0.73	(0.06)
Indoors, service station	0.00	(0.00)	0.17	(0.06)	0.21	(0.07)	0.00	(0.00)	0.38	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.07	(0.03)	0.09	(0.03)	0.00	(0.00)	0.17	(0.01)
Indoors, home	218.80	(67.66)	157.96	(61.80)	179.30	(61.12)	221.69	(66.88)	777.74	(64.61)
Indoors, office	0.15	(0.05)	4.11	(1.61)	4.95	(1.69)	0.29	(0.09)	9.50	(0.79)
Indoors, store	2.00	(0.62)	2.38	(0.93)	3.84	(1.31)	2.19	(0.66)	10.40	(0.86)
Indoors, restaurant	5.47	(1.69)	1.16	(0.45)	0.69	(0.24)	5.01	(1.51)	12.32	(1.02)
Indoors, mfg. facility	9.38	(2.90)	2.87	(1.12)	1.84	(0.63)	9.26	(2.79)	23.35	(1.94)
Indoors, school	8.62	(2.66)	14.72	(5.76)	9.66	(3.29)	12.02	(3.63)	45.01	(3.74)
Indoors, church	5.66	(1.75)	2.83	(1.11)	2.97	(1.01)	6.06	(1.83)	17.53	(1.46)
Indoors, shopping mall	0.35	(0.11)	1.51	(0.59)	1.19	(0.40)	0.64	(0.19)	3.69	(0.31)
Indoors, auditorium	0.05	(0.01)	0.14	(0.06)	0.11	(0.04)	0.08	(0.02)	0.38	(0.03)
Indoors, health care facility	1.70	(0.53)	2.46	(0.96)	4.53	(1.54)	2.06	(0.62)	10.75	(0.89)
Indoors, public building	0.05	(0.01)	0.35	(0.14)	0.92	(0.31)	0.08	(0.03)	1.40	(0.12)
Indoors, other location	19.45	(6.01)	5.29	(2.07)	5.30	(1.81)	16.94	(5.11)	46.98	(3.90)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.56	(0.17)	5.21	(2.04)	7.80	(2.66)	0.94	(0.29)	14.51	(1.21)
Outdoors, school grounds	0.61	(0.19)	2.36	(0.92)	1.42	(0.48)	1.12	(0.34)	5.51	(0.46)
Outdoors, sports arena	0.25	(0.08)	0.80	(0.31)	0.63	(0.21)	0.42	(0.13)	2.10	(0.17)
Outdoors, park/golf course	0.00	(0.00)	0.44	(0.17)	0.39	(0.13)	0.00	(0.00)	0.82	(0.07)
Outdoors, other location	0.03	(0.01)	0.70	(0.27)	2.01	(0.69)	0.03	(0.01)	2.77	(0.23)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.01	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.53	(0.21)	0.85	(0.29)	0.00	(0.00)	1.38	(0.11)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	26.57	(8.79)	19.62	(8.10)	22.17	(8.05)	27.31	(8.85)	95.67	(8.48)
In transit, bus	3.67	(1.21)	6.31	(2.60)	6.25	(2.27)	4.56	(1.48)	20.78	(1.84)
In transit, truck	0.00	(0.00)	1.15	(0.48)	1.41	(0.51)	0.00	(0.00)	2.56	(0.23)
In transit, van	0.57	(0.19)	1.44	(0.59)	1.10	(0.40)	0.81	(0.26)	3.91	(0.35)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	2.23	(0.74)	1.79	(0.74)	2.68	(0.97)	2.28	(0.74)	8.97	(0.80)
Outdoors, along a roadway	9.85	(3.26)	23.35	(9.64)	31.03	(11.26)	12.00	(3.89)	76.22	(6.76)
In transit, motorcycle	0.06	(0.02)	0.19	(0.08)	0.15	(0.05)	0.10	(0.03)	0.50	(0.04)
Indoors, service station	0.00	(0.00)	0.14	(0.06)	0.18	(0.07)	0.00	(0.00)	0.32	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.06	(0.03)	0.08	(0.03)	0.00	(0.00)	0.14	(0.01)
Indoors, home	213.25	(70.57)	147.21	(60.77)	165.63	(60.12)	213.73	(69.31)	739.82	(65.57)
Indoors, office	0.22	(0.07)	4.14	(1.71)	4.78	(1.74)	0.41	(0.13)	9.55	(0.85)
Indoors, store	1.63	(0.54)	2.62	(1.08)	3.76	(1.36)	1.80	(0.58)	9.81	(0.87)
Indoors, restaurant	4.74	(1.57)	1.27	(0.52)	0.77	(0.28)	4.34	(1.41)	11.13	(0.99)
Indoors, mfg. facility	7.67	(2.54)	2.40	(0.99)	1.56	(0.57)	7.50	(2.43)	19.14	(1.70)
Indoors, school	8.24	(2.73)	10.35	(4.27)	6.73	(2.44)	10.47	(3.40)	35.80	(3.17)
Indoors, church	4.27	(1.41)	2.71	(1.12)	2.90	(1.05)	4.61	(1.49)	14.48	(1.28)
Indoors, shopping mall	0.30	(0.10)	1.28	(0.53)	0.99	(0.36)	0.54	(0.17)	3.10	(0.27)
Indoors, auditorium	0.04	(0.01)	0.12	(0.05)	0.09	(0.03)	0.07	(0.02)	0.32	(0.03)
Indoors, health care facility	1.38	(0.46)	2.16	(0.89)	3.75	(1.36)	1.70	(0.55)	8.99	(0.80)
Indoors, public building	0.04	(0.01)	0.30	(0.12)	0.74	(0.27)	0.07	(0.02)	1.14	(0.10)
Indoors, other location	16.00	(5.29)	4.90	(2.02)	4.83	(1.75)	13.92	(4.51)	39.65	(3.51)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.73	(0.24)	4.71	(1.95)	8.80	(3.19)	1.00	(0.32)	15.24	(1.35)
Outdoors, school grounds	0.41	(0.14)	1.58	(0.65)	0.96	(0.35)	0.74	(0.24)	3.70	(0.33)
Outdoors, sports arena	0.21	(0.07)	0.71	(0.29)	0.59	(0.21)	0.35	(0.11)	1.86	(0.16)
Outdoors, park/golf course	0.00	(0.00)	0.36	(0.15)	0.32	(0.12)	0.00	(0.00)	0.68	(0.06)
Outdoors, other location	0.07	(0.02)	0.85	(0.35)	2.46	(0.89)	0.10	(0.03)	3.48	(0.31)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.01	(0.00)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.47	(0.19)	0.76	(0.28)	0.00	(0.00)	1.23	(0.11)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.13	(5.50)	14.52	(6.35)	20.74	(7.94)	16.58	(5.55)	67.97	(6.28)
In transit, bus	4.49	(1.53)	3.00	(1.31)	1.72	(0.66)	4.96	(1.66)	14.17	(1.31)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.14	(0.06)	1.62	(0.62)	0.00	(0.00)	1.76	(0.16)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.42	(0.48)	3.07	(1.34)	3.21	(1.23)	1.61	(0.54)	9.32	(0.86)
Outdoors, along a roadway	13.85	(4.72)	16.44	(7.19)	17.37	(6.65)	15.34	(5.13)	62.99	(5.82)
In transit, motorcycle	0.00	(0.00)	0.14	(0.06)	0.46	(0.18)	0.00	(0.00)	0.60	(0.06)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.05	(0.02)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	217.75	(74.24)	160.16	(70.08)	182.87	(70.02)	218.27	(73.05)	779.05	(72.01)
Indoors, office	0.77	(0.26)	0.22	(0.10)	0.22	(0.08)	0.79	(0.26)	2.00	(0.18)
Indoors, store	7.01	(2.39)	4.90	(2.14)	8.19	(3.14)	7.26	(2.43)	27.35	(2.53)
Indoors, restaurant	9.73	(3.32)	2.25	(0.98)	1.55	(0.59)	8.46	(2.83)	21.99	(2.03)
Indoors, mfg. facility	3.85	(1.31)	3.53	(1.55)	3.05	(1.17)	3.85	(1.29)	14.28	(1.32)
Indoors, school	10.62	(3.62)	9.06	(3.96)	4.57	(1.75)	12.67	(4.24)	36.92	(3.41)
Indoors, church	0.52	(0.18)	0.57	(0.25)	0.39	(0.15)	0.63	(0.21)	2.11	(0.20)
Indoors, shopping mall	0.55	(0.19)	1.95	(0.85)	1.08	(0.41)	1.02	(0.34)	4.60	(0.43)
Indoors, auditorium	0.08	(0.03)	0.31	(0.13)	0.40	(0.15)	0.14	(0.05)	0.92	(0.08)
Indoors, health care facility	0.17	(0.06)	0.67	(0.29)	0.66	(0.25)	0.32	(0.11)	1.82	(0.17)
Indoors, public building	1.24	(0.42)	0.45	(0.20)	0.17	(0.07)	1.36	(0.45)	3.22	(0.30)
Indoors, other location	2.66	(0.91)	3.03	(1.32)	3.44	(1.32)	2.88	(0.96)	11.99	(1.11)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.97	(0.67)	2.63	(1.15)	3.83	(1.47)	2.04	(0.68)	10.47	(0.97)
Outdoors, school grounds	0.12	(0.04)	0.47	(0.21)	0.26	(0.10)	0.23	(0.08)	1.09	(0.10)
Outdoors, sports arena	0.00	(0.00)	0.33	(0.15)	0.86	(0.33)	0.00	(0.00)	1.19	(0.11)
Outdoors, park/golf course	0.39	(0.13)	0.16	(0.07)	0.45	(0.17)	0.40	(0.13)	1.40	(0.13)
Outdoors, other location	0.01	(0.00)	0.54	(0.23)	3.97	(1.52)	0.01	(0.00)	4.53	(0.42)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	25.90	(8.47)	22.67	(9.37)	25.97	(9.41)	27.13	(8.68)	101.66	(8.95)
In transit, bus	1.43	(0.47)	2.04	(0.85)	1.80	(0.65)	1.70	(0.55)	6.98	(0.61)
In transit, truck	0.94	(0.31)	3.94	(1.63)	3.85	(1.40)	1.11	(0.35)	9.84	(0.87)
In transit, van	0.12	(0.04)	0.35	(0.14)	0.39	(0.14)	0.15	(0.05)	1.01	(0.09)
Indoors, public garage	0.00	(0.00)	0.02	(0.01)	0.25	(0.09)	0.00	(0.00)	0.27	(0.02)
Outdoors, in a parking lot	4.59	(1.50)	2.52	(1.04)	3.38	(1.23)	4.94	(1.58)	15.43	(1.36)
Outdoors, along a roadway	17.71	(5.80)	18.93	(7.83)	27.67	(10.03)	18.02	(5.77)	82.33	(7.25)
In transit, motorcycle	0.00	(0.00)	1.37	(0.57)	3.36	(1.22)	0.00	(0.00)	4.73	(0.42)
Indoors, service station	0.00	(0.00)	0.09	(0.04)	0.27	(0.10)	0.00	(0.00)	0.36	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.31	(0.10)	0.33	(0.14)	0.21	(0.08)	0.36	(0.12)	1.21	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.03	(0.01)	0.03	(0.01)	0.00	(0.00)	0.06	(0.01)
Indoors, home	187.53	(61.36)	134.91	(55.78)	156.93	(56.87)	186.32	(59.66)	665.71	(58.62)
Indoors, office	6.65	(2.18)	6.12	(2.53)	5.34	(1.93)	7.30	(2.34)	25.41	(2.24)
Indoors, store	5.03	(1.65)	5.42	(2.24)	6.67	(2.42)	5.50	(1.76)	22.63	(1.99)
Indoors, restaurant	13.38	(4.38)	7.65	(3.16)	5.74	(2.08)	14.30	(4.58)	41.07	(3.62)
Indoors, mfg. facility	5.62	(1.84)	3.90	(1.61)	2.87	(1.04)	6.18	(1.98)	18.57	(1.64)
Indoors, school	16.33	(5.34)	10.36	(4.28)	6.19	(2.24)	18.14	(5.81)	51.02	(4.49)
Indoors, church	0.99	(0.32)	1.08	(0.45)	1.07	(0.39)	1.21	(0.39)	4.36	(0.38)
Indoors, shopping mall	4.19	(1.37)	1.93	(0.80)	0.96	(0.35)	4.50	(1.44)	11.58	(1.02)
Indoors, auditorium	0.03	(0.01)	0.12	(0.05)	0.14	(0.05)	0.05	(0.02)	0.34	(0.03)
Indoors, health care facility	4.29	(1.41)	2.06	(0.85)	2.37	(0.86)	4.21	(1.35)	12.93	(1.14)
Indoors, public building	0.79	(0.26)	0.31	(0.13)	0.23	(0.08)	0.83	(0.27)	2.15	(0.19)
Indoors, other location	4.45	(1.46)	7.13	(2.95)	6.45	(2.34)	4.71	(1.51)	22.74	(2.00)
Indoors, not specified	0.07	(0.02)	0.11	(0.05)	0.17	(0.06)	0.07	(0.02)	0.43	(0.04)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.88	(0.94)	4.23	(1.75)	7.30	(2.64)	2.95	(0.94)	17.35	(1.53)
Outdoors, school grounds	1.88	(0.61)	2.26	(0.93)	1.80	(0.65)	2.20	(0.70)	8.13	(0.72)
Outdoors, sports arena	0.00	(0.00)	0.37	(0.15)	0.73	(0.27)	0.00	(0.00)	1.11	(0.10)
Outdoors, park/golf course	0.06	(0.02)	0.55	(0.23)	2.05	(0.74)	0.10	(0.03)	2.77	(0.24)
Outdoors, other location	0.00	(0.00)	0.98	(0.41)	1.80	(0.65)	0.00	(0.00)	2.78	(0.24)
Outdoors, not specified	0.38	(0.13)	0.06	(0.02)	0.00	(0.00)	0.36	(0.12)	0.81	(0.07)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	32.36	(10.28)	26.21	(10.61)	30.31	(10.72)	33.32	(10.36)	122.20	(10.48)
In transit, bus	5.70	(1.81)	2.82	(1.14)	2.07	(0.73)	5.76	(1.79)	16.35	(1.40)
In transit, truck	0.81	(0.26)	1.90	(0.77)	1.68	(0.59)	0.99	(0.31)	5.37	(0.46)
In transit, van	2.91	(0.93)	2.42	(0.98)	2.58	(0.91)	3.16	(0.98)	11.07	(0.95)
Indoors, public garage	1.82	(0.58)	0.60	(0.24)	0.24	(0.09)	1.79	(0.56)	4.45	(0.38)
Outdoors, in a parking lot	2.43	(0.77)	2.00	(0.81)	2.36	(0.84)	2.56	(0.79)	9.35	(0.80)
Outdoors, along a roadway	14.47	(4.60)	19.46	(7.88)	26.36	(9.33)	15.94	(4.96)	76.24	(6.54)
In transit, motorcycle	0.00	(0.00)	0.01	(0.00)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
Indoors, service station	0.16	(0.05)	0.10	(0.04)	0.08	(0.03)	0.17	(0.05)	0.50	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.42	(0.13)	0.24	(0.10)	0.18	(0.06)	0.39	(0.12)	1.23	(0.11)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	186.91	(59.41)	131.75	(53.36)	151.48	(53.59)	185.77	(57.77)	655.91	(56.26)
Indoors, office	9.11	(2.89)	9.14	(3.70)	9.36	(3.31)	10.44	(3.25)	38.05	(3.26)
Indoors, store	7.14	(2.27)	5.63	(2.28)	6.20	(2.19)	7.53	(2.34)	26.50	(2.27)
Indoors, restaurant	5.94	(1.89)	4.45	(1.80)	4.90	(1.73)	6.16	(1.91)	21.44	(1.84)
Indoors, mfg. facility	4.26	(1.36)	3.94	(1.60)	4.11	(1.45)	4.71	(1.46)	17.02	(1.46)
Indoors, school	16.50	(5.24)	10.85	(4.39)	7.29	(2.58)	18.23	(5.67)	52.87	(4.53)
Indoors, church	2.64	(0.84)	1.40	(0.57)	1.23	(0.44)	2.64	(0.82)	7.92	(0.68)
Indoors, shopping mall	2.82	(0.90)	1.47	(0.60)	1.16	(0.41)	2.90	(0.90)	8.35	(0.72)
Indoors, auditorium	0.21	(0.07)	0.23	(0.09)	0.23	(0.08)	0.23	(0.07)	0.90	(0.08)
Indoors, health care facility	2.03	(0.65)	1.69	(0.68)	1.34	(0.48)	2.14	(0.67)	7.20	(0.62)
Indoors, public building	0.75	(0.24)	1.09	(0.44)	1.57	(0.55)	0.83	(0.26)	4.24	(0.36)
Indoors, other location	7.83	(2.49)	5.88	(2.38)	6.15	(2.18)	7.35	(2.28)	27.20	(2.33)
Indoors, not specified	0.24	(0.08)	0.14	(0.06)	0.26	(0.09)	0.23	(0.07)	0.86	(0.07)
Outdoors, construction	1.20	(0.38)	1.76	(0.71)	1.44	(0.51)	1.50	(0.47)	5.90	(0.51)
Outdoors, residential grounds	2.54	(0.81)	6.39	(2.59)	10.62	(3.76)	3.03	(0.94)	22.58	(1.94)
Outdoors, school grounds	2.02	(0.64)	1.93	(0.78)	1.50	(0.53)	2.20	(0.68)	7.65	(0.66)
Outdoors, sports arena	0.01	(0.00)	0.24	(0.10)	0.59	(0.21)	0.01	(0.00)	0.85	(0.07)
Outdoors, park/golf course	0.32	(0.10)	0.96	(0.39)	1.51	(0.54)	0.38	(0.12)	3.18	(0.27)
Outdoors, other location	1.12	(0.36)	2.14	(0.87)	5.68	(2.01)	1.21	(0.38)	10.15	(0.87)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.09	(0.03)	0.14	(0.05)	0.00	(0.00)	0.22	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	40.07	(12.60)	33.27	(13.25)	36.88	(12.93)	41.40	(12.70)	151.62	(12.85)
In transit, bus	3.91	(1.23)	3.73	(1.49)	2.25	(0.79)	4.69	(1.44)	14.58	(1.24)
In transit, truck	0.34	(0.11)	1.06	(0.42)	2.68	(0.94)	0.44	(0.14)	4.51	(0.38)
In transit, van	0.00	(0.00)	0.33	(0.13)	0.73	(0.25)	0.01	(0.00)	1.07	(0.09)
Indoors, public garage	0.09	(0.03)	0.06	(0.02)	0.08	(0.03)	0.10	(0.03)	0.33	(0.03)
Outdoors, in a parking lot	2.24	(0.71)	1.97	(0.78)	2.05	(0.72)	2.37	(0.73)	8.63	(0.73)
Outdoors, along a roadway	16.62	(5.22)	16.37	(6.52)	23.93	(8.39)	17.23	(5.29)	74.15	(6.28)
In transit, motorcycle	0.82	(0.26)	0.07	(0.03)	0.00	(0.00)	0.67	(0.20)	1.56	(0.13)
Indoors, service station	0.00	(0.00)	0.05	(0.02)	0.06	(0.02)	0.00	(0.00)	0.11	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.19	(0.08)	0.17	(0.06)	0.04	(0.01)	0.42	(0.04)
Indoors, in a repair shop	0.02	(0.00)	0.06	(0.02)	0.03	(0.01)	0.03	(0.01)	0.14	(0.01)
Indoors, home	178.75	(56.20)	124.62	(49.64)	142.48	(49.94)	176.60	(54.21)	622.46	(52.73)
Indoors, office	17.46	(5.49)	13.58	(5.41)	13.36	(4.68)	19.28	(5.92)	63.70	(5.40)
Indoors, store	7.80	(2.45)	6.00	(2.39)	6.22	(2.18)	8.14	(2.50)	28.15	(2.38)
Indoors, restaurant	6.75	(2.12)	6.44	(2.56)	7.46	(2.61)	7.00	(2.15)	27.64	(2.34)
Indoors, mfg. facility	5.35	(1.68)	4.06	(1.62)	3.59	(1.26)	5.70	(1.75)	18.69	(1.58)
Indoors, school	18.14	(5.70)	13.64	(5.43)	7.14	(2.50)	21.14	(6.49)	60.05	(5.09)
Indoors, church	0.70	(0.22)	0.88	(0.35)	0.90	(0.32)	0.81	(0.25)	3.29	(0.28)
Indoors, shopping mall	1.56	(0.49)	3.43	(1.37)	3.45	(1.21)	1.95	(0.60)	10.39	(0.88)
Indoors, auditorium	0.18	(0.06)	0.29	(0.12)	0.50	(0.18)	0.16	(0.05)	1.13	(0.10)
Indoors, health care facility	2.26	(0.71)	1.69	(0.67)	1.93	(0.68)	2.37	(0.73)	8.25	(0.70)
Indoors, public building	0.53	(0.17)	0.67	(0.27)	0.69	(0.24)	0.53	(0.16)	2.43	(0.21)
Indoors, other location	7.79	(2.45)	5.35	(2.13)	5.27	(1.85)	7.82	(2.40)	26.23	(2.22)
Indoors, not specified	0.14	(0.04)	0.11	(0.04)	0.07	(0.02)	0.15	(0.05)	0.47	(0.04)
Outdoors, construction	0.00	(0.00)	0.20	(0.08)	0.24	(0.08)	0.00	(0.00)	0.44	(0.04)
Outdoors, residential grounds	4.09	(1.29)	5.76	(2.29)	12.83	(4.50)	4.27	(1.31)	26.94	(2.28)
Outdoors, school grounds	1.87	(0.59)	1.99	(0.79)	1.30	(0.46)	2.22	(0.68)	7.37	(0.62)
Outdoors, sports arena	0.06	(0.02)	0.72	(0.29)	0.97	(0.34)	0.11	(0.03)	1.86	(0.16)
Outdoors, park/golf course	0.34	(0.11)	1.19	(0.48)	2.55	(0.90)	0.46	(0.14)	4.54	(0.38)
Outdoors, other location	0.15	(0.05)	3.30	(1.32)	5.48	(1.92)	0.18	(0.06)	9.11	(0.77)
Outdoors, not specified	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.79	(6.37)	25.51	(9.56)	32.89	(10.89)	21.71	(6.16)	101.91	(8.07)
In transit, bus	2.69	(0.79)	0.37	(0.14)	0.51	(0.17)	2.70	(0.77)	6.28	(0.50)
In transit, truck	13.19	(3.86)	4.74	(1.78)	2.43	(0.80)	13.65	(3.87)	34.02	(2.69)
In transit, van	0.77	(0.23)	2.75	(1.03)	2.15	(0.71)	1.30	(0.37)	6.96	(0.55)
Indoors, public garage	0.00	(0.00)	0.12	(0.05)	0.16	(0.05)	0.00	(0.00)	0.28	(0.02)
Outdoors, in a parking lot	1.07	(0.31)	1.68	(0.63)	3.06	(1.01)	1.01	(0.29)	6.82	(0.54)
Outdoors, along a roadway	22.65	(6.62)	17.42	(6.53)	23.91	(7.91)	22.57	(6.40)	86.55	(6.85)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	5.95	(1.74)	0.79	(0.30)	0.00	(0.00)	6.22	(1.76)	12.95	(1.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	192.26	(56.25)	140.55	(52.68)	155.38	(51.43)	192.73	(54.67)	680.92	(53.89)
Indoors, office	12.35	(3.61)	12.89	(4.83)	13.82	(4.57)	13.62	(3.86)	52.67	(4.17)
Indoors, store	0.08	(0.02)	2.21	(0.83)	3.37	(1.12)	0.14	(0.04)	5.80	(0.46)
Indoors, restaurant	11.74	(3.43)	10.65	(3.99)	12.79	(4.23)	11.73	(3.33)	46.91	(3.71)
Indoors, mfg. facility	0.00	(0.00)	0.26	(0.10)	0.33	(0.11)	0.00	(0.00)	0.59	(0.05)
Indoors, school	39.98	(11.70)	17.39	(6.52)	13.95	(4.62)	43.74	(12.41)	115.06	(9.11)
Indoors, church	0.83	(0.24)	0.83	(0.31)	0.81	(0.27)	0.93	(0.26)	3.39	(0.27)
Indoors, shopping mall	0.14	(0.04)	0.55	(0.21)	0.31	(0.10)	0.26	(0.07)	1.26	(0.10)
Indoors, auditorium	0.41	(0.12)	0.82	(0.31)	0.70	(0.23)	0.54	(0.15)	2.49	(0.20)
Indoors, health care facility	2.27	(0.66)	1.55	(0.58)	0.89	(0.30)	2.39	(0.68)	7.11	(0.56)
Indoors, public building	0.00	(0.00)	0.20	(0.08)	1.39	(0.46)	0.00	(0.00)	1.60	(0.13)
Indoors, other location	1.03	(0.30)	5.26	(1.97)	6.89	(2.28)	1.67	(0.47)	14.85	(1.18)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.89	(0.34)	1.09	(0.36)	0.00	(0.00)	1.98	(0.16)
Outdoors, residential grounds	10.37	(3.03)	11.23	(4.21)	12.67	(4.19)	12.37	(3.51)	46.65	(3.69)
Outdoors, school grounds	1.09	(0.32)	3.35	(1.25)	2.56	(0.85)	1.82	(0.52)	8.82	(0.70)
Outdoors, sports arena	0.00	(0.00)	0.04	(0.02)	0.51	(0.17)	0.00	(0.00)	0.55	(0.04)
Outdoors, park/golf course	1.20	(0.35)	3.38	(1.27)	5.31	(1.76)	1.44	(0.41)	11.33	(0.90)
Outdoors, other location	0.00	(0.00)	1.37	(0.51)	4.27	(1.41)	0.00	(0.00)	5.64	(0.45)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.54	(6.92)	18.27	(7.46)	23.04	(8.18)	21.94	(6.89)	84.80	(7.33)
In transit, bus	7.14	(2.29)	5.35	(2.18)	3.35	(1.19)	8.01	(2.51)	23.85	(2.06)
In transit, truck	0.99	(0.32)	0.45	(0.18)	0.71	(0.25)	0.97	(0.30)	3.11	(0.27)
In transit, van	1.56	(0.50)	1.54	(0.63)	1.55	(0.55)	1.70	(0.53)	6.34	(0.55)
Indoors, public garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.03	(0.00)
Outdoors, in a parking lot	1.37	(0.44)	1.29	(0.53)	1.67	(0.59)	1.45	(0.46)	5.78	(0.50)
Outdoors, along a roadway	23.22	(7.45)	25.16	(10.27)	36.20	(12.85)	23.97	(7.52)	108.54	(9.38)
In transit, motorcycle	0.52	(0.17)	0.10	(0.04)	0.10	(0.04)	0.45	(0.14)	1.17	(0.10)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.08	(0.03)	0.27	(0.11)	0.24	(0.09)	0.12	(0.04)	0.72	(0.06)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	187.48	(60.19)	134.26	(54.82)	155.40	(55.17)	185.50	(58.24)	662.63	(57.29)
Indoors, office	0.25	(0.08)	0.50	(0.21)	0.87	(0.31)	0.25	(0.08)	1.87	(0.16)
Indoors, store	4.01	(1.29)	3.13	(1.28)	3.44	(1.22)	4.04	(1.27)	14.62	(1.26)
Indoors, restaurant	2.81	(0.90)	3.29	(1.34)	4.15	(1.47)	2.93	(0.92)	13.18	(1.14)
Indoors, mfg. facility	0.01	(0.00)	0.04	(0.02)	0.02	(0.01)	0.02	(0.01)	0.10	(0.01)
Indoors, school	41.93	(13.46)	27.05	(11.04)	16.97	(6.03)	47.01	(14.76)	132.96	(11.50)
Indoors, church	1.28	(0.41)	0.89	(0.36)	0.92	(0.33)	1.38	(0.43)	4.47	(0.39)
Indoors, shopping mall	1.86	(0.60)	1.95	(0.80)	1.59	(0.56)	2.08	(0.65)	7.48	(0.65)
Indoors, auditorium	0.18	(0.06)	0.24	(0.10)	0.28	(0.10)	0.19	(0.06)	0.89	(0.08)
Indoors, health care facility	1.39	(0.45)	1.06	(0.43)	1.09	(0.39)	1.52	(0.48)	5.06	(0.44)
Indoors, public building	0.26	(0.08)	0.36	(0.15)	0.61	(0.22)	0.30	(0.09)	1.53	(0.13)
Indoors, other location	1.74	(0.56)	1.46	(0.60)	2.57	(0.91)	1.81	(0.57)	7.58	(0.66)
Indoors, not specified	0.00	(0.00)	0.08	(0.03)	0.14	(0.05)	0.00	(0.00)	0.23	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	6.06	(1.94)	8.65	(3.53)	13.68	(4.86)	6.46	(2.03)	34.84	(3.01)
Outdoors, school grounds	5.13	(1.65)	5.04	(2.06)	3.69	(1.31)	5.69	(1.79)	19.56	(1.69)
Outdoors, sports arena	0.29	(0.09)	0.57	(0.23)	0.94	(0.33)	0.34	(0.11)	2.14	(0.19)
Outdoors, park/golf course	0.29	(0.09)	1.61	(0.66)	2.75	(0.98)	0.34	(0.11)	4.99	(0.43)
Outdoors, other location	0.02	(0.01)	2.21	(0.90)	5.67	(2.01)	0.03	(0.01)	7.92	(0.68)
Outdoors, not specified	0.04	(0.01)	0.07	(0.03)	0.05	(0.02)	0.05	(0.02)	0.21	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	60.25	(18.27)	32.20	(12.88)	38.62	(13.45)	59.14	(17.62)	190.21	(15.82)
In transit, bus	1.96	(0.60)	0.26	(0.11)	0.00	(0.00)	2.03	(0.60)	4.25	(0.35)
In transit, truck	2.21	(0.67)	5.06	(2.02)	10.95	(3.81)	2.71	(0.81)	20.92	(1.74)
In transit, van	0.00	(0.00)	0.58	(0.23)	2.05	(0.72)	0.00	(0.00)	2.63	(0.22)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	1.36	(0.41)	2.13	(0.85)	2.40	(0.83)	1.67	(0.50)	7.56	(0.63)
Outdoors, along a roadway	26.36	(7.99)	27.78	(11.11)	23.34	(8.13)	28.96	(8.63)	106.44	(8.85)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.00)	0.07	(0.03)	0.07	(0.02)	0.02	(0.01)	0.17	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	181.13	(54.92)	126.49	(50.58)	134.40	(46.83)	180.81	(53.87)	622.83	(51.78)
Indoors, office	7.76	(2.35)	13.49	(5.40)	12.48	(4.35)	8.78	(2.62)	42.51	(3.53)
Indoors, store	1.22	(0.37)	1.62	(0.65)	1.47	(0.51)	1.39	(0.41)	5.69	(0.47)
Indoors, restaurant	6.49	(1.97)	3.71	(1.48)	2.81	(0.98)	5.86	(1.74)	18.86	(1.57)
Indoors, mfg. facility	0.00	(0.00)	2.89	(1.16)	11.10	(3.87)	0.00	(0.00)	13.99	(1.16)
Indoors, school	20.23	(6.13)	10.25	(4.10)	4.90	(1.71)	22.07	(6.58)	57.47	(4.78)
Indoors, church	0.08	(0.02)	0.73	(0.29)	1.06	(0.37)	0.11	(0.03)	1.98	(0.16)
Indoors, shopping mall	0.32	(0.10)	0.77	(0.31)	0.52	(0.18)	0.50	(0.15)	2.10	(0.17)
Indoors, auditorium	0.12	(0.04)	0.58	(0.23)	1.93	(0.67)	0.10	(0.03)	2.73	(0.23)
Indoors, health care facility	0.77	(0.23)	0.61	(0.24)	0.45	(0.16)	0.72	(0.21)	2.55	(0.21)
Indoors, public building	2.73	(0.83)	2.13	(0.85)	1.37	(0.48)	2.92	(0.87)	9.15	(0.76)
Indoors, other location	11.90	(3.61)	6.72	(2.69)	6.04	(2.11)	12.22	(3.64)	36.88	(3.07)
Indoors, not specified	0.01	(0.00)	0.03	(0.01)	0.02	(0.01)	0.01	(0.00)	0.06	(0.01)
Outdoors, construction	0.00	(0.00)	1.88	(0.75)	2.34	(0.81)	0.00	(0.00)	4.22	(0.35)
Outdoors, residential grounds	1.13	(0.34)	3.37	(1.35)	4.70	(1.64)	1.38	(0.41)	10.58	(0.88)
Outdoors, school grounds	0.83	(0.25)	2.86	(1.14)	1.61	(0.56)	1.54	(0.46)	6.83	(0.57)
Outdoors, sports arena	0.85	(0.26)	0.44	(0.17)	2.42	(0.84)	0.85	(0.25)	4.56	(0.38)
Outdoors, park/golf course	0.32	(0.10)	0.86	(0.35)	1.00	(0.35)	0.35	(0.10)	2.53	(0.21)
Outdoors, other location	0.59	(0.18)	2.42	(0.97)	19.02	(6.63)	0.55	(0.16)	22.57	(1.88)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	1.22	(0.37)	0.11	(0.04)	0.00	(0.00)	0.98	(0.29)	2.31	(0.19)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	48.64	(14.43)	38.38	(14.49)	40.54	(13.56)	50.64	(14.63)	178.19	(14.29)
In transit, bus	0.99	(0.29)	1.07	(0.40)	1.33	(0.45)	0.94	(0.27)	4.33	(0.35)
In transit, truck	8.81	(2.61)	7.44	(2.81)	7.59	(2.54)	9.06	(2.62)	32.91	(2.64)
In transit, van	2.09	(0.62)	1.86	(0.70)	2.93	(0.98)	2.37	(0.69)	9.25	(0.74)
Indoors, public garage	2.91	(0.86)	2.17	(0.82)	1.56	(0.52)	3.23	(0.93)	9.86	(0.79)
Outdoors, in a parking lot	2.37	(0.70)	2.80	(1.06)	3.17	(1.06)	2.70	(0.78)	11.04	(0.89)
Outdoors, along a roadway	13.44	(3.99)	17.67	(6.67)	21.35	(7.14)	15.18	(4.39)	67.64	(5.42)
In transit, motorcycle	0.00	(0.00)	0.22	(0.08)	0.29	(0.10)	0.00	(0.00)	0.51	(0.04)
Indoors, service station	4.93	(1.46)	2.51	(0.95)	1.48	(0.50)	5.28	(1.52)	14.20	(1.14)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.05	(0.31)	1.05	(0.40)	0.81	(0.27)	1.12	(0.32)	4.02	(0.32)
Indoors, in a repair shop	4.64	(1.38)	0.67	(0.25)	0.03	(0.01)	4.75	(1.37)	10.10	(0.81)
Indoors, home	160.93	(47.74)	114.02	(43.07)	130.10	(43.51)	158.15	(45.68)	563.20	(45.16)
Indoors, office	32.63	(9.68)	22.05	(8.33)	23.58	(7.89)	35.58	(10.28)	113.84	(9.13)
Indoors, store	6.74	(2.00)	5.93	(2.24)	7.62	(2.55)	7.02	(2.03)	27.31	(2.19)
Indoors, restaurant	10.47	(3.11)	7.15	(2.70)	6.28	(2.10)	10.77	(3.11)	34.67	(2.78)
Indoors, mfg. facility	5.50	(1.63)	7.45	(2.82)	9.15	(3.06)	6.19	(1.79)	28.30	(2.27)
Indoors, school	3.31	(0.98)	2.08	(0.78)	1.67	(0.56)	3.62	(1.05)	10.68	(0.86)
Indoors, church	0.87	(0.26)	0.86	(0.33)	0.81	(0.27)	1.01	(0.29)	3.55	(0.28)
Indoors, shopping mall	1.19	(0.35)	0.78	(0.30)	0.57	(0.19)	1.26	(0.37)	3.81	(0.31)
Indoors, auditorium	0.51	(0.15)	0.08	(0.03)	0.15	(0.05)	0.44	(0.13)	1.18	(0.09)
Indoors, health care facility	1.70	(0.50)	1.75	(0.66)	2.01	(0.67)	1.89	(0.55)	7.36	(0.59)
Indoors, public building	0.97	(0.29)	1.02	(0.39)	2.25	(0.75)	0.97	(0.28)	5.21	(0.42)
Indoors, other location	13.79	(4.09)	11.66	(4.40)	12.60	(4.21)	14.02	(4.05)	52.07	(4.18)
Indoors, not specified	1.61	(0.48)	0.48	(0.18)	0.16	(0.05)	1.66	(0.48)	3.91	(0.31)
Outdoors, construction	1.59	(0.47)	3.28	(1.24)	2.69	(0.90)	2.11	(0.61)	9.67	(0.78)
Outdoors, residential grounds	1.19	(0.35)	2.78	(1.05)	7.84	(2.62)	1.38	(0.40)	13.18	(1.06)
Outdoors, school grounds	0.17	(0.05)	0.27	(0.10)	0.23	(0.08)	0.22	(0.06)	0.88	(0.07)
Outdoors, sports arena	0.14	(0.04)	0.49	(0.19)	0.70	(0.24)	0.15	(0.04)	1.49	(0.12)
Outdoors, park/golf course	0.20	(0.06)	0.87	(0.33)	1.51	(0.51)	0.29	(0.08)	2.88	(0.23)
Outdoors, other location	3.01	(0.89)	5.46	(2.06)	7.49	(2.50)	3.49	(1.01)	19.46	(1.56)
Outdoors, not specified	0.02	(0.01)	0.18	(0.07)	0.16	(0.06)	0.03	(0.01)	0.40	(0.03)
In transit, train	0.72	(0.21)	0.27	(0.10)	0.31	(0.10)	0.68	(0.20)	1.98	(0.16)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	35.05	(11.48)	27.93	(11.80)	31.78	(11.75)	36.75	(11.80)	131.52	(11.70)
In transit, bus	2.68	(0.88)	0.87	(0.37)	0.80	(0.30)	2.68	(0.86)	7.03	(0.63)
In transit, truck	4.39	(1.44)	0.59	(0.25)	0.00	(0.00)	4.32	(1.39)	9.30	(0.83)
In transit, van	0.02	(0.01)	0.11	(0.05)	0.37	(0.14)	0.03	(0.01)	0.53	(0.05)
Indoors, public garage	0.10	(0.03)	0.07	(0.03)	0.04	(0.01)	0.11	(0.03)	0.31	(0.03)
Outdoors, in a parking lot	0.98	(0.32)	1.54	(0.65)	2.22	(0.82)	1.12	(0.36)	5.86	(0.52)
Outdoors, along a roadway	10.19	(3.34)	13.26	(5.60)	18.73	(6.92)	11.16	(3.58)	53.34	(4.74)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.03	(0.01)	0.05	(0.02)	0.00	(0.00)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.38	(0.12)	0.07	(0.03)	0.01	(0.01)	0.38	(0.12)	0.85	(0.08)
Indoors, in a repair shop	0.03	(0.01)	0.10	(0.04)	0.06	(0.02)	0.05	(0.02)	0.24	(0.02)
Indoors, home	218.62	(71.58)	155.51	(65.67)	173.30	(64.07)	219.55	(70.47)	766.98	(68.22)
Indoors, office	1.92	(0.63)	0.89	(0.38)	0.79	(0.29)	1.93	(0.62)	5.54	(0.49)
Indoors, store	5.38	(1.76)	6.50	(2.75)	8.99	(3.32)	5.89	(1.89)	26.76	(2.38)
Indoors, restaurant	6.17	(2.02)	5.06	(2.14)	5.01	(1.85)	6.20	(1.99)	22.45	(2.00)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	3.29	(1.08)	5.19	(2.19)	4.11	(1.52)	4.21	(1.35)	16.80	(1.49)
Indoors, church	0.75	(0.25)	0.82	(0.35)	0.84	(0.31)	0.93	(0.30)	3.35	(0.30)
Indoors, shopping mall	3.23	(1.06)	1.79	(0.76)	1.78	(0.66)	3.29	(1.06)	10.08	(0.90)
Indoors, auditorium	0.46	(0.15)	0.41	(0.17)	0.51	(0.19)	0.53	(0.17)	1.90	(0.17)
Indoors, health care facility	0.55	(0.18)	0.81	(0.34)	0.84	(0.31)	0.67	(0.22)	2.87	(0.26)
Indoors, public building	1.02	(0.33)	0.40	(0.17)	0.44	(0.16)	1.02	(0.33)	2.88	(0.26)
Indoors, other location	8.22	(2.69)	7.24	(3.06)	6.51	(2.41)	8.06	(2.59)	30.03	(2.67)
Indoors, not specified	0.00	(0.00)	0.03	(0.01)	0.18	(0.07)	0.00	(0.00)	0.21	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.83	(0.27)	4.20	(1.78)	5.76	(2.13)	1.31	(0.42)	12.10	(1.08)
Outdoors, school grounds	0.16	(0.05)	0.69	(0.29)	0.85	(0.31)	0.27	(0.09)	1.97	(0.17)
Outdoors, sports arena	0.57	(0.19)	0.24	(0.10)	0.55	(0.20)	0.55	(0.18)	1.90	(0.17)
Outdoors, park/golf course	0.06	(0.02)	1.00	(0.42)	2.48	(0.92)	0.10	(0.03)	3.63	(0.32)
Outdoors, other location	0.19	(0.06)	1.39	(0.59)	3.48	(1.29)	0.24	(0.08)	5.30	(0.47)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.20	(0.07)	0.02	(0.01)	0.00	(0.00)	0.18	(0.06)	0.41	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	49.44	(15.34)	33.40	(13.60)	36.10	(12.81)	50.76	(15.43)	169.71	(14.40)
In transit, bus	2.95	(0.92)	2.22	(0.90)	2.05	(0.73)	3.18	(0.97)	10.40	(0.88)
In transit, truck	2.16	(0.67)	1.61	(0.66)	1.91	(0.68)	2.25	(0.68)	7.94	(0.67)
In transit, van	0.04	(0.01)	0.60	(0.25)	0.68	(0.24)	0.04	(0.01)	1.36	(0.12)
Indoors, public garage	0.84	(0.26)	0.37	(0.15)	0.23	(0.08)	0.88	(0.27)	2.32	(0.20)
Outdoors, in a parking lot	1.18	(0.37)	1.64	(0.67)	2.36	(0.84)	1.30	(0.39)	6.48	(0.55)
Outdoors, along a roadway	10.68	(3.31)	11.76	(4.79)	15.97	(5.66)	11.38	(3.46)	49.78	(4.22)
In transit, motorcycle	0.00	(0.00)	1.44	(0.59)	2.93	(1.04)	0.00	(0.00)	4.37	(0.37)
Indoors, service station	0.02	(0.01)	0.04	(0.02)	0.03	(0.01)	0.03	(0.01)	0.13	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.01	(0.01)	0.01	(0.00)	0.03	(0.01)	0.07	(0.01)
Indoors, in a repair shop	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.00)
Indoors, home	165.48	(51.36)	120.45	(49.04)	142.83	(50.66)	163.26	(49.62)	592.01	(50.22)
Indoors, office	33.76	(10.48)	28.19	(11.48)	26.34	(9.34)	37.49	(11.40)	125.78	(10.67)
Indoors, store	10.01	(3.11)	9.34	(3.80)	8.85	(3.14)	10.90	(3.31)	39.11	(3.32)
Indoors, restaurant	12.93	(4.01)	8.51	(3.46)	9.41	(3.34)	12.95	(3.94)	43.80	(3.72)
Indoors, mfg. facility	2.16	(0.67)	2.27	(0.92)	1.57	(0.56)	2.50	(0.76)	8.49	(0.72)
Indoors, school	8.08	(2.51)	5.53	(2.25)	3.36	(1.19)	9.06	(2.75)	26.03	(2.21)
Indoors, church	1.31	(0.41)	1.08	(0.44)	1.07	(0.38)	1.40	(0.43)	4.87	(0.41)
Indoors, shopping mall	3.03	(0.94)	1.73	(0.71)	1.09	(0.38)	3.32	(1.01)	9.17	(0.78)
Indoors, auditorium	0.20	(0.06)	0.18	(0.07)	0.29	(0.10)	0.21	(0.06)	0.89	(0.08)
Indoors, health care facility	3.97	(1.23)	2.66	(1.08)	2.58	(0.91)	4.06	(1.23)	13.27	(1.13)
Indoors, public building	0.74	(0.23)	0.59	(0.24)	0.84	(0.30)	0.83	(0.25)	3.00	(0.25)
Indoors, other location	12.09	(3.75)	7.58	(3.08)	7.62	(2.70)	11.78	(3.58)	39.06	(3.31)
Indoors, not specified	0.12	(0.04)	0.09	(0.04)	0.04	(0.02)	0.14	(0.04)	0.41	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.45	(0.14)	1.99	(0.81)	6.35	(2.25)	0.57	(0.17)	9.36	(0.79)
Outdoors, school grounds	0.13	(0.04)	0.57	(0.23)	0.69	(0.25)	0.16	(0.05)	1.55	(0.13)
Outdoors, sports arena	0.01	(0.00)	0.51	(0.21)	0.89	(0.31)	0.01	(0.00)	1.42	(0.12)
Outdoors, park/golf course	0.08	(0.02)	0.30	(0.12)	1.21	(0.43)	0.10	(0.03)	1.68	(0.14)
Outdoors, other location	0.19	(0.06)	0.79	(0.32)	4.54	(1.61)	0.19	(0.06)	5.71	(0.48)
Outdoors, not specified	0.00	(0.00)	0.02	(0.01)	0.01	(0.00)	0.00	(0.00)	0.03	(0.00)
In transit, train	0.11	(0.03)	0.16	(0.06)	0.09	(0.03)	0.14	(0.04)	0.50	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	30.12	(10.16)	30.52	(12.47)	31.75	(11.25)	33.31	(10.94)	125.70	(11.15)
In transit, bus	2.18	(0.74)	8.49	(3.47)	10.48	(3.71)	2.25	(0.74)	23.39	(2.07)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.14	(0.05)	0.52	(0.21)	0.39	(0.14)	0.26	(0.08)	1.30	(0.12)
Indoors, public garage	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.00)
Outdoors, in a parking lot	1.79	(0.60)	6.95	(2.84)	6.28	(2.23)	2.08	(0.68)	17.09	(1.52)
Outdoors, along a roadway	8.29	(2.80)	12.14	(4.96)	12.24	(4.34)	9.27	(3.04)	41.94	(3.72)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.21	(0.41)	2.43	(0.99)	1.51	(0.53)	1.71	(0.56)	6.86	(0.61)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	224.07	(75.60)	145.15	(59.33)	152.55	(54.06)	222.69	(73.13)	744.46	(66.01)
Indoors, office	1.35	(0.45)	0.40	(0.16)	0.50	(0.18)	1.41	(0.46)	3.65	(0.32)
Indoors, store	3.95	(1.33)	4.29	(1.75)	6.17	(2.19)	4.48	(1.47)	18.89	(1.68)
Indoors, restaurant	3.98	(1.34)	0.89	(0.36)	1.66	(0.59)	4.12	(1.35)	10.65	(0.94)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.13	(0.38)	3.69	(1.51)	2.66	(0.94)	1.89	(0.62)	9.37	(0.83)
Indoors, church	0.70	(0.24)	1.04	(0.42)	0.62	(0.22)	0.94	(0.31)	3.30	(0.29)
Indoors, shopping mall	5.69	(1.92)	0.88	(0.36)	0.00	(0.00)	6.21	(2.04)	12.78	(1.13)
Indoors, auditorium	0.25	(0.08)	0.28	(0.11)	0.32	(0.11)	0.25	(0.08)	1.10	(0.10)
Indoors, health care facility	2.30	(0.78)	3.35	(1.37)	1.90	(0.68)	3.13	(1.03)	10.69	(0.95)
Indoors, public building	0.26	(0.09)	0.13	(0.06)	1.00	(0.35)	0.26	(0.09)	1.66	(0.15)
Indoors, other location	5.85	(1.97)	11.46	(4.69)	12.56	(4.45)	6.76	(2.22)	36.63	(3.25)
Indoors, not specified	0.92	(0.31)	0.11	(0.04)	0.00	(0.00)	0.89	(0.29)	1.92	(0.17)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.49	(0.50)	6.77	(2.77)	29.88	(10.59)	1.99	(0.65)	40.13	(3.56)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.68	(0.28)	1.20	(0.43)	0.00	(0.00)	1.88	(0.17)
Outdoors, park/golf course	0.68	(0.23)	0.22	(0.09)	1.61	(0.57)	0.62	(0.20)	3.13	(0.28)
Outdoors, other location	0.00	(0.00)	4.29	(1.75)	6.89	(2.44)	0.00	(0.00)	11.18	(0.99)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	54.83	(16.09)	41.86	(15.97)	43.79	(14.82)	57.15	(16.39)	197.63	(15.85)
In transit, bus	8.28	(2.43)	2.70	(1.03)	1.48	(0.50)	8.03	(2.30)	20.48	(1.64)
In transit, truck	7.65	(2.24)	8.36	(3.19)	6.52	(2.21)	9.00	(2.58)	31.53	(2.53)
In transit, van	0.74	(0.22)	3.29	(1.26)	3.73	(1.26)	0.94	(0.27)	8.70	(0.70)
Indoors, public garage	0.45	(0.13)	0.78	(0.30)	0.49	(0.16)	0.63	(0.18)	2.35	(0.19)
Outdoors, in a parking lot	1.95	(0.57)	1.76	(0.67)	1.96	(0.66)	2.15	(0.62)	7.82	(0.63)
Outdoors, along a roadway	13.65	(4.01)	14.93	(5.70)	20.23	(6.85)	14.70	(4.22)	63.51	(5.09)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	2.37	(0.70)	0.71	(0.27)	0.31	(0.10)	2.45	(0.70)	5.84	(0.47)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.05	(0.01)	0.08	(0.03)	0.07	(0.02)	0.05	(0.01)	0.25	(0.02)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	150.80	(44.26)	106.71	(40.72)	123.59	(41.84)	148.06	(42.46)	529.15	(42.44)
Indoors, office	42.15	(12.37)	28.31	(10.80)	35.05	(11.86)	45.33	(13.00)	150.84	(12.10)
Indoors, store	10.26	(3.01)	6.51	(2.48)	4.56	(1.54)	10.99	(3.15)	32.32	(2.59)
Indoors, restaurant	9.23	(2.71)	7.43	(2.83)	8.14	(2.76)	9.46	(2.71)	34.26	(2.75)
Indoors, mfg. facility	3.51	(1.03)	9.37	(3.58)	13.09	(4.43)	4.55	(1.31)	30.53	(2.45)
Indoors, school	0.90	(0.27)	4.08	(1.56)	3.86	(1.31)	1.42	(0.41)	10.26	(0.82)
Indoors, church	1.67	(0.49)	1.39	(0.53)	1.29	(0.44)	1.72	(0.49)	6.07	(0.49)
Indoors, shopping mall	3.46	(1.02)	0.89	(0.34)	0.54	(0.18)	2.92	(0.84)	7.82	(0.63)
Indoors, auditorium	0.26	(0.08)	0.09	(0.03)	0.07	(0.02)	0.22	(0.06)	0.65	(0.05)
Indoors, health care facility	2.62	(0.77)	0.51	(0.19)	0.19	(0.06)	2.43	(0.70)	5.75	(0.46)
Indoors, public building	0.54	(0.16)	2.28	(0.87)	2.88	(0.97)	0.56	(0.16)	6.25	(0.50)
Indoors, other location	18.92	(5.55)	11.26	(4.30)	7.68	(2.60)	19.31	(5.54)	57.17	(4.58)
Indoors, not specified	2.35	(0.69)	0.48	(0.18)	0.13	(0.05)	2.36	(0.68)	5.32	(0.43)
Outdoors, construction	0.00	(0.00)	0.54	(0.21)	1.88	(0.63)	0.00	(0.00)	2.42	(0.19)
Outdoors, residential grounds	0.42	(0.12)	4.45	(1.70)	9.73	(3.29)	0.50	(0.14)	15.11	(1.21)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.46	(0.13)	1.16	(0.44)	1.67	(0.56)	0.58	(0.17)	3.86	(0.31)
Outdoors, other location	2.84	(0.83)	2.09	(0.80)	2.52	(0.85)	2.96	(0.85)	10.41	(0.84)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.31	(0.09)	0.04	(0.01)	0.00	(0.00)	0.30	(0.08)	0.64	(0.05)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	32.15	(10.71)	23.42	(10.29)	24.54	(9.39)	33.01	(10.79)	113.13	(10.33)
In transit, bus	1.16	(0.39)	0.78	(0.34)	0.58	(0.22)	1.24	(0.40)	3.76	(0.34)
In transit, truck	2.92	(0.97)	0.40	(0.18)	0.00	(0.00)	2.88	(0.94)	6.20	(0.57)
In transit, van	0.32	(0.11)	0.83	(0.37)	0.66	(0.25)	0.47	(0.15)	2.28	(0.21)
Indoors, public garage	0.17	(0.06)	0.04	(0.02)	0.01	(0.00)	0.18	(0.06)	0.40	(0.04)
Outdoors, in a parking lot	0.75	(0.25)	1.40	(0.61)	2.25	(0.86)	0.80	(0.26)	5.20	(0.47)
Outdoors, along a roadway	12.45	(4.15)	9.42	(4.14)	13.02	(4.99)	12.89	(4.21)	47.78	(4.36)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.05	(0.02)	0.03	(0.01)	0.03	(0.01)	0.05	(0.02)	0.16	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	224.50	(74.75)	163.64	(71.92)	181.59	(69.51)	227.05	(74.20)	796.78	(72.77)
Indoors, office	1.04	(0.35)	0.85	(0.37)	0.71	(0.27)	1.19	(0.39)	3.79	(0.35)
Indoors, store	4.87	(1.62)	4.43	(1.95)	4.06	(1.56)	5.37	(1.75)	18.73	(1.71)
Indoors, restaurant	4.44	(1.48)	4.13	(1.81)	6.57	(2.51)	4.39	(1.44)	19.53	(1.78)
Indoors, mfg. facility	0.00	(0.00)	0.07	(0.03)	0.08	(0.03)	0.00	(0.00)	0.14	(0.01)
Indoors, school	0.77	(0.26)	0.68	(0.30)	0.69	(0.26)	0.76	(0.25)	2.90	(0.26)
Indoors, church	1.29	(0.43)	1.61	(0.71)	1.43	(0.55)	1.52	(0.50)	5.85	(0.53)
Indoors, shopping mall	3.30	(1.10)	1.71	(0.75)	2.89	(1.11)	3.49	(1.14)	11.39	(1.04)
Indoors, auditorium	0.13	(0.04)	0.05	(0.02)	0.04	(0.01)	0.11	(0.04)	0.33	(0.03)
Indoors, health care facility	1.07	(0.35)	1.74	(0.76)	2.06	(0.79)	1.16	(0.38)	6.02	(0.55)
Indoors, public building	0.18	(0.06)	0.54	(0.24)	0.55	(0.21)	0.27	(0.09)	1.54	(0.14)
Indoors, other location	5.42	(1.80)	5.61	(2.46)	6.07	(2.32)	5.56	(1.82)	22.66	(2.07)
Indoors, not specified	0.98	(0.33)	0.11	(0.05)	0.00	(0.00)	0.91	(0.30)	2.00	(0.18)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.86	(0.62)	4.25	(1.87)	9.42	(3.60)	2.17	(0.71)	17.70	(1.62)
Outdoors, school grounds	0.14	(0.05)	0.02	(0.01)	0.00	(0.00)	0.14	(0.04)	0.30	(0.03)
Outdoors, sports arena	0.00	(0.00)	0.41	(0.18)	0.56	(0.22)	0.00	(0.00)	0.97	(0.09)
Outdoors, park/golf course	0.00	(0.00)	0.96	(0.42)	1.87	(0.72)	0.00	(0.00)	2.83	(0.26)
Outdoors, other location	0.03	(0.01)	0.39	(0.17)	1.57	(0.60)	0.05	(0.02)	2.03	(0.19)
Outdoors, not specified	0.34	(0.11)	0.05	(0.02)	0.00	(0.00)	0.33	(0.11)	0.71	(0.07)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	42.58	(13.53)	31.09	(12.78)	33.57	(12.17)	43.98	(13.65)	151.22	(13.08)
In transit, bus	4.49	(1.43)	2.01	(0.83)	1.89	(0.69)	4.52	(1.40)	12.91	(1.12)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	1.03	(0.33)	0.34	(0.14)	0.13	(0.05)	1.12	(0.35)	2.62	(0.23)
Indoors, public garage	0.15	(0.05)	0.07	(0.03)	0.03	(0.01)	0.15	(0.05)	0.40	(0.03)
Outdoors, in a parking lot	1.77	(0.56)	1.69	(0.70)	3.33	(1.21)	1.88	(0.58)	8.67	(0.75)
Outdoors, along a roadway	11.77	(3.74)	9.38	(3.85)	13.19	(4.78)	12.25	(3.80)	46.58	(4.03)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.00)	0.03	(0.01)	0.02	(0.01)	0.01	(0.00)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	175.64	(55.81)	122.51	(50.35)	146.08	(52.97)	172.97	(53.69)	617.19	(53.38)
Indoors, office	32.20	(10.23)	24.17	(9.93)	19.54	(7.08)	35.78	(11.11)	111.68	(9.66)
Indoors, store	6.59	(2.09)	8.12	(3.34)	9.03	(3.28)	7.51	(2.33)	31.26	(2.70)
Indoors, restaurant	8.91	(2.83)	9.78	(4.02)	9.30	(3.37)	10.13	(3.15)	38.12	(3.30)
Indoors, mfg. facility	0.00	(0.00)	6.63	(2.72)	13.50	(4.89)	0.00	(0.00)	20.12	(1.74)
Indoors, school	6.96	(2.21)	3.90	(1.60)	2.92	(1.06)	7.70	(2.39)	21.48	(1.86)
Indoors, church	1.87	(0.59)	1.16	(0.48)	1.90	(0.69)	1.89	(0.59)	6.83	(0.59)
Indoors, shopping mall	1.83	(0.58)	3.64	(1.50)	2.38	(0.86)	2.49	(0.77)	10.34	(0.89)
Indoors, auditorium	0.03	(0.01)	0.10	(0.04)	0.07	(0.03)	0.05	(0.02)	0.26	(0.02)
Indoors, health care facility	3.69	(1.17)	3.93	(1.62)	2.80	(1.01)	4.29	(1.33)	14.72	(1.27)
Indoors, public building	0.44	(0.14)	0.17	(0.07)	0.36	(0.13)	0.47	(0.14)	1.44	(0.12)
Indoors, other location	13.93	(4.43)	11.35	(4.66)	9.13	(3.31)	13.86	(4.30)	48.27	(4.18)
Indoors, not specified	0.01	(0.00)	0.07	(0.03)	0.66	(0.24)	0.01	(0.00)	0.75	(0.06)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.44	(0.14)	2.51	(1.03)	4.26	(1.54)	0.62	(0.19)	7.84	(0.68)
Outdoors, school grounds	0.07	(0.02)	0.36	(0.15)	0.32	(0.12)	0.14	(0.04)	0.89	(0.08)
Outdoors, sports arena	0.16	(0.05)	0.07	(0.03)	0.64	(0.23)	0.16	(0.05)	1.04	(0.09)
Outdoors, park/golf course	0.07	(0.02)	0.01	(0.00)	0.00	(0.00)	0.08	(0.02)	0.16	(0.01)
Outdoors, other location	0.04	(0.01)	0.24	(0.10)	0.72	(0.26)	0.07	(0.02)	1.07	(0.09)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	45.81	(14.96)	40.85	(16.63)	40.35	(14.13)	51.33	(16.20)	178.33	(15.45)
In transit, bus	0.71	(0.23)	2.44	(0.99)	1.43	(0.50)	1.37	(0.43)	5.95	(0.52)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.00)	0.06	(0.02)	0.00	(0.00)	0.07	(0.01)
Indoors, public garage	0.03	(0.01)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.00)
Outdoors, in a parking lot	1.03	(0.34)	3.32	(1.35)	5.25	(1.84)	1.32	(0.42)	10.91	(0.95)
Outdoors, along a roadway	8.37	(2.74)	14.47	(5.89)	29.24	(10.24)	9.49	(3.00)	61.58	(5.34)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.14	(0.06)	0.34	(0.12)	0.00	(0.00)	0.48	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.01)	0.04	(0.02)	0.04	(0.01)	0.02	(0.01)	0.12	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
Indoors, home	208.94	(68.25)	143.66	(58.49)	162.79	(57.00)	207.70	(65.54)	723.09	(62.64)
Indoors, office	9.91	(3.24)	6.84	(2.79)	4.32	(1.51)	10.62	(3.35)	31.69	(2.75)
Indoors, store	2.80	(0.91)	2.28	(0.93)	3.41	(1.19)	2.97	(0.94)	11.45	(0.99)
Indoors, restaurant	5.62	(1.83)	5.97	(2.43)	7.81	(2.74)	6.54	(2.06)	25.94	(2.25)
Indoors, mfg. facility	2.45	(0.80)	1.71	(0.70)	0.82	(0.29)	2.87	(0.91)	7.85	(0.68)
Indoors, school	1.90	(0.62)	0.72	(0.29)	0.55	(0.19)	1.92	(0.61)	5.09	(0.44)
Indoors, church	1.39	(0.46)	1.52	(0.62)	1.32	(0.46)	1.73	(0.55)	5.96	(0.52)
Indoors, shopping mall	5.17	(1.69)	2.70	(1.10)	5.28	(1.85)	5.22	(1.65)	18.37	(1.59)
Indoors, auditorium	0.72	(0.24)	0.88	(0.36)	0.78	(0.27)	0.79	(0.25)	3.16	(0.27)
Indoors, health care facility	0.33	(0.11)	0.97	(0.39)	1.69	(0.59)	0.45	(0.14)	3.43	(0.30)
Indoors, public building	0.30	(0.10)	0.79	(0.32)	1.01	(0.35)	0.32	(0.10)	2.41	(0.21)
Indoors, other location	2.73	(0.89)	3.70	(1.51)	2.55	(0.89)	3.40	(1.07)	12.39	(1.07)
Indoors, not specified	0.00	(0.00)	0.74	(0.30)	0.87	(0.31)	0.00	(0.00)	1.61	(0.14)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	4.76	(1.56)	9.37	(3.81)	13.09	(4.58)	5.24	(1.65)	32.47	(2.81)
Outdoors, school grounds	0.26	(0.08)	0.63	(0.26)	0.46	(0.16)	0.38	(0.12)	1.72	(0.15)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	1.74	(0.57)	1.29	(0.53)	0.60	(0.21)	1.98	(0.62)	5.61	(0.49)
Outdoors, other location	0.00	(0.00)	0.23	(0.09)	1.41	(0.49)	0.00	(0.00)	1.64	(0.14)
Outdoors, not specified	0.06	(0.02)	0.24	(0.10)	0.13	(0.05)	0.12	(0.04)	0.55	(0.05)
In transit, train	1.10	(0.36)	0.12	(0.05)	0.00	(0.00)	1.05	(0.33)	2.27	(0.20)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	28.05	(9.46)	22.86	(9.99)	28.44	(10.78)	29.97	(9.84)	109.32	(9.99)
In transit, bus	0.18	(0.06)	0.76	(0.33)	1.14	(0.43)	0.35	(0.12)	2.43	(0.22)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.51	(0.17)	0.07	(0.03)	0.00	(0.00)	0.51	(0.17)	1.09	(0.10)
Indoors, public garage	0.12	(0.04)	0.05	(0.02)	0.29	(0.11)	0.10	(0.03)	0.56	(0.05)
Outdoors, in a parking lot	0.39	(0.13)	0.91	(0.40)	1.35	(0.51)	0.44	(0.15)	3.09	(0.28)
Outdoors, along a roadway	11.41	(3.85)	8.88	(3.88)	14.30	(5.42)	11.54	(3.79)	46.14	(4.22)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.05	(0.02)	0.05	(0.02)	0.00	(0.00)	0.10	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	224.59	(75.72)	170.00	(74.31)	188.19	(71.33)	227.54	(74.72)	810.32	(74.09)
Indoors, office	2.96	(1.00)	0.71	(0.31)	0.37	(0.14)	3.00	(0.98)	7.03	(0.64)
Indoors, store	2.65	(0.89)	3.78	(1.65)	8.20	(3.11)	2.86	(0.94)	17.49	(1.60)
Indoors, restaurant	4.24	(1.43)	4.59	(2.00)	5.68	(2.15)	4.93	(1.62)	19.43	(1.78)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.11	(0.05)	0.13	(0.05)	0.00	(0.00)	0.24	(0.02)
Indoors, church	2.78	(0.94)	2.18	(0.95)	1.44	(0.55)	3.37	(1.11)	9.78	(0.89)
Indoors, shopping mall	1.20	(0.40)	4.71	(2.06)	2.71	(1.03)	2.36	(0.77)	10.98	(1.00)
Indoors, auditorium	0.04	(0.01)	0.15	(0.07)	0.08	(0.03)	0.07	(0.02)	0.35	(0.03)
Indoors, health care facility	2.80	(0.95)	0.95	(0.41)	0.48	(0.18)	2.82	(0.93)	7.05	(0.64)
Indoors, public building	0.40	(0.13)	0.75	(0.33)	0.67	(0.25)	0.50	(0.16)	2.32	(0.21)
Indoors, other location	13.71	(4.62)	3.65	(1.60)	4.18	(1.58)	13.48	(4.43)	35.03	(3.20)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.48	(0.16)	2.50	(1.09)	4.46	(1.69)	0.52	(0.17)	7.96	(0.73)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.08	(0.03)	0.41	(0.18)	0.41	(0.16)	0.15	(0.05)	1.04	(0.10)
Outdoors, park/golf course	0.00	(0.00)	0.27	(0.12)	0.49	(0.19)	0.00	(0.00)	0.77	(0.07)
Outdoors, other location	0.00	(0.00)	0.44	(0.19)	0.77	(0.29)	0.00	(0.00)	1.21	(0.11)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	29.84	(7.67)	16.69	(5.47)	21.96	(6.20)	30.44	(7.59)	98.93	(6.83)
In transit, bus	0.00	(0.00)	0.76	(0.25)	1.12	(0.32)	0.00	(0.00)	1.88	(0.13)
In transit, truck	31.93	(8.21)	29.86	(9.79)	35.39	(10.00)	31.99	(7.98)	129.17	(8.91)
In transit, van	2.92	(0.75)	0.40	(0.13)	0.00	(0.00)	2.90	(0.72)	6.21	(0.43)
Indoors, public garage	8.82	(2.27)	4.85	(1.59)	2.64	(0.75)	8.50	(2.12)	24.81	(1.71)
Outdoors, in a parking lot	2.07	(0.53)	4.17	(1.37)	4.10	(1.16)	2.70	(0.67)	13.04	(0.90)
Outdoors, along a roadway	44.87	(11.53)	50.54	(16.56)	68.69	(19.40)	50.95	(12.70)	215.05	(14.84)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	18.48	(4.75)	3.31	(1.09)	1.12	(0.32)	18.58	(4.63)	41.50	(2.86)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	3.82	(0.98)	0.51	(0.17)	0.07	(0.02)	3.04	(0.76)	7.44	(0.51)
Indoors, in a repair shop	0.00	(0.00)	0.35	(0.11)	0.47	(0.13)	0.00	(0.00)	0.82	(0.06)
Indoors, home	138.27	(35.54)	95.50	(31.29)	107.08	(30.24)	135.42	(33.75)	476.27	(32.86)
Indoors, office	9.23	(2.37)	8.94	(2.93)	7.24	(2.04)	9.31	(2.32)	34.71	(2.40)
Indoors, store	2.85	(0.73)	1.08	(0.35)	0.62	(0.17)	2.88	(0.72)	7.44	(0.51)
Indoors, restaurant	12.22	(3.14)	4.16	(1.36)	3.25	(0.92)	12.25	(3.05)	31.88	(2.20)
Indoors, mfg. facility	1.23	(0.32)	5.69	(1.86)	15.02	(4.24)	2.32	(0.58)	24.27	(1.67)
Indoors, school	0.46	(0.12)	1.72	(0.56)	0.98	(0.28)	0.89	(0.22)	4.05	(0.28)
Indoors, church	3.30	(0.85)	1.06	(0.35)	0.47	(0.13)	3.22	(0.80)	8.05	(0.56)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.46	(0.12)	0.89	(0.29)	1.73	(0.49)	0.36	(0.09)	3.45	(0.24)
Indoors, health care facility	0.00	(0.00)	0.29	(0.10)	1.14	(0.32)	0.00	(0.00)	1.43	(0.10)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	15.42	(3.96)	3.77	(1.24)	1.60	(0.45)	14.24	(3.55)	35.03	(2.42)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	19.48	(5.01)	34.97	(11.46)	39.38	(11.12)	23.39	(5.83)	117.21	(8.09)
Outdoors, residential grounds	1.81	(0.47)	4.20	(1.38)	4.17	(1.18)	2.45	(0.61)	12.63	(0.87)
Outdoors, school grounds	0.07	(0.02)	0.24	(0.08)	0.13	(0.04)	0.13	(0.03)	0.56	(0.04)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.26	(0.07)	1.10	(0.36)	0.75	(0.21)	0.51	(0.13)	2.63	(0.18)
Outdoors, other location	41.25	(10.60)	30.13	(9.87)	34.91	(9.86)	44.66	(11.13)	150.95	(10.41)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.12	(5.15)	18.19	(7.07)	24.91	(8.52)	18.02	(5.30)	78.24	(6.40)
In transit, bus	11.60	(3.49)	7.07	(2.75)	4.19	(1.43)	12.62	(3.71)	35.47	(2.90)
In transit, truck	0.05	(0.01)	0.44	(0.17)	0.61	(0.21)	0.09	(0.03)	1.19	(0.10)
In transit, van	1.45	(0.44)	0.66	(0.25)	0.67	(0.23)	1.34	(0.39)	4.12	(0.34)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	2.19	(0.66)	1.56	(0.61)	1.75	(0.60)	2.32	(0.68)	7.81	(0.64)
Outdoors, along a roadway	45.56	(13.70)	36.60	(14.24)	48.14	(16.46)	45.70	(13.44)	176.00	(14.40)
In transit, motorcycle	1.60	(0.48)	0.24	(0.09)	0.09	(0.03)	1.36	(0.40)	3.29	(0.27)
Indoors, service station	0.00	(0.00)	0.01	(0.00)	0.02	(0.01)	0.00	(0.00)	0.03	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.01)	0.17	(0.06)	0.18	(0.06)	0.05	(0.02)	0.43	(0.04)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	159.98	(48.10)	117.78	(45.81)	140.77	(48.13)	155.93	(45.85)	574.47	(46.99)
Indoors, office	0.63	(0.19)	0.34	(0.13)	0.85	(0.29)	0.60	(0.18)	2.42	(0.20)
Indoors, store	5.06	(1.52)	2.97	(1.16)	3.42	(1.17)	4.80	(1.41)	16.25	(1.33)
Indoors, restaurant	1.34	(0.40)	2.67	(1.04)	3.91	(1.34)	1.53	(0.45)	9.45	(0.77)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	56.40	(16.96)	33.80	(13.15)	18.97	(6.49)	63.11	(18.56)	172.29	(14.10)
Indoors, church	1.68	(0.51)	1.03	(0.40)	1.16	(0.40)	1.78	(0.52)	5.66	(0.46)
Indoors, shopping mall	3.08	(0.93)	2.41	(0.94)	1.40	(0.48)	3.43	(1.01)	10.33	(0.84)
Indoors, auditorium	0.07	(0.02)	0.21	(0.08)	0.30	(0.10)	0.10	(0.03)	0.68	(0.06)
Indoors, health care facility	0.86	(0.26)	1.09	(0.42)	0.86	(0.29)	1.06	(0.31)	3.86	(0.32)
Indoors, public building	0.91	(0.27)	0.78	(0.30)	0.83	(0.28)	1.04	(0.31)	3.55	(0.29)
Indoors, other location	2.37	(0.71)	2.06	(0.80)	2.56	(0.88)	2.74	(0.81)	9.73	(0.80)
Indoors, not specified	0.00	(0.00)	0.09	(0.04)	0.16	(0.05)	0.00	(0.00)	0.25	(0.02)
Outdoors, construction	0.00	(0.00)	0.34	(0.13)	0.42	(0.14)	0.00	(0.00)	0.75	(0.06)
Outdoors, residential grounds	8.70	(2.61)	10.49	(4.08)	16.31	(5.58)	8.91	(2.62)	44.41	(3.63)
Outdoors, school grounds	10.48	(3.15)	9.32	(3.62)	5.75	(1.97)	11.82	(3.48)	37.38	(3.06)
Outdoors, sports arena	1.04	(0.31)	1.25	(0.49)	1.81	(0.62)	1.18	(0.35)	5.28	(0.43)
Outdoors, park/golf course	0.35	(0.10)	1.88	(0.73)	3.69	(1.26)	0.38	(0.11)	6.30	(0.52)
Outdoors, other location	0.04	(0.01)	3.66	(1.42)	8.77	(3.00)	0.07	(0.02)	12.55	(1.03)
Outdoors, not specified	0.06	(0.02)	0.01	(0.00)	0.00	(0.00)	0.04	(0.01)	0.10	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	18.61	(6.41)	20.37	(8.75)	24.63	(9.19)	19.93	(6.70)	83.54	(7.67)
In transit, bus	3.10	(1.07)	3.62	(1.55)	2.24	(0.83)	3.92	(1.32)	12.88	(1.18)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.46	(0.16)	1.15	(0.50)	0.96	(0.36)	0.67	(0.22)	3.25	(0.30)
Indoors, public garage	0.00	(0.00)	0.01	(0.00)	0.09	(0.03)	0.00	(0.00)	0.09	(0.01)
Outdoors, in a parking lot	0.97	(0.33)	1.15	(0.49)	1.45	(0.54)	1.05	(0.35)	4.62	(0.42)
Outdoors, along a roadway	10.99	(3.79)	11.47	(4.93)	18.07	(6.74)	11.01	(3.70)	51.54	(4.73)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.10	(0.04)	0.13	(0.05)	0.00	(0.00)	0.23	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.44	(0.15)	0.26	(0.11)	0.14	(0.05)	0.47	(0.16)	1.32	(0.12)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)	0.00	(0.00)	0.02	(0.00)
Indoors, home	215.72	(74.32)	150.29	(64.58)	174.37	(65.06)	214.82	(72.16)	755.19	(69.37)
Indoors, office	9.89	(3.41)	8.36	(3.59)	7.40	(2.76)	11.21	(3.77)	36.86	(3.39)
Indoors, store	3.62	(1.25)	3.77	(1.62)	4.33	(1.61)	3.93	(1.32)	15.65	(1.44)
Indoors, restaurant	7.70	(2.65)	4.86	(2.09)	6.27	(2.34)	7.99	(2.68)	26.81	(2.46)
Indoors, mfg. facility	2.35	(0.81)	4.13	(1.77)	3.44	(1.28)	2.96	(0.99)	12.87	(1.18)
Indoors, school	9.03	(3.11)	8.11	(3.49)	4.93	(1.84)	10.71	(3.60)	32.78	(3.01)
Indoors, church	1.71	(0.59)	2.12	(0.91)	1.53	(0.57)	2.17	(0.73)	7.52	(0.69)
Indoors, shopping mall	0.27	(0.09)	1.24	(0.53)	2.26	(0.84)	0.54	(0.18)	4.31	(0.40)
Indoors, auditorium	0.02	(0.01)	0.06	(0.03)	0.05	(0.02)	0.03	(0.01)	0.16	(0.01)
Indoors, health care facility	1.43	(0.49)	0.94	(0.40)	1.15	(0.43)	1.48	(0.50)	5.00	(0.46)
Indoors, public building	0.11	(0.04)	0.16	(0.07)	0.67	(0.25)	0.12	(0.04)	1.05	(0.10)
Indoors, other location	0.20	(0.07)	1.70	(0.73)	2.68	(1.00)	0.28	(0.09)	4.85	(0.45)
Indoors, not specified	0.26	(0.09)	0.42	(0.18)	0.90	(0.34)	0.26	(0.09)	1.84	(0.17)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.69	(0.58)	5.18	(2.23)	7.53	(2.81)	2.09	(0.70)	16.50	(1.52)
Outdoors, school grounds	0.92	(0.32)	1.62	(0.70)	0.92	(0.34)	1.26	(0.42)	4.73	(0.43)
Outdoors, sports arena	0.00	(0.00)	0.28	(0.12)	0.24	(0.09)	0.01	(0.00)	0.53	(0.05)
Outdoors, park/golf course	0.75	(0.26)	0.15	(0.07)	0.22	(0.08)	0.73	(0.24)	1.85	(0.17)
Outdoors, other location	0.02	(0.01)	1.21	(0.52)	1.47	(0.55)	0.05	(0.02)	2.75	(0.25)
Outdoors, not specified	0.00	(0.00)	0.03	(0.01)	0.02	(0.01)	0.00	(0.00)	0.05	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Spokane: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	41.24	(12.94)	29.39	(11.91)	31.57	(11.24)	42.46	(13.03)	144.66	(12.34)
In transit, bus	3.36	(1.06)	2.56	(1.04)	2.01	(0.71)	3.64	(1.12)	11.57	(0.99)
In transit, truck	3.73	(1.17)	2.63	(1.06)	2.41	(0.86)	3.88	(1.19)	12.65	(1.08)
In transit, van	0.90	(0.28)	1.12	(0.45)	1.34	(0.48)	1.03	(0.32)	4.39	(0.37)
Indoors, public garage	0.87	(0.27)	0.52	(0.21)	0.33	(0.12)	0.95	(0.29)	2.67	(0.23)
Outdoors, in a parking lot	1.46	(0.46)	1.81	(0.73)	2.42	(0.86)	1.62	(0.50)	7.31	(0.62)
Outdoors, along a roadway	13.75	(4.31)	16.83	(6.82)	23.89	(8.51)	14.83	(4.55)	69.30	(5.91)
In transit, motorcycle	0.07	(0.02)	0.23	(0.09)	0.47	(0.17)	0.06	(0.02)	0.84	(0.07)
Indoors, service station	1.20	(0.38)	0.52	(0.21)	0.29	(0.10)	1.26	(0.39)	3.27	(0.28)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.28	(0.09)	0.28	(0.11)	0.21	(0.08)	0.30	(0.09)	1.07	(0.09)
Indoors, in a repair shop	0.98	(0.31)	0.15	(0.06)	0.01	(0.00)	1.00	(0.31)	2.15	(0.18)
Indoors, home	180.89	(56.76)	130.78	(52.99)	152.18	(54.19)	179.30	(55.01)	643.15	(54.86)
Indoors, office	20.51	(6.44)	12.98	(5.26)	10.44	(3.72)	22.26	(6.83)	66.20	(5.65)
Indoors, store	6.59	(2.07)	5.63	(2.28)	6.10	(2.17)	7.03	(2.16)	25.35	(2.16)
Indoors, restaurant	8.35	(2.62)	5.89	(2.39)	6.09	(2.17)	8.51	(2.61)	28.85	(2.46)
Indoors, mfg. facility	1.91	(0.60)	2.72	(1.10)	3.08	(1.10)	2.17	(0.67)	9.89	(0.84)
Indoors, school	10.35	(3.25)	9.47	(3.84)	6.79	(2.42)	12.07	(3.71)	38.69	(3.30)
Indoors, church	1.20	(0.38)	1.05	(0.43)	1.06	(0.38)	1.32	(0.40)	4.63	(0.40)
Indoors, shopping mall	2.42	(0.76)	1.78	(0.72)	1.50	(0.53)	2.62	(0.80)	8.32	(0.71)
Indoors, auditorium	0.28	(0.09)	0.22	(0.09)	0.27	(0.10)	0.28	(0.09)	1.06	(0.09)
Indoors, health care facility	2.23	(0.70)	1.62	(0.66)	1.51	(0.54)	2.36	(0.72)	7.73	(0.66)
Indoors, public building	0.66	(0.21)	0.69	(0.28)	0.97	(0.34)	0.71	(0.22)	3.03	(0.26)
Indoors, other location	10.37	(3.25)	6.83	(2.77)	6.61	(2.36)	10.34	(3.17)	34.15	(2.91)
Indoors, not specified	0.61	(0.19)	0.21	(0.09)	0.19	(0.07)	0.62	(0.19)	1.63	(0.14)
Outdoors, construction	0.29	(0.09)	0.66	(0.27)	0.62	(0.22)	0.38	(0.12)	1.94	(0.17)
Outdoors, residential grounds	1.73	(0.54)	4.82	(1.95)	9.54	(3.40)	2.03	(0.62)	18.12	(1.55)
Outdoors, school grounds	0.94	(0.29)	1.63	(0.66)	1.37	(0.49)	1.14	(0.35)	5.07	(0.43)
Outdoors, sports arena	0.18	(0.06)	0.41	(0.17)	0.76	(0.27)	0.19	(0.06)	1.54	(0.13)
Outdoors, park/golf course	0.20	(0.06)	0.97	(0.39)	1.87	(0.67)	0.25	(0.08)	3.29	(0.28)
Outdoors, other location	0.85	(0.27)	2.21	(0.90)	4.82	(1.71)	0.94	(0.29)	8.82	(0.75)
Outdoors, not specified	0.04	(0.01)	0.07	(0.03)	0.05	(0.02)	0.04	(0.01)	0.21	(0.02)
In transit, train	0.26	(0.08)	0.09	(0.04)	0.07	(0.02)	0.25	(0.08)	0.67	(0.06)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.43	(8.81)	8.70	(8.99)	9.08	(9.49)	10.58	(8.80)	37.78	(9.00)
In transit, bus	1.49	(1.39)	0.88	(0.91)	0.54	(0.56)	1.51	(1.26)	4.41	(1.05)
In transit, truck	0.63	(0.59)	0.71	(0.74)	0.70	(0.74)	0.75	(0.63)	2.80	(0.67)
In transit, van	0.43	(0.41)	0.49	(0.50)	0.45	(0.47)	0.61	(0.51)	1.98	(0.47)
Indoors, public garage	0.17	(0.16)	0.10	(0.10)	0.06	(0.06)	0.18	(0.15)	0.51	(0.12)
Outdoors, in a parking lot	0.79	(0.73)	0.69	(0.71)	0.73	(0.76)	0.80	(0.67)	3.01	(0.72)
Outdoors, along a roadway	4.78	(4.46)	5.64	(5.83)	6.82	(7.13)	5.56	(4.63)	22.80	(5.43)
In transit, motorcycle	0.03	(0.03)	0.08	(0.08)	0.16	(0.16)	0.03	(0.03)	0.30	(0.07)
Indoors, service station	0.22	(0.21)	0.13	(0.13)	0.08	(0.08)	0.23	(0.19)	0.66	(0.16)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.09	(0.09)	0.07	(0.07)	0.04	(0.04)	0.11	(0.09)	0.31	(0.07)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.02	(0.00)
Indoors, home	66.36	(61.99)	59.39	(61.37)	57.51	(60.15)	75.53	(62.84)	258.78	(61.68)
Indoors, office	3.33	(3.11)	2.89	(2.98)	2.77	(2.89)	3.43	(2.85)	12.41	(2.96)
Indoors, store	2.12	(1.98)	1.72	(1.78)	1.74	(1.82)	2.20	(1.83)	7.78	(1.85)
Indoors, restaurant	2.39	(2.24)	1.86	(1.92)	1.84	(1.92)	2.51	(2.09)	8.60	(2.05)
Indoors, mfg. facility	1.27	(1.18)	1.08	(1.12)	1.01	(1.06)	1.36	(1.13)	4.72	(1.13)
Indoors, school	6.72	(6.27)	4.32	(4.47)	2.57	(2.69)	7.06	(5.88)	20.67	(4.93)
Indoors, church	0.48	(0.45)	0.37	(0.38)	0.32	(0.33)	0.56	(0.47)	1.72	(0.41)
Indoors, shopping mall	0.75	(0.70)	0.53	(0.55)	0.42	(0.44)	0.72	(0.60)	2.41	(0.57)
Indoors, auditorium	0.08	(0.07)	0.09	(0.09)	0.10	(0.10)	0.12	(0.10)	0.39	(0.09)
Indoors, health care facility	0.78	(0.73)	0.58	(0.60)	0.44	(0.46)	0.88	(0.74)	2.68	(0.64)
Indoors, public building	0.25	(0.24)	0.29	(0.30)	0.33	(0.35)	0.29	(0.24)	1.17	(0.28)
Indoors, other location	2.08	(1.95)	1.96	(2.03)	1.96	(2.04)	2.47	(2.05)	8.47	(2.02)
Indoors, not specified	0.03	(0.02)	0.03	(0.03)	0.05	(0.05)	0.02	(0.02)	0.12	(0.03)
Outdoors, construction	0.24	(0.23)	0.21	(0.22)	0.17	(0.18)	0.24	(0.20)	0.86	(0.21)
Outdoors, residential grounds	1.03	(0.96)	2.08	(2.15)	3.06	(3.20)	1.23	(1.02)	7.40	(1.76)
Outdoors, school grounds	0.69	(0.64)	0.55	(0.56)	0.39	(0.41)	0.76	(0.63)	2.38	(0.57)
Outdoors, sports arena	0.03	(0.03)	0.12	(0.12)	0.21	(0.22)	0.03	(0.03)	0.40	(0.09)
Outdoors, park/golf course	0.12	(0.12)	0.39	(0.40)	0.61	(0.64)	0.17	(0.15)	1.30	(0.31)
Outdoors, other location	0.21	(0.20)	0.81	(0.84)	1.46	(1.53)	0.22	(0.18)	2.70	(0.64)
Outdoors, not specified	0.02	(0.02)	0.02	(0.02)	0.02	(0.02)	0.02	(0.02)	0.08	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.50	(7.77)	6.62	(6.28)	7.30	(6.59)	10.86	(6.78)	33.27	(6.85)
In transit, bus	3.00	(2.75)	3.14	(2.98)	2.63	(2.37)	4.49	(2.81)	13.26	(2.73)
In transit, truck	0.00	(0.00)	0.15	(0.14)	0.33	(0.30)	0.00	(0.00)	0.48	(0.10)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.03	(0.03)	0.00	(0.00)	0.04	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.63	(0.58)	0.64	(0.61)	1.03	(0.93)	0.70	(0.44)	3.00	(0.62)
Outdoors, along a roadway	3.07	(2.81)	5.56	(5.27)	8.62	(7.78)	4.45	(2.78)	21.69	(4.47)
In transit, motorcycle	0.10	(0.09)	0.09	(0.08)	0.06	(0.05)	0.19	(0.12)	0.43	(0.09)
Indoors, service station	0.00	(0.00)	0.02	(0.02)	0.05	(0.04)	0.00	(0.00)	0.07	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.03	(0.02)	0.00	(0.00)	0.04	(0.01)
Indoors, home	76.19	(69.66)	73.22	(69.52)	74.50	(67.29)	114.09	(71.30)	338.01	(69.62)
Indoors, office	0.20	(0.18)	0.73	(0.69)	1.32	(1.19)	0.49	(0.31)	2.74	(0.56)
Indoors, store	0.65	(0.59)	0.92	(0.88)	1.28	(1.16)	0.98	(0.61)	3.83	(0.79)
Indoors, restaurant	1.22	(1.12)	0.36	(0.34)	0.21	(0.19)	1.31	(0.82)	3.10	(0.64)
Indoors, mfg. facility	1.49	(1.36)	0.47	(0.45)	0.48	(0.43)	1.57	(0.98)	4.01	(0.83)
Indoors, school	6.06	(5.54)	5.34	(5.07)	3.38	(3.05)	8.96	(5.60)	23.74	(4.89)
Indoors, church	1.59	(1.46)	1.10	(1.04)	0.98	(0.88)	2.08	(1.30)	5.75	(1.18)
Indoors, shopping mall	0.26	(0.24)	0.43	(0.41)	0.31	(0.28)	0.71	(0.44)	1.71	(0.35)
Indoors, auditorium	0.03	(0.03)	0.04	(0.04)	0.03	(0.03)	0.08	(0.05)	0.18	(0.04)
Indoors, health care facility	1.02	(0.93)	1.83	(1.74)	2.31	(2.09)	1.73	(1.08)	6.89	(1.42)
Indoors, public building	0.04	(0.04)	0.18	(0.17)	0.30	(0.28)	0.07	(0.04)	0.59	(0.12)
Indoors, other location	4.01	(3.67)	1.60	(1.52)	1.65	(1.49)	4.73	(2.96)	12.00	(2.47)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.50	(0.46)	1.43	(1.36)	2.14	(1.94)	0.94	(0.59)	5.02	(1.03)
Outdoors, school grounds	0.63	(0.57)	0.68	(0.65)	0.42	(0.38)	1.09	(0.68)	2.82	(0.58)
Outdoors, sports arena	0.17	(0.16)	0.25	(0.24)	0.17	(0.15)	0.49	(0.31)	1.09	(0.22)
Outdoors, park/golf course	0.00	(0.00)	0.03	(0.03)	0.09	(0.08)	0.00	(0.00)	0.12	(0.03)
Outdoors, other location	0.01	(0.01)	0.34	(0.32)	0.78	(0.70)	0.01	(0.00)	1.13	(0.23)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.14	(0.13)	0.30	(0.27)	0.00	(0.00)	0.44	(0.09)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.44	(7.08)	6.07	(6.32)	6.14	(6.54)	7.96	(6.50)	27.61	(6.62)
In transit, bus	2.10	(2.00)	2.20	(2.29)	1.83	(1.95)	2.56	(2.09)	8.69	(2.08)
In transit, truck	0.00	(0.00)	0.13	(0.13)	0.26	(0.27)	0.00	(0.00)	0.38	(0.09)
In transit, van	0.37	(0.35)	0.40	(0.42)	0.25	(0.27)	0.62	(0.50)	1.64	(0.39)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.60	(0.57)	0.63	(0.66)	0.87	(0.92)	0.58	(0.48)	2.68	(0.64)
Outdoors, along a roadway	5.74	(5.46)	8.43	(8.78)	9.15	(9.75)	7.54	(6.15)	30.86	(7.39)
In transit, motorcycle	0.07	(0.07)	0.06	(0.06)	0.04	(0.04)	0.11	(0.09)	0.27	(0.06)
Indoors, service station	0.00	(0.00)	0.02	(0.02)	0.04	(0.04)	0.00	(0.00)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Indoors, home	74.04	(70.46)	64.74	(67.43)	61.97	(66.00)	86.37	(70.54)	287.12	(68.77)
Indoors, office	0.27	(0.26)	0.75	(0.78)	1.16	(1.23)	0.49	(0.40)	2.66	(0.64)
Indoors, store	0.56	(0.53)	0.83	(0.87)	1.07	(1.14)	0.70	(0.57)	3.16	(0.76)
Indoors, restaurant	1.09	(1.04)	0.38	(0.40)	0.21	(0.23)	1.02	(0.83)	2.70	(0.65)
Indoors, mfg. facility	1.23	(1.17)	0.39	(0.40)	0.37	(0.39)	1.02	(0.83)	3.01	(0.72)
Indoors, school	4.44	(4.23)	3.60	(3.75)	2.11	(2.25)	5.20	(4.25)	15.35	(3.68)
Indoors, church	1.28	(1.22)	1.04	(1.08)	0.84	(0.90)	1.50	(1.23)	4.66	(1.12)
Indoors, shopping mall	0.22	(0.21)	0.36	(0.37)	0.23	(0.25)	0.45	(0.37)	1.27	(0.30)
Indoors, auditorium	0.03	(0.03)	0.03	(0.04)	0.02	(0.02)	0.06	(0.05)	0.14	(0.03)
Indoors, health care facility	0.83	(0.79)	1.40	(1.46)	1.69	(1.80)	1.08	(0.88)	5.00	(1.20)
Indoors, public building	0.04	(0.03)	0.14	(0.15)	0.22	(0.24)	0.05	(0.04)	0.45	(0.11)
Indoors, other location	3.55	(3.38)	1.48	(1.54)	1.36	(1.45)	3.41	(2.78)	9.79	(2.35)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.55	(0.53)	1.66	(1.73)	2.49	(2.65)	0.77	(0.63)	5.48	(1.31)
Outdoors, school grounds	0.42	(0.40)	0.45	(0.47)	0.26	(0.27)	0.57	(0.46)	1.70	(0.41)
Outdoors, sports arena	0.15	(0.15)	0.21	(0.22)	0.14	(0.15)	0.33	(0.27)	0.84	(0.20)
Outdoors, park/golf course	0.00	(0.00)	0.03	(0.03)	0.07	(0.07)	0.00	(0.00)	0.09	(0.02)
Outdoors, other location	0.05	(0.05)	0.44	(0.46)	0.84	(0.90)	0.06	(0.05)	1.40	(0.34)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.11	(0.12)	0.23	(0.25)	0.00	(0.00)	0.35	(0.08)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	4.67	(4.50)	5.52	(5.63)	6.80	(6.89)	6.10	(4.31)	23.10	(5.22)
In transit, bus	1.52	(1.46)	0.91	(0.93)	0.47	(0.48)	1.84	(1.30)	4.74	(1.07)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.31	(0.32)	0.58	(0.59)	0.00	(0.00)	0.89	(0.20)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.55	(0.53)	0.78	(0.79)	0.93	(0.94)	1.09	(0.77)	3.34	(0.76)
Outdoors, along a roadway	4.79	(4.61)	4.92	(5.01)	5.17	(5.23)	6.83	(4.82)	21.70	(4.91)
In transit, motorcycle	0.00	(0.00)	0.08	(0.08)	0.14	(0.15)	0.00	(0.00)	0.22	(0.05)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	80.03	(77.00)	75.01	(76.49)	74.23	(75.13)	110.83	(78.31)	340.10	(76.89)
Indoors, office	0.20	(0.20)	0.08	(0.08)	0.07	(0.07)	0.20	(0.14)	0.56	(0.13)
Indoors, store	1.72	(1.65)	1.96	(2.00)	2.82	(2.86)	1.70	(1.20)	8.20	(1.85)
Indoors, restaurant	1.85	(1.78)	0.67	(0.68)	0.44	(0.44)	2.02	(1.43)	4.97	(1.12)
Indoors, mfg. facility	0.86	(0.82)	0.47	(0.48)	0.80	(0.81)	0.81	(0.57)	2.94	(0.66)
Indoors, school	4.78	(4.60)	3.37	(3.43)	1.65	(1.67)	6.22	(4.40)	16.02	(3.62)
Indoors, church	0.25	(0.24)	0.20	(0.21)	0.12	(0.12)	0.42	(0.30)	0.99	(0.22)
Indoors, shopping mall	0.53	(0.51)	0.56	(0.57)	0.29	(0.29)	0.83	(0.58)	2.21	(0.50)
Indoors, auditorium	0.06	(0.06)	0.13	(0.13)	0.14	(0.14)	0.15	(0.10)	0.48	(0.11)
Indoors, health care facility	0.21	(0.21)	0.28	(0.28)	0.24	(0.24)	0.33	(0.23)	1.06	(0.24)
Indoors, public building	0.32	(0.30)	0.11	(0.11)	0.05	(0.05)	0.26	(0.18)	0.73	(0.17)
Indoors, other location	0.77	(0.74)	0.69	(0.71)	0.93	(0.94)	0.82	(0.58)	3.21	(0.73)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.61	(0.59)	0.91	(0.93)	1.16	(1.17)	0.84	(0.59)	3.52	(0.80)
Outdoors, school grounds	0.13	(0.13)	0.14	(0.15)	0.07	(0.08)	0.20	(0.14)	0.55	(0.12)
Outdoors, sports arena	0.00	(0.00)	0.12	(0.12)	0.23	(0.23)	0.00	(0.00)	0.34	(0.08)
Outdoors, park/golf course	0.07	(0.07)	0.09	(0.09)	0.12	(0.12)	0.05	(0.03)	0.32	(0.07)
Outdoors, other location	0.01	(0.01)	0.76	(0.77)	1.34	(1.36)	0.01	(0.01)	2.12	(0.48)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.11	(7.50)	7.73	(7.81)	7.81	(7.90)	9.95	(7.63)	33.60	(7.70)
In transit, bus	0.87	(0.80)	0.72	(0.72)	0.52	(0.52)	1.06	(0.81)	3.16	(0.72)
In transit, truck	0.50	(0.46)	0.67	(0.68)	0.95	(0.96)	0.61	(0.47)	2.73	(0.63)
In transit, van	0.07	(0.06)	0.10	(0.10)	0.10	(0.10)	0.16	(0.12)	0.43	(0.10)
Indoors, public garage	0.00	(0.00)	0.05	(0.05)	0.08	(0.08)	0.00	(0.00)	0.13	(0.03)
Outdoors, in a parking lot	1.33	(1.24)	1.00	(1.01)	1.19	(1.21)	1.22	(0.93)	4.74	(1.09)
Outdoors, along a roadway	5.12	(4.74)	6.42	(6.49)	8.38	(8.48)	6.26	(4.80)	26.18	(6.00)
In transit, motorcycle	0.00	(0.00)	0.54	(0.54)	1.16	(1.17)	0.00	(0.00)	1.69	(0.39)
Indoors, service station	0.00	(0.00)	0.05	(0.05)	0.09	(0.09)	0.01	(0.00)	0.15	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.10	(0.09)	0.10	(0.10)	0.06	(0.06)	0.15	(0.12)	0.40	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Indoors, home	69.04	(63.91)	63.18	(63.85)	62.27	(62.99)	84.90	(65.07)	279.39	(64.03)
Indoors, office	2.25	(2.08)	1.85	(1.87)	1.60	(1.62)	2.55	(1.96)	8.25	(1.89)
Indoors, store	1.56	(1.44)	1.72	(1.74)	2.00	(2.03)	1.94	(1.48)	7.22	(1.66)
Indoors, restaurant	4.42	(4.09)	2.78	(2.80)	1.86	(1.88)	4.82	(3.69)	13.87	(3.18)
Indoors, mfg. facility	2.05	(1.90)	1.40	(1.42)	0.94	(0.96)	2.31	(1.77)	6.70	(1.54)
Indoors, school	5.68	(5.26)	3.32	(3.35)	1.86	(1.88)	6.13	(4.70)	16.98	(3.89)
Indoors, church	0.46	(0.42)	0.43	(0.43)	0.37	(0.37)	0.60	(0.46)	1.85	(0.42)
Indoors, shopping mall	1.08	(1.00)	0.46	(0.47)	0.25	(0.25)	0.88	(0.68)	2.68	(0.61)
Indoors, auditorium	0.03	(0.03)	0.05	(0.05)	0.05	(0.05)	0.06	(0.04)	0.19	(0.04)
Indoors, health care facility	1.30	(1.20)	1.02	(1.03)	1.03	(1.04)	1.49	(1.14)	4.84	(1.11)
Indoors, public building	0.18	(0.16)	0.08	(0.08)	0.06	(0.06)	0.16	(0.12)	0.47	(0.11)
Indoors, other location	2.19	(2.03)	2.26	(2.29)	1.97	(1.99)	3.08	(2.36)	9.50	(2.18)
Indoors, not specified	0.01	(0.01)	0.02	(0.02)	0.03	(0.04)	0.01	(0.01)	0.07	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.84	(0.78)	1.60	(1.62)	2.28	(2.31)	1.16	(0.89)	5.88	(1.35)
Outdoors, school grounds	0.72	(0.67)	0.58	(0.59)	0.42	(0.43)	0.85	(0.65)	2.58	(0.59)
Outdoors, sports arena	0.00	(0.00)	0.09	(0.09)	0.17	(0.17)	0.00	(0.00)	0.27	(0.06)
Outdoors, park/golf course	0.06	(0.06)	0.49	(0.49)	0.91	(0.92)	0.09	(0.07)	1.55	(0.36)
Outdoors, other location	0.00	(0.00)	0.22	(0.22)	0.44	(0.44)	0.00	(0.00)	0.66	(0.15)
Outdoors, not specified	0.05	(0.05)	0.01	(0.01)	0.00	(0.00)	0.05	(0.04)	0.12	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.71	(9.00)	8.82	(8.98)	9.29	(9.42)	11.10	(8.94)	38.93	(9.08)
In transit, bus	1.52	(1.41)	0.84	(0.85)	0.58	(0.59)	1.56	(1.25)	4.49	(1.05)
In transit, truck	0.45	(0.42)	0.47	(0.48)	0.43	(0.44)	0.55	(0.44)	1.90	(0.44)
In transit, van	0.88	(0.82)	0.86	(0.88)	0.76	(0.77)	1.21	(0.97)	3.71	(0.87)
Indoors, public garage	0.41	(0.38)	0.17	(0.17)	0.07	(0.07)	0.42	(0.34)	1.06	(0.25)
Outdoors, in a parking lot	0.70	(0.64)	0.64	(0.65)	0.70	(0.71)	0.73	(0.59)	2.77	(0.64)
Outdoors, along a roadway	5.04	(4.67)	6.54	(6.66)	7.66	(7.77)	6.34	(5.10)	25.58	(5.96)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.04	(0.04)	0.03	(0.03)	0.02	(0.02)	0.05	(0.04)	0.14	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.14	(0.13)	0.07	(0.08)	0.05	(0.05)	0.15	(0.12)	0.42	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	67.54	(62.62)	60.43	(61.49)	59.16	(59.98)	78.50	(63.20)	265.63	(61.93)
Indoors, office	3.41	(3.17)	3.19	(3.25)	3.09	(3.14)	3.70	(2.98)	13.40	(3.12)
Indoors, store	1.80	(1.67)	1.56	(1.58)	1.78	(1.80)	1.88	(1.52)	7.02	(1.64)
Indoors, restaurant	1.69	(1.57)	1.42	(1.45)	1.48	(1.50)	1.83	(1.47)	6.42	(1.50)
Indoors, mfg. facility	1.35	(1.25)	1.25	(1.27)	1.24	(1.25)	1.52	(1.22)	5.36	(1.25)
Indoors, school	5.37	(4.98)	3.38	(3.44)	2.15	(2.18)	5.71	(4.59)	16.60	(3.87)
Indoors, church	0.80	(0.74)	0.52	(0.53)	0.40	(0.41)	0.92	(0.74)	2.64	(0.61)
Indoors, shopping mall	0.71	(0.66)	0.44	(0.45)	0.34	(0.35)	0.67	(0.54)	2.16	(0.50)
Indoors, auditorium	0.09	(0.08)	0.08	(0.08)	0.07	(0.07)	0.13	(0.11)	0.37	(0.09)
Indoors, health care facility	0.68	(0.63)	0.54	(0.55)	0.41	(0.41)	0.81	(0.65)	2.44	(0.57)
Indoors, public building	0.26	(0.24)	0.38	(0.39)	0.49	(0.50)	0.34	(0.27)	1.47	(0.34)
Indoors, other location	2.54	(2.36)	2.00	(2.03)	1.92	(1.94)	2.93	(2.36)	9.39	(2.19)
Indoors, not specified	0.03	(0.03)	0.04	(0.04)	0.08	(0.08)	0.03	(0.02)	0.18	(0.04)
Outdoors, construction	0.54	(0.50)	0.45	(0.46)	0.35	(0.36)	0.54	(0.44)	1.88	(0.44)
Outdoors, residential grounds	1.03	(0.96)	2.19	(2.23)	3.20	(3.24)	1.34	(1.08)	7.77	(1.81)
Outdoors, school grounds	0.59	(0.55)	0.47	(0.48)	0.37	(0.37)	0.69	(0.55)	2.12	(0.49)
Outdoors, sports arena	0.01	(0.01)	0.10	(0.10)	0.19	(0.19)	0.01	(0.01)	0.31	(0.07)
Outdoors, park/golf course	0.12	(0.11)	0.27	(0.28)	0.38	(0.39)	0.16	(0.13)	0.93	(0.22)
Outdoors, other location	0.40	(0.37)	1.09	(1.11)	1.92	(1.94)	0.40	(0.32)	3.80	(0.89)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.02	(0.02)	0.04	(0.04)	0.00	(0.00)	0.06	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.19	(11.28)	10.77	(10.93)	10.84	(11.06)	13.82	(11.32)	47.62	(11.16)
In transit, bus	1.64	(1.52)	1.15	(1.17)	0.63	(0.64)	1.79	(1.47)	5.21	(1.22)
In transit, truck	0.23	(0.21)	0.64	(0.65)	0.91	(0.93)	0.29	(0.24)	2.08	(0.49)
In transit, van	0.01	(0.00)	0.17	(0.17)	0.28	(0.29)	0.01	(0.01)	0.47	(0.11)
Indoors, public garage	0.03	(0.02)	0.03	(0.03)	0.03	(0.03)	0.03	(0.02)	0.11	(0.03)
Outdoors, in a parking lot	0.68	(0.63)	0.61	(0.62)	0.58	(0.59)	0.77	(0.63)	2.65	(0.62)
Outdoors, along a roadway	4.79	(4.43)	5.65	(5.73)	7.22	(7.37)	5.44	(4.46)	23.10	(5.41)
In transit, motorcycle	0.13	(0.12)	0.02	(0.02)	0.00	(0.00)	0.12	(0.10)	0.27	(0.06)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.02)	0.03	(0.03)	0.04	(0.04)	0.02	(0.02)	0.12	(0.03)
Indoors, in a repair shop	0.02	(0.02)	0.02	(0.02)	0.01	(0.01)	0.02	(0.02)	0.07	(0.02)
Indoors, home	64.24	(59.42)	57.04	(57.89)	54.95	(56.06)	73.53	(60.22)	249.76	(58.52)
Indoors, office	5.26	(4.86)	4.32	(4.39)	4.19	(4.27)	5.35	(4.38)	19.12	(4.48)
Indoors, store	2.09	(1.93)	1.66	(1.68)	1.68	(1.71)	2.14	(1.75)	7.56	(1.77)
Indoors, restaurant	1.97	(1.82)	1.97	(2.00)	2.10	(2.14)	2.36	(1.93)	8.40	(1.97)
Indoors, mfg. facility	1.62	(1.50)	1.18	(1.20)	0.99	(1.01)	1.70	(1.40)	5.49	(1.29)
Indoors, school	6.92	(6.40)	4.59	(4.66)	2.28	(2.33)	7.51	(6.15)	21.31	(4.99)
Indoors, church	0.26	(0.24)	0.27	(0.28)	0.29	(0.30)	0.34	(0.28)	1.17	(0.27)
Indoors, shopping mall	0.70	(0.65)	0.84	(0.86)	0.88	(0.90)	0.87	(0.71)	3.30	(0.77)
Indoors, auditorium	0.05	(0.05)	0.10	(0.10)	0.17	(0.17)	0.07	(0.06)	0.39	(0.09)
Indoors, health care facility	0.66	(0.61)	0.64	(0.65)	0.66	(0.67)	0.77	(0.63)	2.72	(0.64)
Indoors, public building	0.20	(0.18)	0.19	(0.20)	0.19	(0.19)	0.26	(0.21)	0.84	(0.20)
Indoors, other location	2.43	(2.25)	1.86	(1.88)	1.57	(1.60)	2.57	(2.10)	8.43	(1.98)
Indoors, not specified	0.04	(0.04)	0.03	(0.03)	0.02	(0.02)	0.04	(0.03)	0.12	(0.03)
Outdoors, construction	0.00	(0.00)	0.02	(0.02)	0.04	(0.04)	0.00	(0.00)	0.06	(0.01)
Outdoors, residential grounds	0.99	(0.92)	2.69	(2.73)	4.45	(4.54)	1.13	(0.93)	9.27	(2.17)
Outdoors, school grounds	0.68	(0.63)	0.53	(0.54)	0.32	(0.32)	0.74	(0.61)	2.27	(0.53)
Outdoors, sports arena	0.06	(0.05)	0.16	(0.16)	0.23	(0.24)	0.08	(0.06)	0.52	(0.12)
Outdoors, park/golf course	0.17	(0.15)	0.58	(0.59)	0.90	(0.92)	0.27	(0.22)	1.92	(0.45)
Outdoors, other location	0.06	(0.05)	0.74	(0.75)	1.53	(1.56)	0.07	(0.06)	2.40	(0.56)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.39	(6.09)	7.07	(7.41)	8.26	(8.89)	7.33	(6.45)	29.05	(7.14)
In transit, bus	0.68	(0.65)	0.19	(0.20)	0.15	(0.17)	0.53	(0.46)	1.56	(0.38)
In transit, truck	2.59	(2.47)	1.34	(1.41)	0.67	(0.72)	2.65	(2.33)	7.26	(1.78)
In transit, van	0.63	(0.60)	0.78	(0.82)	0.48	(0.52)	1.10	(0.97)	2.98	(0.73)
Indoors, public garage	0.00	(0.00)	0.01	(0.01)	0.03	(0.03)	0.00	(0.00)	0.04	(0.01)
Outdoors, in a parking lot	0.25	(0.24)	0.53	(0.56)	0.77	(0.83)	0.27	(0.24)	1.83	(0.45)
Outdoors, along a roadway	4.83	(4.61)	5.22	(5.48)	5.95	(6.40)	5.70	(5.02)	21.71	(5.34)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.27	(1.21)	0.22	(0.23)	0.00	(0.00)	0.98	(0.86)	2.47	(0.61)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	65.30	(62.32)	57.60	(60.46)	54.28	(58.43)	70.45	(61.99)	247.63	(60.89)
Indoors, office	3.00	(2.86)	2.87	(3.02)	3.25	(3.50)	2.81	(2.48)	11.94	(2.94)
Indoors, store	0.09	(0.08)	0.44	(0.46)	0.69	(0.75)	0.11	(0.10)	1.33	(0.33)
Indoors, restaurant	2.75	(2.63)	2.62	(2.75)	2.98	(3.21)	2.98	(2.62)	11.34	(2.79)
Indoors, mfg. facility	0.00	(0.00)	0.03	(0.03)	0.06	(0.06)	0.00	(0.00)	0.09	(0.02)
Indoors, school	9.98	(9.52)	6.19	(6.50)	4.70	(5.06)	9.37	(8.24)	30.24	(7.44)
Indoors, church	0.36	(0.35)	0.22	(0.23)	0.20	(0.22)	0.28	(0.25)	1.07	(0.26)
Indoors, shopping mall	0.12	(0.11)	0.13	(0.14)	0.07	(0.07)	0.14	(0.12)	0.45	(0.11)
Indoors, auditorium	0.19	(0.18)	0.25	(0.26)	0.17	(0.18)	0.38	(0.34)	0.99	(0.24)
Indoors, health care facility	0.53	(0.51)	0.36	(0.38)	0.19	(0.20)	0.61	(0.54)	1.69	(0.42)
Indoors, public building	0.00	(0.00)	0.32	(0.34)	0.62	(0.67)	0.00	(0.00)	0.94	(0.23)
Indoors, other location	1.45	(1.38)	2.80	(2.94)	2.58	(2.78)	3.09	(2.72)	9.92	(2.44)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.09	(0.09)	0.18	(0.19)	0.00	(0.00)	0.27	(0.07)
Outdoors, residential grounds	3.41	(3.25)	3.44	(3.61)	3.34	(3.59)	3.35	(2.95)	13.54	(3.33)
Outdoors, school grounds	0.66	(0.63)	0.93	(0.97)	0.64	(0.69)	0.95	(0.83)	3.17	(0.78)
Outdoors, sports arena	0.00	(0.00)	0.08	(0.09)	0.16	(0.17)	0.00	(0.00)	0.24	(0.06)
Outdoors, park/golf course	0.32	(0.31)	0.91	(0.95)	1.24	(1.34)	0.54	(0.47)	3.01	(0.74)
Outdoors, other location	0.00	(0.00)	0.62	(0.65)	1.25	(1.34)	0.00	(0.00)	1.87	(0.46)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.31	(5.91)	6.23	(6.31)	7.09	(7.10)	7.64	(5.91)	27.27	(6.27)
In transit, bus	2.69	(2.51)	1.76	(1.79)	0.99	(0.99)	3.04	(2.35)	8.47	(1.95)
In transit, truck	0.18	(0.17)	0.17	(0.17)	0.25	(0.25)	0.18	(0.14)	0.79	(0.18)
In transit, van	0.59	(0.55)	0.68	(0.68)	0.56	(0.56)	1.02	(0.79)	2.85	(0.66)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.39	(0.36)	0.40	(0.40)	0.48	(0.48)	0.42	(0.32)	1.68	(0.39)
Outdoors, along a roadway	6.41	(5.99)	8.04	(8.15)	10.62	(10.64)	7.90	(6.11)	32.97	(7.59)
In transit, motorcycle	0.10	(0.09)	0.03	(0.03)	0.03	(0.03)	0.10	(0.08)	0.26	(0.06)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.08	(0.08)	0.08	(0.08)	0.06	(0.06)	0.13	(0.10)	0.35	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	68.12	(63.73)	62.30	(63.14)	61.44	(61.57)	83.62	(64.75)	275.49	(63.41)
Indoors, office	0.06	(0.06)	0.17	(0.17)	0.29	(0.29)	0.08	(0.06)	0.60	(0.14)
Indoors, store	1.02	(0.95)	0.90	(0.91)	0.93	(0.93)	1.22	(0.94)	4.06	(0.93)
Indoors, restaurant	0.83	(0.78)	0.95	(0.96)	1.20	(1.20)	1.03	(0.80)	4.00	(0.92)
Indoors, mfg. facility	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.02)	0.05	(0.01)
Indoors, school	14.47	(13.53)	9.09	(9.22)	5.48	(5.49)	15.88	(12.29)	44.91	(10.34)
Indoors, church	0.42	(0.40)	0.32	(0.33)	0.30	(0.30)	0.49	(0.38)	1.53	(0.35)
Indoors, shopping mall	0.57	(0.53)	0.48	(0.49)	0.42	(0.42)	0.60	(0.47)	2.07	(0.48)
Indoors, auditorium	0.07	(0.07)	0.09	(0.09)	0.09	(0.09)	0.14	(0.11)	0.39	(0.09)
Indoors, health care facility	0.43	(0.40)	0.42	(0.43)	0.42	(0.42)	0.54	(0.42)	1.82	(0.42)
Indoors, public building	0.09	(0.09)	0.15	(0.16)	0.22	(0.23)	0.12	(0.09)	0.59	(0.14)
Indoors, other location	0.56	(0.53)	0.74	(0.75)	0.86	(0.87)	0.78	(0.60)	2.95	(0.68)
Indoors, not specified	0.00	(0.00)	0.01	(0.01)	0.03	(0.03)	0.00	(0.00)	0.04	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.72	(1.61)	2.92	(2.96)	4.32	(4.33)	2.11	(1.63)	11.07	(2.55)
Outdoors, school grounds	1.51	(1.41)	1.20	(1.21)	0.89	(0.90)	1.75	(1.36)	5.35	(1.23)
Outdoors, sports arena	0.10	(0.10)	0.19	(0.19)	0.27	(0.27)	0.14	(0.11)	0.70	(0.16)
Outdoors, park/golf course	0.10	(0.09)	0.44	(0.45)	0.82	(0.82)	0.15	(0.12)	1.51	(0.35)
Outdoors, other location	0.01	(0.01)	0.85	(0.86)	1.74	(1.74)	0.02	(0.02)	2.63	(0.60)
Outdoors, not specified	0.02	(0.02)	0.03	(0.03)	0.02	(0.02)	0.04	(0.03)	0.11	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.34	(13.43)	12.32	(11.68)	13.34	(12.68)	17.18	(12.10)	58.20	(12.46)
In transit, bus	0.45	(0.40)	0.08	(0.07)	0.00	(0.00)	0.39	(0.27)	0.92	(0.20)
In transit, truck	1.24	(1.09)	2.91	(2.76)	4.86	(4.62)	1.58	(1.11)	10.59	(2.27)
In transit, van	0.00	(0.00)	0.56	(0.53)	0.88	(0.84)	0.00	(0.00)	1.45	(0.31)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.61	(0.53)	1.01	(0.96)	1.04	(0.99)	0.91	(0.64)	3.57	(0.76)
Outdoors, along a roadway	10.90	(9.54)	9.91	(9.39)	7.03	(6.68)	14.68	(10.34)	42.52	(9.11)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.02	(0.02)	0.02	(0.02)	0.03	(0.02)	0.08	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	67.53	(59.12)	58.55	(55.47)	54.41	(51.71)	85.80	(60.43)	266.29	(57.03)
Indoors, office	2.70	(2.36)	2.74	(2.60)	2.91	(2.76)	3.20	(2.26)	11.55	(2.47)
Indoors, store	0.44	(0.39)	0.42	(0.40)	0.37	(0.35)	0.60	(0.42)	1.83	(0.39)
Indoors, restaurant	1.55	(1.36)	0.93	(0.88)	0.72	(0.68)	1.78	(1.25)	4.99	(1.07)
Indoors, mfg. facility	0.00	(0.00)	2.05	(1.95)	4.35	(4.13)	0.00	(0.00)	6.40	(1.37)
Indoors, school	6.67	(5.84)	3.61	(3.43)	1.67	(1.59)	7.45	(5.25)	19.41	(4.16)
Indoors, church	0.09	(0.08)	0.22	(0.20)	0.34	(0.32)	0.15	(0.11)	0.79	(0.17)
Indoors, shopping mall	0.36	(0.32)	0.28	(0.27)	0.15	(0.15)	0.59	(0.42)	1.39	(0.30)
Indoors, auditorium	0.03	(0.02)	0.34	(0.32)	0.78	(0.74)	0.02	(0.01)	1.16	(0.25)
Indoors, health care facility	0.23	(0.20)	0.19	(0.18)	0.13	(0.13)	0.32	(0.22)	0.87	(0.19)
Indoors, public building	1.02	(0.89)	0.77	(0.73)	0.41	(0.39)	1.48	(1.05)	3.69	(0.79)
Indoors, other location	3.29	(2.88)	2.23	(2.11)	1.94	(1.84)	3.62	(2.55)	11.07	(2.37)
Indoors, not specified	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.05	(0.01)
Outdoors, construction	0.00	(0.00)	0.22	(0.21)	0.47	(0.44)	0.00	(0.00)	0.69	(0.15)
Outdoors, residential grounds	0.46	(0.40)	1.11	(1.06)	1.40	(1.33)	0.61	(0.43)	3.59	(0.77)
Outdoors, school grounds	0.78	(0.68)	0.81	(0.77)	0.41	(0.39)	1.09	(0.77)	3.08	(0.66)
Outdoors, sports arena	0.15	(0.13)	0.50	(0.48)	0.78	(0.74)	0.08	(0.06)	1.51	(0.32)
Outdoors, park/golf course	0.09	(0.08)	0.11	(0.10)	0.19	(0.18)	0.09	(0.07)	0.48	(0.10)
Outdoors, other location	0.08	(0.07)	3.56	(3.37)	6.62	(6.29)	0.07	(0.05)	10.34	(2.21)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.20	(0.17)	0.03	(0.03)	0.00	(0.00)	0.21	(0.14)	0.43	(0.09)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.27	(13.15)	12.95	(12.43)	12.19	(11.97)	17.13	(12.94)	57.54	(12.66)
In transit, bus	0.21	(0.18)	0.22	(0.21)	0.32	(0.32)	0.19	(0.15)	0.94	(0.21)
In transit, truck	2.52	(2.17)	1.93	(1.86)	1.93	(1.90)	2.60	(1.97)	8.99	(1.98)
In transit, van	0.73	(0.63)	0.92	(0.88)	0.94	(0.92)	0.87	(0.66)	3.46	(0.76)
Indoors, public garage	1.00	(0.86)	0.72	(0.70)	0.44	(0.43)	1.10	(0.83)	3.26	(0.72)
Outdoors, in a parking lot	0.91	(0.78)	0.86	(0.82)	0.87	(0.86)	0.92	(0.70)	3.56	(0.78)
Outdoors, along a roadway	5.06	(4.35)	5.83	(5.60)	6.20	(6.09)	6.24	(4.72)	23.32	(5.13)
In transit, motorcycle	0.00	(0.00)	0.03	(0.03)	0.08	(0.08)	0.00	(0.00)	0.11	(0.02)
Indoors, service station	1.41	(1.21)	0.78	(0.74)	0.43	(0.42)	1.39	(1.05)	4.01	(0.88)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.38	(0.33)	0.35	(0.34)	0.22	(0.22)	0.63	(0.48)	1.59	(0.35)
Indoors, in a repair shop	0.92	(0.79)	0.15	(0.15)	0.01	(0.01)	0.66	(0.50)	1.74	(0.38)
Indoors, home	60.35	(51.98)	54.02	(51.86)	51.61	(50.69)	71.82	(54.27)	237.80	(52.33)
Indoors, office	10.35	(8.91)	8.39	(8.06)	7.64	(7.50)	10.46	(7.90)	36.83	(8.11)
Indoors, store	1.75	(1.51)	1.72	(1.65)	2.11	(2.07)	1.76	(1.33)	7.35	(1.62)
Indoors, restaurant	2.82	(2.43)	1.91	(1.83)	1.69	(1.66)	2.79	(2.11)	9.22	(2.03)
Indoors, mfg. facility	2.14	(1.85)	2.50	(2.40)	2.74	(2.69)	2.30	(1.74)	9.69	(2.13)
Indoors, school	1.08	(0.93)	0.76	(0.73)	0.55	(0.54)	1.13	(0.85)	3.52	(0.77)
Indoors, church	0.38	(0.33)	0.34	(0.33)	0.27	(0.27)	0.53	(0.40)	1.52	(0.33)
Indoors, shopping mall	0.38	(0.32)	0.24	(0.23)	0.15	(0.15)	0.35	(0.27)	1.12	(0.25)
Indoors, auditorium	0.10	(0.08)	0.04	(0.04)	0.05	(0.05)	0.08	(0.06)	0.27	(0.06)
Indoors, health care facility	0.64	(0.55)	0.65	(0.62)	0.60	(0.59)	0.72	(0.54)	2.60	(0.57)
Indoors, public building	0.23	(0.20)	0.49	(0.47)	0.81	(0.79)	0.21	(0.16)	1.75	(0.38)
Indoors, other location	4.00	(3.45)	3.37	(3.23)	3.53	(3.46)	4.37	(3.30)	15.27	(3.36)
Indoors, not specified	0.46	(0.40)	0.13	(0.13)	0.04	(0.04)	0.36	(0.27)	0.99	(0.22)
Outdoors, construction	0.85	(0.73)	0.78	(0.75)	0.57	(0.56)	0.91	(0.69)	3.11	(0.68)
Outdoors, residential grounds	0.49	(0.42)	1.62	(1.55)	2.70	(2.65)	0.62	(0.47)	5.43	(1.20)
Outdoors, school grounds	0.09	(0.08)	0.08	(0.08)	0.06	(0.06)	0.10	(0.08)	0.34	(0.07)
Outdoors, sports arena	0.03	(0.03)	0.10	(0.09)	0.20	(0.19)	0.03	(0.02)	0.35	(0.08)
Outdoors, park/golf course	0.12	(0.10)	0.32	(0.31)	0.43	(0.42)	0.19	(0.14)	1.06	(0.23)
Outdoors, other location	1.27	(1.10)	1.86	(1.79)	2.30	(2.25)	1.71	(1.30)	7.15	(1.57)
Outdoors, not specified	0.02	(0.02)	0.03	(0.03)	0.06	(0.06)	0.02	(0.02)	0.13	(0.03)
In transit, train	0.14	(0.12)	0.07	(0.07)	0.09	(0.09)	0.12	(0.09)	0.43	(0.10)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.81	(10.30)	9.65	(10.03)	9.67	(10.04)	12.69	(9.98)	42.82	(10.08)
In transit, bus	0.56	(0.54)	0.27	(0.28)	0.24	(0.25)	0.54	(0.43)	1.61	(0.38)
In transit, truck	0.81	(0.77)	0.12	(0.12)	0.00	(0.00)	0.58	(0.46)	1.51	(0.35)
In transit, van	0.02	(0.02)	0.09	(0.09)	0.10	(0.11)	0.05	(0.04)	0.26	(0.06)
Indoors, public garage	0.03	(0.03)	0.02	(0.02)	0.01	(0.01)	0.04	(0.03)	0.11	(0.03)
Outdoors, in a parking lot	0.34	(0.32)	0.50	(0.52)	0.67	(0.70)	0.40	(0.31)	1.91	(0.45)
Outdoors, along a roadway	3.36	(3.20)	4.50	(4.67)	5.75	(5.97)	4.09	(3.22)	17.70	(4.17)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.02	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.08	(0.08)	0.02	(0.02)	0.00	(0.01)	0.06	(0.05)	0.16	(0.04)
Indoors, in a repair shop	0.03	(0.03)	0.03	(0.03)	0.02	(0.02)	0.04	(0.03)	0.12	(0.03)
Indoors, home	78.00	(74.29)	69.35	(72.05)	66.96	(69.52)	94.79	(74.56)	309.09	(72.78)
Indoors, office	0.40	(0.38)	0.18	(0.19)	0.19	(0.19)	0.37	(0.29)	1.14	(0.27)
Indoors, store	1.52	(1.45)	2.01	(2.08)	2.75	(2.86)	1.75	(1.38)	8.03	(1.89)
Indoors, restaurant	1.89	(1.80)	1.45	(1.51)	1.35	(1.41)	2.15	(1.69)	6.84	(1.61)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.98	(1.89)	1.97	(2.05)	1.37	(1.42)	2.95	(2.32)	8.27	(1.95)
Indoors, church	0.35	(0.33)	0.34	(0.36)	0.29	(0.30)	0.51	(0.40)	1.49	(0.35)
Indoors, shopping mall	0.58	(0.55)	0.31	(0.32)	0.43	(0.44)	0.38	(0.30)	1.69	(0.40)
Indoors, auditorium	0.18	(0.17)	0.17	(0.18)	0.18	(0.18)	0.24	(0.19)	0.77	(0.18)
Indoors, health care facility	0.25	(0.24)	0.26	(0.27)	0.26	(0.27)	0.33	(0.26)	1.11	(0.26)
Indoors, public building	0.24	(0.23)	0.17	(0.18)	0.15	(0.16)	0.27	(0.21)	0.83	(0.19)
Indoors, other location	2.47	(2.35)	2.15	(2.24)	1.95	(2.02)	3.40	(2.67)	9.97	(2.35)
Indoors, not specified	0.00	(0.00)	0.03	(0.03)	0.07	(0.07)	0.00	(0.00)	0.10	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.65	(0.62)	1.30	(1.35)	1.70	(1.77)	0.91	(0.72)	4.57	(1.08)
Outdoors, school grounds	0.20	(0.19)	0.25	(0.26)	0.26	(0.27)	0.30	(0.24)	1.00	(0.24)
Outdoors, sports arena	0.10	(0.10)	0.09	(0.10)	0.15	(0.16)	0.06	(0.05)	0.41	(0.10)
Outdoors, park/golf course	0.04	(0.04)	0.42	(0.44)	0.69	(0.71)	0.09	(0.07)	1.24	(0.29)
Outdoors, other location	0.07	(0.07)	0.57	(0.59)	1.09	(1.13)	0.09	(0.07)	1.82	(0.43)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.03	(0.02)	0.00	(0.00)	0.00	(0.00)	0.02	(0.02)	0.05	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.94	(12.58)	11.09	(11.12)	10.88	(11.00)	15.40	(12.07)	51.31	(11.74)
In transit, bus	1.00	(0.90)	0.77	(0.77)	0.68	(0.68)	1.06	(0.83)	3.50	(0.80)
In transit, truck	0.72	(0.65)	0.67	(0.67)	0.62	(0.63)	0.89	(0.70)	2.90	(0.66)
In transit, van	0.01	(0.01)	0.06	(0.06)	0.14	(0.14)	0.00	(0.00)	0.21	(0.05)
Indoors, public garage	0.20	(0.18)	0.09	(0.09)	0.05	(0.05)	0.19	(0.15)	0.54	(0.12)
Outdoors, in a parking lot	0.43	(0.39)	0.58	(0.58)	0.68	(0.69)	0.55	(0.43)	2.23	(0.51)
Outdoors, along a roadway	3.25	(2.93)	3.86	(3.87)	4.69	(4.74)	3.84	(3.01)	15.64	(3.58)
In transit, motorcycle	0.00	(0.00)	0.44	(0.44)	0.94	(0.95)	0.00	(0.00)	1.39	(0.32)
Indoors, service station	0.02	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	62.96	(56.85)	58.02	(58.19)	56.94	(57.56)	75.72	(59.31)	253.65	(58.04)
Indoors, office	11.07	(9.99)	8.90	(8.93)	7.64	(7.73)	11.26	(8.82)	38.88	(8.90)
Indoors, store	3.02	(2.72)	2.63	(2.64)	2.31	(2.34)	3.43	(2.69)	11.39	(2.61)
Indoors, restaurant	3.59	(3.24)	2.58	(2.58)	2.64	(2.67)	3.53	(2.76)	12.34	(2.82)
Indoors, mfg. facility	0.92	(0.83)	0.71	(0.71)	0.46	(0.47)	1.04	(0.82)	3.14	(0.72)
Indoors, school	2.84	(2.57)	1.78	(1.78)	0.96	(0.97)	2.95	(2.31)	8.54	(1.95)
Indoors, church	0.47	(0.43)	0.42	(0.42)	0.35	(0.35)	0.62	(0.49)	1.86	(0.43)
Indoors, shopping mall	0.84	(0.76)	0.53	(0.53)	0.33	(0.34)	0.93	(0.73)	2.64	(0.60)
Indoors, auditorium	0.08	(0.07)	0.09	(0.09)	0.10	(0.10)	0.10	(0.08)	0.36	(0.08)
Indoors, health care facility	1.31	(1.18)	0.98	(0.98)	0.76	(0.77)	1.49	(1.16)	4.54	(1.04)
Indoors, public building	0.23	(0.21)	0.30	(0.30)	0.39	(0.40)	0.25	(0.19)	1.18	(0.27)
Indoors, other location	3.31	(2.99)	2.44	(2.45)	2.52	(2.55)	3.66	(2.87)	11.93	(2.73)
Indoors, not specified	0.04	(0.04)	0.03	(0.03)	0.01	(0.01)	0.04	(0.04)	0.13	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.24	(0.22)	1.28	(1.29)	2.17	(2.19)	0.33	(0.26)	4.02	(0.92)
Outdoors, school grounds	0.08	(0.07)	0.11	(0.11)	0.14	(0.14)	0.11	(0.08)	0.43	(0.10)
Outdoors, sports arena	0.01	(0.01)	0.12	(0.12)	0.22	(0.22)	0.01	(0.01)	0.37	(0.08)
Outdoors, park/golf course	0.05	(0.04)	0.31	(0.31)	0.56	(0.57)	0.06	(0.05)	0.98	(0.22)
Outdoors, other location	0.04	(0.04)	0.86	(0.86)	1.64	(1.66)	0.05	(0.04)	2.59	(0.59)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.07	(0.07)	0.06	(0.06)	0.03	(0.03)	0.10	(0.07)	0.25	(0.06)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.00	(9.71)	9.03	(9.27)	9.01	(9.01)	11.43	(8.94)	39.47	(9.22)
In transit, bus	0.62	(0.60)	0.98	(1.00)	1.87	(1.88)	0.37	(0.29)	3.85	(0.90)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.14	(0.14)	0.20	(0.21)	0.14	(0.14)	0.31	(0.25)	0.79	(0.19)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.66	(0.64)	0.99	(1.01)	1.47	(1.47)	0.83	(0.65)	3.96	(0.92)
Outdoors, along a roadway	2.69	(2.61)	3.00	(3.08)	3.03	(3.03)	4.01	(3.14)	12.73	(2.97)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.62	(0.60)	0.71	(0.73)	0.40	(0.40)	1.04	(0.81)	2.76	(0.65)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	78.33	(76.02)	66.60	(68.36)	61.84	(61.88)	97.69	(76.48)	304.45	(71.11)
Indoors, office	0.28	(0.27)	0.17	(0.17)	0.15	(0.15)	0.25	(0.20)	0.85	(0.20)
Indoors, store	1.17	(1.14)	1.56	(1.60)	2.02	(2.02)	1.30	(1.02)	6.05	(1.41)
Indoors, restaurant	0.94	(0.91)	0.50	(0.51)	0.46	(0.46)	0.85	(0.67)	2.76	(0.64)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.08	(1.05)	1.28	(1.31)	0.77	(0.78)	2.03	(1.59)	5.17	(1.21)
Indoors, church	0.38	(0.37)	0.33	(0.34)	0.17	(0.17)	0.52	(0.41)	1.40	(0.33)
Indoors, shopping mall	1.42	(1.38)	0.17	(0.18)	0.00	(0.00)	0.86	(0.67)	2.45	(0.57)
Indoors, auditorium	0.04	(0.04)	0.05	(0.05)	0.09	(0.09)	0.03	(0.03)	0.21	(0.05)
Indoors, health care facility	1.61	(1.56)	1.36	(1.40)	0.70	(0.70)	2.11	(1.65)	5.78	(1.35)
Indoors, public building	0.05	(0.05)	0.21	(0.21)	0.41	(0.41)	0.04	(0.03)	0.70	(0.16)
Indoors, other location	2.10	(2.03)	2.79	(2.86)	3.66	(3.66)	2.60	(2.03)	11.14	(2.60)
Indoors, not specified	0.12	(0.12)	0.02	(0.02)	0.00	(0.00)	0.11	(0.08)	0.25	(0.06)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.69	(0.67)	6.41	(6.57)	11.50	(11.51)	1.28	(1.00)	19.89	(4.64)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.10	(0.10)	0.23	(0.23)	0.00	(0.00)	0.33	(0.08)
Outdoors, park/golf course	0.11	(0.11)	0.31	(0.32)	0.64	(0.64)	0.07	(0.05)	1.13	(0.26)
Outdoors, other location	0.00	(0.00)	0.66	(0.68)	1.36	(1.36)	0.00	(0.00)	2.02	(0.47)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	16.67	(14.41)	13.88	(13.44)	13.27	(13.18)	19.07	(14.50)	62.89	(13.94)
In transit, bus	1.89	(1.64)	0.77	(0.74)	0.38	(0.37)	1.86	(1.41)	4.89	(1.08)
In transit, truck	3.31	(2.86)	2.84	(2.75)	1.94	(1.92)	3.62	(2.76)	11.71	(2.60)
In transit, van	0.35	(0.30)	0.57	(0.55)	0.75	(0.75)	0.42	(0.32)	2.09	(0.46)
Indoors, public garage	0.33	(0.29)	0.29	(0.28)	0.15	(0.14)	0.41	(0.31)	1.17	(0.26)
Outdoors, in a parking lot	0.65	(0.56)	0.60	(0.58)	0.58	(0.58)	0.74	(0.56)	2.56	(0.57)
Outdoors, along a roadway	4.13	(3.57)	4.67	(4.52)	5.78	(5.74)	4.62	(3.51)	19.21	(4.26)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.55	(0.48)	0.23	(0.22)	0.10	(0.10)	0.54	(0.41)	1.42	(0.31)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.01	(0.01)	0.02	(0.02)	0.01	(0.01)	0.05	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	57.34	(49.59)	51.90	(50.26)	49.69	(49.36)	67.89	(51.65)	226.82	(50.29)
Indoors, office	12.15	(10.50)	10.78	(10.44)	11.69	(11.61)	11.95	(9.09)	46.57	(10.33)
Indoors, store	3.07	(2.65)	1.99	(1.93)	1.30	(1.29)	3.36	(2.55)	9.71	(2.15)
Indoors, restaurant	2.61	(2.26)	2.33	(2.26)	2.35	(2.33)	3.06	(2.33)	10.35	(2.29)
Indoors, mfg. facility	1.79	(1.55)	3.23	(3.13)	3.88	(3.86)	2.62	(2.00)	11.53	(2.56)
Indoors, school	0.86	(0.74)	1.06	(1.02)	0.93	(0.92)	1.09	(0.83)	3.94	(0.87)
Indoors, church	0.48	(0.42)	0.43	(0.41)	0.39	(0.39)	0.64	(0.49)	1.94	(0.43)
Indoors, shopping mall	0.68	(0.59)	0.15	(0.15)	0.13	(0.13)	0.48	(0.36)	1.44	(0.32)
Indoors, auditorium	0.04	(0.04)	0.01	(0.01)	0.02	(0.02)	0.03	(0.03)	0.11	(0.02)
Indoors, health care facility	0.50	(0.43)	0.12	(0.12)	0.04	(0.04)	0.43	(0.33)	1.09	(0.24)
Indoors, public building	0.24	(0.21)	0.46	(0.45)	0.59	(0.59)	0.43	(0.33)	1.73	(0.38)
Indoors, other location	6.24	(5.39)	3.97	(3.84)	2.35	(2.33)	6.60	(5.02)	19.16	(4.25)
Indoors, not specified	0.45	(0.39)	0.12	(0.11)	0.03	(0.03)	0.36	(0.27)	0.95	(0.21)
Outdoors, construction	0.00	(0.00)	0.32	(0.31)	0.50	(0.50)	0.00	(0.00)	0.82	(0.18)
Outdoors, residential grounds	0.20	(0.17)	1.58	(1.53)	2.63	(2.61)	0.27	(0.20)	4.67	(1.04)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.17	(0.15)	0.35	(0.34)	0.44	(0.44)	0.26	(0.20)	1.22	(0.27)
Outdoors, other location	0.86	(0.74)	0.60	(0.58)	0.75	(0.74)	0.68	(0.52)	2.89	(0.64)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.05	(0.04)	0.01	(0.01)	0.00	(0.00)	0.04	(0.03)	0.09	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.59	(7.57)	6.40	(6.93)	6.78	(7.27)	8.70	(7.18)	29.47	(7.24)
In transit, bus	0.28	(0.28)	0.17	(0.18)	0.13	(0.14)	0.29	(0.24)	0.86	(0.21)
In transit, truck	0.47	(0.47)	0.07	(0.07)	0.00	(0.00)	0.31	(0.26)	0.85	(0.21)
In transit, van	0.25	(0.25)	0.29	(0.32)	0.19	(0.20)	0.53	(0.44)	1.26	(0.31)
Indoors, public garage	0.04	(0.04)	0.01	(0.01)	0.00	(0.00)	0.04	(0.03)	0.09	(0.02)
Outdoors, in a parking lot	0.25	(0.25)	0.45	(0.48)	0.62	(0.66)	0.33	(0.27)	1.65	(0.40)
Outdoors, along a roadway	2.92	(2.91)	2.94	(3.18)	3.62	(3.88)	3.26	(2.69)	12.73	(3.13)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	80.67	(80.50)	72.62	(78.59)	69.80	(74.87)	98.24	(81.06)	321.34	(78.95)
Indoors, office	0.32	(0.32)	0.26	(0.28)	0.21	(0.23)	0.36	(0.30)	1.16	(0.28)
Indoors, store	1.40	(1.40)	1.17	(1.26)	1.16	(1.24)	1.61	(1.33)	5.34	(1.31)
Indoors, restaurant	1.34	(1.33)	1.67	(1.81)	2.06	(2.20)	1.70	(1.40)	6.76	(1.66)
Indoors, mfg. facility	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, school	0.24	(0.24)	0.21	(0.23)	0.17	(0.19)	0.42	(0.34)	1.04	(0.26)
Indoors, church	0.57	(0.57)	0.55	(0.60)	0.43	(0.46)	0.80	(0.66)	2.35	(0.58)
Indoors, shopping mall	0.74	(0.74)	0.74	(0.80)	0.79	(0.85)	0.86	(0.71)	3.14	(0.77)
Indoors, auditorium	0.02	(0.02)	0.01	(0.01)	0.01	(0.01)	0.02	(0.02)	0.06	(0.02)
Indoors, health care facility	0.31	(0.31)	0.40	(0.44)	0.60	(0.64)	0.33	(0.27)	1.64	(0.40)
Indoors, public building	0.15	(0.15)	0.18	(0.20)	0.16	(0.17)	0.25	(0.21)	0.74	(0.18)
Indoors, other location	1.68	(1.68)	1.55	(1.67)	2.00	(2.15)	1.90	(1.57)	7.13	(1.75)
Indoors, not specified	0.13	(0.13)	0.02	(0.02)	0.00	(0.00)	0.12	(0.10)	0.27	(0.07)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.73	(0.72)	2.01	(2.18)	3.11	(3.33)	1.03	(0.85)	6.88	(1.69)
Outdoors, school grounds	0.02	(0.02)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.04	(0.01)
Outdoors, sports arena	0.00	(0.00)	0.05	(0.05)	0.12	(0.12)	0.00	(0.00)	0.16	(0.04)
Outdoors, park/golf course	0.00	(0.00)	0.30	(0.33)	0.64	(0.69)	0.00	(0.00)	0.95	(0.23)
Outdoors, other location	0.03	(0.03)	0.31	(0.34)	0.65	(0.69)	0.04	(0.03)	1.02	(0.25)
Outdoors, not specified	0.05	(0.05)	0.01	(0.01)	0.00	(0.00)	0.04	(0.03)	0.10	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.69	(10.82)	9.53	(9.75)	9.98	(10.29)	12.65	(10.13)	43.84	(10.25)
In transit, bus	1.14	(1.05)	0.69	(0.71)	0.57	(0.59)	1.20	(0.96)	3.60	(0.84)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.32	(0.29)	0.12	(0.12)	0.04	(0.04)	0.31	(0.25)	0.79	(0.18)
Indoors, public garage	0.04	(0.04)	0.03	(0.03)	0.01	(0.01)	0.05	(0.04)	0.13	(0.03)
Outdoors, in a parking lot	0.50	(0.46)	0.77	(0.79)	1.21	(1.25)	0.50	(0.40)	2.98	(0.70)
Outdoors, along a roadway	3.34	(3.09)	3.49	(3.57)	4.13	(4.26)	3.78	(3.03)	14.74	(3.45)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.04	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	63.97	(59.24)	58.78	(60.11)	58.05	(59.86)	76.21	(61.04)	257.01	(60.10)
Indoors, office	10.98	(10.17)	7.91	(8.09)	5.70	(5.87)	11.32	(9.06)	35.91	(8.40)
Indoors, store	2.12	(1.96)	2.26	(2.31)	2.36	(2.43)	2.47	(1.98)	9.21	(2.15)
Indoors, restaurant	3.67	(3.40)	3.44	(3.52)	2.90	(2.99)	4.67	(3.74)	14.68	(3.43)
Indoors, mfg. facility	0.00	(0.00)	1.87	(1.91)	3.64	(3.75)	0.00	(0.00)	5.50	(1.29)
Indoors, school	2.32	(2.14)	1.58	(1.62)	1.20	(1.23)	2.31	(1.85)	7.41	(1.73)
Indoors, church	0.52	(0.48)	0.56	(0.57)	0.67	(0.70)	0.57	(0.46)	2.32	(0.54)
Indoors, shopping mall	0.91	(0.84)	0.97	(0.99)	0.58	(0.60)	1.22	(0.98)	3.68	(0.86)
Indoors, auditorium	0.02	(0.02)	0.03	(0.03)	0.02	(0.02)	0.05	(0.04)	0.12	(0.03)
Indoors, health care facility	1.63	(1.51)	1.42	(1.46)	1.01	(1.04)	1.94	(1.55)	6.00	(1.40)
Indoors, public building	0.12	(0.11)	0.10	(0.11)	0.13	(0.13)	0.10	(0.08)	0.44	(0.10)
Indoors, other location	4.23	(3.91)	2.86	(2.92)	2.73	(2.81)	4.80	(3.84)	14.61	(3.42)
Indoors, not specified	0.01	(0.01)	0.14	(0.14)	0.28	(0.29)	0.02	(0.02)	0.45	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.30	(0.28)	0.83	(0.85)	1.20	(1.23)	0.50	(0.40)	2.83	(0.66)
Outdoors, school grounds	0.08	(0.07)	0.10	(0.10)	0.07	(0.08)	0.10	(0.08)	0.35	(0.08)
Outdoors, sports arena	0.03	(0.03)	0.12	(0.13)	0.25	(0.26)	0.02	(0.01)	0.42	(0.10)
Outdoors, park/golf course	0.02	(0.02)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
Outdoors, other location	0.04	(0.03)	0.17	(0.18)	0.27	(0.28)	0.07	(0.05)	0.54	(0.13)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.62	(13.86)	13.40	(13.41)	12.23	(12.14)	18.30	(14.28)	58.55	(13.48)
In transit, bus	0.88	(0.83)	0.86	(0.86)	0.44	(0.44)	1.20	(0.93)	3.37	(0.78)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Indoors, public garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.01)
Outdoors, in a parking lot	0.48	(0.46)	1.07	(1.07)	1.68	(1.67)	0.66	(0.51)	3.89	(0.90)
Outdoors, along a roadway	3.03	(2.87)	6.58	(6.59)	9.46	(9.39)	4.39	(3.43)	23.46	(5.40)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.05	(0.05)	0.09	(0.09)	0.00	(0.00)	0.15	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.05	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	73.09	(69.28)	64.42	(64.48)	63.03	(62.59)	86.89	(67.79)	287.43	(66.18)
Indoors, office	3.21	(3.04)	2.14	(2.15)	1.17	(1.16)	4.02	(3.14)	10.54	(2.43)
Indoors, store	0.69	(0.66)	0.77	(0.77)	1.02	(1.01)	0.83	(0.64)	3.31	(0.76)
Indoors, restaurant	2.28	(2.16)	2.62	(2.62)	2.69	(2.67)	3.17	(2.47)	10.76	(2.48)
Indoors, mfg. facility	0.97	(0.92)	0.60	(0.60)	0.27	(0.27)	1.09	(0.85)	2.94	(0.68)
Indoors, school	0.31	(0.29)	0.11	(0.11)	0.15	(0.14)	0.26	(0.20)	0.82	(0.19)
Indoors, church	0.58	(0.55)	0.60	(0.60)	0.46	(0.46)	0.88	(0.69)	2.53	(0.58)
Indoors, shopping mall	0.82	(0.78)	0.94	(0.94)	1.57	(1.55)	0.70	(0.54)	4.02	(0.93)
Indoors, auditorium	0.35	(0.33)	0.35	(0.35)	0.23	(0.23)	0.69	(0.54)	1.62	(0.37)
Indoors, health care facility	0.17	(0.16)	0.43	(0.43)	0.68	(0.68)	0.21	(0.16)	1.49	(0.34)
Indoors, public building	0.07	(0.07)	0.13	(0.13)	0.20	(0.20)	0.07	(0.06)	0.47	(0.11)
Indoors, other location	1.57	(1.49)	1.43	(1.43)	0.85	(0.85)	2.21	(1.73)	6.07	(1.40)
Indoors, not specified	0.00	(0.00)	0.07	(0.07)	0.14	(0.14)	0.00	(0.00)	0.21	(0.05)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.25	(1.18)	2.34	(2.35)	3.46	(3.43)	1.24	(0.97)	8.29	(1.91)
Outdoors, school grounds	0.29	(0.28)	0.24	(0.24)	0.13	(0.13)	0.48	(0.37)	1.14	(0.26)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.53	(0.50)	0.39	(0.39)	0.18	(0.18)	0.61	(0.48)	1.71	(0.39)
Outdoors, other location	0.00	(0.00)	0.24	(0.24)	0.48	(0.48)	0.00	(0.00)	0.72	(0.17)
Outdoors, not specified	0.06	(0.06)	0.07	(0.07)	0.03	(0.03)	0.08	(0.07)	0.25	(0.06)
In transit, train	0.21	(0.20)	0.04	(0.04)	0.00	(0.00)	0.18	(0.14)	0.43	(0.10)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.54	(7.46)	7.49	(7.97)	8.87	(9.40)	8.24	(6.74)	32.14	(7.81)
In transit, bus	0.22	(0.22)	0.36	(0.38)	0.38	(0.40)	0.30	(0.24)	1.25	(0.30)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.07	(0.07)	0.01	(0.01)	0.00	(0.00)	0.06	(0.05)	0.14	(0.03)
Indoors, public garage	0.03	(0.03)	0.06	(0.07)	0.13	(0.13)	0.03	(0.02)	0.25	(0.06)
Outdoors, in a parking lot	0.12	(0.12)	0.23	(0.25)	0.36	(0.38)	0.14	(0.12)	0.85	(0.21)
Outdoors, along a roadway	2.49	(2.46)	3.12	(3.32)	4.24	(4.49)	2.70	(2.21)	12.54	(3.05)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.02	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	81.19	(80.36)	74.17	(78.94)	71.38	(75.64)	100.88	(82.51)	327.62	(79.60)
Indoors, office	0.57	(0.56)	0.15	(0.16)	0.09	(0.09)	0.50	(0.41)	1.31	(0.32)
Indoors, store	0.66	(0.65)	1.58	(1.68)	2.84	(3.01)	0.65	(0.53)	5.74	(1.39)
Indoors, restaurant	1.34	(1.33)	1.55	(1.65)	1.59	(1.68)	1.45	(1.19)	5.93	(1.44)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.01	(0.02)	0.03	(0.03)	0.00	(0.00)	0.05	(0.01)
Indoors, church	1.22	(1.21)	0.74	(0.79)	0.52	(0.55)	1.27	(1.04)	3.75	(0.91)
Indoors, shopping mall	1.44	(1.43)	1.56	(1.66)	0.84	(0.89)	2.03	(1.66)	5.86	(1.42)
Indoors, auditorium	0.04	(0.04)	0.04	(0.05)	0.02	(0.02)	0.05	(0.04)	0.16	(0.04)
Indoors, health care facility	0.56	(0.55)	0.24	(0.25)	0.12	(0.13)	0.53	(0.43)	1.45	(0.35)
Indoors, public building	0.17	(0.17)	0.19	(0.20)	0.16	(0.17)	0.22	(0.18)	0.74	(0.18)
Indoors, other location	3.15	(3.12)	1.55	(1.65)	1.20	(1.28)	2.89	(2.36)	8.78	(2.13)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.17	(0.17)	0.64	(0.68)	1.20	(1.28)	0.18	(0.14)	2.19	(0.53)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.07	(0.07)	0.12	(0.13)	0.11	(0.11)	0.15	(0.13)	0.45	(0.11)
Outdoors, park/golf course	0.00	(0.00)	0.05	(0.05)	0.10	(0.10)	0.00	(0.00)	0.15	(0.04)
Outdoors, other location	0.00	(0.00)	0.08	(0.09)	0.17	(0.18)	0.00	(0.00)	0.25	(0.06)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	9.21	(6.97)	7.45	(6.27)	7.91	(6.68)	9.61	(6.37)	34.18	(6.57)
In transit, bus	0.00	(0.00)	0.15	(0.12)	0.31	(0.26)	0.00	(0.00)	0.45	(0.09)
In transit, truck	9.76	(7.39)	8.53	(7.18)	9.81	(8.28)	10.66	(7.07)	38.76	(7.45)
In transit, van	0.56	(0.42)	0.11	(0.09)	0.00	(0.00)	0.48	(0.32)	1.15	(0.22)
Indoors, public garage	2.79	(2.11)	1.63	(1.37)	0.74	(0.63)	3.28	(2.18)	8.44	(1.62)
Outdoors, in a parking lot	1.46	(1.10)	1.60	(1.35)	1.40	(1.18)	1.77	(1.17)	6.23	(1.20)
Outdoors, along a roadway	15.55	(11.78)	18.33	(15.43)	21.63	(18.25)	17.89	(11.87)	73.40	(14.11)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	3.99	(3.02)	0.90	(0.76)	0.26	(0.22)	3.22	(2.14)	8.38	(1.61)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.86	(0.65)	0.12	(0.10)	0.02	(0.02)	0.61	(0.40)	1.61	(0.31)
Indoors, in a repair shop	0.00	(0.00)	0.05	(0.05)	0.12	(0.10)	0.00	(0.00)	0.17	(0.03)
Indoors, home	53.32	(40.37)	48.69	(40.99)	44.70	(37.72)	66.99	(44.43)	213.69	(41.08)
Indoors, office	2.29	(1.73)	1.21	(1.02)	1.46	(1.23)	1.96	(1.30)	6.91	(1.33)
Indoors, store	0.68	(0.51)	0.27	(0.23)	0.15	(0.13)	0.59	(0.39)	1.69	(0.33)
Indoors, restaurant	2.23	(1.69)	1.39	(1.17)	1.13	(0.95)	2.66	(1.76)	7.41	(1.42)
Indoors, mfg. facility	1.62	(1.22)	4.57	(3.84)	6.87	(5.79)	2.06	(1.37)	15.11	(2.90)
Indoors, school	0.63	(0.48)	0.63	(0.53)	0.33	(0.28)	0.84	(0.56)	2.44	(0.47)
Indoors, church	1.02	(0.77)	0.34	(0.29)	0.16	(0.14)	0.89	(0.59)	2.41	(0.46)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.10	(0.07)	0.23	(0.20)	0.60	(0.51)	0.06	(0.04)	0.99	(0.19)
Indoors, health care facility	0.00	(0.00)	0.19	(0.16)	0.31	(0.26)	0.00	(0.00)	0.50	(0.10)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	3.54	(2.68)	1.02	(0.86)	0.38	(0.32)	3.10	(2.06)	8.05	(1.55)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	7.70	(5.83)	8.31	(6.99)	8.74	(7.38)	7.28	(4.83)	32.03	(6.16)
Outdoors, residential grounds	1.19	(0.90)	1.28	(1.08)	1.05	(0.89)	1.42	(0.94)	4.94	(0.95)
Outdoors, school grounds	0.07	(0.05)	0.07	(0.06)	0.04	(0.03)	0.09	(0.06)	0.26	(0.05)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.31	(0.24)	0.36	(0.31)	0.22	(0.19)	0.47	(0.31)	1.37	(0.26)
Outdoors, other location	13.21	(10.00)	11.36	(9.56)	10.15	(8.57)	14.83	(9.83)	49.54	(9.53)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	5.84	(5.20)	6.85	(6.68)	7.98	(7.73)	7.70	(5.68)	28.36	(6.25)
In transit, bus	4.06	(3.61)	2.43	(2.37)	1.31	(1.27)	4.48	(3.31)	12.28	(2.71)
In transit, truck	0.05	(0.04)	0.13	(0.13)	0.18	(0.18)	0.10	(0.07)	0.46	(0.10)
In transit, van	0.25	(0.22)	0.17	(0.17)	0.18	(0.17)	0.28	(0.21)	0.88	(0.19)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.58	(0.52)	0.47	(0.46)	0.50	(0.48)	0.59	(0.43)	2.14	(0.47)
Outdoors, along a roadway	11.15	(9.92)	11.44	(11.16)	14.06	(13.64)	13.32	(9.83)	49.97	(11.02)
In transit, motorcycle	0.29	(0.26)	0.07	(0.07)	0.02	(0.02)	0.30	(0.22)	0.68	(0.15)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.03)	0.04	(0.04)	0.04	(0.04)	0.04	(0.03)	0.15	(0.03)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	59.92	(53.33)	56.35	(54.98)	56.69	(54.97)	74.32	(54.86)	247.28	(54.53)
Indoors, office	0.15	(0.14)	0.19	(0.19)	0.34	(0.33)	0.14	(0.11)	0.83	(0.18)
Indoors, store	1.12	(1.00)	0.89	(0.87)	1.03	(1.00)	1.27	(0.94)	4.32	(0.95)
Indoors, restaurant	0.77	(0.69)	1.11	(1.09)	1.26	(1.22)	1.17	(0.86)	4.31	(0.95)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	19.36	(17.23)	11.61	(11.33)	6.25	(6.06)	21.29	(15.72)	58.51	(12.90)
Indoors, church	0.52	(0.47)	0.41	(0.40)	0.38	(0.37)	0.59	(0.43)	1.90	(0.42)
Indoors, shopping mall	0.83	(0.74)	0.50	(0.49)	0.35	(0.34)	0.75	(0.55)	2.43	(0.54)
Indoors, auditorium	0.07	(0.06)	0.10	(0.10)	0.10	(0.10)	0.13	(0.10)	0.40	(0.09)
Indoors, health care facility	0.36	(0.32)	0.37	(0.36)	0.26	(0.26)	0.56	(0.42)	1.56	(0.34)
Indoors, public building	0.31	(0.27)	0.28	(0.27)	0.28	(0.27)	0.35	(0.26)	1.22	(0.27)
Indoors, other location	0.84	(0.75)	0.79	(0.77)	0.79	(0.76)	0.96	(0.71)	3.37	(0.74)
Indoors, not specified	0.00	(0.00)	0.01	(0.01)	0.03	(0.03)	0.00	(0.00)	0.04	(0.01)
Outdoors, construction	0.00	(0.00)	0.04	(0.04)	0.08	(0.08)	0.00	(0.00)	0.12	(0.03)
Outdoors, residential grounds	2.22	(1.97)	3.48	(3.39)	5.20	(5.04)	2.69	(1.98)	13.58	(3.00)
Outdoors, school grounds	3.16	(2.82)	2.40	(2.34)	1.47	(1.42)	3.76	(2.78)	10.80	(2.38)
Outdoors, sports arena	0.33	(0.29)	0.43	(0.42)	0.51	(0.49)	0.42	(0.31)	1.68	(0.37)
Outdoors, park/golf course	0.10	(0.09)	0.61	(0.60)	1.14	(1.10)	0.18	(0.13)	2.03	(0.45)
Outdoors, other location	0.04	(0.04)	1.33	(1.30)	2.70	(2.62)	0.07	(0.05)	4.14	(0.91)
Outdoors, not specified	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.02	(5.94)	5.96	(6.32)	7.16	(7.54)	6.44	(5.31)	25.59	(6.21)
In transit, bus	1.56	(1.54)	1.20	(1.28)	0.67	(0.71)	1.87	(1.54)	5.31	(1.29)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.32	(0.32)	0.40	(0.43)	0.26	(0.28)	0.74	(0.61)	1.73	(0.42)
Indoors, public garage	0.00	(0.00)	0.02	(0.02)	0.04	(0.04)	0.00	(0.00)	0.05	(0.01)
Outdoors, in a parking lot	0.31	(0.31)	0.33	(0.35)	0.42	(0.44)	0.34	(0.28)	1.40	(0.34)
Outdoors, along a roadway	2.87	(2.83)	3.68	(3.90)	5.24	(5.51)	3.21	(2.65)	15.00	(3.64)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.02)	0.03	(0.03)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.10	(0.10)	0.06	(0.07)	0.04	(0.04)	0.11	(0.09)	0.31	(0.07)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	75.46	(74.36)	68.60	(72.75)	67.49	(71.06)	91.71	(75.63)	303.25	(73.60)
Indoors, office	3.46	(3.41)	2.74	(2.90)	2.18	(2.29)	3.76	(3.11)	12.14	(2.95)
Indoors, store	0.95	(0.93)	0.95	(1.00)	1.20	(1.27)	0.96	(0.79)	4.06	(0.99)
Indoors, restaurant	2.20	(2.17)	1.84	(1.95)	2.01	(2.12)	2.17	(1.79)	8.23	(2.00)
Indoors, mfg. facility	1.18	(1.17)	1.07	(1.13)	0.88	(0.93)	1.35	(1.11)	4.48	(1.09)
Indoors, school	3.88	(3.83)	2.67	(2.84)	1.52	(1.60)	4.29	(3.54)	12.37	(3.00)
Indoors, church	0.78	(0.77)	0.66	(0.70)	0.43	(0.45)	1.13	(0.93)	3.00	(0.73)
Indoors, shopping mall	0.36	(0.35)	0.76	(0.81)	0.81	(0.85)	0.48	(0.40)	2.41	(0.59)
Indoors, auditorium	0.03	(0.03)	0.02	(0.02)	0.01	(0.01)	0.04	(0.04)	0.11	(0.03)
Indoors, health care facility	0.48	(0.48)	0.36	(0.38)	0.36	(0.38)	0.49	(0.41)	1.70	(0.41)
Indoors, public building	0.03	(0.03)	0.17	(0.18)	0.32	(0.33)	0.04	(0.03)	0.56	(0.14)
Indoors, other location	0.14	(0.13)	0.44	(0.47)	0.73	(0.77)	0.20	(0.16)	1.51	(0.37)
Indoors, not specified	0.04	(0.04)	0.13	(0.14)	0.27	(0.29)	0.02	(0.02)	0.47	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.61	(0.60)	1.47	(1.56)	2.19	(2.30)	1.05	(0.87)	5.32	(1.29)
Outdoors, school grounds	0.54	(0.53)	0.47	(0.50)	0.24	(0.25)	0.71	(0.58)	1.96	(0.47)
Outdoors, sports arena	0.01	(0.01)	0.02	(0.02)	0.05	(0.05)	0.01	(0.01)	0.09	(0.02)
Outdoors, park/golf course	0.11	(0.11)	0.07	(0.08)	0.10	(0.11)	0.09	(0.08)	0.38	(0.09)
Outdoors, other location	0.03	(0.03)	0.17	(0.18)	0.32	(0.33)	0.03	(0.03)	0.54	(0.13)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

St. Louis: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.76	(10.80)	9.64	(9.73)	9.53	(9.62)	13.38	(10.33)	44.32	(10.15)
In transit, bus	1.14	(1.05)	0.80	(0.80)	0.57	(0.58)	1.27	(0.98)	3.78	(0.87)
In transit, truck	1.06	(0.98)	0.77	(0.78)	0.71	(0.72)	1.13	(0.87)	3.67	(0.84)
In transit, van	0.35	(0.32)	0.43	(0.44)	0.42	(0.42)	0.53	(0.41)	1.73	(0.40)
Indoors, public garage	0.27	(0.25)	0.17	(0.17)	0.10	(0.10)	0.30	(0.23)	0.83	(0.19)
Outdoors, in a parking lot	0.50	(0.46)	0.59	(0.60)	0.72	(0.73)	0.57	(0.44)	2.39	(0.55)
Outdoors, along a roadway	4.37	(4.01)	5.64	(5.69)	7.07	(7.14)	5.43	(4.19)	22.52	(5.16)
In transit, motorcycle	0.02	(0.01)	0.07	(0.07)	0.15	(0.15)	0.02	(0.01)	0.26	(0.06)
Indoors, service station	0.31	(0.29)	0.16	(0.16)	0.08	(0.09)	0.32	(0.25)	0.88	(0.20)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.10	(0.09)	0.08	(0.09)	0.06	(0.06)	0.15	(0.12)	0.39	(0.09)
Indoors, in a repair shop	0.19	(0.18)	0.03	(0.04)	0.00	(0.00)	0.15	(0.12)	0.38	(0.09)
Indoors, home	66.64	(61.20)	61.15	(61.67)	60.06	(60.62)	81.18	(62.70)	269.03	(61.61)
Indoors, office	6.10	(5.60)	4.16	(4.19)	3.29	(3.32)	6.45	(4.98)	20.00	(4.58)
Indoors, store	1.82	(1.67)	1.65	(1.67)	1.75	(1.77)	2.07	(1.60)	7.29	(1.67)
Indoors, restaurant	2.36	(2.16)	1.81	(1.83)	1.80	(1.81)	2.58	(2.00)	8.55	(1.96)
Indoors, mfg. facility	0.73	(0.67)	0.83	(0.84)	0.92	(0.93)	0.88	(0.68)	3.36	(0.77)
Indoors, school	4.21	(3.87)	3.20	(3.23)	2.16	(2.18)	4.88	(3.77)	14.45	(3.31)
Indoors, church	0.44	(0.40)	0.39	(0.39)	0.35	(0.35)	0.57	(0.44)	1.74	(0.40)
Indoors, shopping mall	0.68	(0.63)	0.51	(0.51)	0.41	(0.41)	0.72	(0.55)	2.31	(0.53)
Indoors, auditorium	0.09	(0.08)	0.08	(0.08)	0.09	(0.09)	0.12	(0.09)	0.37	(0.09)
Indoors, health care facility	0.72	(0.66)	0.59	(0.59)	0.51	(0.52)	0.85	(0.66)	2.67	(0.61)
Indoors, public building	0.20	(0.19)	0.25	(0.26)	0.32	(0.33)	0.25	(0.19)	1.03	(0.24)
Indoors, other location	2.95	(2.71)	2.18	(2.20)	2.04	(2.06)	3.38	(2.61)	10.55	(2.42)
Indoors, not specified	0.14	(0.13)	0.06	(0.06)	0.06	(0.06)	0.12	(0.09)	0.38	(0.09)
Outdoors, construction	0.15	(0.13)	0.16	(0.16)	0.14	(0.15)	0.16	(0.13)	0.61	(0.14)
Outdoors, residential grounds	0.68	(0.63)	1.93	(1.94)	3.04	(3.07)	0.92	(0.71)	6.57	(1.51)
Outdoors, school grounds	0.39	(0.36)	0.40	(0.40)	0.33	(0.33)	0.50	(0.38)	1.62	(0.37)
Outdoors, sports arena	0.05	(0.05)	0.13	(0.13)	0.21	(0.21)	0.06	(0.04)	0.45	(0.10)
Outdoors, park/golf course	0.09	(0.08)	0.35	(0.35)	0.58	(0.59)	0.13	(0.10)	1.14	(0.26)
Outdoors, other location	0.30	(0.27)	0.90	(0.90)	1.52	(1.54)	0.37	(0.29)	3.09	(0.71)
Outdoors, not specified	0.01	(0.01)	0.02	(0.02)	0.02	(0.02)	0.02	(0.02)	0.07	(0.02)
In transit, train	0.06	(0.05)	0.03	(0.03)	0.02	(0.02)	0.06	(0.04)	0.16	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Caucasians

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.96	(8.61)	10.05	(9.23)	10.45	(9.78)	13.18	(9.05)	45.63	(9.12)
In transit, bus	1.82	(1.31)	1.02	(0.94)	0.61	(0.57)	1.85	(1.27)	5.29	(1.06)
In transit, truck	0.77	(0.55)	0.90	(0.83)	0.79	(0.74)	0.99	(0.68)	3.45	(0.69)
In transit, van	0.56	(0.41)	0.56	(0.51)	0.53	(0.49)	0.78	(0.54)	2.43	(0.49)
Indoors, public garage	0.23	(0.16)	0.11	(0.10)	0.07	(0.07)	0.21	(0.15)	0.62	(0.12)
Outdoors, in a parking lot	0.99	(0.71)	0.79	(0.73)	0.84	(0.78)	0.98	(0.68)	3.60	(0.72)
Outdoors, along a roadway	5.98	(4.30)	6.50	(5.97)	7.92	(7.41)	6.96	(4.78)	27.36	(5.47)
In transit, motorcycle	0.05	(0.03)	0.09	(0.08)	0.18	(0.17)	0.03	(0.02)	0.35	(0.07)
Indoors, service station	0.28	(0.20)	0.15	(0.14)	0.09	(0.08)	0.28	(0.19)	0.80	(0.16)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.12	(0.09)	0.08	(0.07)	0.05	(0.04)	0.14	(0.10)	0.39	(0.08)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.00)	0.02	(0.00)
Indoors, home	87.51	(63.02)	65.31	(59.97)	62.92	(58.88)	90.19	(61.97)	305.93	(61.17)
Indoors, office	4.15	(2.99)	3.42	(3.14)	3.24	(3.03)	4.18	(2.87)	14.99	(3.00)
Indoors, store	2.69	(1.94)	2.00	(1.84)	2.03	(1.90)	2.65	(1.82)	9.37	(1.87)
Indoors, restaurant	3.05	(2.20)	2.16	(1.99)	2.09	(1.96)	3.06	(2.10)	10.37	(2.07)
Indoors, mfg. facility	1.59	(1.15)	1.29	(1.18)	1.14	(1.06)	1.66	(1.14)	5.68	(1.14)
Indoors, school	8.51	(6.13)	5.16	(4.73)	3.02	(2.83)	8.75	(6.01)	25.44	(5.09)
Indoors, church	0.63	(0.46)	0.45	(0.41)	0.38	(0.36)	0.73	(0.50)	2.19	(0.44)
Indoors, shopping mall	0.92	(0.66)	0.62	(0.57)	0.51	(0.47)	0.86	(0.59)	2.91	(0.58)
Indoors, auditorium	0.11	(0.08)	0.11	(0.10)	0.11	(0.11)	0.16	(0.11)	0.48	(0.10)
Indoors, health care facility	1.00	(0.72)	0.68	(0.63)	0.51	(0.48)	1.10	(0.75)	3.29	(0.66)
Indoors, public building	0.33	(0.24)	0.33	(0.31)	0.40	(0.37)	0.37	(0.26)	1.43	(0.29)
Indoors, other location	2.74	(1.97)	2.38	(2.18)	2.00	(1.87)	3.05	(2.09)	10.17	(2.03)
Indoors, not specified	0.03	(0.02)	0.03	(0.03)	0.06	(0.05)	0.02	(0.01)	0.14	(0.03)
Outdoors, construction	0.29	(0.21)	0.27	(0.25)	0.19	(0.18)	0.30	(0.21)	1.05	(0.21)
Outdoors, residential grounds	1.26	(0.91)	2.29	(2.10)	3.66	(3.43)	1.54	(1.06)	8.76	(1.75)
Outdoors, school grounds	0.84	(0.60)	0.67	(0.62)	0.42	(0.39)	0.93	(0.64)	2.86	(0.57)
Outdoors, sports arena	0.04	(0.03)	0.14	(0.13)	0.24	(0.22)	0.04	(0.03)	0.46	(0.09)
Outdoors, park/golf course	0.15	(0.11)	0.43	(0.40)	0.72	(0.68)	0.22	(0.15)	1.53	(0.31)
Outdoors, other location	0.27	(0.19)	0.90	(0.82)	1.69	(1.58)	0.27	(0.19)	3.12	(0.62)
Outdoors, not specified	0.02	(0.02)	0.03	(0.02)	0.02	(0.02)	0.03	(0.02)	0.10	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=African americans

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.94	(7.75)	8.14	(6.50)	8.41	(6.96)	10.83	(6.89)	39.33	(7.06)
In transit, bus	3.48	(2.26)	3.89	(3.11)	3.05	(2.53)	4.82	(3.06)	15.24	(2.73)
In transit, truck	0.00	(0.00)	0.28	(0.22)	0.30	(0.25)	0.00	(0.00)	0.58	(0.10)
In transit, van	0.00	(0.00)	0.02	(0.02)	0.03	(0.03)	0.00	(0.00)	0.05	(0.01)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.90	(0.59)	0.72	(0.58)	1.10	(0.91)	0.63	(0.40)	3.35	(0.60)
Outdoors, along a roadway	4.26	(2.77)	6.99	(5.59)	10.20	(8.44)	4.67	(2.97)	26.12	(4.69)
In transit, motorcycle	0.14	(0.09)	0.13	(0.11)	0.07	(0.06)	0.24	(0.15)	0.58	(0.10)
Indoors, service station	0.00	(0.00)	0.04	(0.03)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.02	(0.02)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Indoors, home	108.39	(70.33)	84.36	(67.40)	78.89	(65.30)	110.27	(70.15)	381.92	(68.53)
Indoors, office	0.25	(0.16)	1.23	(0.98)	1.20	(0.99)	0.59	(0.37)	3.26	(0.58)
Indoors, store	0.93	(0.60)	1.16	(0.93)	1.68	(1.39)	1.06	(0.67)	4.83	(0.87)
Indoors, restaurant	1.84	(1.20)	0.38	(0.30)	0.26	(0.21)	1.23	(0.78)	3.71	(0.67)
Indoors, mfg. facility	2.17	(1.41)	0.60	(0.48)	0.37	(0.31)	1.37	(0.87)	4.50	(0.81)
Indoors, school	7.64	(4.96)	7.26	(5.80)	4.10	(3.39)	9.91	(6.30)	28.91	(5.19)
Indoors, church	2.29	(1.48)	1.35	(1.08)	1.34	(1.11)	2.19	(1.39)	7.16	(1.29)
Indoors, shopping mall	0.38	(0.24)	0.60	(0.48)	0.37	(0.31)	0.74	(0.47)	2.09	(0.37)
Indoors, auditorium	0.04	(0.03)	0.06	(0.05)	0.04	(0.03)	0.10	(0.06)	0.23	(0.04)
Indoors, health care facility	1.47	(0.95)	2.06	(1.65)	2.66	(2.20)	1.65	(1.05)	7.84	(1.41)
Indoors, public building	0.05	(0.04)	0.21	(0.16)	0.41	(0.34)	0.07	(0.05)	0.74	(0.13)
Indoors, other location	6.18	(4.01)	1.67	(1.33)	1.88	(1.55)	3.91	(2.49)	13.63	(2.45)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.66	(0.43)	1.94	(1.55)	2.45	(2.03)	1.14	(0.73)	6.20	(1.11)
Outdoors, school grounds	0.84	(0.54)	0.99	(0.79)	0.50	(0.41)	1.20	(0.76)	3.52	(0.63)
Outdoors, sports arena	0.24	(0.16)	0.35	(0.28)	0.21	(0.17)	0.57	(0.36)	1.37	(0.25)
Outdoors, park/golf course	0.00	(0.00)	0.08	(0.06)	0.06	(0.05)	0.00	(0.00)	0.14	(0.02)
Outdoors, other location	0.01	(0.01)	0.42	(0.33)	0.97	(0.80)	0.00	(0.00)	1.40	(0.25)
Outdoors, not specified	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.03	(0.00)
In transit, train	0.00	(0.00)	0.21	(0.17)	0.20	(0.17)	0.00	(0.00)	0.42	(0.07)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Hispanics

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.09	(7.05)	7.61	(6.59)	7.52	(6.76)	9.91	(6.62)	35.12	(6.76)
In transit, bus	2.48	(1.73)	2.75	(2.39)	2.28	(2.05)	3.33	(2.23)	10.84	(2.09)
In transit, truck	0.00	(0.00)	0.23	(0.20)	0.25	(0.22)	0.00	(0.00)	0.48	(0.09)
In transit, van	0.48	(0.33)	0.55	(0.48)	0.32	(0.29)	0.87	(0.58)	2.21	(0.43)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.81	(0.57)	0.75	(0.65)	1.00	(0.90)	0.69	(0.46)	3.25	(0.63)
Outdoors, along a roadway	7.56	(5.28)	10.65	(9.23)	11.37	(10.23)	9.86	(6.59)	39.44	(7.59)
In transit, motorcycle	0.09	(0.06)	0.09	(0.07)	0.05	(0.04)	0.16	(0.11)	0.38	(0.07)
Indoors, service station	0.00	(0.00)	0.03	(0.03)	0.03	(0.03)	0.00	(0.00)	0.06	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.02	(0.02)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Indoors, home	101.66	(70.97)	75.80	(65.64)	71.74	(64.55)	103.85	(69.44)	353.04	(67.98)
Indoors, office	0.35	(0.24)	1.24	(1.07)	1.13	(1.02)	0.69	(0.46)	3.41	(0.66)
Indoors, store	0.77	(0.54)	1.07	(0.93)	1.43	(1.28)	0.93	(0.62)	4.20	(0.81)
Indoors, restaurant	1.57	(1.10)	0.43	(0.37)	0.28	(0.25)	1.19	(0.80)	3.47	(0.67)
Indoors, mfg. facility	1.72	(1.20)	0.49	(0.42)	0.31	(0.28)	1.09	(0.73)	3.61	(0.69)
Indoors, school	5.69	(3.97)	4.84	(4.19)	2.71	(2.44)	6.92	(4.63)	20.16	(3.88)
Indoors, church	1.77	(1.23)	1.25	(1.08)	1.22	(1.09)	1.94	(1.30)	6.17	(1.19)
Indoors, shopping mall	0.30	(0.21)	0.48	(0.41)	0.29	(0.26)	0.60	(0.40)	1.67	(0.32)
Indoors, auditorium	0.03	(0.02)	0.05	(0.04)	0.03	(0.03)	0.08	(0.06)	0.19	(0.04)
Indoors, health care facility	1.13	(0.79)	1.64	(1.42)	2.14	(1.92)	1.34	(0.90)	6.25	(1.20)
Indoors, public building	0.04	(0.03)	0.16	(0.14)	0.31	(0.28)	0.06	(0.04)	0.58	(0.11)
Indoors, other location	5.18	(3.61)	1.60	(1.38)	1.61	(1.45)	3.63	(2.43)	12.02	(2.31)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.71	(0.50)	2.06	(1.78)	3.25	(2.93)	1.09	(0.73)	7.12	(1.37)
Outdoors, school grounds	0.53	(0.37)	0.63	(0.54)	0.32	(0.29)	0.77	(0.51)	2.24	(0.43)
Outdoors, sports arena	0.20	(0.14)	0.29	(0.25)	0.18	(0.16)	0.47	(0.32)	1.14	(0.22)
Outdoors, park/golf course	0.00	(0.00)	0.06	(0.05)	0.05	(0.04)	0.00	(0.00)	0.11	(0.02)
Outdoors, other location	0.07	(0.05)	0.52	(0.45)	1.14	(1.03)	0.08	(0.06)	1.82	(0.35)
Outdoors, not specified	0.00	(0.00)	0.01	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
In transit, train	0.00	(0.00)	0.18	(0.15)	0.18	(0.16)	0.00	(0.00)	0.36	(0.07)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Household income lt \$10K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	6.61	(4.47)	6.99	(5.79)	8.97	(7.74)	6.87	(4.49)	29.43	(5.48)
In transit, bus	1.97	(1.33)	1.17	(0.97)	0.56	(0.48)	1.98	(1.30)	5.68	(1.06)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.30	(0.25)	0.85	(0.73)	0.00	(0.00)	1.15	(0.21)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.81	(0.55)	1.17	(0.97)	0.99	(0.86)	1.35	(0.88)	4.32	(0.81)
Outdoors, along a roadway	6.50	(4.40)	6.76	(5.61)	6.09	(5.25)	8.24	(5.39)	27.59	(5.14)
In transit, motorcycle	0.00	(0.00)	0.09	(0.07)	0.21	(0.18)	0.00	(0.00)	0.30	(0.06)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.03	(0.03)	0.00	(0.00)	0.04	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	114.58	(77.52)	90.16	(74.77)	84.43	(72.87)	117.82	(77.03)	406.99	(75.77)
Indoors, office	0.28	(0.19)	0.09	(0.07)	0.09	(0.08)	0.21	(0.14)	0.67	(0.12)
Indoors, store	2.46	(1.66)	2.43	(2.02)	4.08	(3.52)	1.80	(1.18)	10.77	(2.01)
Indoors, restaurant	2.83	(1.91)	0.76	(0.63)	0.60	(0.52)	2.10	(1.37)	6.28	(1.17)
Indoors, mfg. facility	1.19	(0.81)	0.84	(0.70)	0.63	(0.54)	0.75	(0.49)	3.42	(0.64)
Indoors, school	6.45	(4.37)	4.62	(3.83)	2.18	(1.88)	7.26	(4.75)	20.51	(3.82)
Indoors, church	0.36	(0.25)	0.29	(0.24)	0.14	(0.12)	0.53	(0.35)	1.33	(0.25)
Indoors, shopping mall	0.68	(0.46)	0.80	(0.66)	0.38	(0.32)	0.98	(0.64)	2.83	(0.53)
Indoors, auditorium	0.08	(0.06)	0.17	(0.14)	0.19	(0.16)	0.17	(0.11)	0.62	(0.11)
Indoors, health care facility	0.30	(0.20)	0.40	(0.33)	0.35	(0.30)	0.41	(0.27)	1.45	(0.27)
Indoors, public building	0.47	(0.32)	0.14	(0.11)	0.07	(0.06)	0.25	(0.16)	0.92	(0.17)
Indoors, other location	1.06	(0.72)	1.00	(0.83)	0.93	(0.80)	0.92	(0.60)	3.91	(0.73)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.87	(0.59)	1.18	(0.97)	1.46	(1.26)	0.97	(0.64)	4.48	(0.83)
Outdoors, school grounds	0.18	(0.12)	0.21	(0.17)	0.10	(0.09)	0.24	(0.16)	0.73	(0.14)
Outdoors, sports arena	0.00	(0.00)	0.14	(0.12)	0.25	(0.22)	0.00	(0.00)	0.40	(0.07)
Outdoors, park/golf course	0.11	(0.07)	0.09	(0.07)	0.20	(0.17)	0.04	(0.02)	0.42	(0.08)
Outdoors, other location	0.01	(0.01)	0.78	(0.65)	2.10	(1.82)	0.02	(0.01)	2.91	(0.54)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Household income \$10K-\$25K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.13	(7.38)	10.01	(8.18)	9.88	(8.41)	12.57	(8.02)	43.59	(7.96)
In transit, bus	1.01	(0.67)	0.93	(0.76)	0.57	(0.49)	1.35	(0.86)	3.86	(0.71)
In transit, truck	0.70	(0.46)	1.16	(0.95)	0.87	(0.74)	0.82	(0.52)	3.55	(0.65)
In transit, van	0.10	(0.07)	0.15	(0.12)	0.12	(0.10)	0.22	(0.14)	0.59	(0.11)
Indoors, public garage	0.00	(0.00)	0.05	(0.04)	0.12	(0.10)	0.00	(0.00)	0.17	(0.03)
Outdoors, in a parking lot	1.83	(1.21)	1.16	(0.95)	1.49	(1.27)	1.41	(0.90)	5.89	(1.08)
Outdoors, along a roadway	7.01	(4.64)	8.35	(6.82)	10.64	(9.06)	7.87	(5.02)	33.87	(6.19)
In transit, motorcycle	0.00	(0.00)	0.70	(0.57)	1.51	(1.29)	0.00	(0.00)	2.21	(0.40)
Indoors, service station	0.00	(0.00)	0.06	(0.05)	0.13	(0.11)	0.01	(0.01)	0.20	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.13	(0.09)	0.13	(0.11)	0.07	(0.06)	0.19	(0.12)	0.52	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, home	97.70	(64.76)	75.58	(61.75)	71.89	(61.22)	99.94	(63.76)	345.11	(63.04)
Indoors, office	3.07	(2.03)	2.51	(2.05)	1.96	(1.67)	3.14	(2.00)	10.68	(1.95)
Indoors, store	2.14	(1.42)	2.31	(1.89)	2.63	(2.24)	2.51	(1.60)	9.59	(1.75)
Indoors, restaurant	5.99	(3.97)	3.48	(2.84)	2.39	(2.03)	5.86	(3.74)	17.72	(3.24)
Indoors, mfg. facility	2.71	(1.80)	1.79	(1.46)	1.09	(0.93)	2.75	(1.75)	8.34	(1.52)
Indoors, school	7.65	(5.07)	4.42	(3.61)	2.27	(1.93)	7.54	(4.81)	21.89	(4.00)
Indoors, church	0.63	(0.42)	0.58	(0.47)	0.51	(0.43)	0.79	(0.51)	2.51	(0.46)
Indoors, shopping mall	1.50	(1.00)	0.64	(0.53)	0.32	(0.27)	1.05	(0.67)	3.51	(0.64)
Indoors, auditorium	0.04	(0.03)	0.06	(0.05)	0.07	(0.06)	0.07	(0.05)	0.25	(0.05)
Indoors, health care facility	1.83	(1.21)	1.19	(0.97)	1.36	(1.16)	1.79	(1.14)	6.17	(1.13)
Indoors, public building	0.26	(0.17)	0.10	(0.08)	0.07	(0.06)	0.18	(0.12)	0.61	(0.11)
Indoors, other location	3.11	(2.06)	3.16	(2.58)	2.00	(1.71)	3.89	(2.48)	12.17	(2.22)
Indoors, not specified	0.02	(0.01)	0.03	(0.02)	0.03	(0.02)	0.01	(0.00)	0.08	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.14	(0.76)	2.01	(1.64)	3.04	(2.59)	1.51	(0.96)	7.70	(1.41)
Outdoors, school grounds	0.99	(0.66)	0.85	(0.69)	0.49	(0.42)	1.11	(0.71)	3.45	(0.63)
Outdoors, sports arena	0.00	(0.00)	0.13	(0.11)	0.22	(0.18)	0.00	(0.00)	0.35	(0.06)
Outdoors, park/golf course	0.08	(0.05)	0.52	(0.42)	1.20	(1.02)	0.13	(0.08)	1.93	(0.35)
Outdoors, other location	0.00	(0.00)	0.32	(0.26)	0.48	(0.41)	0.00	(0.00)	0.80	(0.15)
Outdoors, not specified	0.08	(0.05)	0.01	(0.01)	0.00	(0.00)	0.05	(0.03)	0.14	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Household income \$25K-\$50K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3$ -year, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	12.65	(8.80)	10.62	(9.26)	10.98	(9.80)	13.90	(9.25)	48.15	(9.25)
In transit, bus	1.90	(1.32)	0.99	(0.87)	0.67	(0.60)	1.88	(1.25)	5.45	(1.05)
In transit, truck	0.54	(0.38)	0.65	(0.57)	0.44	(0.40)	0.72	(0.48)	2.36	(0.45)
In transit, van	1.18	(0.82)	1.04	(0.91)	0.90	(0.80)	1.52	(1.01)	4.65	(0.89)
Indoors, public garage	0.55	(0.39)	0.20	(0.17)	0.08	(0.07)	0.50	(0.33)	1.33	(0.26)
Outdoors, in a parking lot	0.89	(0.62)	0.77	(0.68)	0.83	(0.74)	0.90	(0.60)	3.40	(0.65)
Outdoors, along a roadway	6.46	(4.49)	7.92	(6.91)	9.22	(8.23)	8.08	(5.38)	31.69	(6.08)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, service station	0.06	(0.04)	0.04	(0.03)	0.03	(0.03)	0.06	(0.04)	0.18	(0.04)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.20	(0.14)	0.09	(0.08)	0.05	(0.05)	0.20	(0.13)	0.55	(0.10)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	91.39	(63.58)	68.58	(59.84)	65.24	(58.19)	93.28	(62.05)	318.50	(61.16)
Indoors, office	4.32	(3.00)	3.89	(3.39)	3.80	(3.39)	4.63	(3.08)	16.63	(3.19)
Indoors, store	2.37	(1.65)	1.92	(1.67)	2.10	(1.87)	2.28	(1.51)	8.66	(1.66)
Indoors, restaurant	2.20	(1.53)	1.73	(1.51)	1.80	(1.61)	2.28	(1.52)	8.01	(1.54)
Indoors, mfg. facility	1.75	(1.21)	1.54	(1.35)	1.43	(1.28)	1.86	(1.24)	6.58	(1.26)
Indoors, school	7.01	(4.88)	4.22	(3.68)	2.49	(2.22)	7.05	(4.69)	20.78	(3.99)
Indoors, church	1.09	(0.76)	0.64	(0.56)	0.52	(0.46)	1.18	(0.79)	3.43	(0.66)
Indoors, shopping mall	0.92	(0.64)	0.51	(0.45)	0.47	(0.42)	0.78	(0.52)	2.68	(0.51)
Indoors, auditorium	0.12	(0.08)	0.10	(0.09)	0.08	(0.07)	0.18	(0.12)	0.48	(0.09)
Indoors, health care facility	0.90	(0.63)	0.69	(0.60)	0.47	(0.42)	1.02	(0.68)	3.08	(0.59)
Indoors, public building	0.34	(0.24)	0.46	(0.40)	0.60	(0.54)	0.45	(0.30)	1.86	(0.36)
Indoors, other location	3.50	(2.43)	2.43	(2.12)	2.06	(1.83)	3.52	(2.34)	11.51	(2.21)
Indoors, not specified	0.05	(0.03)	0.05	(0.04)	0.09	(0.08)	0.02	(0.02)	0.21	(0.04)
Outdoors, construction	0.66	(0.46)	0.60	(0.52)	0.41	(0.37)	0.69	(0.46)	2.36	(0.45)
Outdoors, residential grounds	1.29	(0.90)	2.64	(2.31)	3.86	(3.45)	1.74	(1.16)	9.54	(1.83)
Outdoors, school grounds	0.76	(0.53)	0.61	(0.54)	0.40	(0.36)	0.85	(0.57)	2.63	(0.50)
Outdoors, sports arena	0.01	(0.01)	0.11	(0.10)	0.22	(0.20)	0.02	(0.01)	0.36	(0.07)
Outdoors, park/golf course	0.14	(0.10)	0.34	(0.30)	0.45	(0.40)	0.21	(0.14)	1.15	(0.22)
Outdoors, other location	0.51	(0.35)	1.19	(1.04)	2.36	(2.10)	0.50	(0.33)	4.56	(0.88)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.03	(0.03)	0.03	(0.03)	0.00	(0.00)	0.06	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Household income \$50K-\$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.62	(11.02)	12.63	(11.29)	12.51	(11.39)	17.38	(11.71)	58.13	(11.36)
In transit, bus	1.97	(1.39)	1.39	(1.25)	0.74	(0.67)	2.27	(1.53)	6.38	(1.25)
In transit, truck	0.28	(0.20)	0.67	(0.60)	1.23	(1.12)	0.40	(0.27)	2.59	(0.51)
In transit, van	0.01	(0.00)	0.17	(0.15)	0.35	(0.32)	0.01	(0.01)	0.53	(0.10)
Indoors, public garage	0.03	(0.02)	0.03	(0.03)	0.03	(0.03)	0.04	(0.02)	0.13	(0.03)
Outdoors, in a parking lot	0.87	(0.61)	0.72	(0.64)	0.66	(0.61)	0.98	(0.66)	3.23	(0.63)
Outdoors, along a roadway	6.11	(4.31)	6.48	(5.79)	8.48	(7.72)	6.83	(4.60)	27.90	(5.45)
In transit, motorcycle	0.18	(0.13)	0.01	(0.01)	0.00	(0.00)	0.13	(0.09)	0.33	(0.06)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.02	(0.02)	0.05	(0.04)	0.03	(0.03)	0.03	(0.02)	0.14	(0.03)
Indoors, in a repair shop	0.02	(0.02)	0.02	(0.02)	0.01	(0.01)	0.03	(0.02)	0.09	(0.02)
Indoors, home	85.89	(60.60)	63.10	(56.43)	59.68	(54.35)	87.61	(59.03)	296.27	(57.88)
Indoors, office	6.66	(4.70)	5.11	(4.57)	4.99	(4.54)	6.49	(4.38)	23.24	(4.54)
Indoors, store	2.68	(1.89)	1.98	(1.77)	1.95	(1.78)	2.59	(1.75)	9.20	(1.80)
Indoors, restaurant	2.55	(1.80)	2.37	(2.12)	2.45	(2.23)	3.02	(2.04)	10.39	(2.03)
Indoors, mfg. facility	2.07	(1.46)	1.41	(1.26)	1.09	(0.99)	2.08	(1.40)	6.65	(1.30)
Indoors, school	8.75	(6.17)	5.61	(5.02)	2.70	(2.46)	9.46	(6.38)	26.52	(5.18)
Indoors, church	0.34	(0.24)	0.36	(0.32)	0.32	(0.29)	0.45	(0.31)	1.47	(0.29)
Indoors, shopping mall	0.86	(0.61)	1.08	(0.97)	0.97	(0.89)	1.16	(0.78)	4.08	(0.80)
Indoors, auditorium	0.07	(0.05)	0.12	(0.11)	0.19	(0.17)	0.09	(0.06)	0.47	(0.09)
Indoors, health care facility	0.84	(0.59)	0.74	(0.66)	0.83	(0.76)	0.97	(0.65)	3.38	(0.66)
Indoors, public building	0.26	(0.19)	0.25	(0.22)	0.20	(0.18)	0.35	(0.24)	1.06	(0.21)
Indoors, other location	3.22	(2.27)	2.16	(1.93)	1.72	(1.56)	3.11	(2.10)	10.20	(1.99)
Indoors, not specified	0.05	(0.03)	0.03	(0.03)	0.02	(0.02)	0.04	(0.03)	0.14	(0.03)
Outdoors, construction	0.00	(0.00)	0.03	(0.03)	0.04	(0.03)	0.00	(0.00)	0.07	(0.01)
Outdoors, residential grounds	1.24	(0.88)	2.81	(2.51)	5.40	(4.91)	1.39	(0.94)	10.83	(2.12)
Outdoors, school grounds	0.82	(0.58)	0.64	(0.58)	0.36	(0.33)	0.92	(0.62)	2.74	(0.54)
Outdoors, sports arena	0.06	(0.05)	0.21	(0.18)	0.25	(0.23)	0.11	(0.07)	0.63	(0.12)
Outdoors, park/golf course	0.21	(0.15)	0.62	(0.55)	1.12	(1.02)	0.36	(0.24)	2.31	(0.45)
Outdoors, other location	0.07	(0.05)	1.03	(0.92)	1.48	(1.35)	0.08	(0.06)	2.66	(0.52)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Household income gt \$75K

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.40	(6.06)	8.42	(7.79)	9.63	(9.07)	9.90	(6.80)	36.36	(7.29)
In transit, bus	0.90	(0.65)	0.15	(0.14)	0.21	(0.20)	0.60	(0.41)	1.86	(0.37)
In transit, truck	3.29	(2.37)	1.58	(1.46)	0.79	(0.74)	3.48	(2.39)	9.14	(1.83)
In transit, van	0.84	(0.61)	0.97	(0.90)	0.57	(0.54)	1.62	(1.11)	4.01	(0.80)
Indoors, public garage	0.00	(0.00)	0.02	(0.02)	0.02	(0.02)	0.00	(0.00)	0.05	(0.01)
Outdoors, in a parking lot	0.33	(0.23)	0.60	(0.56)	0.97	(0.91)	0.36	(0.25)	2.26	(0.45)
Outdoors, along a roadway	6.32	(4.56)	5.98	(5.53)	7.20	(6.78)	7.57	(5.20)	27.07	(5.43)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	1.76	(1.27)	0.15	(0.14)	0.00	(0.00)	1.12	(0.77)	3.03	(0.61)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	87.21	(62.88)	64.38	(59.58)	59.98	(56.47)	88.89	(61.02)	300.46	(60.25)
Indoors, office	3.87	(2.79)	3.55	(3.29)	3.71	(3.50)	3.54	(2.43)	14.68	(2.94)
Indoors, store	0.10	(0.07)	0.56	(0.52)	0.78	(0.74)	0.16	(0.11)	1.61	(0.32)
Indoors, restaurant	3.60	(2.60)	3.16	(2.93)	3.40	(3.20)	3.96	(2.72)	14.12	(2.83)
Indoors, mfg. facility	0.00	(0.00)	0.05	(0.05)	0.05	(0.05)	0.00	(0.00)	0.10	(0.02)
Indoors, school	13.12	(9.46)	6.76	(6.25)	6.21	(5.85)	11.88	(8.16)	37.97	(7.61)
Indoors, church	0.45	(0.32)	0.26	(0.24)	0.23	(0.21)	0.35	(0.24)	1.29	(0.26)
Indoors, shopping mall	0.13	(0.10)	0.16	(0.15)	0.08	(0.08)	0.18	(0.12)	0.56	(0.11)
Indoors, auditorium	0.26	(0.19)	0.31	(0.29)	0.20	(0.19)	0.57	(0.39)	1.34	(0.27)
Indoors, health care facility	0.68	(0.49)	0.43	(0.40)	0.22	(0.20)	0.82	(0.56)	2.14	(0.43)
Indoors, public building	0.00	(0.00)	0.28	(0.26)	0.79	(0.74)	0.00	(0.00)	1.07	(0.21)
Indoors, other location	1.92	(1.39)	3.27	(3.03)	2.71	(2.56)	4.17	(2.86)	12.08	(2.42)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.15	(0.14)	0.16	(0.15)	0.00	(0.00)	0.32	(0.06)
Outdoors, residential grounds	4.32	(3.11)	3.94	(3.64)	4.25	(4.00)	4.48	(3.08)	16.99	(3.41)
Outdoors, school grounds	0.79	(0.57)	1.10	(1.02)	0.81	(0.76)	1.28	(0.88)	3.98	(0.80)
Outdoors, sports arena	0.00	(0.00)	0.07	(0.07)	0.22	(0.20)	0.00	(0.00)	0.29	(0.06)
Outdoors, park/golf course	0.41	(0.29)	1.06	(0.98)	1.53	(1.44)	0.75	(0.51)	3.75	(0.75)
Outdoors, other location	0.00	(0.00)	0.67	(0.62)	1.49	(1.40)	0.00	(0.00)	2.16	(0.43)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Children, 0 to 17

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	8.21	(5.83)	7.28	(6.50)	8.14	(7.38)	9.06	(6.17)	32.69	(6.41)
In transit, bus	3.24	(2.30)	2.09	(1.86)	1.11	(1.01)	3.57	(2.43)	10.01	(1.96)
In transit, truck	0.23	(0.17)	0.19	(0.17)	0.31	(0.28)	0.20	(0.13)	0.93	(0.18)
In transit, van	0.77	(0.55)	0.80	(0.71)	0.62	(0.56)	1.24	(0.85)	3.43	(0.67)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.48	(0.34)	0.47	(0.42)	0.56	(0.50)	0.48	(0.33)	1.98	(0.39)
Outdoors, along a roadway	8.16	(5.80)	9.45	(8.44)	12.26	(11.12)	9.35	(6.36)	39.22	(7.69)
In transit, motorcycle	0.14	(0.10)	0.03	(0.03)	0.04	(0.03)	0.11	(0.08)	0.32	(0.06)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.11	(0.07)	0.11	(0.10)	0.07	(0.06)	0.17	(0.12)	0.45	(0.09)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	91.38	(64.93)	68.96	(61.57)	66.08	(59.89)	93.31	(63.55)	319.73	(62.70)
Indoors, office	0.08	(0.06)	0.20	(0.18)	0.33	(0.30)	0.09	(0.06)	0.71	(0.14)
Indoors, store	1.34	(0.95)	1.07	(0.96)	1.08	(0.98)	1.42	(0.96)	4.91	(0.96)
Indoors, restaurant	1.06	(0.76)	1.16	(1.04)	1.36	(1.23)	1.26	(0.86)	4.84	(0.95)
Indoors, mfg. facility	0.02	(0.01)	0.02	(0.01)	0.01	(0.01)	0.03	(0.02)	0.07	(0.01)
Indoors, school	18.44	(13.10)	10.95	(9.78)	6.39	(5.79)	18.45	(12.56)	54.23	(10.64)
Indoors, church	0.57	(0.40)	0.39	(0.35)	0.37	(0.34)	0.60	(0.41)	1.93	(0.38)
Indoors, shopping mall	0.69	(0.49)	0.59	(0.53)	0.48	(0.43)	0.68	(0.46)	2.43	(0.48)
Indoors, auditorium	0.10	(0.07)	0.11	(0.10)	0.10	(0.09)	0.18	(0.12)	0.49	(0.10)
Indoors, health care facility	0.55	(0.39)	0.48	(0.43)	0.52	(0.47)	0.65	(0.44)	2.20	(0.43)
Indoors, public building	0.12	(0.08)	0.18	(0.16)	0.28	(0.25)	0.14	(0.10)	0.72	(0.14)
Indoors, other location	0.74	(0.53)	0.80	(0.72)	1.07	(0.97)	0.89	(0.61)	3.50	(0.69)
Indoors, not specified	0.00	(0.00)	0.02	(0.02)	0.02	(0.02)	0.00	(0.00)	0.04	(0.01)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	2.15	(1.53)	3.36	(3.00)	4.98	(4.51)	2.51	(1.71)	13.00	(2.55)
Outdoors, school grounds	1.88	(1.33)	1.52	(1.36)	0.93	(0.84)	2.00	(1.36)	6.32	(1.24)
Outdoors, sports arena	0.12	(0.09)	0.22	(0.20)	0.31	(0.28)	0.18	(0.12)	0.84	(0.16)
Outdoors, park/golf course	0.12	(0.08)	0.54	(0.49)	0.88	(0.80)	0.19	(0.13)	1.74	(0.34)
Outdoors, other location	0.02	(0.01)	0.97	(0.86)	1.99	(1.81)	0.03	(0.02)	3.01	(0.59)
Outdoors, not specified	0.03	(0.02)	0.04	(0.03)	0.02	(0.02)	0.06	(0.04)	0.14	(0.03)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Nonworking men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.37	(13.44)	14.44	(11.38)	16.10	(12.99)	19.63	(12.01)	71.55	(12.48)
In transit, bus	0.66	(0.41)	0.06	(0.05)	0.00	(0.00)	0.42	(0.26)	1.13	(0.20)
In transit, truck	1.69	(1.06)	3.59	(2.83)	6.96	(5.62)	2.08	(1.27)	14.33	(2.50)
In transit, van	0.00	(0.00)	0.49	(0.39)	1.19	(0.96)	0.00	(0.00)	1.68	(0.29)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.83	(0.52)	1.16	(0.91)	1.26	(1.01)	1.11	(0.68)	4.35	(0.76)
Outdoors, along a roadway	15.30	(9.62)	12.76	(10.06)	8.22	(6.63)	17.40	(10.65)	53.68	(9.36)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.02	(0.01)	0.03	(0.03)	0.02	(0.02)	0.04	(0.03)	0.11	(0.02)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	94.40	(59.36)	69.14	(54.49)	60.33	(48.66)	97.22	(59.50)	321.09	(56.01)
Indoors, office	3.62	(2.27)	4.19	(3.30)	2.92	(2.36)	3.88	(2.37)	14.60	(2.55)
Indoors, store	0.62	(0.39)	0.61	(0.48)	0.42	(0.34)	0.75	(0.46)	2.41	(0.42)
Indoors, restaurant	2.22	(1.40)	1.23	(0.97)	0.76	(0.62)	2.01	(1.23)	6.23	(1.09)
Indoors, mfg. facility	0.00	(0.00)	2.32	(1.83)	5.99	(4.83)	0.00	(0.00)	8.31	(1.45)
Indoors, school	8.91	(5.60)	4.55	(3.59)	2.07	(1.67)	8.75	(5.35)	24.28	(4.23)
Indoors, church	0.13	(0.08)	0.32	(0.26)	0.39	(0.31)	0.22	(0.13)	1.05	(0.18)
Indoors, shopping mall	0.48	(0.30)	0.43	(0.34)	0.20	(0.16)	0.85	(0.52)	1.96	(0.34)
Indoors, auditorium	0.04	(0.03)	0.37	(0.29)	0.88	(0.71)	0.02	(0.01)	1.30	(0.23)
Indoors, health care facility	0.33	(0.21)	0.25	(0.20)	0.14	(0.11)	0.37	(0.23)	1.10	(0.19)
Indoors, public building	1.39	(0.87)	1.02	(0.80)	0.47	(0.38)	1.94	(1.19)	4.82	(0.84)
Indoors, other location	4.74	(2.98)	2.81	(2.22)	1.83	(1.47)	4.09	(2.50)	13.47	(2.35)
Indoors, not specified	0.02	(0.01)	0.02	(0.01)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Outdoors, construction	0.00	(0.00)	0.42	(0.33)	0.46	(0.37)	0.00	(0.00)	0.88	(0.15)
Outdoors, residential grounds	0.61	(0.39)	1.34	(1.06)	1.70	(1.37)	0.74	(0.45)	4.40	(0.77)
Outdoors, school grounds	0.95	(0.59)	1.10	(0.87)	0.51	(0.41)	1.39	(0.85)	3.95	(0.69)
Outdoors, sports arena	0.19	(0.12)	0.47	(0.37)	1.19	(0.96)	0.07	(0.04)	1.92	(0.34)
Outdoors, park/golf course	0.13	(0.08)	0.20	(0.16)	0.17	(0.13)	0.11	(0.07)	0.60	(0.11)
Outdoors, other location	0.12	(0.07)	3.55	(2.80)	9.77	(7.88)	0.07	(0.04)	13.51	(2.36)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.30	(0.19)	0.02	(0.02)	0.00	(0.00)	0.23	(0.14)	0.55	(0.10)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Working men, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	19.27	(12.77)	15.15	(12.74)	14.25	(12.47)	20.91	(13.29)	69.59	(12.85)
In transit, bus	0.27	(0.18)	0.29	(0.24)	0.32	(0.28)	0.22	(0.14)	1.09	(0.20)
In transit, truck	3.13	(2.07)	2.39	(2.01)	2.05	(1.79)	3.11	(1.97)	10.67	(1.97)
In transit, van	0.92	(0.61)	0.97	(0.82)	1.26	(1.10)	1.09	(0.69)	4.24	(0.78)
Indoors, public garage	1.23	(0.82)	0.85	(0.71)	0.53	(0.47)	1.36	(0.86)	3.97	(0.73)
Outdoors, in a parking lot	1.12	(0.74)	1.04	(0.87)	1.00	(0.87)	1.14	(0.72)	4.30	(0.79)
Outdoors, along a roadway	6.31	(4.18)	6.97	(5.86)	7.25	(6.34)	7.79	(4.95)	28.31	(5.23)
In transit, motorcycle	0.00	(0.00)	0.06	(0.05)	0.05	(0.04)	0.00	(0.00)	0.11	(0.02)
Indoors, service station	1.75	(1.16)	0.89	(0.75)	0.51	(0.44)	1.64	(1.04)	4.79	(0.88)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.52	(0.34)	0.44	(0.37)	0.26	(0.22)	0.83	(0.53)	2.04	(0.38)
Indoors, in a repair shop	1.22	(0.81)	0.11	(0.09)	0.01	(0.01)	0.66	(0.42)	2.00	(0.37)
Indoors, home	81.01	(53.67)	60.22	(50.63)	55.62	(48.65)	83.96	(53.36)	280.82	(51.86)
Indoors, office	12.73	(8.43)	9.38	(7.89)	9.56	(8.36)	12.51	(7.95)	44.18	(8.16)
Indoors, store	2.24	(1.48)	2.01	(1.69)	2.47	(2.16)	2.07	(1.32)	8.80	(1.62)
Indoors, restaurant	3.63	(2.41)	2.34	(1.96)	1.81	(1.58)	3.28	(2.09)	11.06	(2.04)
Indoors, mfg. facility	2.59	(1.72)	2.93	(2.47)	3.22	(2.81)	2.78	(1.77)	11.53	(2.13)
Indoors, school	1.36	(0.90)	0.89	(0.75)	0.67	(0.59)	1.38	(0.88)	4.30	(0.79)
Indoors, church	0.49	(0.33)	0.43	(0.36)	0.33	(0.29)	0.69	(0.44)	1.95	(0.36)
Indoors, shopping mall	0.45	(0.30)	0.27	(0.23)	0.20	(0.17)	0.40	(0.25)	1.32	(0.24)
Indoors, auditorium	0.14	(0.09)	0.04	(0.03)	0.07	(0.06)	0.08	(0.05)	0.32	(0.06)
Indoors, health care facility	0.78	(0.52)	0.75	(0.63)	0.74	(0.65)	0.91	(0.58)	3.18	(0.59)
Indoors, public building	0.30	(0.20)	0.53	(0.44)	1.02	(0.89)	0.24	(0.16)	2.10	(0.39)
Indoors, other location	5.17	(3.43)	4.10	(3.45)	3.54	(3.10)	5.19	(3.30)	18.00	(3.32)
Indoors, not specified	0.59	(0.39)	0.13	(0.11)	0.05	(0.04)	0.36	(0.23)	1.14	(0.21)
Outdoors, construction	1.01	(0.67)	1.02	(0.86)	0.61	(0.54)	1.16	(0.73)	3.80	(0.70)
Outdoors, residential grounds	0.61	(0.40)	1.71	(1.44)	3.46	(3.03)	0.79	(0.51)	6.58	(1.21)
Outdoors, school grounds	0.11	(0.07)	0.11	(0.09)	0.07	(0.06)	0.14	(0.09)	0.43	(0.08)
Outdoors, sports arena	0.04	(0.03)	0.14	(0.12)	0.20	(0.18)	0.03	(0.02)	0.41	(0.07)
Outdoors, park/golf course	0.15	(0.10)	0.37	(0.31)	0.55	(0.48)	0.25	(0.16)	1.31	(0.24)
Outdoors, other location	1.58	(1.05)	2.25	(1.90)	2.54	(2.23)	2.21	(1.41)	8.59	(1.59)
Outdoors, not specified	0.02	(0.01)	0.06	(0.05)	0.04	(0.03)	0.03	(0.02)	0.15	(0.03)
In transit, train	0.18	(0.12)	0.09	(0.08)	0.07	(0.06)	0.13	(0.09)	0.47	(0.09)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Nonworking women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.43	(10.06)	11.79	(10.33)	12.08	(10.88)	15.43	(10.38)	53.73	(10.39)
In transit, bus	0.77	(0.53)	0.30	(0.26)	0.31	(0.28)	0.60	(0.40)	1.97	(0.38)
In transit, truck	1.15	(0.80)	0.08	(0.07)	0.00	(0.00)	0.56	(0.38)	1.79	(0.35)
In transit, van	0.03	(0.02)	0.09	(0.08)	0.16	(0.14)	0.07	(0.05)	0.35	(0.07)
Indoors, public garage	0.04	(0.03)	0.03	(0.03)	0.01	(0.01)	0.05	(0.04)	0.14	(0.03)
Outdoors, in a parking lot	0.43	(0.30)	0.63	(0.55)	0.79	(0.71)	0.49	(0.33)	2.34	(0.45)
Outdoors, along a roadway	4.43	(3.09)	5.58	(4.89)	6.94	(6.25)	5.02	(3.38)	21.97	(4.25)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.01	(0.01)	0.02	(0.02)	0.00	(0.00)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.10	(0.07)	0.02	(0.01)	0.01	(0.01)	0.06	(0.04)	0.19	(0.04)
Indoors, in a repair shop	0.04	(0.03)	0.05	(0.04)	0.02	(0.02)	0.05	(0.04)	0.16	(0.03)
Indoors, home	107.20	(74.75)	80.57	(70.56)	75.07	(67.62)	108.93	(73.32)	371.77	(71.89)
Indoors, office	0.55	(0.38)	0.23	(0.20)	0.19	(0.18)	0.41	(0.27)	1.38	(0.27)
Indoors, store	2.06	(1.44)	2.55	(2.23)	3.44	(3.10)	2.10	(1.42)	10.15	(1.96)
Indoors, restaurant	2.58	(1.80)	1.86	(1.63)	1.57	(1.41)	2.62	(1.77)	8.63	(1.67)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	2.59	(1.81)	2.64	(2.31)	1.75	(1.58)	3.91	(2.63)	10.89	(2.11)
Indoors, church	0.47	(0.33)	0.44	(0.39)	0.39	(0.35)	0.68	(0.46)	1.98	(0.38)
Indoors, shopping mall	0.80	(0.56)	0.38	(0.33)	0.50	(0.45)	0.35	(0.24)	2.04	(0.39)
Indoors, auditorium	0.24	(0.17)	0.21	(0.19)	0.22	(0.20)	0.31	(0.21)	0.98	(0.19)
Indoors, health care facility	0.33	(0.23)	0.36	(0.31)	0.33	(0.30)	0.43	(0.29)	1.46	(0.28)
Indoors, public building	0.34	(0.24)	0.20	(0.17)	0.21	(0.19)	0.33	(0.22)	1.07	(0.21)
Indoors, other location	3.41	(2.38)	2.85	(2.50)	2.15	(1.93)	4.24	(2.85)	12.65	(2.45)
Indoors, not specified	0.00	(0.00)	0.03	(0.03)	0.09	(0.08)	0.00	(0.00)	0.12	(0.02)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.82	(0.57)	1.67	(1.46)	2.02	(1.82)	1.18	(0.80)	5.70	(1.10)
Outdoors, school grounds	0.27	(0.19)	0.34	(0.30)	0.31	(0.28)	0.43	(0.29)	1.34	(0.26)
Outdoors, sports arena	0.13	(0.09)	0.10	(0.08)	0.20	(0.18)	0.05	(0.03)	0.48	(0.09)
Outdoors, park/golf course	0.05	(0.03)	0.48	(0.42)	0.93	(0.84)	0.11	(0.08)	1.57	(0.30)
Outdoors, other location	0.10	(0.07)	0.68	(0.60)	1.30	(1.17)	0.11	(0.07)	2.19	(0.42)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.03	(0.02)	0.00	(0.00)	0.00	(0.00)	0.03	(0.02)	0.06	(0.01)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Working women, 18 to 44

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	17.66	(12.24)	12.97	(11.44)	12.83	(11.56)	18.48	(12.34)	61.93	(11.95)
In transit, bus	1.21	(0.84)	0.89	(0.79)	0.80	(0.72)	1.29	(0.86)	4.19	(0.81)
In transit, truck	0.92	(0.64)	0.76	(0.67)	0.75	(0.68)	1.11	(0.74)	3.55	(0.68)
In transit, van	0.01	(0.00)	0.12	(0.10)	0.11	(0.10)	0.00	(0.00)	0.23	(0.04)
Indoors, public garage	0.25	(0.18)	0.10	(0.09)	0.05	(0.05)	0.21	(0.14)	0.62	(0.12)
Outdoors, in a parking lot	0.54	(0.37)	0.68	(0.60)	0.82	(0.74)	0.68	(0.46)	2.72	(0.53)
Outdoors, along a roadway	4.11	(2.85)	4.59	(4.05)	5.44	(4.90)	4.67	(3.12)	18.81	(3.63)
In transit, motorcycle	0.00	(0.00)	0.54	(0.48)	1.13	(1.02)	0.00	(0.00)	1.67	(0.32)
Indoors, service station	0.02	(0.01)	0.02	(0.02)	0.01	(0.01)	0.02	(0.02)	0.08	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.01)	0.04	(0.01)
Indoors, in a repair shop	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	84.20	(58.35)	64.46	(56.89)	61.84	(55.76)	87.33	(58.29)	297.84	(57.47)
Indoors, office	13.55	(9.39)	10.49	(9.26)	8.92	(8.04)	13.55	(9.05)	46.51	(8.97)
Indoors, store	3.75	(2.60)	3.19	(2.82)	2.71	(2.44)	4.19	(2.80)	13.85	(2.67)
Indoors, restaurant	4.60	(3.19)	3.02	(2.66)	3.11	(2.81)	4.12	(2.75)	14.85	(2.87)
Indoors, mfg. facility	1.11	(0.77)	0.88	(0.77)	0.47	(0.43)	1.28	(0.86)	3.74	(0.72)
Indoors, school	3.55	(2.46)	2.14	(1.89)	1.12	(1.01)	3.57	(2.39)	10.39	(2.00)
Indoors, church	0.63	(0.44)	0.52	(0.46)	0.47	(0.42)	0.80	(0.54)	2.42	(0.47)
Indoors, shopping mall	1.09	(0.75)	0.64	(0.56)	0.42	(0.38)	1.12	(0.75)	3.27	(0.63)
Indoors, auditorium	0.10	(0.07)	0.10	(0.09)	0.13	(0.12)	0.12	(0.08)	0.45	(0.09)
Indoors, health care facility	1.66	(1.15)	1.11	(0.98)	0.89	(0.80)	1.76	(1.18)	5.42	(1.05)
Indoors, public building	0.30	(0.21)	0.31	(0.28)	0.46	(0.41)	0.30	(0.20)	1.37	(0.26)
Indoors, other location	4.35	(3.02)	2.94	(2.60)	2.45	(2.21)	4.25	(2.84)	14.00	(2.70)
Indoors, not specified	0.05	(0.04)	0.03	(0.03)	0.01	(0.01)	0.05	(0.04)	0.15	(0.03)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.31	(0.21)	1.32	(1.16)	2.70	(2.44)	0.41	(0.27)	4.73	(0.91)
Outdoors, school grounds	0.09	(0.06)	0.15	(0.14)	0.14	(0.13)	0.14	(0.10)	0.53	(0.10)
Outdoors, sports arena	0.01	(0.01)	0.16	(0.14)	0.25	(0.23)	0.02	(0.01)	0.44	(0.09)
Outdoors, park/golf course	0.06	(0.04)	0.29	(0.26)	0.70	(0.63)	0.09	(0.06)	1.13	(0.22)
Outdoors, other location	0.06	(0.04)	0.81	(0.72)	2.12	(1.91)	0.06	(0.04)	3.04	(0.59)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.08	(0.06)	0.07	(0.06)	0.04	(0.03)	0.13	(0.08)	0.32	(0.06)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Nonworking men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	13.53	(9.37)	11.84	(10.00)	11.11	(9.62)	13.86	(9.35)	50.34	(9.56)
In transit, bus	0.76	(0.53)	1.71	(1.44)	1.79	(1.55)	0.34	(0.23)	4.60	(0.87)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.20	(0.14)	0.29	(0.25)	0.18	(0.16)	0.43	(0.29)	1.10	(0.21)
Indoors, public garage	0.01	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, in a parking lot	0.90	(0.62)	1.73	(1.46)	1.31	(1.14)	1.02	(0.69)	4.96	(0.94)
Outdoors, along a roadway	3.66	(2.53)	4.20	(3.55)	3.37	(2.92)	5.10	(3.44)	16.33	(3.10)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.80	(0.55)	0.96	(0.81)	0.50	(0.43)	1.27	(0.86)	3.53	(0.67)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	110.83	(76.72)	78.36	(66.20)	68.53	(59.33)	111.69	(75.35)	369.40	(70.15)
Indoors, office	0.41	(0.29)	0.17	(0.14)	0.23	(0.20)	0.26	(0.17)	1.07	(0.20)
Indoors, store	1.65	(1.14)	1.90	(1.61)	2.77	(2.40)	1.46	(0.98)	7.77	(1.48)
Indoors, restaurant	1.30	(0.90)	0.46	(0.39)	0.74	(0.64)	0.91	(0.62)	3.41	(0.65)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	1.48	(1.02)	1.74	(1.47)	0.92	(0.79)	2.73	(1.84)	6.86	(1.30)
Indoors, church	0.50	(0.35)	0.43	(0.37)	0.22	(0.19)	0.65	(0.44)	1.80	(0.34)
Indoors, shopping mall	2.11	(1.46)	0.12	(0.10)	0.00	(0.00)	0.83	(0.56)	3.06	(0.58)
Indoors, auditorium	0.06	(0.04)	0.08	(0.07)	0.08	(0.07)	0.03	(0.02)	0.25	(0.05)
Indoors, health care facility	1.98	(1.37)	1.79	(1.51)	0.88	(0.76)	2.73	(1.84)	7.37	(1.40)
Indoors, public building	0.07	(0.05)	0.20	(0.17)	0.59	(0.51)	0.04	(0.03)	0.91	(0.17)
Indoors, other location	2.95	(2.04)	4.01	(3.39)	3.32	(2.88)	3.10	(2.09)	13.39	(2.54)
Indoors, not specified	0.16	(0.11)	0.02	(0.01)	0.00	(0.00)	0.11	(0.07)	0.29	(0.05)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.97	(0.67)	6.79	(5.74)	16.53	(14.31)	1.60	(1.08)	25.89	(4.92)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.17	(0.15)	0.19	(0.16)	0.00	(0.00)	0.36	(0.07)
Outdoors, park/golf course	0.15	(0.10)	0.32	(0.27)	0.94	(0.81)	0.07	(0.05)	1.48	(0.28)
Outdoors, other location	0.00	(0.00)	1.07	(0.90)	1.32	(1.14)	0.00	(0.00)	2.38	(0.45)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Working men, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	21.39	(14.10)	16.50	(13.96)	15.49	(13.66)	23.81	(15.07)	77.19	(14.26)
In transit, bus	2.41	(1.59)	0.87	(0.74)	0.42	(0.37)	2.19	(1.39)	5.89	(1.09)
In transit, truck	3.97	(2.62)	3.44	(2.92)	2.36	(2.08)	4.58	(2.90)	14.35	(2.65)
In transit, van	0.43	(0.28)	0.84	(0.71)	0.68	(0.60)	0.54	(0.34)	2.49	(0.46)
Indoors, public garage	0.39	(0.25)	0.35	(0.29)	0.17	(0.15)	0.53	(0.34)	1.43	(0.26)
Outdoors, in a parking lot	0.83	(0.55)	0.72	(0.61)	0.71	(0.62)	0.94	(0.59)	3.19	(0.59)
Outdoors, along a roadway	5.28	(3.48)	5.57	(4.71)	6.54	(5.77)	5.66	(3.58)	23.05	(4.26)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.72	(0.47)	0.26	(0.22)	0.12	(0.11)	0.63	(0.40)	1.72	(0.32)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.02	(0.02)	0.01	(0.01)	0.01	(0.01)	0.05	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	78.00	(51.41)	57.67	(48.80)	53.60	(47.25)	80.07	(50.67)	269.33	(49.76)
Indoors, office	15.07	(9.93)	11.95	(10.11)	14.60	(12.87)	14.10	(8.92)	55.72	(10.29)
Indoors, store	3.87	(2.55)	2.38	(2.02)	1.44	(1.27)	4.11	(2.60)	11.81	(2.18)
Indoors, restaurant	3.42	(2.25)	2.78	(2.35)	2.73	(2.40)	3.83	(2.43)	12.75	(2.36)
Indoors, mfg. facility	2.17	(1.43)	3.87	(3.27)	4.63	(4.08)	3.41	(2.16)	14.08	(2.60)
Indoors, school	1.02	(0.67)	1.44	(1.22)	0.96	(0.84)	1.48	(0.93)	4.89	(0.90)
Indoors, church	0.64	(0.42)	0.54	(0.46)	0.44	(0.39)	0.82	(0.52)	2.44	(0.45)
Indoors, shopping mall	0.98	(0.64)	0.18	(0.15)	0.12	(0.11)	0.48	(0.30)	1.76	(0.32)
Indoors, auditorium	0.06	(0.04)	0.02	(0.01)	0.01	(0.01)	0.03	(0.02)	0.12	(0.02)
Indoors, health care facility	0.67	(0.44)	0.11	(0.10)	0.04	(0.04)	0.45	(0.29)	1.28	(0.24)
Indoors, public building	0.35	(0.23)	0.64	(0.54)	0.60	(0.53)	0.59	(0.37)	2.17	(0.40)
Indoors, other location	7.90	(5.21)	4.65	(3.93)	2.48	(2.19)	7.92	(5.01)	22.94	(4.24)
Indoors, not specified	0.58	(0.38)	0.10	(0.09)	0.03	(0.03)	0.37	(0.23)	1.08	(0.20)
Outdoors, construction	0.00	(0.00)	0.32	(0.27)	0.71	(0.63)	0.00	(0.00)	1.03	(0.19)
Outdoors, residential grounds	0.26	(0.17)	1.82	(1.54)	3.22	(2.84)	0.34	(0.22)	5.64	(1.04)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.21	(0.14)	0.44	(0.37)	0.52	(0.45)	0.32	(0.20)	1.49	(0.27)
Outdoors, other location	1.05	(0.69)	0.71	(0.60)	0.79	(0.69)	0.77	(0.49)	3.32	(0.61)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.06	(0.04)	0.01	(0.00)	0.00	(0.00)	0.04	(0.03)	0.10	(0.02)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Nonworking women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.48	(7.56)	8.08	(7.39)	7.93	(7.41)	10.30	(7.22)	36.80	(7.39)
In transit, bus	0.38	(0.27)	0.22	(0.20)	0.13	(0.12)	0.31	(0.22)	1.04	(0.21)
In transit, truck	0.64	(0.46)	0.04	(0.04)	0.00	(0.00)	0.29	(0.20)	0.97	(0.20)
In transit, van	0.35	(0.25)	0.40	(0.37)	0.23	(0.22)	0.74	(0.52)	1.72	(0.35)
Indoors, public garage	0.06	(0.04)	0.01	(0.01)	0.00	(0.00)	0.04	(0.03)	0.11	(0.02)
Outdoors, in a parking lot	0.36	(0.26)	0.56	(0.51)	0.76	(0.71)	0.42	(0.29)	2.09	(0.42)
Outdoors, along a roadway	3.99	(2.88)	3.55	(3.24)	4.36	(4.08)	3.82	(2.68)	15.73	(3.16)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	111.75	(80.55)	84.67	(77.37)	78.72	(73.58)	114.84	(80.54)	389.99	(78.35)
Indoors, office	0.44	(0.32)	0.33	(0.30)	0.27	(0.25)	0.43	(0.30)	1.47	(0.30)
Indoors, store	1.94	(1.40)	1.54	(1.41)	1.35	(1.26)	1.94	(1.36)	6.77	(1.36)
Indoors, restaurant	1.86	(1.34)	1.99	(1.82)	2.67	(2.49)	2.14	(1.50)	8.66	(1.74)
Indoors, mfg. facility	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.02	(0.00)
Indoors, school	0.37	(0.26)	0.28	(0.26)	0.19	(0.18)	0.56	(0.39)	1.40	(0.28)
Indoors, church	0.78	(0.56)	0.72	(0.66)	0.53	(0.49)	1.02	(0.72)	3.05	(0.61)
Indoors, shopping mall	1.05	(0.76)	0.85	(0.77)	1.11	(1.03)	1.06	(0.75)	4.07	(0.82)
Indoors, auditorium	0.04	(0.03)	0.01	(0.01)	0.01	(0.01)	0.02	(0.02)	0.08	(0.02)
Indoors, health care facility	0.42	(0.30)	0.56	(0.51)	0.68	(0.63)	0.39	(0.27)	2.04	(0.41)
Indoors, public building	0.21	(0.15)	0.24	(0.22)	0.19	(0.18)	0.35	(0.25)	0.99	(0.20)
Indoors, other location	2.32	(1.67)	2.15	(1.97)	1.99	(1.86)	2.33	(1.63)	8.80	(1.77)
Indoors, not specified	0.18	(0.13)	0.02	(0.01)	0.00	(0.00)	0.12	(0.09)	0.32	(0.06)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.97	(0.70)	2.35	(2.15)	4.09	(3.83)	1.35	(0.94)	8.76	(1.76)
Outdoors, school grounds	0.03	(0.02)	0.00	(0.00)	0.00	(0.00)	0.02	(0.01)	0.05	(0.01)
Outdoors, sports arena	0.00	(0.00)	0.09	(0.08)	0.09	(0.08)	0.00	(0.00)	0.18	(0.04)
Outdoors, park/golf course	0.00	(0.00)	0.40	(0.36)	0.83	(0.77)	0.00	(0.00)	1.22	(0.25)
Outdoors, other location	0.03	(0.03)	0.34	(0.31)	0.85	(0.80)	0.05	(0.03)	1.27	(0.26)
Outdoors, not specified	0.06	(0.05)	0.01	(0.01)	0.00	(0.00)	0.04	(0.03)	0.11	(0.02)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Working women, 45 to 64

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	14.96	(10.49)	11.49	(10.26)	11.16	(10.31)	15.24	(10.29)	52.85	(10.34)
In transit, bus	1.47	(1.03)	0.78	(0.70)	0.67	(0.62)	1.43	(0.97)	4.35	(0.85)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.42	(0.30)	0.13	(0.12)	0.05	(0.05)	0.37	(0.25)	0.98	(0.19)
Indoors, public garage	0.05	(0.04)	0.03	(0.03)	0.01	(0.01)	0.06	(0.04)	0.16	(0.03)
Outdoors, in a parking lot	0.62	(0.44)	0.85	(0.76)	1.44	(1.33)	0.60	(0.41)	3.52	(0.69)
Outdoors, along a roadway	4.33	(3.04)	4.00	(3.57)	4.96	(4.57)	4.55	(3.07)	17.84	(3.49)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.02	(0.01)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	86.72	(60.84)	65.28	(58.26)	64.01	(59.09)	88.95	(60.08)	304.95	(59.68)
Indoors, office	13.44	(9.43)	9.36	(8.35)	6.63	(6.12)	13.63	(9.21)	43.06	(8.43)
Indoors, store	2.68	(1.88)	2.76	(2.46)	2.78	(2.56)	3.05	(2.06)	11.27	(2.21)
Indoors, restaurant	4.60	(3.23)	4.13	(3.68)	3.31	(3.06)	5.89	(3.98)	17.93	(3.51)
Indoors, mfg. facility	0.00	(0.00)	2.25	(2.01)	4.00	(3.69)	0.00	(0.00)	6.25	(1.22)
Indoors, school	2.92	(2.05)	1.80	(1.61)	1.62	(1.49)	2.77	(1.87)	9.11	(1.78)
Indoors, church	0.72	(0.50)	0.64	(0.57)	0.93	(0.86)	0.71	(0.48)	3.00	(0.59)
Indoors, shopping mall	1.14	(0.80)	1.24	(1.11)	0.67	(0.62)	1.50	(1.01)	4.55	(0.89)
Indoors, auditorium	0.03	(0.02)	0.04	(0.03)	0.02	(0.02)	0.06	(0.04)	0.15	(0.03)
Indoors, health care facility	2.00	(1.40)	1.76	(1.57)	0.92	(0.85)	2.37	(1.60)	7.04	(1.38)
Indoors, public building	0.15	(0.10)	0.10	(0.09)	0.19	(0.18)	0.10	(0.07)	0.54	(0.11)
Indoors, other location	5.69	(3.99)	3.80	(3.39)	2.44	(2.25)	5.81	(3.92)	17.73	(3.47)
Indoors, not specified	0.02	(0.01)	0.14	(0.12)	0.37	(0.35)	0.02	(0.02)	0.55	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.38	(0.27)	1.03	(0.92)	1.42	(1.31)	0.66	(0.45)	3.49	(0.68)
Outdoors, school grounds	0.09	(0.07)	0.13	(0.12)	0.07	(0.07)	0.13	(0.09)	0.43	(0.08)
Outdoors, sports arena	0.04	(0.02)	0.11	(0.10)	0.31	(0.29)	0.01	(0.01)	0.47	(0.09)
Outdoors, park/golf course	0.02	(0.02)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.04	(0.01)
Outdoors, other location	0.05	(0.03)	0.17	(0.15)	0.32	(0.30)	0.09	(0.06)	0.63	(0.12)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Men, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	20.38	(13.63)	17.85	(14.46)	15.73	(12.95)	23.67	(15.12)	77.63	(14.09)
In transit, bus	1.10	(0.73)	1.18	(0.96)	0.58	(0.48)	1.65	(1.05)	4.51	(0.82)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.00	(0.00)	0.01	(0.01)	0.03	(0.03)	0.00	(0.00)	0.04	(0.01)
Indoors, public garage	0.01	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.02	(0.00)
Outdoors, in a parking lot	0.69	(0.46)	1.44	(1.16)	1.95	(1.60)	0.87	(0.56)	4.94	(0.90)
Outdoors, along a roadway	4.20	(2.81)	8.02	(6.50)	12.96	(10.67)	5.78	(3.69)	30.96	(5.62)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.07	(0.05)	0.12	(0.10)	0.00	(0.00)	0.19	(0.03)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.01	(0.01)	0.02	(0.01)	0.01	(0.01)	0.02	(0.01)	0.06	(0.01)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Indoors, home	104.48	(69.87)	77.32	(62.65)	72.31	(59.55)	103.18	(65.91)	357.29	(64.85)
Indoors, office	4.37	(2.93)	2.77	(2.25)	1.46	(1.20)	4.97	(3.18)	13.57	(2.46)
Indoors, store	0.98	(0.66)	0.98	(0.79)	1.40	(1.15)	1.05	(0.67)	4.41	(0.80)
Indoors, restaurant	3.01	(2.01)	3.20	(2.59)	3.61	(2.98)	4.10	(2.62)	13.92	(2.53)
Indoors, mfg. facility	1.32	(0.88)	0.80	(0.64)	0.36	(0.30)	1.39	(0.89)	3.87	(0.70)
Indoors, school	0.48	(0.32)	0.16	(0.13)	0.08	(0.07)	0.27	(0.18)	0.99	(0.18)
Indoors, church	0.87	(0.58)	0.81	(0.66)	0.61	(0.50)	1.21	(0.77)	3.51	(0.64)
Indoors, shopping mall	1.28	(0.86)	1.06	(0.86)	2.15	(1.77)	0.73	(0.46)	5.22	(0.95)
Indoors, auditorium	0.54	(0.36)	0.48	(0.39)	0.27	(0.23)	0.98	(0.62)	2.27	(0.41)
Indoors, health care facility	0.25	(0.16)	0.56	(0.45)	1.01	(0.83)	0.27	(0.17)	2.09	(0.38)
Indoors, public building	0.10	(0.07)	0.21	(0.17)	0.22	(0.18)	0.09	(0.06)	0.61	(0.11)
Indoors, other location	2.22	(1.49)	1.90	(1.54)	1.05	(0.87)	2.99	(1.91)	8.16	(1.48)
Indoors, not specified	0.00	(0.00)	0.13	(0.11)	0.14	(0.11)	0.00	(0.00)	0.27	(0.05)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	1.68	(1.12)	3.21	(2.60)	4.28	(3.53)	1.52	(0.97)	10.69	(1.94)
Outdoors, school grounds	0.41	(0.28)	0.36	(0.29)	0.17	(0.14)	0.72	(0.46)	1.66	(0.30)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.76	(0.51)	0.53	(0.43)	0.24	(0.20)	0.78	(0.50)	2.31	(0.42)
Outdoors, other location	0.00	(0.00)	0.25	(0.20)	0.63	(0.52)	0.00	(0.00)	0.88	(0.16)
Outdoors, not specified	0.08	(0.06)	0.10	(0.08)	0.05	(0.04)	0.11	(0.07)	0.34	(0.06)
In transit, train	0.28	(0.18)	0.03	(0.02)	0.00	(0.00)	0.18	(0.12)	0.48	(0.09)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Women, 65+

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	10.69	(7.42)	9.73	(8.39)	11.64	(10.25)	10.19	(6.89)	42.25	(8.10)
In transit, bus	0.31	(0.21)	0.48	(0.41)	0.58	(0.51)	0.41	(0.28)	1.78	(0.34)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.10	(0.07)	0.01	(0.01)	0.00	(0.00)	0.06	(0.04)	0.17	(0.03)
Indoors, public garage	0.05	(0.03)	0.06	(0.05)	0.16	(0.14)	0.03	(0.02)	0.30	(0.06)
Outdoors, in a parking lot	0.17	(0.12)	0.33	(0.28)	0.46	(0.40)	0.18	(0.12)	1.13	(0.22)
Outdoors, along a roadway	3.55	(2.47)	3.82	(3.30)	5.47	(4.81)	3.22	(2.18)	16.07	(3.08)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.00	(0.00)	0.01	(0.01)	0.01	(0.01)	0.00	(0.00)	0.03	(0.00)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	115.85	(80.45)	90.36	(77.98)	82.83	(72.92)	121.47	(82.13)	410.51	(78.74)
Indoors, office	0.82	(0.57)	0.18	(0.15)	0.09	(0.08)	0.54	(0.36)	1.63	(0.31)
Indoors, store	0.95	(0.66)	1.95	(1.68)	3.98	(3.50)	0.77	(0.52)	7.65	(1.47)
Indoors, restaurant	1.89	(1.32)	1.97	(1.70)	2.28	(2.01)	1.79	(1.21)	7.94	(1.52)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	0.00	(0.00)	0.03	(0.03)	0.03	(0.03)	0.00	(0.00)	0.06	(0.01)
Indoors, church	1.70	(1.18)	1.04	(0.90)	0.66	(0.58)	1.67	(1.13)	5.06	(0.97)
Indoors, shopping mall	2.02	(1.40)	2.30	(1.98)	1.15	(1.01)	2.83	(1.91)	8.29	(1.59)
Indoors, auditorium	0.05	(0.04)	0.06	(0.05)	0.03	(0.03)	0.07	(0.05)	0.21	(0.04)
Indoors, health care facility	0.80	(0.55)	0.33	(0.28)	0.16	(0.14)	0.64	(0.43)	1.92	(0.37)
Indoors, public building	0.24	(0.17)	0.29	(0.25)	0.18	(0.16)	0.29	(0.20)	1.00	(0.19)
Indoors, other location	4.49	(3.12)	1.63	(1.41)	1.93	(1.70)	3.31	(2.24)	11.36	(2.18)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.21	(0.15)	0.91	(0.78)	1.53	(1.35)	0.21	(0.14)	2.85	(0.55)
Outdoors, school grounds	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, sports arena	0.11	(0.08)	0.19	(0.16)	0.13	(0.11)	0.22	(0.15)	0.64	(0.12)
Outdoors, park/golf course	0.00	(0.00)	0.08	(0.07)	0.10	(0.09)	0.00	(0.00)	0.18	(0.03)
Outdoors, other location	0.00	(0.00)	0.13	(0.11)	0.21	(0.18)	0.00	(0.00)	0.33	(0.06)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Outdoor workers

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	11.56	(6.77)	8.09	(5.98)	9.87	(7.34)	11.15	(6.33)	40.67	(6.60)
In transit, bus	0.00	(0.00)	0.23	(0.17)	0.25	(0.19)	0.00	(0.00)	0.49	(0.08)
In transit, truck	12.18	(7.13)	10.43	(7.71)	10.78	(8.02)	12.46	(7.07)	45.85	(7.44)
In transit, van	0.80	(0.47)	0.08	(0.06)	0.00	(0.00)	0.48	(0.27)	1.35	(0.22)
Indoors, public garage	3.43	(2.01)	1.90	(1.41)	0.86	(0.64)	4.08	(2.31)	10.27	(1.67)
Outdoors, in a parking lot	1.73	(1.01)	1.96	(1.45)	1.64	(1.22)	2.30	(1.30)	7.62	(1.24)
Outdoors, along a roadway	19.15	(11.22)	21.24	(15.71)	25.36	(18.86)	21.88	(12.42)	87.63	(14.21)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	5.12	(3.00)	0.73	(0.54)	0.21	(0.16)	3.30	(1.87)	9.36	(1.52)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	1.25	(0.73)	0.10	(0.07)	0.02	(0.02)	0.61	(0.35)	1.98	(0.32)
Indoors, in a repair shop	0.00	(0.00)	0.10	(0.07)	0.11	(0.08)	0.00	(0.00)	0.20	(0.03)
Indoors, home	72.60	(42.55)	53.95	(39.89)	47.01	(34.95)	76.54	(43.44)	250.10	(40.57)
Indoors, office	2.89	(1.69)	1.74	(1.29)	1.06	(0.79)	2.10	(1.19)	7.79	(1.26)
Indoors, store	0.87	(0.51)	0.31	(0.23)	0.16	(0.12)	0.66	(0.38)	2.01	(0.33)
Indoors, restaurant	2.85	(1.67)	1.48	(1.10)	1.39	(1.03)	3.05	(1.73)	8.77	(1.42)
Indoors, mfg. facility	1.84	(1.08)	4.73	(3.50)	9.34	(6.94)	2.69	(1.53)	18.60	(3.02)
Indoors, school	0.76	(0.44)	0.83	(0.61)	0.41	(0.30)	1.10	(0.62)	3.09	(0.50)
Indoors, church	1.36	(0.80)	0.41	(0.30)	0.20	(0.15)	1.02	(0.58)	2.99	(0.49)
Indoors, shopping mall	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, auditorium	0.14	(0.08)	0.32	(0.24)	0.55	(0.41)	0.06	(0.04)	1.08	(0.17)
Indoors, health care facility	0.00	(0.00)	0.19	(0.14)	0.43	(0.32)	0.00	(0.00)	0.62	(0.10)
Indoors, public building	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, other location	4.73	(2.77)	0.98	(0.73)	0.39	(0.29)	3.29	(1.87)	9.40	(1.52)
Indoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, construction	9.24	(5.41)	10.54	(7.79)	9.99	(7.43)	8.83	(5.01)	38.60	(6.26)
Outdoors, residential grounds	1.43	(0.84)	1.61	(1.19)	1.16	(0.86)	1.84	(1.05)	6.04	(0.98)
Outdoors, school grounds	0.08	(0.05)	0.09	(0.07)	0.04	(0.03)	0.12	(0.07)	0.33	(0.05)
Outdoors, sports arena	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, park/golf course	0.40	(0.23)	0.49	(0.36)	0.27	(0.20)	0.61	(0.35)	1.76	(0.29)
Outdoors, other location	16.26	(9.53)	12.68	(9.38)	12.98	(9.65)	18.04	(10.24)	59.95	(9.72)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Outdoor children

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.54	(5.10)	7.91	(6.79)	9.40	(8.25)	9.41	(6.10)	34.26	(6.43)
In transit, bus	4.95	(3.35)	2.83	(2.43)	1.50	(1.32)	5.24	(3.39)	14.52	(2.73)
In transit, truck	0.06	(0.04)	0.17	(0.15)	0.20	(0.18)	0.13	(0.08)	0.57	(0.11)
In transit, van	0.33	(0.22)	0.19	(0.17)	0.20	(0.17)	0.31	(0.20)	1.03	(0.19)
Indoors, public garage	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, in a parking lot	0.71	(0.48)	0.55	(0.47)	0.58	(0.51)	0.67	(0.44)	2.52	(0.47)
Outdoors, along a roadway	14.33	(9.70)	13.29	(11.42)	16.17	(14.18)	15.49	(10.03)	59.28	(11.13)
In transit, motorcycle	0.41	(0.28)	0.07	(0.06)	0.02	(0.02)	0.34	(0.22)	0.84	(0.16)
Indoors, service station	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.00	(0.00)	0.01	(0.00)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.03	(0.02)	0.05	(0.04)	0.05	(0.04)	0.06	(0.04)	0.19	(0.03)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	81.03	(54.82)	62.15	(53.40)	60.28	(52.86)	82.55	(53.48)	286.01	(53.70)
Indoors, office	0.20	(0.14)	0.20	(0.17)	0.45	(0.39)	0.16	(0.10)	1.00	(0.19)
Indoors, store	1.50	(1.01)	1.04	(0.90)	1.22	(1.07)	1.45	(0.94)	5.22	(0.98)
Indoors, restaurant	1.01	(0.68)	1.29	(1.11)	1.51	(1.32)	1.49	(0.96)	5.30	(1.00)
Indoors, mfg. facility	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, school	24.77	(16.76)	13.94	(11.98)	7.31	(6.41)	24.82	(16.08)	70.85	(13.30)
Indoors, church	0.70	(0.48)	0.47	(0.41)	0.50	(0.44)	0.70	(0.45)	2.37	(0.45)
Indoors, shopping mall	0.99	(0.67)	0.62	(0.53)	0.35	(0.31)	0.78	(0.51)	2.74	(0.51)
Indoors, auditorium	0.09	(0.06)	0.12	(0.10)	0.12	(0.11)	0.18	(0.12)	0.50	(0.09)
Indoors, health care facility	0.45	(0.30)	0.44	(0.38)	0.32	(0.28)	0.70	(0.45)	1.91	(0.36)
Indoors, public building	0.39	(0.27)	0.34	(0.29)	0.35	(0.30)	0.42	(0.28)	1.50	(0.28)
Indoors, other location	1.05	(0.71)	0.88	(0.75)	0.99	(0.87)	1.10	(0.71)	4.01	(0.75)
Indoors, not specified	0.00	(0.00)	0.02	(0.02)	0.02	(0.02)	0.00	(0.00)	0.05	(0.01)
Outdoors, construction	0.00	(0.00)	0.07	(0.06)	0.07	(0.06)	0.00	(0.00)	0.14	(0.03)
Outdoors, residential grounds	2.82	(1.91)	3.99	(3.43)	5.90	(5.18)	3.20	(2.07)	15.91	(2.99)
Outdoors, school grounds	3.88	(2.62)	2.98	(2.56)	1.57	(1.38)	4.34	(2.81)	12.77	(2.40)
Outdoors, sports arena	0.40	(0.27)	0.49	(0.42)	0.62	(0.54)	0.51	(0.33)	2.02	(0.38)
Outdoors, park/golf course	0.12	(0.08)	0.72	(0.61)	1.29	(1.13)	0.23	(0.15)	2.35	(0.44)
Outdoors, other location	0.05	(0.03)	1.55	(1.33)	3.03	(2.66)	0.09	(0.06)	4.71	(0.89)
Outdoors, not specified	0.02	(0.01)	0.00	(0.00)	0.00	(0.00)	0.01	(0.01)	0.03	(0.01)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=Heart and respiratory

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	7.82	(5.69)	7.55	(6.82)	8.23	(7.58)	7.75	(5.43)	31.36	(6.28)
In transit, bus	1.93	(1.40)	1.53	(1.38)	0.86	(0.79)	2.37	(1.66)	6.68	(1.34)
In transit, truck	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, van	0.44	(0.32)	0.54	(0.49)	0.33	(0.30)	1.03	(0.72)	2.35	(0.47)
Indoors, public garage	0.00	(0.00)	0.02	(0.01)	0.04	(0.04)	0.00	(0.00)	0.06	(0.01)
Outdoors, in a parking lot	0.40	(0.29)	0.43	(0.39)	0.48	(0.44)	0.40	(0.28)	1.71	(0.34)
Outdoors, along a roadway	3.85	(2.80)	4.45	(4.01)	6.19	(5.70)	3.85	(2.70)	18.34	(3.67)
In transit, motorcycle	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, service station	0.00	(0.00)	0.02	(0.02)	0.03	(0.03)	0.00	(0.00)	0.05	(0.01)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.12	(0.09)	0.08	(0.07)	0.04	(0.04)	0.12	(0.09)	0.37	(0.07)
Indoors, in a repair shop	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, home	103.58	(75.39)	78.44	(70.78)	75.63	(69.62)	106.47	(74.60)	364.13	(72.89)
Indoors, office	4.48	(3.26)	3.39	(3.06)	2.72	(2.51)	4.53	(3.17)	15.12	(3.03)
Indoors, store	1.25	(0.91)	1.22	(1.10)	1.44	(1.32)	1.12	(0.78)	5.02	(1.01)
Indoors, restaurant	2.94	(2.14)	2.12	(1.92)	2.77	(2.55)	2.57	(1.80)	10.39	(2.08)
Indoors, mfg. facility	1.52	(1.10)	1.47	(1.33)	0.94	(0.86)	1.69	(1.18)	5.62	(1.12)
Indoors, school	4.97	(3.62)	3.47	(3.13)	1.79	(1.65)	5.32	(3.73)	15.55	(3.11)
Indoors, church	1.05	(0.77)	0.88	(0.80)	0.50	(0.46)	1.45	(1.01)	3.88	(0.78)
Indoors, shopping mall	0.47	(0.34)	0.88	(0.80)	1.27	(1.17)	0.66	(0.46)	3.27	(0.66)
Indoors, auditorium	0.04	(0.03)	0.03	(0.03)	0.02	(0.01)	0.06	(0.04)	0.14	(0.03)
Indoors, health care facility	0.64	(0.47)	0.42	(0.38)	0.46	(0.42)	0.59	(0.41)	2.10	(0.42)
Indoors, public building	0.05	(0.03)	0.18	(0.16)	0.45	(0.41)	0.05	(0.04)	0.72	(0.14)
Indoors, other location	0.18	(0.13)	0.61	(0.55)	0.74	(0.68)	0.25	(0.18)	1.78	(0.36)
Indoors, not specified	0.05	(0.04)	0.15	(0.14)	0.34	(0.31)	0.02	(0.01)	0.56	(0.11)
Outdoors, construction	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Outdoors, residential grounds	0.78	(0.57)	1.92	(1.74)	2.58	(2.38)	1.36	(0.95)	6.64	(1.33)
Outdoors, school grounds	0.67	(0.48)	0.62	(0.56)	0.29	(0.27)	0.93	(0.65)	2.50	(0.50)
Outdoors, sports arena	0.01	(0.01)	0.05	(0.04)	0.03	(0.03)	0.01	(0.01)	0.11	(0.02)
Outdoors, park/golf course	0.15	(0.11)	0.07	(0.06)	0.15	(0.14)	0.09	(0.06)	0.46	(0.09)
Outdoors, other location	0.03	(0.02)	0.28	(0.25)	0.30	(0.28)	0.04	(0.03)	0.65	(0.13)
Outdoors, not specified	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.01	(0.00)
In transit, train	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)

Washington DC: City-wide, Demographic Group=All persons

HAPEM-MS3 Microenvironmental Exposure (Percent of Total Exposure) by Calendar Quarter and Annually for 1990
 Accumulated Exposure in $\mu\text{g}/\text{m}^3\text{-year}$, Percent of Total Exposure in Percent

Microenvironment	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Annual	
	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.	Exp.	Pct.
In transit, car	15.31	(10.52)	11.53	(10.02)	11.25	(10.04)	16.01	(10.59)	54.10	(10.33)
In transit, bus	1.41	(0.97)	0.97	(0.85)	0.66	(0.59)	1.53	(1.01)	4.57	(0.87)
In transit, truck	1.37	(0.94)	0.96	(0.83)	0.81	(0.72)	1.34	(0.89)	4.47	(0.85)
In transit, van	0.46	(0.32)	0.51	(0.45)	0.50	(0.45)	0.66	(0.44)	2.13	(0.41)
Indoors, public garage	0.34	(0.24)	0.20	(0.18)	0.12	(0.11)	0.36	(0.24)	1.02	(0.20)
Outdoors, in a parking lot	0.64	(0.44)	0.72	(0.63)	0.85	(0.76)	0.70	(0.46)	2.91	(0.56)
Outdoors, along a roadway	5.66	(3.89)	6.80	(5.91)	8.43	(7.52)	6.62	(4.38)	27.50	(5.25)
In transit, motorcycle	0.02	(0.01)	0.09	(0.08)	0.18	(0.16)	0.02	(0.01)	0.31	(0.06)
Indoors, service station	0.41	(0.28)	0.19	(0.16)	0.10	(0.09)	0.37	(0.24)	1.06	(0.20)
Outdoors, service station	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)
Indoors, residential garage	0.14	(0.09)	0.11	(0.09)	0.06	(0.06)	0.19	(0.13)	0.50	(0.10)
Indoors, in a repair shop	0.27	(0.18)	0.03	(0.02)	0.00	(0.00)	0.15	(0.10)	0.45	(0.08)
Indoors, home	90.63	(62.26)	69.02	(59.98)	65.94	(58.87)	93.25	(61.67)	318.84	(60.86)
Indoors, office	7.90	(5.42)	5.03	(4.37)	3.94	(3.52)	7.53	(4.98)	24.40	(4.66)
Indoors, store	2.39	(1.64)	2.03	(1.77)	2.11	(1.88)	2.46	(1.63)	9.00	(1.72)
Indoors, restaurant	3.13	(2.15)	2.21	(1.92)	2.11	(1.88)	3.06	(2.03)	10.50	(2.01)
Indoors, mfg. facility	0.93	(0.64)	1.05	(0.91)	1.04	(0.93)	1.06	(0.70)	4.09	(0.78)
Indoors, school	5.39	(3.71)	4.05	(3.52)	2.60	(2.32)	6.01	(3.98)	18.05	(3.45)
Indoors, church	0.59	(0.41)	0.49	(0.43)	0.44	(0.39)	0.72	(0.48)	2.25	(0.43)
Indoors, shopping mall	0.89	(0.61)	0.62	(0.54)	0.51	(0.46)	0.84	(0.55)	2.86	(0.55)
Indoors, auditorium	0.12	(0.08)	0.10	(0.08)	0.10	(0.09)	0.14	(0.10)	0.46	(0.09)
Indoors, health care facility	0.94	(0.65)	0.71	(0.61)	0.62	(0.55)	1.01	(0.67)	3.28	(0.63)
Indoors, public building	0.27	(0.19)	0.30	(0.26)	0.39	(0.35)	0.30	(0.20)	1.27	(0.24)
Indoors, other location	3.98	(2.73)	2.67	(2.32)	2.15	(1.92)	3.95	(2.61)	12.74	(2.43)
Indoors, not specified	0.19	(0.13)	0.06	(0.06)	0.07	(0.06)	0.12	(0.08)	0.44	(0.08)
Outdoors, construction	0.18	(0.12)	0.21	(0.18)	0.16	(0.15)	0.20	(0.14)	0.76	(0.15)
Outdoors, residential grounds	0.87	(0.60)	2.22	(1.93)	3.74	(3.34)	1.16	(0.77)	7.98	(1.52)
Outdoors, school grounds	0.49	(0.34)	0.53	(0.46)	0.36	(0.32)	0.62	(0.41)	2.01	(0.38)
Outdoors, sports arena	0.06	(0.04)	0.16	(0.14)	0.25	(0.22)	0.07	(0.05)	0.53	(0.10)
Outdoors, park/golf course	0.11	(0.07)	0.41	(0.36)	0.70	(0.63)	0.16	(0.11)	1.39	(0.26)
Outdoors, other location	0.39	(0.27)	1.04	(0.91)	1.81	(1.62)	0.46	(0.31)	3.71	(0.71)
Outdoors, not specified	0.02	(0.01)	0.03	(0.02)	0.02	(0.01)	0.03	(0.02)	0.09	(0.02)
In transit, train	0.07	(0.05)	0.03	(0.03)	0.02	(0.02)	0.06	(0.04)	0.19	(0.04)
In transit, airplane	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)	0.00	(0.00)