

United States Environmental Protection Agency
March 1998

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

Appendix A

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ 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: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	209894	579 (7.1)	242 (3.1)	424 (5.2)	542 (6.8)	447 (2.9)
African americans	22995	567 (9.3)	235 (3.1)	412 (5.3)	526 (7.4)	435 (3.3)
Hispanics	2132	567 (9.9)	238 (3.7)	416 (6.0)	532 (8.7)	438 (3.7)
Household income lt \$10K	13106	546 (4.9)	227 (2.0)	399 (3.6)	511 (4.7)	421 (2.0)
Household income \$10K-\$25K	30660	574 (6.8)	241 (3.2)	420 (5.2)	539 (6.6)	444 (2.8)
Household income \$25K-\$50K	76777	579 (8.2)	242 (3.3)	425 (5.3)	543 (7.8)	447 (3.2)
Household income \$50K-\$75K	55609	584 (5.8)	244 (2.8)	429 (5.2)	548 (5.6)	451 (2.5)
Household income gt \$75K	51042	582 (6.6)	241 (2.6)	423 (4.0)	547 (6.2)	448 (2.5)
Children, 0 to 17	54362	575 (6.3)	241 (2.9)	425 (5.1)	539 (6.3)	445 (2.7)
Nonworking men, 18 to 44	12979	604 (7.7)	250 (3.4)	440 (5.3)	563 (7.7)	464 (3.1)
Working men, 18 to 44	36640	654 (5.6)	310 (3.7)	475 (4.0)	610 (5.0)	512 (2.3)
Nonworking women, 18 to 44	23342	560 (7.0)	233 (2.4)	410 (4.0)	523 (5.9)	431 (2.6)
Working women, 18 to 44	29769	616 (3.8)	281 (2.6)	445 (2.8)	573 (3.5)	479 (1.6)
Nonworking men, 45 to 64	6517	556 (4.3)	236 (3.1)	420 (6.1)	516 (2.9)	432 (2.2)
Working men, 45 to 64	16645	668 (5.3)	319 (3.3)	482 (3.2)	623 (4.8)	523 (2.1)
Nonworking women, 45 to 64	11449	544 (4.6)	226 (2.0)	401 (4.1)	507 (3.9)	419 (1.9)
Working women, 45 to 64	13381	608 (4.3)	281 (2.7)	440 (2.9)	569 (4.1)	475 (1.8)
Men, 65+	15307	565 (6.3)	241 (2.6)	430 (4.0)	533 (6.2)	442 (2.5)
Women, 65+	16566	543 (5.7)	226 (2.2)	403 (4.1)	502 (4.6)	419 (2.2)
Outdoor workers	1596	769 (6.7)	393 (4.3)	575 (3.7)	706 (6.0)	610 (2.7)
Outdoor children	14858	602 (4.6)	249 (2.3)	439 (4.5)	563 (4.4)	463 (2.0)
Heart and respiratory	34556	547 (5.0)	231 (2.5)	407 (5.0)	511 (4.6)	424 (2.2)
All persons	236957	582 (7.6)	242 (3.1)	423 (5.2)	543 (6.9)	447 (3.0)

Highest quarter 1 exposure is 769 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 2 exposure is 393 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 3 exposure is 575 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 4 exposure is 706 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest annual exposure is 610 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Baltimore: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	199020	682 (8.5)	407 (5.4)	471 (5.9)	584 (7.5)	536 (3.5)
African americans	254416	667 (10.8)	395 (5.2)	458 (6.0)	565 (8.0)	521 (3.9)
Hispanics	4217	668 (11.8)	401 (6.4)	463 (6.8)	572 (9.5)	525 (4.4)
Household income lt \$10K	60839	644 (6.2)	383 (3.7)	444 (4.1)	550 (5.3)	505 (2.5)
Household income \$10K-\$25K	67790	677 (8.1)	406 (5.6)	467 (5.9)	581 (7.2)	532 (3.4)
Household income \$25K-\$50K	152708	682 (9.8)	408 (5.7)	473 (6.0)	585 (8.5)	536 (3.9)
Household income \$50K-\$75K	79551	688 (7.0)	412 (4.9)	477 (5.9)	592 (6.3)	542 (3.0)
Household income gt \$75K	81905	681 (7.5)	403 (4.2)	469 (4.5)	587 (6.6)	535 (2.9)
Children, 0 to 17	102839	677 (7.5)	405 (5.0)	472 (5.8)	580 (7.0)	533 (3.2)
Nonworking men, 18 to 44	36809	715 (9.5)	422 (6.0)	492 (5.9)	607 (8.6)	558 (3.8)
Working men, 18 to 44	54309	761 (6.8)	467 (4.9)	528 (4.9)	662 (6.2)	604 (2.9)
Nonworking women, 18 to 44	56654	662 (8.6)	393 (4.3)	456 (4.5)	565 (6.6)	518 (3.1)
Working women, 18 to 44	51460	717 (4.6)	432 (3.2)	495 (3.5)	619 (4.1)	565 (1.9)
Nonworking men, 45 to 64	15874	655 (5.0)	399 (5.6)	468 (7.1)	556 (3.3)	519 (2.7)
Working men, 45 to 64	22326	774 (6.4)	473 (4.3)	536 (3.9)	674 (5.8)	614 (2.6)
Nonworking women, 45 to 64	24947	644 (6.0)	381 (3.6)	445 (4.5)	546 (4.5)	503 (2.4)
Working women, 45 to 64	20650	708 (5.2)	431 (3.6)	489 (3.5)	614 (4.8)	560 (2.2)
Men, 65+	31240	669 (8.0)	408 (4.9)	479 (4.6)	576 (7.2)	533 (3.2)
Women, 65+	37768	641 (6.9)	382 (4.2)	449 (4.7)	543 (5.6)	503 (2.7)
Outdoor workers	2798	889 (8.3)	557 (5.5)	642 (4.7)	771 (7.6)	714 (3.4)
Outdoor children	28780	711 (5.8)	421 (4.0)	488 (5.1)	608 (5.0)	557 (2.5)
Heart and respiratory	69320	643 (5.9)	388 (4.5)	452 (5.8)	549 (5.3)	507 (2.7)
All persons	461355	687 (9.2)	407 (5.4)	471 (5.9)	585 (7.7)	537 (3.6)

Highest quarter 1 exposure is 889 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 2 exposure is 557 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 3 exposure is 642 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 4 exposure is 771 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest annual exposure is 714 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Baltimore: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	142100	1234 (17.2)	988 (13.9)	1065 (14.0)	1217 (17.3)	1126 (7.8)
African americans	111821	1198 (20.0)	959 (13.3)	1034 (14.1)	1173 (17.3)	1091 (8.2)
Hispanics	2309	1199 (21.6)	972 (16.0)	1044 (15.5)	1187 (20.5)	1100 (9.3)
Household income lt \$10K	33304	1161 (13.4)	927 (9.8)	1000 (9.5)	1144 (13.6)	1058 (5.9)
Household income \$10K-\$25K	47130	1223 (16.2)	984 (14.1)	1055 (14.1)	1205 (15.6)	1116 (7.5)
Household income \$25K-\$50K	83594	1235 (19.5)	990 (14.8)	1069 (14.4)	1220 (19.5)	1128 (8.6)
Household income \$50K-\$75K	42057	1245 (14.3)	1000 (12.7)	1078 (13.9)	1232 (14.7)	1139 (7.0)
Household income gt \$75K	37934	1228 (14.9)	975 (10.6)	1056 (10.1)	1211 (14.5)	1117 (6.4)
Children, 0 to 17	64820	1228 (15.5)	985 (12.9)	1067 (13.6)	1212 (16.4)	1123 (7.3)
Nonworking men, 18 to 44	18660	1292 (17.3)	1024 (14.9)	1117 (13.5)	1267 (18.1)	1175 (8.0)
Working men, 18 to 44	30307	1207 (11.1)	939 (8.4)	1015 (8.2)	1174 (10.7)	1083 (4.8)
Nonworking women, 18 to 44	27846	1196 (16.8)	952 (11.1)	1027 (10.7)	1176 (15.2)	1087 (6.8)
Working women, 18 to 44	26904	1160 (8.4)	907 (6.5)	998 (7.0)	1124 (8.1)	1047 (3.8)
Nonworking men, 45 to 64	7662	1188 (10.7)	972 (13.8)	1062 (16.0)	1163 (7.7)	1096 (6.2)
Working men, 45 to 64	12112	1204 (10.2)	927 (6.9)	992 (6.3)	1170 (9.5)	1073 (4.2)
Nonworking women, 45 to 64	11533	1164 (13.2)	920 (9.2)	1003 (10.9)	1136 (11.4)	1055 (5.6)
Working women, 45 to 64	10693	1153 (9.2)	901 (7.9)	981 (7.1)	1116 (9.4)	1038 (4.2)
Men, 65+	16214	1222 (17.2)	995 (13.1)	1092 (11.6)	1215 (18.2)	1131 (7.6)
Women, 65+	18525	1159 (14.8)	928 (11.6)	1014 (11.2)	1133 (14.4)	1058 (6.5)
Outdoor workers	1752	1302 (9.6)	992 (6.5)	1119 (5.2)	1241 (9.1)	1163 (3.9)
Outdoor children	18058	1301 (12.5)	1027 (10.6)	1103 (11.8)	1282 (12.6)	1178 (6.0)
Heart and respiratory	37298	1158 (12.5)	941 (12.0)	1022 (14.3)	1140 (13.2)	1065 (6.5)
All persons	258490	1247 (18.7)	989 (14.1)	1064 (14.0)	1224 (18.0)	1131 (8.2)

Highest quarter 1 exposure is 1302 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 1027 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest quarter 3 exposure is 1119 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1282 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest annual exposure is 1178 $\mu\text{g}/\text{m}^3$ for Outdoor children

Baltimore: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	60319	752 (9.8)	565 (7.7)	614 (7.9)	656 (8.5)	646 (4.2)
African americans	74300	733 (12.0)	547 (7.2)	596 (7.9)	634 (8.9)	627 (4.6)
Hispanics	2160	734 (13.0)	555 (8.9)	602 (8.9)	643 (10.9)	633 (5.3)
Household income lt \$10K	21221	709 (7.4)	531 (5.5)	577 (5.4)	618 (6.2)	608 (3.1)
Household income \$10K-\$25K	31407	746 (9.3)	563 (7.8)	608 (7.9)	652 (8.0)	642 (4.1)
Household income \$25K-\$50K	42398	752 (11.2)	566 (8.2)	616 (8.0)	657 (9.7)	647 (4.7)
Household income \$50K-\$75K	18138	759 (8.0)	571 (7.0)	621 (7.8)	664 (7.0)	653 (3.7)
Household income gt \$75K	12962	750 (8.6)	558 (5.9)	610 (5.8)	657 (7.5)	643 (3.5)
Children, 0 to 17	35266	747 (8.7)	563 (7.2)	615 (7.7)	652 (8.0)	644 (4.0)
Nonworking men, 18 to 44	15234	788 (10.4)	585 (8.3)	641 (7.7)	685 (9.9)	675 (4.6)
Working men, 18 to 44	14122	818 (7.2)	595 (5.5)	643 (5.3)	726 (6.6)	695 (3.1)
Nonworking women, 18 to 44	15607	729 (9.7)	544 (6.1)	593 (6.1)	635 (7.5)	625 (3.7)
Working women, 18 to 44	11862	773 (4.9)	561 (3.8)	614 (3.9)	681 (4.4)	657 (2.1)
Nonworking men, 45 to 64	4721	722 (5.9)	555 (7.8)	612 (9.4)	626 (3.7)	629 (3.5)
Working men, 45 to 64	5662	830 (6.8)	597 (4.8)	643 (4.2)	736 (6.2)	701 (2.8)
Nonworking women, 45 to 64	6496	710 (7.2)	527 (5.2)	579 (6.1)	614 (5.3)	607 (3.0)
Working women, 45 to 64	4630	765 (5.5)	559 (4.3)	606 (4.0)	675 (5.2)	651 (2.4)
Men, 65+	8423	740 (9.5)	567 (7.2)	628 (6.4)	652 (8.5)	646 (4.0)
Women, 65+	9512	706 (8.0)	530 (6.1)	585 (6.3)	611 (6.5)	607 (3.4)
Outdoor workers	802	944 (8.6)	674 (5.7)	755 (4.7)	837 (8.1)	802 (3.5)
Outdoor children	9846	787 (6.8)	586 (5.8)	636 (6.7)	685 (5.7)	673 (3.1)
Heart and respiratory	19577	707 (6.9)	538 (6.5)	589 (7.9)	617 (6.1)	612 (3.5)
All persons	137595	758 (10.6)	565 (7.8)	613 (7.9)	658 (8.8)	648 (4.4)

Highest quarter 1 exposure is 944 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 674 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 755 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 837 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 802 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Baltimore: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	1028168	812 (10.6)	550 (7.5)	644 (8.2)	751 (10.0)	689 (4.6)
African americans	143522	792 (13.0)	534 (7.2)	625 (8.3)	725 (10.4)	669 (5.0)
Hispanics	17001	792 (14.0)	541 (8.7)	632 (9.3)	734 (12.4)	675 (5.7)
Household income lt \$10K	127136	765 (7.9)	517 (5.2)	605 (5.6)	707 (7.4)	648 (3.3)
Household income \$10K-\$25K	79760	805 (10.1)	549 (7.7)	638 (8.3)	745 (9.3)	684 (4.4)
Household income \$25K-\$50K	282758	812 (12.1)	551 (8.0)	646 (8.4)	752 (11.3)	690 (5.1)
Household income \$50K-\$75K	255955	819 (8.7)	557 (6.8)	652 (8.2)	760 (8.3)	697 (4.0)
Household income gt \$75K	431043	810 (9.4)	544 (5.8)	640 (6.1)	751 (8.6)	686 (3.8)
Children, 0 to 17	298240	807 (9.5)	548 (7.0)	645 (8.0)	746 (9.4)	687 (4.3)
Nonworking men, 18 to 44	50889	850 (11.2)	570 (8.1)	673 (8.0)	781 (11.0)	718 (4.8)
Working men, 18 to 44	224334	862 (10.8)	580 (7.2)	668 (7.6)	795 (9.5)	726 (4.4)
Nonworking women, 18 to 44	101231	787 (10.5)	531 (6.0)	622 (6.3)	726 (8.7)	666 (4.0)
Working women, 18 to 44	175570	818 (7.3)	547 (4.8)	640 (5.7)	751 (6.3)	689 (3.0)
Nonworking men, 45 to 64	23226	780 (6.5)	541 (7.6)	641 (9.7)	716 (4.4)	669 (3.6)
Working men, 45 to 64	95946	871 (10.2)	582 (6.2)	666 (6.0)	803 (8.8)	730 (4.0)
Nonworking women, 45 to 64	47200	766 (7.7)	513 (5.0)	607 (6.4)	701 (6.2)	647 (3.2)
Working women, 45 to 64	76326	810 (8.5)	545 (6.0)	631 (5.9)	745 (7.9)	682 (3.6)
Men, 65+	55653	799 (10.2)	553 (6.9)	657 (6.6)	745 (10.0)	688 (4.3)
Women, 65+	59262	763 (8.8)	516 (6.0)	613 (6.5)	698 (7.8)	647 (3.7)
Outdoor workers	7564	979 (11.3)	659 (6.8)	777 (6.0)	892 (9.7)	827 (4.4)
Outdoor children	84105	850 (7.4)	571 (5.6)	667 (7.0)	785 (6.9)	718 (3.4)
Heart and respiratory	163352	764 (7.6)	524 (6.3)	618 (8.2)	705 (7.3)	652 (3.7)
All persons	1207886	819 (11.5)	551 (7.6)	643 (8.2)	753 (10.3)	691 (4.7)

Highest quarter 1 exposure is 979 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 659 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 777 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 892 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 827 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Boston: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	177599	815 (11.4)	576 (8.7)	517 (7.5)	718 (10.2)	656 (4.8)
African americans	2867	793 (14.8)	558 (8.7)	501 (7.3)	692 (10.8)	635 (5.4)
Hispanics	11241	784 (14.6)	562 (9.7)	505 (8.0)	696 (12.3)	636 (5.7)
Household income lt \$10K	30755	765 (8.8)	538 (6.4)	481 (5.2)	674 (8.0)	614 (3.6)
Household income \$10K-\$25K	39606	806 (11.0)	576 (9.4)	517 (8.5)	712 (9.5)	652 (4.8)
Household income \$25K-\$50K	70079	815 (13.0)	576 (9.1)	518 (7.4)	719 (11.5)	656 (5.2)
Household income \$50K-\$75K	38980	819 (9.1)	581 (8.1)	522 (7.5)	725 (8.6)	661 (4.2)
Household income gt \$75K	20757	819 (10.4)	566 (6.5)	511 (5.5)	714 (8.3)	652 (3.9)
Children, 0 to 17	51281	811 (10.1)	574 (7.9)	518 (7.2)	714 (9.5)	654 (4.4)
Nonworking men, 18 to 44	13384	854 (9.7)	590 (8.5)	525 (7.0)	751 (10.3)	679 (4.5)
Working men, 18 to 44	31926	859 (11.5)	606 (8.0)	541 (6.8)	753 (9.5)	689 (4.5)
Nonworking women, 18 to 44	19857	790 (11.7)	555 (7.5)	496 (5.8)	695 (9.4)	633 (4.4)
Working women, 18 to 44	26553	820 (8.1)	569 (5.6)	512 (4.9)	711 (6.6)	652 (3.2)
Nonworking men, 45 to 64	4945	783 (7.7)	577 (10.3)	528 (10.6)	688 (5.0)	643 (4.3)
Working men, 45 to 64	12543	868 (10.7)	605 (6.9)	538 (5.2)	757 (8.7)	691 (4.1)
Nonworking women, 45 to 64	7502	782 (10.4)	540 (6.7)	485 (5.8)	677 (7.8)	620 (3.9)
Working women, 45 to 64	10505	811 (8.6)	568 (6.6)	510 (5.4)	706 (8.0)	648 (3.6)
Men, 65+	10644	801 (10.9)	574 (8.3)	525 (6.4)	714 (10.8)	653 (4.7)
Women, 65+	11066	770 (9.7)	538 (7.1)	484 (5.8)	673 (8.7)	616 (4.0)
Outdoor workers	5816	992 (11.4)	698 (7.6)	635 (5.3)	850 (9.5)	793 (4.4)
Outdoor children	14423	861 (8.8)	601 (7.1)	537 (6.6)	756 (7.7)	688 (3.8)
Heart and respiratory	27394	758 (6.9)	545 (7.1)	495 (6.9)	670 (7.5)	616 (3.6)
All persons	200206	827 (12.8)	578 (9.0)	516 (7.6)	723 (10.9)	661 (5.1)

Highest quarter 1 exposure is 992 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 698 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 635 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 850 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 793 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Boston: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	551160	810 (11.2)	630 (9.2)	621 (9.0)	643 (8.9)	676 (4.8)
African americans	159807	789 (14.7)	612 (9.3)	603 (8.7)	619 (9.5)	655 (5.4)
Hispanics	63300	780 (14.7)	617 (10.6)	609 (9.6)	625 (11.1)	657 (5.8)
Household income lt \$10K	143898	761 (8.9)	590 (6.9)	579 (6.4)	604 (6.9)	633 (3.7)
Household income \$10K-\$25K	174095	800 (10.6)	630 (9.9)	621 (10.0)	637 (8.3)	671 (4.9)
Household income \$25K-\$50K	243811	811 (12.9)	631 (9.7)	622 (8.9)	644 (10.1)	677 (5.2)
Household income \$50K-\$75K	125598	815 (8.9)	637 (8.5)	628 (8.9)	650 (7.5)	682 (4.2)
Household income gt \$75K	98159	811 (10.0)	622 (7.0)	615 (6.7)	641 (7.3)	672 (3.9)
Children, 0 to 17	140843	806 (9.9)	628 (8.4)	623 (8.6)	639 (8.3)	673 (4.4)
Nonworking men, 18 to 44	66033	857 (10.2)	649 (9.5)	632 (8.4)	675 (9.6)	703 (4.7)
Working men, 18 to 44	138059	852 (8.6)	656 (6.5)	640 (6.1)	682 (6.4)	707 (3.5)
Nonworking women, 18 to 44	90964	788 (11.7)	608 (8.0)	597 (7.0)	623 (8.2)	653 (4.4)
Working women, 18 to 44	134627	815 (6.2)	619 (4.6)	609 (4.6)	645 (4.4)	671 (2.5)
Nonworking men, 45 to 64	17573	777 (7.1)	630 (11.3)	635 (12.9)	614 (4.1)	663 (4.8)
Working men, 45 to 64	39749	860 (8.2)	653 (5.5)	634 (4.6)	687 (5.9)	708 (3.1)
Nonworking women, 45 to 64	27045	779 (10.4)	592 (7.2)	584 (7.1)	606 (6.6)	640 (4.0)
Working women, 45 to 64	38423	804 (6.3)	616 (5.4)	604 (4.9)	638 (5.2)	665 (2.7)
Men, 65+	43642	793 (10.6)	626 (8.5)	626 (7.5)	636 (9.1)	670 (4.5)
Women, 65+	50825	765 (9.2)	588 (7.2)	580 (6.6)	600 (7.1)	633 (3.8)
Outdoor workers	17047	973 (8.4)	742 (5.9)	736 (4.6)	770 (6.5)	805 (3.2)
Outdoor children	41092	856 (8.9)	657 (7.5)	646 (8.0)	676 (6.7)	708 (3.9)
Heart and respiratory	109610	752 (6.5)	597 (7.4)	593 (7.8)	600 (6.4)	635 (3.5)
All persons	787784	821 (12.4)	632 (9.5)	620 (9.0)	647 (9.3)	680 (5.1)

Highest quarter 1 exposure is 973 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 742 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 736 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 770 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 805 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Boston: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	27404	761 (10.8)	535 (7.7)	550 (7.8)	619 (8.8)	616 (4.4)
African americans	499	739 (13.8)	521 (8.1)	534 (7.6)	596 (9.4)	597 (5.0)
Hispanics	2927	731 (13.6)	524 (8.8)	538 (8.2)	599 (10.4)	597 (5.2)
Household income lt \$10K	6109	713 (8.3)	500 (5.7)	511 (5.4)	579 (6.8)	575 (3.3)
Household income \$10K-\$25K	8363	752 (10.3)	535 (8.4)	550 (8.8)	612 (8.1)	612 (4.5)
Household income \$25K-\$50K	8380	761 (12.3)	535 (8.1)	551 (7.7)	619 (9.9)	616 (4.8)
Household income \$50K-\$75K	4888	765 (8.6)	540 (7.1)	555 (7.7)	625 (7.4)	621 (3.9)
Household income gt \$75K	2222	766 (10.0)	529 (6.0)	545 (5.8)	617 (7.4)	614 (3.7)
Children, 0 to 17	5240	759 (9.5)	533 (7.0)	551 (7.4)	616 (8.2)	614 (4.0)
Nonworking men, 18 to 44	2178	797 (9.0)	546 (7.5)	558 (7.1)	643 (8.5)	635 (4.0)
Working men, 18 to 44	4965	791 (7.3)	574 (5.4)	576 (5.1)	646 (5.6)	646 (2.9)
Nonworking women, 18 to 44	3520	737 (10.9)	514 (6.6)	527 (6.0)	596 (8.0)	593 (4.0)
Working women, 18 to 44	4142	758 (5.4)	539 (3.7)	546 (3.8)	612 (3.9)	613 (2.1)
Nonworking men, 45 to 64	828	731 (7.2)	532 (9.1)	559 (10.9)	591 (4.2)	602 (4.1)
Working men, 45 to 64	1788	797 (7.0)	576 (4.6)	572 (3.9)	651 (5.1)	648 (2.6)
Nonworking women, 45 to 64	1332	729 (9.7)	501 (5.8)	516 (5.9)	581 (6.4)	581 (3.6)
Working women, 45 to 64	1582	749 (5.7)	536 (4.2)	542 (4.1)	606 (4.9)	608 (2.4)
Men, 65+	2169	747 (10.2)	529 (7.0)	554 (6.3)	613 (9.0)	610 (4.1)
Women, 65+	2388	718 (9.2)	498 (5.9)	514 (5.8)	577 (7.3)	576 (3.6)
Outdoor workers	786	906 (7.0)	668 (5.5)	674 (4.3)	730 (5.4)	744 (2.8)
Outdoor children	1407	806 (8.4)	558 (6.2)	571 (6.8)	653 (6.5)	646 (3.5)
Heart and respiratory	4534	707 (6.5)	507 (6.1)	526 (6.9)	577 (6.5)	579 (3.3)
All persons	30132	772 (12.0)	537 (8.0)	549 (7.8)	623 (9.3)	620 (4.7)

Highest quarter 1 exposure is 906 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 668 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 674 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 730 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 744 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Boston: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	238138	525 (7.1)	422 (5.8)	357 (4.8)	476 (6.6)	445 (3.1)
African americans	7647	512 (9.5)	411 (6.2)	348 (4.8)	459 (7.1)	432 (3.5)
Hispanics	17294	506 (9.4)	414 (6.9)	351 (5.3)	462 (8.1)	433 (3.8)
Household income lt \$10K	42580	493 (5.4)	395 (4.2)	334 (3.2)	447 (5.0)	417 (2.3)
Household income \$10K-\$25K	57174	519 (6.7)	422 (6.3)	357 (5.4)	472 (6.1)	442 (3.1)
Household income \$25K-\$50K	96932	525 (8.1)	422 (6.1)	358 (4.8)	477 (7.4)	445 (3.4)
Household income \$50K-\$75K	43745	528 (5.6)	425 (5.3)	360 (4.7)	481 (5.5)	448 (2.6)
Household income gt \$75K	21107	527 (6.5)	417 (4.5)	354 (3.7)	475 (5.5)	443 (2.6)
Children, 0 to 17	52644	522 (6.2)	420 (5.2)	357 (4.5)	473 (6.1)	443 (2.8)
Nonworking men, 18 to 44	18328	551 (6.2)	433 (6.0)	364 (4.6)	497 (6.8)	461 (3.0)
Working men, 18 to 44	37857	604 (6.1)	482 (4.9)	417 (4.6)	535 (4.9)	509 (2.6)
Nonworking women, 18 to 44	28465	509 (7.3)	406 (5.0)	343 (3.6)	460 (6.0)	429 (2.8)
Working women, 18 to 44	33075	570 (4.1)	446 (3.2)	385 (3.1)	501 (3.2)	475 (1.7)
Nonworking men, 45 to 64	7667	505 (4.8)	420 (7.2)	361 (6.9)	455 (3.1)	435 (2.9)
Working men, 45 to 64	16152	619 (5.6)	485 (4.1)	421 (3.5)	543 (4.5)	517 (2.2)
Nonworking women, 45 to 64	12192	503 (6.3)	396 (4.4)	336 (3.6)	448 (4.8)	420 (2.4)
Working women, 45 to 64	14168	557 (4.4)	443 (3.5)	383 (3.1)	495 (4.0)	469 (1.9)
Men, 65+	20151	514 (6.6)	418 (5.3)	359 (3.8)	471 (6.7)	440 (2.9)
Women, 65+	22350	496 (5.9)	394 (4.5)	335 (3.4)	445 (5.3)	417 (2.4)
Outdoor workers	7148	736 (7.5)	584 (5.3)	523 (4.3)	632 (5.8)	618 (2.9)
Outdoor children	14324	553 (5.4)	437 (4.6)	369 (4.1)	500 (4.8)	464 (2.4)
Heart and respiratory	40621	489 (4.3)	401 (4.6)	342 (4.1)	445 (4.7)	419 (2.2)
All persons	263049	532 (7.9)	423 (6.0)	357 (4.8)	479 (6.9)	447 (3.2)

Highest quarter 1 exposure is 736 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 584 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 523 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 632 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 618 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Boston: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	113131	780 (11.8)	595 (9.4)	632 (9.8)	681 (10.7)	672 (5.2)
African americans	5395	753 (14.1)	575 (9.2)	612 (9.3)	650 (10.5)	647 (5.5)
Hispanics	4888	744 (14.1)	579 (10.2)	617 (10.0)	655 (11.9)	649 (5.8)
Household income lt \$10K	24214	730 (9.5)	555 (7.1)	586 (6.8)	637 (9.0)	627 (4.1)
Household income \$10K-\$25K	29391	770 (11.3)	595 (10.0)	632 (10.9)	672 (9.7)	667 (5.3)
Household income \$25K-\$50K	44279	780 (13.4)	595 (9.7)	633 (9.7)	682 (11.9)	672 (5.6)
Household income \$50K-\$75K	21228	783 (9.4)	601 (8.7)	638 (9.6)	689 (9.3)	677 (4.6)
Household income gt \$75K	13063	778 (10.3)	584 (7.1)	621 (7.1)	675 (8.7)	664 (4.2)
Children, 0 to 17	20402	776 (10.6)	594 (8.6)	633 (9.2)	679 (10.1)	670 (4.8)
Nonworking men, 18 to 44	9991	823 (10.1)	610 (8.9)	645 (8.7)	712 (10.2)	697 (4.8)
Working men, 18 to 44	23264	811 (8.5)	611 (6.2)	625 (5.9)	692 (7.0)	684 (3.5)
Nonworking women, 18 to 44	14508	758 (12.1)	572 (8.0)	604 (7.4)	658 (9.8)	648 (4.7)
Working women, 18 to 44	21102	777 (6.4)	576 (4.6)	600 (5.0)	656 (5.3)	651 (2.7)
Nonworking men, 45 to 64	3693	747 (7.4)	597 (11.1)	647 (13.3)	650 (4.9)	660 (4.9)
Working men, 45 to 64	8076	815 (8.0)	607 (5.3)	613 (4.7)	692 (6.4)	681 (3.1)
Nonworking women, 45 to 64	5368	752 (11.5)	557 (7.3)	589 (7.3)	640 (8.4)	634 (4.4)
Working women, 45 to 64	7422	768 (6.5)	576 (5.4)	600 (5.5)	652 (6.3)	649 (3.0)
Men, 65+	8976	768 (11.6)	594 (9.0)	641 (8.3)	678 (11.6)	670 (5.1)
Women, 65+	9906	736 (9.8)	555 (7.7)	590 (7.4)	634 (8.9)	628 (4.3)
Outdoor workers	3211	930 (7.6)	694 (5.3)	707 (3.9)	769 (5.7)	775 (2.9)
Outdoor children	5695	830 (9.8)	624 (7.7)	658 (8.6)	725 (8.7)	709 (4.4)
Heart and respiratory	19643	720 (6.8)	563 (7.8)	604 (8.8)	632 (8.1)	629 (4.0)
All persons	132708	792 (13.1)	598 (9.7)	631 (9.8)	687 (11.3)	676 (5.5)

Highest quarter 1 exposure is 930 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 694 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 707 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 769 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 775 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Boston: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	2249568	738 (10.4)	552 (8.1)	537 (7.7)	627 (9.0)	613 (4.4)
African americans	55906	717 (13.3)	536 (8.3)	521 (7.5)	603 (9.5)	594 (4.9)
Hispanics	80932	709 (13.3)	539 (9.2)	525 (8.2)	607 (10.7)	595 (5.3)
Household income lt \$10K	248280	692 (8.2)	515 (6.0)	499 (5.4)	588 (7.2)	573 (3.4)
Household income \$10K-\$25K	425004	729 (10.0)	551 (8.8)	536 (8.7)	621 (8.3)	609 (4.5)
Household income \$25K-\$50K	803022	738 (11.9)	552 (8.5)	538 (7.7)	628 (10.1)	613 (4.8)
Household income \$50K-\$75K	491000	742 (8.3)	557 (7.5)	542 (7.6)	634 (7.6)	618 (3.9)
Household income gt \$75K	389578	740 (9.4)	544 (6.2)	530 (5.7)	625 (7.4)	609 (3.6)
Children, 0 to 17	552231	735 (9.2)	550 (7.4)	538 (7.4)	624 (8.4)	611 (4.1)
Nonworking men, 18 to 44	132636	776 (9.0)	566 (8.1)	546 (7.1)	656 (9.0)	635 (4.2)
Working men, 18 to 44	377909	785 (11.3)	584 (8.2)	561 (7.5)	664 (9.1)	648 (4.6)
Nonworking women, 18 to 44	221558	716 (10.7)	531 (7.0)	514 (5.9)	606 (8.3)	592 (4.1)
Working women, 18 to 44	323647	749 (8.1)	549 (5.7)	531 (5.5)	626 (6.2)	613 (3.2)
Nonworking men, 45 to 64	59420	709 (6.8)	551 (9.8)	547 (10.9)	599 (4.2)	601 (4.2)
Working men, 45 to 64	173092	793 (10.6)	584 (7.0)	557 (5.8)	669 (8.3)	650 (4.1)
Nonworking women, 45 to 64	101325	709 (9.7)	517 (6.3)	503 (5.9)	590 (6.8)	579 (3.6)
Working women, 45 to 64	147488	739 (8.4)	547 (6.7)	529 (6.0)	621 (7.5)	608 (3.6)
Men, 65+	145090	725 (10.0)	548 (7.6)	542 (6.5)	622 (9.4)	609 (4.2)
Women, 65+	158381	697 (8.7)	514 (6.5)	501 (5.8)	586 (7.5)	574 (3.6)
Outdoor workers	65839	910 (11.3)	674 (7.8)	656 (6.0)	755 (9.1)	748 (4.4)
Outdoor children	156311	781 (8.2)	575 (6.6)	557 (6.8)	662 (6.9)	643 (3.6)
Heart and respiratory	346747	685 (6.2)	523 (6.6)	513 (6.9)	585 (6.6)	576 (3.3)
All persons	2392739	749 (11.6)	553 (8.4)	536 (7.8)	632 (9.5)	617 (4.7)

Highest quarter 1 exposure is 910 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 674 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 656 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 755 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 748 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Chicago: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	608153	557 (7.4)	517 (6.9)	375 (5.1)	508 (6.6)	489 (3.3)
African americans	79852	545 (10.1)	501 (7.1)	366 (5.2)	495 (8.2)	476 (3.9)
Hispanics	171723	539 (10.0)	507 (8.3)	369 (5.7)	495 (8.8)	477 (4.2)
Household income lt \$10K	145169	524 (5.5)	485 (4.8)	350 (3.3)	479 (4.9)	459 (2.3)
Household income \$10K-\$25K	253346	552 (7.4)	515 (7.0)	375 (5.7)	504 (6.3)	486 (3.3)
Household income \$25K-\$50K	283984	556 (8.5)	518 (7.4)	376 (5.1)	508 (7.5)	489 (3.6)
Household income \$50K-\$75K	103337	559 (5.9)	522 (6.3)	378 (5.0)	512 (5.4)	493 (2.8)
Household income gt \$75K	67058	555 (6.5)	514 (5.5)	372 (3.9)	505 (5.6)	486 (2.7)
Children, 0 to 17	177664	553 (6.3)	515 (6.5)	374 (4.7)	504 (5.8)	486 (2.9)
Nonworking men, 18 to 44	54527	586 (6.6)	534 (7.4)	383 (5.2)	534 (7.0)	509 (3.3)
Working men, 18 to 44	151569	582 (4.4)	533 (3.6)	412 (3.1)	544 (3.9)	517 (1.9)
Nonworking women, 18 to 44	90673	543 (8.1)	498 (5.5)	360 (3.8)	493 (6.6)	473 (3.1)
Working women, 18 to 44	123743	556 (3.2)	505 (2.5)	383 (2.1)	516 (2.7)	490 (1.3)
Nonworking men, 45 to 64	19957	540 (5.7)	510 (7.6)	382 (7.6)	490 (4.5)	480 (3.2)
Working men, 45 to 64	53641	584 (4.1)	532 (3.1)	412 (2.4)	550 (3.6)	519 (1.7)
Nonworking women, 45 to 64	34190	537 (7.0)	487 (5.1)	354 (4.0)	482 (5.2)	464 (2.7)
Working women, 45 to 64	43671	551 (3.3)	503 (3.0)	385 (2.3)	510 (3.0)	487 (1.5)
Men, 65+	54783	548 (7.1)	517 (6.4)	376 (4.1)	500 (6.5)	485 (3.1)
Women, 65+	59341	530 (6.4)	486 (5.6)	351 (3.6)	478 (5.6)	461 (2.7)
Outdoor workers	22922	667 (4.4)	596 (3.2)	491 (2.6)	624 (4.2)	594 (1.8)
Outdoor children	49373	584 (5.7)	536 (5.3)	385 (4.3)	531 (4.6)	509 (2.5)
Heart and respiratory	124942	521 (4.4)	491 (5.9)	360 (4.5)	477 (4.7)	462 (2.4)
All persons	863750	565 (8.4)	518 (7.1)	375 (5.1)	512 (7.2)	492 (3.5)

Highest quarter 1 exposure is 667 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 596 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 491 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 624 µg/m3 for Outdoor workers
 Highest annual exposure is 594 µg/m3 for Outdoor workers

Chicago: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	237386	514 (7.6)	534 (7.9)	441 (6.7)	534 (8.0)	506 (3.8)
African americans	217026	498 (9.5)	516 (7.8)	430 (6.7)	515 (8.8)	490 (4.1)
Hispanics	146485	492 (9.4)	522 (8.8)	433 (7.1)	514 (9.3)	490 (4.3)
Household income lt \$10K	198866	482 (6.0)	499 (5.8)	409 (4.4)	501 (6.4)	473 (2.9)
Household income \$10K-\$25K	147753	509 (7.6)	531 (7.9)	442 (7.6)	528 (7.5)	503 (3.8)
Household income \$25K-\$50K	130418	514 (8.7)	535 (8.3)	442 (6.6)	534 (9.0)	506 (4.1)
Household income \$50K-\$75K	43460	516 (6.1)	540 (7.3)	445 (6.5)	538 (6.6)	510 (3.3)
Household income gt \$75K	38599	512 (6.9)	530 (6.1)	435 (5.0)	529 (6.7)	501 (3.1)
Children, 0 to 17	155879	512 (6.7)	534 (7.4)	441 (6.2)	531 (7.2)	504 (3.4)
Nonworking men, 18 to 44	49294	540 (6.5)	550 (7.6)	449 (6.2)	558 (7.4)	524 (3.5)
Working men, 18 to 44	81485	535 (4.9)	534 (4.4)	456 (3.8)	552 (4.8)	519 (2.3)
Nonworking women, 18 to 44	70576	499 (8.0)	513 (6.3)	421 (4.9)	517 (7.7)	487 (3.4)
Working women, 18 to 44	68495	512 (3.6)	507 (3.3)	430 (2.7)	524 (3.5)	493 (1.7)
Nonworking men, 45 to 64	16410	498 (5.8)	528 (8.3)	451 (9.5)	514 (4.9)	498 (3.7)
Working men, 45 to 64	25870	536 (4.5)	530 (3.7)	451 (3.0)	554 (4.4)	518 (2.0)
Nonworking women, 45 to 64	23776	496 (7.5)	500 (5.8)	411 (4.9)	505 (6.6)	478 (3.1)
Working women, 45 to 64	22167	507 (3.7)	507 (3.9)	433 (3.1)	521 (3.9)	492 (1.8)
Men, 65+	27257	509 (7.5)	538 (7.7)	445 (5.5)	530 (8.2)	505 (3.6)
Women, 65+	30676	488 (6.7)	500 (6.5)	411 (4.8)	502 (7.0)	475 (3.1)
Outdoor workers	13018	624 (4.6)	589 (3.6)	528 (2.9)	628 (4.6)	592 (2.0)
Outdoor children	43924	546 (6.1)	559 (6.4)	457 (5.8)	566 (6.1)	532 (3.0)
Heart and respiratory	75923	478 (4.6)	505 (6.7)	422 (5.9)	498 (5.7)	476 (2.9)
All persons	571886	523 (8.7)	536 (8.1)	441 (6.7)	540 (8.7)	510 (4.0)

Highest quarter 1 exposure is 624 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 589 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 528 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 628 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 592 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Chicago: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	188313	317 (4.1)	302 (3.9)	302 (4.0)	376 (4.7)	324 (2.1)
African americans	125778	312 (5.8)	293 (4.1)	295 (4.2)	368 (6.0)	317 (2.6)
Hispanics	23254	308 (5.7)	296 (4.9)	297 (4.6)	368 (6.5)	318 (2.7)
Household income lt \$10K	61321	299 (3.0)	283 (2.7)	282 (2.6)	355 (3.4)	305 (1.5)
Household income \$10K-\$25K	80327	314 (3.9)	300 (4.0)	302 (4.6)	374 (4.5)	323 (2.1)
Household income \$25K-\$50K	123944	318 (4.7)	302 (4.2)	302 (4.0)	377 (5.4)	325 (2.3)
Household income \$50K-\$75K	45271	320 (3.3)	304 (3.6)	304 (3.9)	380 (3.9)	327 (1.8)
Household income gt \$75K	17525	318 (3.6)	301 (3.2)	299 (3.1)	375 (4.0)	323 (1.8)
Children, 0 to 17	90626	315 (3.5)	300 (3.7)	301 (3.8)	373 (4.1)	323 (1.9)
Nonworking men, 18 to 44	22196	335 (3.8)	312 (4.4)	307 (4.0)	395 (5.1)	338 (2.2)
Working men, 18 to 44	40192	370 (3.8)	345 (3.4)	343 (3.5)	419 (3.8)	369 (1.8)
Nonworking women, 18 to 44	33844	309 (4.4)	291 (3.1)	290 (3.0)	366 (4.8)	314 (2.0)
Working women, 18 to 44	34780	349 (2.6)	319 (2.2)	317 (2.3)	395 (2.5)	345 (1.2)
Nonworking men, 45 to 64	10724	306 (3.0)	297 (4.4)	308 (6.3)	363 (3.0)	318 (2.2)
Working men, 45 to 64	20380	379 (3.5)	349 (2.9)	345 (2.7)	425 (3.5)	374 (1.6)
Nonworking women, 45 to 64	16626	304 (3.6)	284 (2.9)	284 (3.2)	357 (3.6)	308 (1.7)
Working women, 45 to 64	17419	340 (2.7)	319 (2.5)	318 (2.4)	390 (2.8)	342 (1.3)
Men, 65+	19849	309 (3.6)	302 (3.7)	302 (3.2)	370 (4.5)	321 (1.9)
Women, 65+	21745	301 (3.4)	283 (3.1)	282 (2.8)	355 (4.0)	305 (1.7)
Outdoor workers	9194	452 (4.8)	412 (3.6)	418 (3.0)	491 (4.5)	443 (2.0)
Outdoor children	26719	333 (3.0)	312 (3.0)	310 (3.4)	392 (3.3)	337 (1.6)
Heart and respiratory	47194	297 (2.5)	287 (3.3)	289 (3.5)	354 (3.3)	307 (1.6)
All persons	328381	322 (4.5)	302 (4.0)	301 (4.1)	379 (5.1)	326 (2.2)

Highest quarter 1 exposure is 452 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 412 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 418 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 491 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 443 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Chicago: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	209060	588 (8.0)	502 (6.7)	465 (6.3)	379 (5.1)	483 (3.3)
African americans	1324	574 (10.5)	489 (7.0)	456 (6.6)	369 (6.1)	471 (3.9)
Hispanics	20161	567 (10.4)	494 (8.0)	458 (7.0)	368 (6.4)	471 (4.0)
Household income lt \$10K	16977	554 (6.0)	473 (4.9)	435 (4.2)	357 (4.0)	454 (2.4)
Household income \$10K-\$25K	54926	581 (7.8)	500 (6.9)	466 (7.1)	375 (4.9)	480 (3.4)
Household income \$25K-\$50K	92763	589 (9.2)	503 (7.2)	466 (6.3)	379 (5.8)	483 (3.6)
Household income \$50K-\$75K	40009	591 (6.3)	507 (6.1)	469 (6.1)	382 (4.1)	486 (2.8)
Household income gt \$75K	17997	587 (7.3)	500 (5.4)	461 (4.8)	379 (4.5)	481 (2.8)
Children, 0 to 17	46612	584 (6.8)	501 (6.4)	465 (5.8)	377 (4.6)	481 (3.0)
Nonworking men, 18 to 44	11520	619 (7.0)	517 (6.9)	470 (5.8)	395 (4.8)	500 (3.1)
Working men, 18 to 44	34757	617 (4.7)	526 (3.7)	499 (3.9)	440 (4.0)	520 (2.0)
Nonworking women, 18 to 44	21170	572 (8.5)	484 (5.3)	445 (4.5)	366 (5.0)	466 (3.0)
Working women, 18 to 44	27573	591 (3.4)	497 (2.5)	469 (2.6)	411 (2.8)	491 (1.4)
Nonworking men, 45 to 64	5907	566 (5.7)	495 (7.4)	472 (9.4)	362 (2.8)	473 (3.4)
Working men, 45 to 64	17069	623 (4.4)	526 (3.1)	498 (3.0)	450 (3.7)	524 (1.8)
Nonworking women, 45 to 64	10777	565 (7.2)	473 (4.9)	437 (4.7)	357 (3.7)	457 (2.6)
Working women, 45 to 64	13697	585 (3.6)	495 (3.0)	469 (2.9)	406 (3.1)	488 (1.6)
Men, 65+	17269	578 (7.5)	503 (6.3)	464 (4.8)	373 (4.9)	479 (3.0)
Women, 65+	18775	557 (6.6)	471 (5.0)	434 (4.0)	354 (4.0)	453 (2.5)
Outdoor workers	7674	706 (4.8)	591 (3.4)	580 (3.2)	531 (5.2)	602 (2.1)
Outdoor children	13377	619 (6.0)	522 (5.3)	479 (5.4)	399 (3.7)	504 (2.6)
Heart and respiratory	34892	550 (4.8)	477 (5.3)	446 (5.0)	355 (3.5)	456 (2.4)
All persons	225126	597 (8.9)	503 (6.9)	465 (6.3)	382 (5.5)	486 (3.5)

Highest quarter 1 exposure is 706 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 591 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 580 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 531 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 602 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Chicago: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	326725	429 (5.6)	281 (3.6)	453 (6.0)	445 (5.6)	402 (2.6)
African americans	250483	421 (7.9)	273 (3.8)	442 (6.2)	435 (7.1)	393 (3.2)
Hispanics	198683	416 (7.8)	277 (4.5)	446 (6.9)	435 (7.7)	394 (3.4)
Household income lt \$10K	192306	404 (4.2)	264 (2.4)	424 (3.9)	420 (4.0)	378 (1.8)
Household income \$10K-\$25K	213327	425 (5.3)	280 (3.7)	453 (6.8)	443 (5.4)	400 (2.7)
Household income \$25K-\$50K	212275	429 (6.4)	281 (3.9)	454 (6.0)	446 (6.4)	403 (2.9)
Household income \$50K-\$75K	61836	432 (4.5)	283 (3.2)	457 (5.9)	449 (4.6)	406 (2.3)
Household income gt \$75K	21192	430 (5.0)	281 (3.1)	450 (4.6)	443 (4.8)	401 (2.2)
Children, 0 to 17	216577	427 (4.7)	280 (3.4)	452 (5.6)	442 (4.9)	400 (2.4)
Nonworking men, 18 to 44	59040	452 (5.1)	291 (4.0)	461 (6.1)	467 (6.0)	418 (2.7)
Working men, 18 to 44	90239	486 (3.8)	343 (3.2)	489 (3.6)	496 (3.8)	454 (1.8)
Nonworking women, 18 to 44	85013	418 (6.0)	271 (2.8)	436 (4.4)	433 (5.7)	389 (2.4)
Working women, 18 to 44	70183	460 (2.6)	314 (2.1)	457 (2.4)	467 (2.5)	425 (1.2)
Nonworking men, 45 to 64	21800	415 (4.2)	276 (4.0)	462 (9.4)	431 (4.1)	396 (3.0)
Working men, 45 to 64	34365	496 (3.5)	350 (2.8)	488 (2.7)	504 (3.5)	459 (1.6)
Nonworking women, 45 to 64	32776	412 (5.0)	265 (2.5)	428 (4.8)	423 (4.4)	382 (2.1)
Working women, 45 to 64	27702	451 (2.7)	313 (2.3)	457 (2.6)	461 (2.9)	421 (1.3)
Men, 65+	36582	419 (5.0)	280 (3.2)	454 (4.7)	439 (5.5)	398 (2.4)
Women, 65+	39458	407 (4.7)	264 (2.7)	424 (4.2)	422 (5.0)	379 (2.1)
Outdoor workers	22391	584 (4.7)	427 (3.6)	572 (3.0)	586 (4.6)	542 (2.0)
Outdoor children	62316	451 (4.1)	290 (2.7)	466 (5.1)	463 (3.8)	418 (2.0)
Heart and respiratory	96192	402 (3.4)	267 (2.9)	435 (5.2)	420 (4.0)	381 (2.0)
All persons	713724	435 (6.3)	281 (3.7)	453 (6.0)	449 (6.2)	405 (2.8)

Highest quarter 1 exposure is 584 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 427 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 572 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 586 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 542 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Chicago: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	291088	331 (4.4)	347 (4.5)	363 (4.7)	453 (5.6)	374 (2.4)
African americans	2171	324 (6.0)	337 (4.7)	355 (5.0)	443 (7.2)	365 (2.9)
Hispanics	15236	319 (5.9)	340 (5.4)	357 (5.4)	442 (7.6)	365 (3.1)
Household income lt \$10K	18653	311 (3.4)	326 (3.2)	339 (3.1)	427 (4.1)	351 (1.7)
Household income \$10K-\$25K	60580	327 (4.1)	345 (4.6)	363 (5.3)	449 (5.4)	372 (2.5)
Household income \$25K-\$50K	116308	331 (5.1)	347 (4.8)	363 (4.7)	453 (6.5)	374 (2.7)
Household income \$50K-\$75K	64344	333 (3.5)	350 (4.1)	365 (4.6)	457 (4.6)	376 (2.1)
Household income gt \$75K	45526	334 (4.2)	346 (3.7)	360 (3.8)	454 (5.1)	374 (2.1)
Children, 0 to 17	63108	330 (3.9)	346 (4.3)	362 (4.4)	450 (5.0)	372 (2.2)
Nonworking men, 18 to 44	14369	347 (3.9)	357 (4.7)	368 (4.6)	473 (5.8)	387 (2.4)
Working men, 18 to 44	46931	391 (3.6)	390 (3.2)	403 (3.3)	493 (3.8)	419 (1.8)
Nonworking women, 18 to 44	26748	321 (4.6)	334 (3.5)	348 (3.4)	438 (5.6)	361 (2.2)
Working women, 18 to 44	39199	368 (2.6)	363 (2.1)	375 (2.2)	467 (2.5)	394 (1.2)
Nonworking men, 45 to 64	8923	317 (2.9)	341 (5.1)	367 (7.5)	435 (3.4)	365 (2.5)
Working men, 45 to 64	26931	404 (3.4)	394 (2.8)	405 (2.6)	501 (3.6)	426 (1.6)
Nonworking women, 45 to 64	16444	315 (3.7)	326 (3.3)	342 (3.7)	427 (4.0)	353 (1.8)
Working women, 45 to 64	22425	360 (2.7)	362 (2.5)	375 (2.4)	462 (3.0)	390 (1.3)
Men, 65+	25325	321 (3.9)	346 (4.1)	361 (3.6)	444 (5.2)	368 (2.1)
Women, 65+	28194	311 (3.6)	324 (3.3)	338 (3.1)	425 (4.5)	350 (1.8)
Outdoor workers	8765	480 (4.6)	459 (3.3)	477 (2.8)	566 (4.3)	496 (1.9)
Outdoor children	17864	350 (3.3)	359 (3.5)	372 (4.0)	473 (3.8)	389 (1.8)
Heart and respiratory	50880	309 (2.7)	329 (3.6)	348 (3.9)	427 (3.9)	353 (1.8)
All persons	318591	335 (4.9)	347 (4.6)	362 (4.8)	456 (6.1)	375 (2.6)

Highest quarter 1 exposure is 480 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 459 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 477 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 566 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 496 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Chicago: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	274325	789 (10.9)	659 (9.0)	827 (11.3)	912 (12.3)	797 (5.5)
African americans	58437	769 (14.4)	640 (9.4)	808 (11.7)	885 (14.7)	776 (6.4)
Hispanics	26139	759 (14.2)	646 (10.6)	813 (12.6)	885 (15.6)	776 (6.7)
Household income lt \$10K	30547	740 (8.4)	617 (6.4)	771 (7.7)	857 (9.3)	747 (4.0)
Household income \$10K-\$25K	78896	781 (10.4)	656 (9.2)	827 (12.8)	904 (11.7)	792 (5.6)
Household income \$25K-\$50K	130724	789 (12.5)	660 (9.6)	828 (11.3)	912 (13.9)	797 (6.0)
Household income \$50K-\$75K	60305	794 (8.7)	665 (8.1)	833 (11.0)	920 (10.2)	804 (4.8)
Household income gt \$75K	40536	792 (9.9)	657 (7.3)	819 (8.7)	909 (10.4)	795 (4.6)
Children, 0 to 17	79710	786 (9.5)	657 (8.5)	826 (10.6)	906 (11.0)	794 (5.0)
Nonworking men, 18 to 44	18809	831 (9.5)	679 (9.1)	838 (10.7)	955 (12.1)	826 (5.2)
Working men, 18 to 44	51029	786 (6.1)	650 (4.6)	804 (5.6)	884 (6.6)	781 (2.9)
Nonworking women, 18 to 44	33136	766 (11.4)	633 (7.1)	792 (8.3)	883 (12.0)	769 (5.0)
Working women, 18 to 44	43911	760 (4.7)	622 (3.4)	775 (4.2)	853 (5.1)	753 (2.2)
Nonworking men, 45 to 64	9193	759 (7.6)	647 (9.5)	840 (17.1)	876 (7.6)	781 (5.6)
Working men, 45 to 64	24466	788 (6.0)	645 (3.8)	791 (4.3)	883 (6.3)	777 (2.6)
Nonworking women, 45 to 64	16334	756 (9.8)	617 (6.4)	777 (8.7)	862 (9.6)	753 (4.4)
Working women, 45 to 64	20836	754 (4.7)	619 (4.0)	771 (4.9)	848 (5.5)	748 (2.4)
Men, 65+	26561	769 (9.9)	659 (8.3)	825 (8.9)	896 (12.0)	788 (4.9)
Women, 65+	29533	745 (9.1)	616 (6.8)	770 (7.6)	856 (10.4)	747 (4.3)
Outdoor workers	9838	860 (5.6)	703 (3.6)	863 (3.6)	938 (6.0)	841 (2.4)
Outdoor children	22533	834 (8.4)	685 (7.0)	852 (9.7)	958 (8.8)	833 (4.3)
Heart and respiratory	54438	735 (6.6)	625 (7.3)	791 (9.5)	854 (8.8)	752 (4.1)
All persons	353517	800 (12.1)	660 (9.2)	825 (11.3)	920 (13.2)	802 (5.8)

Highest quarter 1 exposure is 860 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 703 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 863 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 958 µg/m3 for Outdoor children
 Highest annual exposure is 841 µg/m3 for Outdoor workers

Chicago: Air District=8

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	87199	449 (6.0)	454 (6.3)	450 (6.2)	398 (5.4)	438 (3.0)
African americans	24003	438 (8.1)	440 (6.4)	439 (6.4)	387 (6.4)	426 (3.4)
Hispanics	24985	433 (8.0)	444 (7.3)	442 (6.9)	387 (6.7)	427 (3.6)
Household income lt \$10K	30558	423 (4.7)	426 (4.6)	421 (4.4)	375 (4.1)	411 (2.2)
Household income \$10K-\$25K	39370	445 (6.0)	452 (6.4)	451 (7.0)	395 (5.1)	436 (3.1)
Household income \$25K-\$50K	38930	449 (7.0)	455 (6.8)	450 (6.2)	398 (6.1)	438 (3.3)
Household income \$50K-\$75K	13001	450 (4.7)	459 (5.8)	454 (6.1)	401 (4.3)	441 (2.6)
Household income gt \$75K	3650	448 (5.4)	451 (5.0)	445 (4.6)	397 (4.6)	435 (2.5)
Children, 0 to 17	34393	447 (5.3)	454 (6.0)	450 (5.8)	397 (4.9)	437 (2.8)
Nonworking men, 18 to 44	8575	473 (5.5)	467 (6.2)	455 (5.9)	416 (5.2)	453 (2.9)
Working men, 18 to 44	14956	471 (4.5)	463 (4.1)	462 (4.0)	424 (3.7)	455 (2.0)
Nonworking women, 18 to 44	13926	436 (6.5)	436 (5.0)	432 (4.6)	385 (5.2)	422 (2.7)
Working women, 18 to 44	11991	451 (3.3)	439 (3.0)	438 (2.9)	402 (2.6)	432 (1.5)
Nonworking men, 45 to 64	4252	432 (4.0)	448 (6.6)	461 (9.2)	382 (3.0)	431 (3.1)
Working men, 45 to 64	7447	475 (4.2)	462 (3.5)	456 (3.1)	429 (3.5)	455 (1.8)
Nonworking women, 45 to 64	6887	432 (5.6)	426 (4.6)	424 (4.9)	376 (4.0)	414 (2.4)
Working women, 45 to 64	6020	447 (3.4)	439 (3.6)	438 (3.3)	399 (3.0)	430 (1.7)
Men, 65+	8143	442 (5.7)	456 (6.1)	452 (5.1)	392 (5.2)	435 (2.8)
Women, 65+	8967	426 (5.1)	426 (5.0)	421 (4.3)	374 (4.3)	411 (2.3)
Outdoor workers	3814	540 (4.3)	517 (3.4)	521 (2.8)	484 (3.9)	516 (1.8)
Outdoor children	10460	474 (4.7)	474 (5.0)	465 (5.3)	419 (3.9)	458 (2.4)
Heart and respiratory	18311	419 (3.6)	431 (5.3)	431 (5.2)	373 (3.6)	413 (2.2)
All persons	125558	455 (6.8)	455 (6.5)	450 (6.2)	402 (5.8)	440 (3.2)

Highest quarter 1 exposure is 540 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 517 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 521 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 484 µg/m3 for Outdoor workers
 Highest annual exposure is 516 µg/m3 for Outdoor workers

Chicago: Air District=9

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	83233	605 (8.3)	548 (7.7)	542 (7.6)	459 (6.3)	538 (3.7)
African americans	88483	591 (10.9)	530 (7.6)	527 (7.6)	444 (7.4)	523 (4.2)
Hispanics	10437	584 (10.8)	537 (9.0)	531 (8.4)	444 (7.9)	524 (4.5)
Household income lt \$10K	50620	569 (6.3)	514 (5.7)	505 (5.3)	431 (4.8)	504 (2.8)
Household income \$10K-\$25K	49299	600 (8.2)	546 (7.8)	542 (8.5)	455 (6.0)	535 (3.8)
Household income \$25K-\$50K	54087	605 (9.5)	549 (8.2)	542 (7.5)	459 (7.1)	538 (4.1)
Household income \$50K-\$75K	15961	607 (6.4)	554 (7.1)	546 (7.6)	463 (5.2)	542 (3.3)
Household income gt \$75K	4709	604 (7.2)	544 (6.0)	536 (5.7)	456 (5.3)	535 (3.0)
Children, 0 to 17	51646	601 (7.1)	547 (7.3)	542 (7.2)	456 (5.6)	536 (3.4)
Nonworking men, 18 to 44	12266	637 (7.3)	567 (8.0)	548 (7.3)	481 (6.2)	558 (3.6)
Working men, 18 to 44	20121	625 (7.2)	564 (6.1)	556 (5.9)	480 (5.3)	556 (3.1)
Nonworking women, 18 to 44	19546	590 (8.9)	529 (6.3)	520 (5.9)	445 (6.2)	520 (3.5)
Working women, 18 to 44	16588	600 (5.2)	534 (4.2)	527 (4.2)	456 (3.7)	529 (2.2)
Nonworking men, 45 to 64	6432	583 (5.5)	544 (8.5)	555 (11.5)	442 (3.9)	531 (4.0)
Working men, 45 to 64	10194	627 (6.8)	562 (5.1)	550 (4.5)	483 (4.9)	555 (2.7)
Nonworking women, 45 to 64	10135	582 (7.8)	516 (5.8)	510 (6.1)	435 (5.1)	510 (3.1)
Working women, 45 to 64	8492	595 (5.3)	532 (5.0)	526 (4.7)	452 (4.2)	526 (2.4)
Men, 65+	10278	594 (7.9)	551 (7.4)	545 (6.3)	453 (6.3)	535 (3.5)
Women, 65+	11627	574 (6.9)	515 (6.3)	506 (5.5)	432 (5.5)	506 (3.0)
Outdoor workers	5005	708 (7.3)	634 (5.3)	629 (4.4)	545 (5.4)	628 (2.8)
Outdoor children	15737	637 (6.5)	571 (6.3)	560 (6.6)	482 (4.6)	562 (3.0)
Heart and respiratory	25332	564 (4.8)	520 (6.5)	518 (6.6)	430 (4.5)	507 (2.8)
All persons	177317	614 (9.3)	549 (7.9)	541 (7.6)	463 (6.8)	541 (4.0)

Highest quarter 1 exposure is 708 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 634 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 629 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 545 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 628 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Chicago: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	2222402	508 (6.9)	461 (6.3)	469 (6.4)	496 (6.6)	483 (3.3)
African americans	632702	497 (9.2)	447 (6.4)	458 (6.6)	483 (8.0)	471 (3.8)
Hispanics	134512	491 (9.1)	452 (7.4)	461 (7.1)	482 (8.5)	471 (4.0)
Household income lt \$10K	313926	478 (5.3)	432 (4.5)	437 (4.3)	467 (5.0)	454 (2.4)
Household income \$10K-\$25K	608025	504 (6.7)	459 (6.4)	469 (7.2)	492 (6.3)	481 (3.3)
Household income \$25K-\$50K	1067015	508 (7.9)	462 (6.7)	469 (6.4)	496 (7.5)	484 (3.6)
Household income \$50K-\$75K	547408	511 (5.4)	466 (5.7)	472 (6.3)	500 (5.4)	487 (2.9)
Household income gt \$75K	380538	509 (6.2)	459 (5.0)	464 (4.9)	494 (5.6)	481 (2.7)
Children, 0 to 17	797335	506 (5.9)	460 (5.9)	468 (6.0)	493 (5.9)	482 (3.0)
Nonworking men, 18 to 44	153601	535 (6.1)	476 (6.5)	475 (6.1)	519 (6.6)	501 (3.2)
Working men, 18 to 44	480714	539 (6.4)	483 (5.2)	491 (5.4)	526 (5.9)	509 (2.9)
Nonworking women, 18 to 44	275483	494 (7.3)	444 (5.0)	449 (4.7)	481 (6.5)	467 (3.0)
Working women, 18 to 44	396898	515 (4.5)	455 (3.5)	463 (3.7)	499 (4.0)	483 (2.0)
Nonworking men, 45 to 64	72720	490 (4.9)	455 (6.8)	477 (9.7)	477 (4.1)	475 (3.4)
Working men, 45 to 64	212444	544 (6.0)	483 (4.5)	488 (4.1)	531 (5.5)	511 (2.5)
Nonworking women, 45 to 64	130398	488 (6.3)	433 (4.6)	441 (5.0)	469 (5.1)	458 (2.6)
Working women, 45 to 64	175912	509 (4.7)	454 (4.3)	463 (4.2)	494 (4.6)	480 (2.2)
Men, 65+	147007	498 (6.4)	462 (5.9)	469 (5.1)	489 (6.5)	480 (3.0)
Women, 65+	161317	482 (5.8)	432 (4.9)	437 (4.4)	467 (5.6)	454 (2.6)
Outdoor workers	79923	622 (6.5)	546 (4.7)	563 (4.1)	599 (6.1)	582 (2.7)
Outdoor children	229574	536 (5.3)	479 (4.9)	483 (5.5)	520 (4.7)	505 (2.6)
Heart and respiratory	411590	474 (4.1)	438 (5.2)	449 (5.4)	465 (4.6)	457 (2.4)
All persons	3003820	516 (7.7)	462 (6.4)	468 (6.4)	500 (7.1)	486 (3.5)

Highest quarter 1 exposure is 622 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 546 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 563 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 599 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 582 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	147252	606 (7.5)	314 (3.9)	469 (6.0)	664 (8.3)	513 (3.3)
African americans	2311	596 (10.8)	306 (4.1)	457 (5.9)	649 (10.2)	502 (4.1)
Hispanics	33556	593 (10.7)	308 (4.6)	460 (6.3)	651 (11.0)	503 (4.3)
Household income lt \$10K	23820	570 (5.0)	296 (2.4)	439 (3.5)	624 (5.6)	482 (2.1)
Household income \$10K-\$25K	55553	598 (6.6)	311 (3.8)	465 (6.5)	659 (7.9)	509 (3.2)
Household income \$25K-\$50K	64347	606 (8.6)	315 (4.3)	470 (6.0)	663 (9.4)	514 (3.7)
Household income \$50K-\$75K	17103	612 (6.2)	317 (3.4)	472 (5.6)	672 (7.0)	519 (2.9)
Household income gt \$75K	5822	624 (7.7)	316 (3.6)	467 (4.8)	669 (7.7)	519 (3.1)
Children, 0 to 17	47961	604 (6.9)	314 (3.8)	467 (5.6)	659 (7.4)	511 (3.0)
Nonworking men, 18 to 44	8600	627 (6.8)	326 (4.0)	486 (5.7)	688 (9.0)	532 (3.3)
Working men, 18 to 44	28557	677 (5.2)	352 (2.7)	496 (3.6)	722 (5.3)	562 (2.2)
Nonworking women, 18 to 44	14538	583 (6.7)	302 (2.9)	452 (4.3)	641 (7.8)	495 (2.9)
Working women, 18 to 44	23282	640 (3.5)	330 (1.8)	472 (2.5)	684 (3.6)	532 (1.5)
Nonworking men, 45 to 64	3792	577 (4.3)	301 (2.7)	458 (6.7)	632 (4.8)	492 (2.4)
Working men, 45 to 64	11660	694 (5.0)	360 (2.5)	498 (2.7)	735 (5.1)	572 (2.0)
Nonworking women, 45 to 64	6234	572 (4.6)	294 (2.2)	439 (3.9)	620 (5.0)	481 (2.0)
Working women, 45 to 64	9490	633 (4.0)	330 (2.2)	473 (2.9)	676 (4.2)	528 (1.7)
Men, 65+	6197	588 (5.8)	316 (3.4)	469 (4.3)	646 (7.1)	505 (2.7)
Women, 65+	6338	566 (5.8)	297 (3.0)	441 (4.2)	617 (6.3)	480 (2.5)
Outdoor workers	5880	794 (6.0)	416 (3.0)	569 (2.9)	833 (6.0)	653 (2.4)
Outdoor children	13772	632 (5.0)	325 (2.8)	481 (4.9)	689 (5.3)	532 (2.3)
Heart and respiratory	21313	569 (4.7)	300 (3.1)	450 (4.9)	626 (5.9)	486 (2.4)
All persons	166649	610 (8.0)	314 (4.0)	468 (5.9)	666 (8.6)	515 (3.4)

Highest quarter 1 exposure is 794 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 416 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 569 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 833 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 653 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	97589	319 (4.4)	184 (2.3)	213 (2.9)	259 (3.6)	244 (1.7)
African americans	696	307 (5.4)	178 (2.3)	206 (2.7)	250 (3.9)	235 (1.9)
Hispanics	3154	306 (5.5)	180 (2.8)	208 (3.0)	251 (4.3)	236 (2.0)
Household income lt \$10K	4269	298 (3.4)	173 (1.6)	199 (1.9)	243 (2.9)	228 (1.3)
Household income \$10K-\$25K	15634	314 (3.9)	182 (2.3)	212 (3.2)	256 (3.4)	241 (1.6)
Household income \$25K-\$50K	34528	319 (5.1)	184 (2.6)	214 (2.8)	259 (4.1)	244 (1.9)
Household income \$50K-\$75K	22018	322 (3.6)	186 (2.1)	215 (2.8)	263 (3.1)	246 (1.5)
Household income gt \$75K	21276	326 (4.2)	184 (1.9)	211 (2.1)	260 (3.2)	245 (1.5)
Children, 0 to 17	29473	318 (4.2)	184 (2.3)	214 (2.7)	258 (3.4)	243 (1.6)
Nonworking men, 18 to 44	3522	331 (4.0)	192 (2.5)	218 (2.6)	271 (3.7)	253 (1.6)
Working men, 18 to 44	16259	405 (5.3)	230 (2.8)	257 (3.1)	344 (5.1)	309 (2.1)
Nonworking women, 18 to 44	7276	307 (4.0)	178 (1.9)	205 (2.2)	250 (3.4)	235 (1.5)
Working women, 18 to 44	13165	374 (3.7)	209 (1.9)	236 (2.2)	314 (3.7)	283 (1.5)
Nonworking men, 45 to 64	2272	302 (2.2)	178 (1.7)	212 (3.5)	244 (1.6)	234 (1.2)
Working men, 45 to 64	10006	421 (4.9)	238 (2.6)	264 (2.4)	356 (4.8)	319 (1.9)
Nonworking women, 45 to 64	4609	302 (3.4)	173 (1.6)	200 (2.1)	242 (2.5)	229 (1.2)
Working women, 45 to 64	8095	369 (4.2)	210 (2.2)	237 (2.3)	311 (4.3)	281 (1.7)
Men, 65+	3032	310 (3.9)	185 (2.1)	215 (2.2)	251 (3.3)	240 (1.5)
Women, 65+	3150	296 (3.3)	174 (1.9)	201 (2.2)	238 (2.3)	227 (1.2)
Outdoor workers	1658	518 (7.1)	288 (3.4)	325 (2.8)	453 (6.9)	396 (2.7)
Outdoor children	8974	338 (3.4)	191 (1.8)	221 (2.5)	273 (2.8)	256 (1.3)
Heart and respiratory	13031	295 (2.7)	175 (1.9)	204 (2.5)	242 (2.6)	229 (1.2)
All persons	100852	321 (4.6)	184 (2.4)	213 (2.8)	260 (3.7)	244 (1.7)

Highest quarter 1 exposure is 518 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 288 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 325 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 453 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 396 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	212349	631 (8.7)	333 (4.4)	381 (5.1)	652 (9.2)	499 (3.6)
African americans	4270	610 (11.0)	322 (4.4)	368 (4.8)	630 (10.1)	482 (4.1)
Hispanics	28679	607 (10.9)	324 (4.9)	371 (5.2)	631 (10.7)	483 (4.2)
Household income lt \$10K	32723	589 (6.5)	312 (3.0)	355 (3.4)	611 (7.2)	467 (2.7)
Household income \$10K-\$25K	70799	620 (7.6)	330 (4.3)	378 (5.6)	644 (8.5)	493 (3.3)
Household income \$25K-\$50K	79081	631 (9.9)	334 (4.7)	382 (5.0)	653 (10.2)	499 (4.0)
Household income \$50K-\$75K	29543	638 (7.2)	336 (3.9)	384 (4.9)	662 (8.0)	505 (3.1)
Household income gt \$75K	18786	647 (8.5)	333 (3.6)	378 (3.8)	657 (8.4)	503 (3.3)
Children, 0 to 17	52166	631 (8.1)	333 (4.2)	381 (4.8)	649 (8.5)	498 (3.4)
Nonworking men, 18 to 44	13692	651 (7.4)	345 (4.1)	389 (4.4)	674 (9.0)	514 (3.3)
Working men, 18 to 44	38370	691 (5.9)	367 (3.1)	417 (3.6)	702 (5.6)	544 (2.4)
Nonworking women, 18 to 44	21589	605 (7.7)	320 (3.4)	366 (3.8)	627 (8.3)	479 (3.1)
Working women, 18 to 44	33254	655 (4.1)	345 (2.2)	393 (2.6)	666 (4.1)	514 (1.7)
Nonworking men, 45 to 64	5934	597 (4.6)	321 (3.0)	376 (5.8)	616 (4.4)	477 (2.3)
Working men, 45 to 64	16505	708 (5.8)	374 (2.8)	421 (2.7)	717 (5.7)	555 (2.2)
Nonworking women, 45 to 64	9688	595 (6.2)	311 (2.8)	357 (3.6)	606 (6.0)	467 (2.4)
Working women, 45 to 64	14055	648 (4.7)	344 (2.6)	392 (2.9)	658 (4.8)	510 (1.9)
Men, 65+	14630	612 (7.4)	336 (4.0)	383 (3.9)	632 (8.0)	490 (3.1)
Women, 65+	15902	585 (6.7)	313 (3.6)	358 (3.9)	597 (6.3)	463 (2.7)
Outdoor workers	6255	808 (6.5)	433 (3.3)	495 (3.1)	804 (6.0)	635 (2.5)
Outdoor children	14657	668 (6.5)	347 (3.3)	394 (4.3)	689 (6.6)	524 (2.7)
Heart and respiratory	34096	586 (5.6)	316 (3.7)	364 (4.3)	609 (6.7)	468 (2.6)
All persons	235770	636 (9.2)	333 (4.5)	380 (5.0)	655 (9.4)	501 (3.7)

Highest quarter 1 exposure is 808 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 433 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 495 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 804 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 635 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	40357	760 (10.2)	486 (6.7)	533 (7.3)	877 (12.2)	664 (4.7)
African americans	111	737 (13.1)	467 (6.5)	515 (6.9)	847 (13.7)	642 (5.3)
Hispanics	4835	733 (13.1)	473 (7.5)	519 (7.4)	849 (14.5)	643 (5.6)
Household income lt \$10K	5989	711 (7.6)	455 (4.8)	497 (5.0)	821 (9.4)	621 (3.5)
Household income \$10K-\$25K	14562	747 (9.0)	481 (6.6)	530 (8.1)	866 (11.4)	656 (4.5)
Household income \$25K-\$50K	14789	760 (11.7)	487 (7.2)	535 (7.3)	877 (13.7)	665 (5.2)
Household income \$50K-\$75K	5399	767 (8.4)	491 (6.1)	538 (7.1)	890 (10.6)	671 (4.1)
Household income gt \$75K	2613	778 (10.1)	483 (5.3)	528 (5.4)	883 (11.2)	668 (4.2)
Children, 0 to 17	11787	758 (9.5)	485 (6.5)	535 (7.0)	872 (11.2)	662 (4.4)
Nonworking men, 18 to 44	1894	786 (9.0)	505 (6.4)	545 (6.3)	905 (11.8)	685 (4.3)
Working men, 18 to 44	7132	788 (9.0)	496 (5.7)	545 (6.1)	906 (10.3)	683 (4.0)
Nonworking women, 18 to 44	4002	729 (9.2)	468 (5.4)	512 (5.6)	843 (11.1)	638 (4.1)
Working women, 18 to 44	5422	754 (6.3)	473 (4.1)	524 (4.6)	864 (7.3)	654 (2.9)
Nonworking men, 45 to 64	865	719 (5.3)	471 (4.6)	528 (8.3)	830 (6.4)	637 (3.2)
Working men, 45 to 64	3233	801 (8.9)	495 (4.9)	543 (4.6)	919 (10.2)	690 (3.8)
Nonworking women, 45 to 64	1842	717 (7.3)	453 (4.6)	498 (5.2)	813 (8.0)	620 (3.2)
Working women, 45 to 64	2468	747 (7.0)	470 (4.9)	520 (5.2)	853 (8.5)	647 (3.3)
Men, 65+	2249	739 (8.8)	493 (6.5)	538 (5.7)	852 (11.0)	656 (4.1)
Women, 65+	2454	706 (7.8)	458 (5.7)	501 (5.7)	806 (9.0)	617 (3.6)
Outdoor workers	1354	882 (8.8)	559 (5.1)	621 (4.7)	1002 (10.5)	766 (3.8)
Outdoor children	3447	801 (7.5)	507 (5.3)	554 (6.3)	923 (8.6)	696 (3.5)
Heart and respiratory	6036	706 (6.4)	459 (5.8)	509 (6.3)	820 (9.1)	623 (3.5)
All persons	43348	766 (10.8)	486 (6.9)	532 (7.3)	881 (12.6)	666 (4.9)

Highest quarter 1 exposure is 882 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 2 exposure is 559 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 3 exposure is 621 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest quarter 4 exposure is 1002 $\mu\text{g}/\text{m}^3$ for Outdoor workers
Highest annual exposure is 766 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	96256	387 (5.3)	268 (3.7)	285 (4.0)	441 (6.3)	345 (2.5)
African americans	1003	375 (6.7)	257 (3.6)	275 (3.8)	427 (6.9)	333 (2.7)
Hispanics	4933	374 (6.9)	261 (4.2)	277 (4.0)	428 (7.5)	335 (2.9)
Household income lt \$10K	18666	363 (4.1)	250 (2.6)	264 (2.5)	413 (4.8)	323 (1.8)
Household income \$10K-\$25K	31202	381 (4.7)	266 (3.7)	283 (4.4)	437 (5.8)	342 (2.4)
Household income \$25K-\$50K	28792	388 (6.1)	269 (4.0)	286 (4.0)	441 (7.1)	346 (2.7)
Household income \$50K-\$75K	12872	391 (4.4)	271 (3.4)	288 (3.9)	447 (5.4)	349 (2.2)
Household income gt \$75K	10867	392 (4.9)	266 (2.8)	281 (2.9)	438 (5.3)	344 (2.1)
Children, 0 to 17	17452	386 (4.9)	268 (3.6)	285 (3.8)	439 (5.7)	344 (2.3)
Nonworking men, 18 to 44	9453	405 (5.0)	279 (3.7)	294 (3.6)	459 (6.1)	359 (2.4)
Working men, 18 to 44	23017	426 (5.7)	287 (3.6)	304 (4.0)	479 (6.6)	374 (2.6)
Nonworking women, 18 to 44	11751	375 (5.1)	259 (3.1)	273 (3.0)	427 (5.9)	333 (2.2)
Working women, 18 to 44	19253	402 (3.9)	271 (2.6)	288 (3.0)	449 (4.4)	353 (1.8)
Nonworking men, 45 to 64	1624	369 (2.8)	260 (2.5)	282 (4.4)	423 (3.8)	334 (1.8)
Working men, 45 to 64	5828	432 (5.3)	289 (3.1)	305 (3.1)	484 (6.1)	378 (2.3)
Nonworking women, 45 to 64	2619	370 (4.4)	251 (2.6)	266 (2.8)	413 (4.6)	325 (1.9)
Working women, 45 to 64	4857	398 (4.3)	269 (3.1)	288 (3.4)	445 (5.3)	350 (2.1)
Men, 65+	3790	381 (5.1)	271 (3.6)	288 (3.2)	437 (6.4)	344 (2.4)
Women, 65+	3831	363 (4.3)	253 (3.3)	268 (3.2)	412 (5.6)	324 (2.1)
Outdoor workers	2227	501 (5.6)	335 (3.4)	363 (3.3)	561 (7.1)	440 (2.6)
Outdoor children	5271	409 (4.2)	280 (2.9)	295 (3.4)	465 (4.5)	362 (1.9)
Heart and respiratory	12881	359 (3.3)	253 (3.3)	273 (3.6)	413 (4.8)	325 (1.9)
All persons	103475	391 (5.7)	268 (3.8)	284 (4.0)	445 (6.7)	347 (2.6)

Highest quarter 1 exposure is 501 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 335 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 363 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 561 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 440 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	46548	1072 (15.7)	613 (9.3)	603 (9.2)	944 (14.8)	807 (6.3)
African americans	13758	1029 (18.8)	589 (9.1)	583 (8.7)	902 (14.9)	775 (6.8)
Hispanics	28009	1023 (18.9)	593 (9.7)	586 (9.0)	905 (16.3)	776 (7.0)
Household income lt \$10K	30184	999 (12.7)	570 (6.6)	558 (5.8)	883 (12.5)	752 (5.0)
Household income \$10K-\$25K	28105	1052 (13.7)	605 (8.9)	600 (10.2)	930 (13.3)	796 (5.9)
Household income \$25K-\$50K	15806	1073 (18.0)	614 (9.9)	605 (9.1)	946 (16.4)	808 (6.9)
Household income \$50K-\$75K	3855	1081 (13.0)	620 (8.5)	608 (8.6)	958 (13.1)	816 (5.5)
Household income gt \$75K	2060	1093 (15.5)	608 (7.3)	593 (6.5)	943 (13.1)	808 (5.6)
Children, 0 to 17	16451	1072 (14.9)	613 (8.8)	603 (8.6)	941 (14.1)	807 (6.0)
Nonworking men, 18 to 44	6975	1112 (13.3)	636 (8.0)	624 (7.8)	982 (14.1)	837 (5.6)
Working men, 18 to 44	14812	1058 (8.3)	584 (4.6)	586 (4.6)	949 (7.3)	793 (3.2)
Nonworking women, 18 to 44	9144	1029 (14.4)	587 (7.4)	576 (6.8)	909 (13.4)	774 (5.5)
Working women, 18 to 44	10177	1019 (6.4)	567 (3.8)	572 (3.9)	907 (5.6)	765 (2.5)
Nonworking men, 45 to 64	2242	1015 (8.6)	591 (6.0)	598 (9.8)	892 (7.2)	773 (4.0)
Working men, 45 to 64	4428	1066 (8.1)	577 (3.9)	574 (3.5)	958 (7.2)	793 (3.0)
Nonworking women, 45 to 64	2977	1015 (12.6)	566 (6.1)	557 (6.0)	876 (10.7)	753 (4.6)
Working women, 45 to 64	3062	1014 (6.7)	565 (4.4)	574 (4.3)	899 (6.4)	763 (2.8)
Men, 65+	5020	1054 (15.3)	625 (9.0)	616 (7.5)	925 (14.4)	804 (6.0)
Women, 65+	4700	994 (12.7)	575 (8.0)	566 (7.0)	862 (10.7)	748 (4.9)
Outdoor workers	2286	1164 (6.6)	639 (3.4)	658 (2.9)	1039 (6.0)	874 (2.5)
Outdoor children	4466	1144 (12.4)	645 (7.3)	627 (7.8)	1008 (11.6)	855 (5.0)
Heart and respiratory	11198	989 (10.2)	579 (8.1)	575 (8.1)	876 (11.3)	754 (4.8)
All persons	79988	1084 (17.0)	614 (9.5)	602 (9.2)	951 (15.3)	812 (6.6)

Highest quarter 1 exposure is 1164 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 645 $\mu\text{g}/\text{m}^3$ for Outdoor children

Highest quarter 3 exposure is 658 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1039 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 874 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	166148	1055 (14.4)	640 (8.4)	737 (10.0)	952 (13.5)	846 (5.9)
African americans	42188	1021 (18.3)	618 (8.4)	714 (9.6)	918 (14.7)	817 (6.7)
Hispanics	15490	1016 (18.2)	624 (9.6)	719 (10.3)	921 (15.9)	819 (7.0)
Household income lt \$10K	39307	986 (10.8)	601 (5.9)	687 (6.8)	891 (10.6)	791 (4.4)
Household income \$10K-\$25K	72218	1038 (12.7)	634 (8.3)	733 (11.0)	942 (12.6)	836 (5.7)
Household income \$25K-\$50K	66861	1055 (16.5)	641 (9.1)	739 (9.9)	953 (15.1)	846 (6.5)
Household income \$50K-\$75K	24193	1066 (11.8)	646 (7.6)	743 (9.6)	966 (11.8)	855 (5.2)
Household income gt \$75K	16251	1081 (13.8)	639 (7.0)	731 (7.6)	956 (12.1)	851 (5.3)
Children, 0 to 17	44317	1053 (13.4)	639 (8.1)	738 (9.5)	947 (12.5)	844 (5.5)
Nonworking men, 18 to 44	13942	1092 (12.5)	665 (8.3)	754 (8.9)	989 (13.7)	874 (5.5)
Working men, 18 to 44	38036	1079 (8.9)	645 (5.1)	737 (6.0)	982 (7.9)	860 (3.6)
Nonworking women, 18 to 44	20678	1013 (12.9)	617 (6.7)	708 (7.5)	918 (12.4)	813 (5.1)
Working women, 18 to 44	34721	1036 (6.5)	620 (3.7)	714 (4.6)	939 (5.8)	827 (2.6)
Nonworking men, 45 to 64	5270	997 (7.3)	617 (5.9)	729 (11.8)	898 (6.4)	810 (4.1)
Working men, 45 to 64	13770	1097 (8.9)	646 (4.3)	733 (4.4)	995 (7.9)	867 (3.3)
Nonworking women, 45 to 64	8480	996 (10.4)	597 (5.5)	689 (7.1)	885 (9.1)	791 (4.1)
Working women, 45 to 64	12669	1026 (7.1)	612 (4.3)	705 (5.0)	926 (6.6)	817 (2.9)
Men, 65+	13642	1022 (12.4)	645 (7.7)	743 (7.8)	923 (12.1)	833 (5.1)
Women, 65+	16235	978 (10.8)	601 (6.7)	691 (7.9)	872 (9.1)	785 (4.4)
Outdoor workers	5497	1186 (8.7)	714 (4.5)	823 (4.5)	1078 (7.8)	950 (3.3)
Outdoor children	11931	1114 (10.7)	667 (6.5)	764 (8.6)	1005 (10.0)	887 (4.5)
Heart and respiratory	32288	978 (9.0)	606 (7.0)	704 (8.7)	888 (9.9)	793 (4.4)
All persons	221760	1063 (15.1)	640 (8.5)	736 (9.9)	955 (13.7)	848 (6.1)

Highest quarter 1 exposure is 1186 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 714 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 823 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1078 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 950 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=8

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	138900	790 (10.2)	414 (5.2)	477 (6.2)	799 (10.7)	620 (4.2)
African americans	2508	771 (13.9)	401 (5.4)	463 (6.1)	777 (12.5)	603 (5.1)
Hispanics	56016	767 (13.8)	405 (6.1)	466 (6.6)	778 (13.0)	603 (5.2)
Household income lt \$10K	38445	740 (7.1)	389 (3.4)	445 (3.9)	749 (7.7)	580 (2.9)
Household income \$10K-\$25K	64077	778 (8.9)	410 (5.2)	473 (6.8)	790 (10.0)	613 (4.0)
Household income \$25K-\$50K	50822	790 (11.7)	415 (5.6)	478 (6.2)	799 (12.0)	620 (4.7)
Household income \$50K-\$75K	14950	799 (8.4)	418 (4.6)	481 (5.9)	811 (9.3)	627 (3.7)
Household income gt \$75K	4794	813 (10.3)	416 (4.6)	476 (5.0)	811 (10.2)	629 (4.0)
Children, 0 to 17	43894	788 (9.4)	413 (5.0)	476 (5.8)	795 (9.7)	618 (3.9)
Nonworking men, 18 to 44	11730	815 (9.1)	429 (5.2)	489 (5.8)	822 (10.9)	638 (4.0)
Working men, 18 to 44	24091	845 (5.7)	444 (3.1)	509 (3.5)	850 (5.5)	662 (2.3)
Nonworking women, 18 to 44	17554	758 (9.1)	399 (4.0)	459 (4.7)	767 (9.6)	596 (3.7)
Working women, 18 to 44	20835	806 (4.0)	421 (2.1)	484 (2.6)	811 (4.0)	630 (1.6)
Nonworking men, 45 to 64	4646	749 (5.5)	397 (3.7)	466 (7.2)	753 (5.4)	591 (2.8)
Working men, 45 to 64	9918	864 (5.6)	452 (2.7)	513 (2.6)	869 (5.6)	674 (2.2)
Nonworking women, 45 to 64	6950	743 (6.6)	387 (3.1)	447 (4.2)	740 (6.3)	579 (2.6)
Working women, 45 to 64	8696	796 (4.4)	418 (2.4)	480 (2.7)	799 (4.5)	623 (1.8)
Men, 65+	11872	764 (8.1)	415 (4.5)	477 (4.5)	768 (8.5)	606 (3.3)
Women, 65+	12899	734 (7.8)	390 (4.2)	447 (4.9)	731 (7.0)	575 (3.1)
Outdoor workers	5525	959 (6.2)	511 (3.2)	589 (2.9)	951 (6.0)	752 (2.4)
Outdoor children	11915	828 (7.1)	429 (3.8)	490 (5.2)	837 (7.3)	646 (3.0)
Heart and respiratory	25533	738 (6.4)	394 (4.3)	457 (5.3)	749 (7.6)	584 (3.0)
All persons	173077	795 (10.8)	414 (5.3)	476 (6.2)	800 (10.9)	621 (4.3)

Highest quarter 1 exposure is 959 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 511 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 589 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 951 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 752 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=9

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	168375	721 (9.6)	366 (4.7)	382 (5.2)	745 (10.1)	553 (3.9)
African americans	971	702 (12.7)	355 (4.9)	372 (5.1)	726 (12.0)	539 (4.7)
Hispanics	13820	698 (12.5)	357 (5.3)	373 (5.3)	726 (12.3)	538 (4.8)
Household income lt \$10K	20215	674 (6.7)	343 (3.0)	355 (3.0)	697 (7.2)	517 (2.7)
Household income \$10K-\$25K	49411	710 (8.3)	362 (4.6)	378 (5.6)	737 (9.3)	546 (3.6)
Household income \$25K-\$50K	68153	721 (10.9)	366 (5.1)	383 (5.2)	745 (11.2)	553 (4.3)
Household income \$50K-\$75K	27491	730 (8.0)	369 (4.1)	385 (4.8)	756 (8.8)	560 (3.4)
Household income gt \$75K	12108	743 (9.8)	367 (4.1)	381 (4.1)	754 (9.8)	561 (3.8)
Children, 0 to 17	46517	721 (8.9)	365 (4.5)	381 (4.8)	742 (9.2)	552 (3.6)
Nonworking men, 18 to 44	8536	742 (8.3)	379 (4.5)	394 (4.7)	763 (9.4)	569 (3.5)
Working men, 18 to 44	30858	768 (6.1)	392 (3.0)	413 (3.4)	776 (6.1)	587 (2.4)
Nonworking women, 18 to 44	13867	690 (8.4)	352 (3.6)	366 (3.7)	715 (9.1)	531 (3.4)
Working women, 18 to 44	26830	732 (4.2)	371 (2.1)	391 (2.4)	740 (4.2)	558 (1.7)
Nonworking men, 45 to 64	4069	683 (5.3)	351 (3.2)	369 (5.2)	708 (6.2)	527 (2.6)
Working men, 45 to 64	13667	785 (6.0)	399 (2.7)	418 (2.5)	789 (6.1)	597 (2.3)
Nonworking women, 45 to 64	6601	678 (6.2)	341 (2.8)	355 (3.2)	690 (5.9)	516 (2.4)
Working women, 45 to 64	11841	725 (4.8)	370 (2.5)	392 (2.8)	732 (5.1)	554 (2.0)
Men, 65+	7997	698 (7.7)	367 (4.1)	382 (3.8)	724 (8.7)	542 (3.2)
Women, 65+	8434	669 (7.4)	344 (3.8)	358 (3.9)	688 (8.0)	514 (3.0)
Outdoor workers	5351	875 (6.3)	451 (3.0)	484 (2.8)	877 (6.4)	671 (2.5)
Outdoor children	13573	758 (6.8)	379 (3.5)	392 (4.3)	783 (6.8)	578 (2.8)
Heart and respiratory	24062	672 (6.2)	348 (3.9)	366 (4.4)	700 (7.5)	521 (2.9)
All persons	179217	726 (10.1)	366 (4.8)	381 (5.2)	749 (10.6)	555 (4.1)

Highest quarter 1 exposure is 875 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 451 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 484 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 877 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 671 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Denver: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	415935	705 (9.5)	402 (5.4)	453 (6.1)	703 (9.7)	566 (4.0)
African americans	28226	683 (12.2)	389 (5.4)	439 (5.9)	680 (10.9)	548 (4.6)
Hispanics	36923	679 (12.2)	392 (6.0)	442 (6.3)	682 (11.6)	549 (4.7)
Household income lt \$10K	39705	659 (7.0)	377 (3.7)	422 (3.9)	659 (7.4)	529 (2.9)
Household income \$10K-\$25K	115556	693 (8.3)	398 (5.3)	450 (6.8)	695 (9.0)	559 (3.7)
Household income \$25K-\$50K	184630	704 (10.9)	403 (5.8)	454 (6.1)	704 (10.9)	566 (4.4)
Household income \$50K-\$75K	80820	712 (7.8)	407 (4.8)	457 (5.8)	714 (8.4)	572 (3.4)
Household income gt \$75K	40512	722 (9.3)	402 (4.4)	450 (4.6)	708 (8.9)	570 (3.6)
Children, 0 to 17	139901	703 (8.8)	402 (5.2)	453 (5.8)	700 (8.9)	564 (3.7)
Nonworking men, 18 to 44	18693	729 (8.3)	418 (5.1)	466 (5.4)	728 (9.6)	585 (3.7)
Working men, 18 to 44	97708	752 (5.9)	423 (3.2)	476 (3.7)	744 (5.5)	599 (2.4)
Nonworking women, 18 to 44	34387	676 (8.5)	387 (4.2)	435 (4.6)	677 (8.9)	544 (3.4)
Working women, 18 to 44	82975	716 (4.0)	402 (2.2)	454 (2.7)	707 (3.9)	570 (1.7)
Nonworking men, 45 to 64	6819	667 (5.1)	388 (3.7)	446 (7.0)	666 (5.0)	542 (2.7)
Working men, 45 to 64	30319	767 (5.7)	427 (2.8)	477 (2.8)	756 (5.4)	607 (2.2)
Nonworking women, 45 to 64	12442	665 (6.8)	375 (3.4)	423 (4.2)	654 (6.3)	529 (2.7)
Working women, 45 to 64	25540	709 (4.6)	400 (2.7)	454 (3.1)	699 (4.6)	565 (1.9)
Men, 65+	11121	685 (8.2)	406 (5.0)	457 (4.7)	684 (8.7)	558 (3.5)
Women, 65+	11987	654 (7.4)	379 (4.4)	425 (4.7)	647 (7.1)	526 (3.0)
Outdoor workers	13614	862 (6.3)	485 (3.2)	552 (3.1)	844 (5.8)	685 (2.4)
Outdoor children	39775	743 (6.9)	419 (4.1)	469 (5.2)	741 (6.8)	593 (2.9)
Heart and respiratory	55655	655 (6.0)	381 (4.6)	433 (5.3)	658 (7.2)	532 (2.9)
All persons	471890	710 (10.1)	403 (5.5)	452 (6.1)	706 (10.0)	568 (4.1)

Highest quarter 1 exposure is 862 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 485 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 552 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 844 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 685 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Houston: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	100613	427 (5.2)	232 (2.8)	571 (6.3)	890 (11.2)	531 (3.6)
African americans	78437	413 (4.2)	224 (2.4)	552 (6.0)	856 (9.1)	513 (3.0)
Hispanics	69299	424 (6.8)	228 (3.3)	558 (7.1)	878 (14.2)	523 (4.4)
Household income lt \$10K	59604	404 (3.3)	219 (1.9)	542 (4.3)	841 (7.6)	503 (2.4)
Household income \$10K-\$25K	80124	427 (5.2)	229 (2.6)	560 (5.5)	889 (10.7)	528 (3.4)
Household income \$25K-\$50K	63818	427 (6.0)	232 (3.1)	574 (6.6)	892 (12.9)	533 (4.0)
Household income \$50K-\$75K	12492	431 (4.1)	235 (2.5)	580 (6.4)	900 (9.1)	538 (3.0)
Household income gt \$75K	3370	427 (4.9)	231 (2.4)	571 (4.9)	887 (9.6)	530 (3.0)
Children, 0 to 17	70733	424 (5.0)	231 (2.8)	574 (6.5)	884 (10.8)	530 (3.5)
Nonworking men, 18 to 44	15174	445 (7.3)	243 (3.3)	608 (6.6)	929 (14.9)	558 (4.6)
Working men, 18 to 44	32208	466 (3.4)	267 (2.4)	593 (3.6)	907 (6.1)	560 (2.1)
Nonworking women, 18 to 44	25361	413 (4.1)	224 (2.1)	555 (4.9)	859 (8.8)	514 (2.8)
Working women, 18 to 44	23194	438 (2.2)	248 (1.7)	573 (2.8)	863 (4.1)	532 (1.4)
Nonworking men, 45 to 64	6468	407 (1.8)	222 (0.8)	551 (2.6)	852 (3.6)	509 (1.2)
Working men, 45 to 64	12501	472 (3.3)	274 (2.3)	595 (2.9)	913 (5.5)	565 (1.9)
Nonworking women, 45 to 64	10398	397 (2.3)	216 (1.6)	540 (4.3)	829 (5.7)	497 (1.9)
Working women, 45 to 64	9072	436 (2.9)	247 (1.9)	560 (2.8)	858 (5.6)	526 (1.8)
Men, 65+	7635	424 (4.8)	234 (2.5)	586 (4.8)	888 (11.1)	534 (3.3)
Women, 65+	7757	398 (3.4)	219 (2.2)	552 (5.6)	833 (8.7)	502 (2.8)
Outdoor workers	8110	524 (4.0)	319 (2.9)	687 (3.1)	976 (5.7)	628 (2.0)
Outdoor children	20628	440 (3.0)	240 (2.0)	592 (5.3)	920 (6.9)	550 (2.4)
Heart and respiratory	27590	406 (3.5)	221 (2.5)	549 (6.5)	844 (8.4)	506 (2.9)
All persons	220501	426 (5.2)	231 (2.8)	570 (6.3)	889 (11.2)	531 (3.5)

Highest quarter 1 exposure is 524 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 319 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 687 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 976 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 628 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Houston: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	227888	579 (7.7)	429 (5.6)	674 (7.9)	814 (10.4)	625 (4.0)
African americans	60989	559 (6.7)	412 (4.9)	648 (7.3)	784 (9.1)	602 (3.6)
Hispanics	65685	570 (8.8)	419 (6.1)	654 (8.2)	800 (12.3)	611 (4.6)
Household income lt \$10K	55721	546 (5.4)	404 (4.0)	636 (5.3)	767 (7.2)	589 (2.8)
Household income \$10K-\$25K	101162	578 (7.5)	423 (5.1)	659 (6.9)	810 (10.1)	618 (3.8)
Household income \$25K-\$50K	107949	580 (8.6)	430 (6.0)	677 (8.2)	815 (11.7)	626 (4.4)
Household income \$50K-\$75K	39429	588 (6.3)	435 (5.2)	684 (8.0)	825 (8.6)	634 (3.6)
Household income gt \$75K	32486	578 (6.5)	426 (4.3)	670 (5.7)	815 (9.4)	623 (3.4)
Children, 0 to 17	91427	576 (7.3)	429 (5.5)	677 (8.0)	809 (10.0)	623 (3.9)
Nonworking men, 18 to 44	17573	597 (8.9)	450 (5.8)	717 (7.6)	839 (12.4)	652 (4.5)
Working men, 18 to 44	59334	599 (5.0)	438 (3.8)	679 (5.3)	844 (6.8)	641 (2.7)
Nonworking women, 18 to 44	33209	557 (6.2)	413 (4.3)	652 (6.0)	783 (8.2)	602 (3.2)
Working women, 18 to 44	45892	568 (3.4)	420 (2.7)	664 (4.3)	801 (4.6)	614 (1.9)
Nonworking men, 45 to 64	7448	552 (2.8)	411 (1.6)	647 (3.2)	772 (3.5)	596 (1.5)
Working men, 45 to 64	23227	606 (4.9)	441 (3.4)	679 (4.0)	855 (6.6)	646 (2.4)
Nonworking women, 45 to 64	14203	533 (3.7)	398 (3.4)	634 (5.5)	753 (5.2)	580 (2.3)
Working women, 45 to 64	17778	564 (4.5)	413 (3.3)	646 (4.1)	797 (6.1)	606 (2.3)
Men, 65+	14082	574 (7.5)	435 (5.3)	693 (6.3)	805 (9.8)	628 (3.7)
Women, 65+	14892	533 (5.1)	405 (4.7)	651 (7.1)	751 (7.0)	586 (3.0)
Outdoor workers	10110	650 (5.2)	494 (3.6)	785 (4.0)	915 (6.9)	712 (2.5)
Outdoor children	25850	604 (4.9)	447 (4.1)	700 (6.5)	845 (6.5)	650 (2.8)
Heart and respiratory	44351	548 (5.8)	408 (5.2)	646 (8.1)	769 (7.6)	593 (3.4)
All persons	339065	578 (7.6)	428 (5.6)	672 (7.8)	812 (10.3)	623 (4.0)

Highest quarter 1 exposure is 650 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 494 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 785 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 915 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 712 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Houston: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	68596	257 (3.4)	137 (1.7)	367 (4.2)	571 (7.3)	334 (2.3)
African americans	24268	248 (2.9)	132 (1.4)	353 (3.9)	552 (6.5)	322 (2.1)
Hispanics	30959	253 (4.0)	135 (2.0)	357 (4.4)	563 (8.8)	328 (2.7)
Household income lt \$10K	19134	242 (2.4)	130 (1.2)	347 (2.8)	539 (5.0)	315 (1.6)
Household income \$10K-\$25K	43613	256 (3.3)	136 (1.5)	359 (3.7)	569 (7.0)	331 (2.2)
Household income \$25K-\$50K	34964	257 (3.8)	138 (1.8)	369 (4.4)	572 (8.3)	335 (2.6)
Household income \$50K-\$75K	12160	261 (2.8)	139 (1.5)	373 (4.3)	578 (5.8)	339 (2.0)
Household income gt \$75K	3503	257 (2.9)	137 (1.3)	366 (3.1)	572 (6.6)	334 (2.0)
Children, 0 to 17	36671	255 (3.2)	137 (1.7)	368 (4.3)	568 (7.1)	333 (2.3)
Nonworking men, 18 to 44	6828	266 (4.1)	144 (2.0)	392 (4.2)	590 (8.7)	349 (2.7)
Working men, 18 to 44	19682	297 (2.7)	166 (1.7)	388 (2.7)	597 (4.3)	363 (1.5)
Nonworking women, 18 to 44	12369	247 (2.7)	132 (1.3)	355 (3.2)	549 (5.6)	322 (1.8)
Working women, 18 to 44	13679	275 (1.8)	152 (1.2)	373 (2.1)	565 (2.9)	342 (1.0)
Nonworking men, 45 to 64	2419	245 (1.2)	132 (0.5)	352 (1.7)	544 (2.5)	319 (0.8)
Working men, 45 to 64	6262	303 (2.6)	172 (1.6)	393 (2.1)	605 (4.1)	369 (1.4)
Nonworking women, 45 to 64	4296	237 (1.7)	128 (1.0)	345 (2.9)	529 (3.5)	311 (1.2)
Working women, 45 to 64	4274	276 (2.3)	152 (1.4)	365 (2.0)	563 (3.9)	340 (1.3)
Men, 65+	3504	255 (3.3)	139 (1.5)	377 (3.3)	567 (7.0)	335 (2.1)
Women, 65+	3481	237 (2.2)	130 (1.4)	355 (3.8)	529 (5.0)	313 (1.7)
Outdoor workers	4068	347 (3.3)	204 (2.1)	459 (2.3)	652 (4.3)	416 (1.6)
Outdoor children	10686	267 (2.2)	142 (1.2)	381 (3.5)	593 (4.5)	347 (1.6)
Heart and respiratory	13693	243 (2.5)	131 (1.6)	352 (4.4)	541 (5.3)	318 (1.9)
All persons	113465	256 (3.3)	137 (1.7)	366 (4.2)	570 (7.2)	333 (2.3)

Highest quarter 1 exposure is 347 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 204 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 459 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 652 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 416 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Houston: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	145293	347 (4.9)	211 (2.9)	328 (4.0)	363 (4.7)	312 (2.1)
African americans	30544	331 (3.9)	201 (2.5)	315 (3.7)	350 (4.0)	300 (1.8)
Hispanics	130705	339 (5.6)	205 (3.2)	318 (4.1)	358 (5.7)	305 (2.4)
Household income lt \$10K	63109	326 (3.8)	198 (2.2)	309 (2.8)	343 (3.3)	294 (1.5)
Household income \$10K-\$25K	97137	346 (4.7)	208 (2.6)	321 (3.5)	362 (4.4)	309 (2.0)
Household income \$25K-\$50K	69382	348 (5.4)	211 (3.1)	330 (4.2)	364 (5.3)	313 (2.3)
Household income \$50K-\$75K	15215	353 (4.4)	214 (2.8)	334 (4.1)	369 (3.9)	317 (1.9)
Household income gt \$75K	5332	342 (3.7)	208 (2.1)	325 (2.8)	363 (4.0)	310 (1.6)
Children, 0 to 17	79614	345 (4.7)	211 (2.9)	330 (4.1)	361 (4.5)	312 (2.0)
Nonworking men, 18 to 44	15988	360 (5.8)	221 (3.0)	351 (3.7)	376 (5.8)	327 (2.4)
Working men, 18 to 44	38852	381 (3.5)	237 (2.5)	358 (2.9)	427 (4.2)	351 (1.7)
Nonworking women, 18 to 44	29857	334 (4.1)	203 (2.3)	317 (3.1)	350 (3.7)	301 (1.7)
Working women, 18 to 44	24267	354 (2.3)	221 (1.7)	341 (2.3)	394 (2.8)	327 (1.2)
Nonworking men, 45 to 64	5914	332 (1.7)	203 (0.9)	316 (1.6)	346 (1.5)	299 (0.7)
Working men, 45 to 64	13807	386 (3.5)	242 (2.4)	366 (2.5)	436 (4.3)	358 (1.6)
Nonworking women, 45 to 64	10818	319 (2.6)	195 (1.8)	308 (3.0)	337 (2.4)	290 (1.3)
Working women, 45 to 64	8874	355 (3.2)	219 (2.1)	334 (2.4)	397 (3.6)	326 (1.4)
Men, 65+	11058	345 (5.2)	215 (2.9)	340 (3.3)	361 (4.5)	315 (2.0)
Women, 65+	11182	322 (4.1)	200 (2.7)	317 (3.6)	337 (3.4)	294 (1.7)
Outdoor workers	9774	435 (4.2)	286 (3.0)	436 (2.9)	504 (5.4)	415 (2.0)
Outdoor children	22785	363 (3.3)	220 (2.2)	342 (3.3)	378 (3.0)	326 (1.5)
Heart and respiratory	32309	327 (4.2)	200 (2.9)	314 (4.2)	344 (3.5)	296 (1.9)
All persons	250231	347 (4.9)	210 (2.9)	327 (4.0)	363 (4.7)	312 (2.1)

Highest quarter 1 exposure is 435 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 286 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 436 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 504 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 415 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Houston: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	177127	588 (8.3)	504 (6.7)	587 (7.1)	709 (9.5)	597 (4.0)
African americans	128140	566 (6.8)	484 (5.7)	564 (6.7)	683 (8.1)	575 (3.5)
Hispanics	117273	578 (9.4)	493 (7.4)	570 (7.5)	697 (11.0)	585 (4.5)
Household income lt \$10K	121837	555 (6.3)	475 (4.9)	553 (4.9)	667 (6.8)	563 (2.9)
Household income \$10K-\$25K	118902	585 (7.8)	498 (6.1)	575 (6.3)	705 (8.8)	591 (3.7)
Household income \$25K-\$50K	85462	589 (9.2)	506 (7.3)	590 (7.4)	710 (10.6)	599 (4.4)
Household income \$50K-\$75K	24776	597 (7.0)	512 (6.2)	596 (7.2)	719 (7.9)	606 (3.6)
Household income gt \$75K	27849	582 (6.6)	499 (4.9)	582 (5.0)	706 (8.0)	593 (3.1)
Children, 0 to 17	91135	585 (7.9)	504 (6.6)	590 (7.3)	705 (9.1)	596 (3.9)
Nonworking men, 18 to 44	33419	609 (9.4)	530 (7.1)	626 (6.7)	731 (10.8)	624 (4.3)
Working men, 18 to 44	60120	601 (5.7)	504 (4.6)	594 (5.0)	734 (6.6)	609 (2.8)
Nonworking women, 18 to 44	43958	566 (6.7)	486 (5.2)	567 (5.6)	683 (7.5)	576 (3.2)
Working women, 18 to 44	44423	567 (3.7)	485 (3.4)	580 (4.1)	693 (4.3)	582 (1.9)
Nonworking men, 45 to 64	11542	561 (2.8)	484 (1.9)	566 (2.9)	674 (3.1)	572 (1.4)
Working men, 45 to 64	20339	606 (5.4)	503 (4.1)	595 (3.9)	743 (6.4)	612 (2.5)
Nonworking women, 45 to 64	16786	540 (4.2)	468 (4.1)	551 (5.1)	654 (4.8)	554 (2.3)
Working women, 45 to 64	15127	564 (5.3)	476 (4.1)	564 (3.9)	691 (5.9)	574 (2.4)
Men, 65+	21335	587 (8.6)	515 (6.6)	608 (5.9)	707 (9.6)	604 (3.9)
Women, 65+	21843	543 (6.4)	478 (5.9)	567 (6.5)	658 (7.6)	562 (3.3)
Outdoor workers	11302	652 (6.0)	561 (4.4)	695 (4.0)	806 (7.0)	679 (2.7)
Outdoor children	25563	616 (5.5)	526 (5.0)	610 (5.9)	740 (6.1)	623 (2.8)
Heart and respiratory	52457	555 (6.7)	480 (6.5)	562 (7.7)	669 (7.4)	567 (3.6)
All persons	380027	588 (8.3)	504 (6.7)	585 (7.1)	709 (9.5)	597 (4.0)

Highest quarter 1 exposure is 652 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 561 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 695 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 806 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 679 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Houston: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	1428429	440 (5.8)	302 (3.9)	506 (5.9)	669 (8.6)	480 (3.2)
African americans	272291	423 (4.9)	290 (3.4)	487 (5.5)	645 (7.4)	462 (2.8)
Hispanics	285599	433 (6.9)	296 (4.4)	492 (6.2)	659 (10.3)	470 (3.7)
Household income lt \$10K	245103	414 (4.2)	285 (2.8)	478 (4.0)	631 (6.0)	453 (2.2)
Household income \$10K-\$25K	543347	438 (5.7)	299 (3.6)	495 (5.2)	667 (8.2)	475 (3.0)
Household income \$25K-\$50K	654531	440 (6.6)	303 (4.3)	508 (6.1)	670 (9.7)	481 (3.5)
Household income \$50K-\$75K	297106	446 (4.9)	307 (3.6)	514 (6.0)	678 (7.0)	487 (2.8)
Household income gt \$75K	189869	437 (4.9)	300 (3.0)	503 (4.3)	669 (7.5)	478 (2.6)
Children, 0 to 17	567847	437 (5.6)	302 (3.9)	508 (6.0)	665 (8.3)	479 (3.1)
Nonworking men, 18 to 44	92525	455 (7.0)	317 (4.2)	539 (5.8)	693 (10.5)	502 (3.6)
Working men, 18 to 44	381435	466 (4.8)	320 (3.3)	523 (4.9)	704 (7.1)	504 (2.6)
Nonworking women, 18 to 44	179220	423 (4.7)	292 (3.0)	490 (4.6)	645 (6.8)	463 (2.5)
Working women, 18 to 44	296505	438 (3.2)	303 (2.3)	507 (3.9)	665 (4.7)	479 (1.8)
Nonworking men, 45 to 64	31875	419 (2.0)	290 (1.1)	486 (2.4)	637 (2.8)	459 (1.1)
Working men, 45 to 64	126018	472 (4.7)	323 (3.0)	526 (3.9)	713 (6.8)	509 (2.4)
Nonworking women, 45 to 64	64507	405 (2.9)	281 (2.4)	476 (4.2)	620 (4.3)	446 (1.8)
Working women, 45 to 64	96618	438 (4.4)	299 (2.9)	494 (3.8)	663 (6.4)	474 (2.3)
Men, 65+	50665	437 (5.8)	308 (3.7)	521 (4.7)	665 (8.4)	483 (3.0)
Women, 65+	52562	406 (4.2)	286 (3.4)	489 (5.3)	621 (6.3)	451 (2.5)
Outdoor workers	54777	517 (5.1)	368 (3.3)	613 (4.0)	775 (7.4)	569 (2.6)
Outdoor children	162250	458 (3.7)	315 (2.9)	525 (4.9)	695 (5.4)	499 (2.2)
Heart and respiratory	232059	416 (4.5)	288 (3.7)	485 (6.2)	633 (6.4)	456 (2.7)
All persons	1939779	439 (5.8)	302 (3.9)	504 (5.9)	669 (8.6)	479 (3.1)

Highest quarter 1 exposure is 517 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 368 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 613 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 775 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 569 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	269590	698 (9.9)	529 (7.4)	641 (8.9)	574 (8.1)	610 (4.3)
African americans	17673	667 (7.8)	512 (6.6)	628 (9.4)	547 (6.0)	588 (3.8)
Hispanics	144380	683 (11.1)	521 (8.4)	632 (10.1)	561 (9.0)	599 (4.8)
Household income lt \$10K	39697	655 (7.4)	496 (5.1)	597 (5.6)	538 (6.0)	571 (3.0)
Household income \$10K-\$25K	91545	694 (9.2)	530 (7.9)	646 (10.7)	571 (7.5)	610 (4.5)
Household income \$25K-\$50K	146068	698 (10.9)	529 (7.7)	640 (8.7)	574 (8.9)	610 (4.6)
Household income \$50K-\$75K	67839	709 (8.6)	534 (6.7)	644 (8.7)	583 (7.1)	617 (3.9)
Household income gt \$75K	36191	688 (7.5)	523 (5.6)	634 (6.9)	566 (6.0)	603 (3.3)
Children, 0 to 17	109332	693 (9.3)	527 (6.9)	638 (8.1)	570 (7.6)	607 (4.0)
Nonworking men, 18 to 44	21717	722 (11.3)	539 (8.0)	639 (8.7)	594 (9.4)	623 (4.7)
Working men, 18 to 44	63499	779 (6.1)	568 (4.4)	679 (5.5)	670 (5.6)	674 (2.7)
Nonworking women, 18 to 44	40058	671 (8.0)	508 (5.5)	613 (6.4)	553 (6.5)	586 (3.3)
Working women, 18 to 44	48243	720 (4.0)	529 (2.9)	632 (3.5)	613 (3.9)	623 (1.8)
Nonworking men, 45 to 64	8337	666 (3.3)	526 (8.6)	664 (14.9)	547 (2.5)	601 (4.4)
Working men, 45 to 64	24622	792 (6.0)	571 (3.8)	674 (4.2)	682 (5.6)	679 (2.5)
Nonworking women, 45 to 64	15491	642 (5.2)	492 (4.7)	603 (6.8)	528 (4.2)	566 (2.7)
Working women, 45 to 64	18771	730 (6.1)	535 (3.8)	643 (4.3)	627 (5.9)	634 (2.6)
Men, 65+	17240	697 (10.6)	527 (6.9)	633 (6.9)	575 (8.9)	608 (4.2)
Women, 65+	18213	648 (8.5)	492 (5.6)	593 (5.7)	532 (6.9)	566 (3.4)
Outdoor workers	13001	900 (6.9)	641 (4.1)	769 (4.1)	802 (6.6)	778 (2.8)
Outdoor children	31141	729 (6.5)	547 (5.6)	656 (7.7)	599 (5.4)	633 (3.2)
Heart and respiratory	50808	658 (8.4)	504 (5.8)	615 (6.5)	541 (6.8)	579 (3.5)
All persons	385514	697 (9.9)	528 (7.4)	640 (9.0)	573 (8.0)	609 (4.3)

Highest quarter 1 exposure is 900 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 641 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 769 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 802 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 778 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	461683	950 (12.4)	463 (5.9)	353 (4.6)	768 (9.9)	632 (4.4)
African americans	55690	913 (9.5)	452 (5.5)	348 (5.3)	738 (7.5)	612 (3.6)
Hispanics	92611	936 (14.8)	459 (7.2)	350 (5.7)	756 (11.5)	624 (5.2)
Household income lt \$10K	87139	894 (7.7)	436 (3.2)	332 (2.3)	722 (6.0)	595 (2.6)
Household income \$10K-\$25K	134647	951 (12.0)	466 (6.4)	356 (5.4)	769 (9.9)	634 (4.4)
Household income \$25K-\$50K	174357	950 (13.9)	463 (6.3)	352 (4.6)	767 (11.0)	632 (4.8)
Household income \$50K-\$75K	91819	963 (10.3)	466 (5.2)	353 (4.4)	778 (8.1)	639 (3.7)
Household income gt \$75K	122486	944 (10.2)	460 (5.3)	351 (4.0)	766 (8.5)	629 (3.7)
Children, 0 to 17	90738	942 (11.4)	458 (5.3)	347 (3.9)	760 (9.1)	626 (4.0)
Nonworking men, 18 to 44	41486	986 (15.9)	476 (7.2)	356 (4.6)	795 (12.5)	652 (5.5)
Working men, 18 to 44	112067	1013 (8.8)	497 (4.6)	403 (4.4)	849 (7.5)	689 (3.3)
Nonworking women, 18 to 44	65947	917 (9.8)	446 (4.0)	338 (2.7)	739 (7.6)	609 (3.3)
Working women, 18 to 44	95187	954 (5.9)	466 (2.8)	370 (2.4)	795 (5.2)	645 (2.2)
Nonworking men, 45 to 64	14979	906 (4.4)	453 (6.9)	353 (7.2)	730 (3.4)	609 (2.9)
Working men, 45 to 64	41570	1031 (8.7)	503 (4.0)	406 (3.3)	869 (7.5)	701 (3.2)
Nonworking women, 45 to 64	25950	881 (6.1)	435 (3.8)	335 (3.7)	711 (4.7)	589 (2.3)
Working women, 45 to 64	34959	959 (8.3)	470 (3.8)	379 (3.0)	805 (7.2)	652 (3.0)
Men, 65+	43563	948 (12.4)	461 (4.9)	346 (2.9)	764 (9.5)	628 (4.1)
Women, 65+	47991	891 (10.8)	436 (4.8)	329 (2.5)	715 (7.7)	592 (3.6)
Outdoor workers	13774	1121 (9.7)	555 (4.1)	473 (3.0)	960 (8.4)	776 (3.4)
Outdoor children	25809	980 (7.1)	470 (4.0)	352 (3.7)	791 (5.6)	647 (2.6)
Heart and respiratory	92869	901 (9.7)	444 (4.2)	340 (2.8)	727 (7.3)	602 (3.3)
All persons	614438	949 (12.3)	462 (5.9)	352 (4.6)	765 (9.7)	631 (4.3)

Highest quarter 1 exposure is 1121 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 555 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 473 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 960 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 776 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	436915	1467 (18.5)	658 (8.8)	779 (10.7)	1690 (21.0)	1148 (7.8)
African americans	16419	1418 (15.1)	637 (8.0)	765 (11.4)	1631 (16.1)	1112 (6.5)
Hispanics	163602	1450 (22.3)	648 (10.2)	769 (12.2)	1672 (25.2)	1134 (9.3)
Household income lt \$10K	76598	1385 (11.6)	616 (5.5)	725 (6.2)	1598 (13.0)	1080 (4.8)
Household income \$10K-\$25K	152435	1467 (18.2)	660 (9.5)	786 (12.8)	1691 (21.0)	1151 (8.0)
Household income \$25K-\$50K	203331	1468 (20.9)	658 (9.3)	779 (10.4)	1692 (23.8)	1148 (8.7)
Household income \$50K-\$75K	87054	1487 (14.8)	663 (7.9)	783 (10.3)	1711 (16.8)	1161 (6.5)
Household income gt \$75K	70724	1468 (17.1)	651 (7.0)	772 (8.3)	1696 (20.0)	1146 (7.1)
Children, 0 to 17	123521	1456 (17.5)	653 (8.1)	774 (9.5)	1676 (20.1)	1139 (7.4)
Nonworking men, 18 to 44	38906	1518 (23.7)	670 (9.8)	778 (10.5)	1750 (27.7)	1179 (9.8)
Working men, 18 to 44	107884	1492 (11.0)	682 (5.8)	800 (7.4)	1700 (12.3)	1168 (4.7)
Nonworking women, 18 to 44	63443	1416 (14.4)	631 (6.4)	745 (7.4)	1634 (16.0)	1106 (5.9)
Working women, 18 to 44	81716	1427 (7.6)	642 (3.7)	752 (4.6)	1635 (8.8)	1114 (3.2)
Nonworking men, 45 to 64	14192	1395 (6.5)	650 (10.5)	800 (18.0)	1603 (7.0)	1112 (5.8)
Working men, 45 to 64	38803	1510 (10.5)	685 (5.0)	794 (5.5)	1717 (11.3)	1176 (4.3)
Nonworking women, 45 to 64	23583	1359 (8.5)	614 (5.6)	734 (8.1)	1567 (9.5)	1068 (4.0)
Working women, 45 to 64	29916	1418 (9.9)	647 (5.1)	766 (5.9)	1620 (11.1)	1113 (4.2)
Men, 65+	35034	1457 (17.0)	654 (7.9)	770 (8.1)	1679 (19.1)	1140 (7.0)
Women, 65+	35891	1363 (12.9)	614 (6.9)	722 (6.7)	1564 (13.3)	1065 (5.2)
Outdoor workers	16781	1590 (10.9)	748 (5.2)	881 (5.2)	1791 (11.4)	1252 (4.4)
Outdoor children	33950	1515 (10.7)	676 (6.4)	795 (9.0)	1742 (12.1)	1181 (4.9)
Heart and respiratory	83646	1391 (13.0)	628 (6.8)	748 (7.7)	1601 (14.0)	1092 (5.4)
All persons	592891	1464 (18.2)	657 (8.8)	778 (10.7)	1686 (20.5)	1146 (7.7)

Highest quarter 1 exposure is 1590 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 748 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 881 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1791 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1252 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	479116	1161 (14.7)	672 (9.1)	734 (10.2)	1252 (15.7)	954 (6.4)
African americans	163449	1117 (11.5)	652 (8.3)	719 (10.9)	1204 (11.9)	923 (5.4)
Hispanics	761700	1144 (17.8)	662 (10.4)	723 (11.6)	1234 (18.7)	941 (7.5)
Household income lt \$10K	300958	1094 (9.3)	630 (5.7)	683 (5.8)	1180 (9.8)	896 (3.9)
Household income \$10K-\$25K	459964	1162 (14.5)	674 (9.8)	740 (12.2)	1253 (15.7)	957 (6.6)
Household income \$25K-\$50K	352053	1161 (16.6)	672 (9.5)	733 (9.9)	1252 (17.7)	954 (7.0)
Household income \$50K-\$75K	95472	1175 (11.9)	678 (8.2)	737 (9.8)	1268 (12.7)	964 (5.4)
Household income gt \$75K	51735	1158 (13.0)	665 (7.2)	725 (7.9)	1253 (14.4)	950 (5.5)
Children, 0 to 17	351805	1151 (13.8)	668 (8.2)	728 (8.9)	1241 (14.9)	946 (5.9)
Nonworking men, 18 to 44	113247	1204 (19.1)	685 (10.0)	733 (10.0)	1297 (20.5)	979 (7.8)
Working men, 18 to 44	209768	1222 (8.0)	690 (5.2)	744 (6.1)	1313 (8.4)	992 (3.5)
Nonworking women, 18 to 44	159499	1119 (11.5)	645 (6.5)	701 (6.8)	1208 (12.0)	918 (4.8)
Working women, 18 to 44	142842	1157 (5.4)	650 (3.3)	700 (3.8)	1248 (6.0)	938 (2.4)
Nonworking men, 45 to 64	30913	1105 (5.0)	664 (10.5)	753 (16.7)	1189 (5.1)	927 (5.3)
Working men, 45 to 64	60619	1241 (7.8)	692 (4.4)	737 (4.7)	1332 (8.0)	1000 (3.2)
Nonworking women, 45 to 64	46014	1076 (6.9)	627 (5.7)	691 (7.7)	1160 (7.3)	888 (3.5)
Working women, 45 to 64	42155	1158 (7.4)	656 (4.6)	714 (5.0)	1248 (8.0)	943 (3.2)
Men, 65+	54304	1154 (14.1)	669 (8.3)	726 (7.8)	1243 (14.5)	948 (5.8)
Women, 65+	53221	1083 (11.2)	628 (7.4)	681 (6.8)	1161 (10.6)	888 (4.6)
Outdoor workers	40295	1337 (8.4)	754 (4.6)	817 (4.3)	1432 (8.5)	1085 (3.4)
Outdoor children	97152	1197 (8.5)	691 (6.6)	747 (8.4)	1290 (9.1)	981 (4.1)
Heart and respiratory	160771	1101 (10.9)	642 (7.1)	705 (7.4)	1185 (11.0)	908 (4.6)
All persons	1264387	1158 (14.5)	671 (9.1)	733 (10.2)	1248 (15.3)	952 (6.3)

Highest quarter 1 exposure is 1337 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 754 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 817 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1432 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1085 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	496665	1150 (14.4)	612 (8.0)	670 (8.9)	1171 (14.4)	900 (5.9)
African americans	25768	1117 (12.2)	596 (7.6)	659 (9.8)	1136 (11.0)	876 (5.1)
Hispanics	163885	1140 (17.5)	606 (9.5)	662 (10.5)	1163 (17.5)	892 (7.1)
Household income lt \$10K	68069	1086 (8.8)	575 (4.9)	625 (4.9)	1108 (8.2)	848 (3.5)
Household income \$10K-\$25K	153183	1151 (14.2)	614 (8.7)	676 (10.7)	1175 (14.7)	903 (6.2)
Household income \$25K-\$50K	216185	1151 (16.3)	612 (8.5)	669 (8.8)	1172 (16.3)	901 (6.5)
Household income \$50K-\$75K	117289	1165 (11.3)	617 (7.1)	672 (8.6)	1185 (11.2)	909 (4.9)
Household income gt \$75K	106054	1154 (14.0)	608 (6.7)	664 (7.1)	1182 (14.9)	902 (5.7)
Children, 0 to 17	148271	1142 (13.8)	608 (7.3)	664 (7.8)	1161 (13.7)	893 (5.5)
Nonworking men, 18 to 44	37179	1189 (18.6)	625 (9.2)	671 (8.8)	1213 (19.6)	924 (7.5)
Working men, 18 to 44	125010	1204 (9.9)	639 (6.0)	703 (7.2)	1229 (9.9)	943 (4.2)
Nonworking women, 18 to 44	66585	1111 (11.1)	588 (5.7)	641 (5.9)	1134 (10.7)	868 (4.4)
Working women, 18 to 44	94912	1146 (6.7)	601 (3.7)	658 (4.2)	1176 (7.2)	895 (2.8)
Nonworking men, 45 to 64	14630	1091 (5.0)	603 (9.5)	682 (14.7)	1107 (4.6)	870 (4.7)
Working men, 45 to 64	47915	1223 (9.8)	642 (5.2)	699 (5.3)	1247 (9.2)	952 (3.8)
Nonworking women, 45 to 64	26492	1065 (6.2)	572 (5.0)	632 (6.8)	1088 (6.1)	839 (3.0)
Working women, 45 to 64	36855	1142 (8.8)	606 (5.1)	670 (5.6)	1171 (9.0)	897 (3.7)
Men, 65+	35375	1141 (12.7)	609 (6.9)	660 (6.4)	1160 (11.8)	892 (4.9)
Women, 65+	36306	1067 (9.4)	573 (6.2)	622 (5.3)	1085 (7.7)	836 (3.6)
Outdoor workers	21235	1308 (10.3)	702 (5.4)	784 (5.0)	1329 (9.6)	1030 (4.0)
Outdoor children	40292	1187 (8.3)	628 (5.7)	679 (7.4)	1202 (8.0)	923 (3.7)
Heart and respiratory	92004	1092 (9.6)	586 (6.0)	644 (6.1)	1111 (8.3)	858 (3.8)
All persons	669530	1148 (14.1)	612 (8.0)	669 (9.0)	1168 (13.9)	899 (5.8)

Highest quarter 1 exposure is 1308 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 702 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 784 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1329 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1030 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	259517	1745 (22.1)	806 (11.4)	661 (9.7)	2164 (27.3)	1344 (9.5)
African americans	225332	1688 (18.6)	778 (10.1)	646 (10.0)	2081 (21.1)	1297 (7.9)
Hispanics	539018	1722 (26.1)	790 (12.3)	649 (10.3)	2129 (31.5)	1322 (11.0)
Household income lt \$10K	199754	1648 (14.5)	754 (8.1)	613 (6.1)	2044 (18.1)	1264 (6.3)
Household income \$10K-\$25K	296311	1745 (21.8)	807 (12.2)	667 (11.5)	2166 (27.7)	1346 (9.8)
Household income \$25K-\$50K	281867	1746 (24.9)	806 (11.8)	661 (9.4)	2166 (30.8)	1344 (10.6)
Household income \$50K-\$75K	74408	1766 (17.4)	814 (10.4)	665 (9.4)	2192 (22.3)	1358 (7.9)
Household income gt \$75K	31914	1747 (20.5)	794 (8.6)	652 (7.1)	2168 (24.7)	1339 (8.5)
Children, 0 to 17	312836	1734 (21.2)	803 (10.6)	659 (8.7)	2148 (26.3)	1335 (9.1)
Nonworking men, 18 to 44	69003	1803 (26.9)	818 (11.6)	651 (8.5)	2239 (34.0)	1377 (11.4)
Working men, 18 to 44	127400	1753 (10.2)	816 (5.8)	678 (5.2)	2147 (12.4)	1348 (4.5)
Nonworking women, 18 to 44	114454	1681 (17.0)	772 (8.4)	629 (6.7)	2087 (21.0)	1292 (7.3)
Working women, 18 to 44	84922	1679 (7.0)	769 (3.9)	634 (3.3)	2066 (9.1)	1286 (3.1)
Nonworking men, 45 to 64	20641	1660 (7.5)	799 (13.4)	684 (15.5)	2056 (9.3)	1299 (5.9)
Working men, 45 to 64	37402	1774 (9.8)	817 (4.9)	675 (4.1)	2166 (11.2)	1357 (4.0)
Nonworking women, 45 to 64	33541	1614 (9.9)	747 (7.2)	619 (6.9)	2002 (13.0)	1245 (4.8)
Working women, 45 to 64	25935	1664 (9.0)	774 (5.1)	650 (4.3)	2041 (11.1)	1281 (3.9)
Men, 65+	29895	1732 (20.5)	802 (10.7)	653 (7.5)	2149 (25.8)	1333 (8.9)
Women, 65+	30837	1617 (14.3)	745 (8.5)	608 (6.2)	1993 (16.1)	1240 (6.0)
Outdoor workers	28407	1842 (9.9)	877 (5.2)	753 (3.9)	2222 (11.1)	1423 (4.1)
Outdoor children	87066	1807 (13.2)	836 (8.7)	680 (8.3)	2238 (16.8)	1389 (6.1)
Heart and respiratory	107265	1656 (15.7)	767 (9.2)	634 (7.3)	2048 (19.2)	1275 (6.9)
All persons	886866	1742 (21.8)	805 (11.4)	661 (9.7)	2158 (26.8)	1341 (9.4)

Highest quarter 1 exposure is 1842 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 877 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 753 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 2239 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Highest annual exposure is 1423 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	217973	1161 (14.4)	447 (6.0)	490 (6.8)	1387 (17.1)	871 (6.0)
African americans	4710	1124 (11.7)	434 (5.5)	481 (7.3)	1339 (13.3)	844 (5.0)
Hispanics	266360	1150 (17.7)	440 (6.8)	484 (7.7)	1372 (20.7)	861 (7.3)
Household income lt \$10K	46801	1098 (8.8)	419 (3.6)	456 (3.8)	1311 (10.8)	821 (3.7)
Household income \$10K-\$25K	101215	1162 (14.1)	449 (6.5)	495 (8.1)	1387 (16.9)	873 (6.1)
Household income \$25K-\$50K	142108	1162 (16.4)	447 (6.2)	490 (6.6)	1389 (19.5)	871 (6.8)
Household income \$50K-\$75K	56498	1175 (11.3)	450 (5.3)	492 (6.5)	1405 (13.6)	880 (4.9)
Household income gt \$75K	25082	1163 (13.9)	443 (4.8)	485 (5.2)	1391 (16.4)	870 (5.7)
Children, 0 to 17	114707	1152 (13.7)	444 (5.4)	486 (5.9)	1376 (16.5)	864 (5.7)
Nonworking men, 18 to 44	24711	1203 (18.8)	454 (6.4)	489 (6.4)	1435 (22.3)	895 (7.6)
Working men, 18 to 44	58247	1221 (6.7)	508 (3.8)	551 (4.3)	1424 (7.7)	925 (2.9)
Nonworking women, 18 to 44	43665	1121 (11.0)	429 (4.2)	468 (4.5)	1340 (12.9)	839 (4.5)
Working women, 18 to 44	39437	1160 (4.6)	469 (2.3)	505 (2.5)	1360 (5.5)	873 (2.0)
Nonworking men, 45 to 64	8969	1104 (4.9)	440 (6.9)	501 (11.0)	1314 (5.2)	839 (3.7)
Working men, 45 to 64	21079	1239 (6.4)	515 (3.3)	550 (3.2)	1439 (7.1)	935 (2.6)
Nonworking women, 45 to 64	15707	1078 (6.4)	417 (3.7)	461 (5.0)	1287 (7.8)	810 (3.0)
Working women, 45 to 64	14713	1156 (6.2)	473 (2.9)	515 (3.0)	1353 (7.3)	874 (2.6)
Men, 65+	15833	1154 (13.0)	444 (5.2)	484 (5.0)	1377 (15.5)	864 (5.4)
Women, 65+	16206	1082 (10.2)	417 (4.6)	454 (4.2)	1286 (11.3)	810 (4.1)
Outdoor workers	13217	1338 (6.9)	598 (3.8)	659 (3.3)	1537 (7.3)	1033 (2.8)
Outdoor children	32448	1196 (8.0)	458 (4.2)	499 (5.6)	1430 (9.8)	895 (3.6)
Heart and respiratory	48035	1103 (10.0)	427 (4.5)	471 (4.8)	1315 (11.8)	829 (4.2)
All persons	373274	1159 (14.1)	446 (5.9)	490 (6.8)	1384 (16.7)	869 (5.9)

Highest quarter 1 exposure is 1338 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 598 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 659 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1537 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1033 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=8

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	188796	1289 (16.8)	702 (9.5)	806 (11.0)	1330 (17.4)	1031 (7.1)
African americans	25926	1242 (14.0)	682 (8.7)	792 (11.9)	1278 (14.2)	998 (6.2)
Hispanics	91901	1268 (19.3)	692 (10.8)	796 (12.6)	1306 (19.7)	1015 (8.0)
Household income lt \$10K	30913	1215 (11.7)	659 (6.2)	751 (6.5)	1253 (12.2)	969 (4.8)
Household income \$10K-\$25K	64206	1286 (16.6)	705 (10.3)	813 (13.2)	1327 (17.3)	1032 (7.3)
Household income \$25K-\$50K	91634	1290 (18.9)	703 (10.0)	805 (10.8)	1331 (19.4)	1032 (7.7)
Household income \$50K-\$75K	54345	1308 (13.9)	708 (8.5)	809 (10.5)	1351 (14.6)	1043 (6.1)
Household income gt \$75K	35129	1287 (14.7)	695 (7.5)	798 (8.6)	1330 (15.4)	1027 (6.0)
Children, 0 to 17	81353	1280 (16.1)	698 (8.8)	799 (9.7)	1321 (16.7)	1024 (6.6)
Nonworking men, 18 to 44	16998	1330 (19.9)	715 (10.2)	803 (10.5)	1371 (20.5)	1054 (8.0)
Working men, 18 to 44	49316	1317 (10.6)	723 (6.5)	831 (8.0)	1354 (10.8)	1056 (4.6)
Nonworking women, 18 to 44	29589	1242 (13.4)	674 (6.9)	770 (7.5)	1280 (13.7)	991 (5.4)
Working women, 18 to 44	35840	1254 (7.3)	681 (4.1)	781 (4.8)	1290 (7.7)	1001 (3.1)
Nonworking men, 45 to 64	5196	1223 (5.8)	695 (11.1)	825 (17.9)	1260 (6.0)	1000 (5.7)
Working men, 45 to 64	16276	1333 (10.1)	723 (5.5)	824 (5.9)	1369 (10.2)	1062 (4.1)
Nonworking women, 45 to 64	9532	1189 (8.2)	655 (6.0)	758 (8.3)	1226 (8.6)	957 (3.9)
Working women, 45 to 64	12206	1246 (9.6)	684 (5.7)	793 (6.4)	1280 (10.0)	1000 (4.1)
Men, 65+	11019	1279 (16.3)	699 (8.6)	793 (8.1)	1320 (16.9)	1022 (6.6)
Women, 65+	11586	1188 (11.3)	655 (7.2)	745 (6.6)	1218 (10.9)	951 (4.6)
Outdoor workers	9041	1412 (10.5)	789 (5.7)	920 (5.6)	1445 (10.4)	1141 (4.2)
Outdoor children	22838	1339 (10.5)	723 (7.0)	820 (9.2)	1383 (11.0)	1066 (4.8)
Heart and respiratory	35426	1219 (12.5)	670 (7.2)	773 (7.7)	1255 (12.9)	979 (5.2)
All persons	278911	1287 (16.6)	702 (9.5)	805 (11.0)	1327 (17.1)	1030 (7.0)

Highest quarter 1 exposure is 1412 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 789 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 920 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1445 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1141 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=9

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	295443	1106 (14.4)	683 (9.2)	681 (9.4)	1109 (14.5)	894 (6.1)
African americans	21717	1060 (11.0)	659 (8.1)	666 (9.8)	1062 (10.9)	861 (5.0)
Hispanics	226409	1088 (17.5)	672 (11.0)	671 (10.7)	1089 (16.7)	880 (7.2)
Household income lt \$10K	86435	1043 (9.9)	640 (6.2)	635 (5.9)	1046 (10.0)	840 (4.1)
Household income \$10K-\$25K	159701	1106 (14.6)	685 (9.9)	686 (11.1)	1109 (15.0)	896 (6.4)
Household income \$25K-\$50K	199124	1107 (16.3)	683 (9.7)	680 (9.2)	1110 (16.1)	895 (6.6)
Household income \$50K-\$75K	80554	1122 (12.2)	690 (8.5)	685 (9.3)	1127 (12.4)	905 (5.4)
Household income gt \$75K	60652	1102 (11.8)	676 (7.1)	674 (7.2)	1114 (12.5)	891 (5.0)
Children, 0 to 17	146156	1096 (13.6)	679 (8.6)	679 (8.6)	1099 (13.8)	888 (5.7)
Nonworking men, 18 to 44	39095	1152 (19.3)	699 (11.0)	678 (9.3)	1148 (18.7)	919 (7.6)
Working men, 18 to 44	90050	1173 (8.5)	712 (5.7)	720 (6.2)	1194 (8.6)	949 (3.7)
Nonworking women, 18 to 44	67393	1069 (11.8)	658 (7.0)	653 (7.0)	1071 (11.7)	862 (4.8)
Working women, 18 to 44	68828	1109 (6.0)	670 (3.8)	672 (4.0)	1129 (6.4)	894 (2.6)
Nonworking men, 45 to 64	15314	1054 (4.9)	680 (11.4)	709 (16.5)	1052 (5.1)	873 (5.3)
Working men, 45 to 64	35553	1186 (7.9)	713 (4.8)	717 (4.7)	1210 (8.0)	956 (3.3)
Nonworking women, 45 to 64	26822	1025 (7.4)	639 (6.1)	643 (7.3)	1026 (7.6)	833 (3.6)
Working women, 45 to 64	27259	1108 (7.9)	673 (5.0)	683 (4.8)	1128 (8.1)	897 (3.3)
Men, 65+	34502	1098 (14.1)	680 (8.5)	674 (7.4)	1095 (13.2)	886 (5.6)
Women, 65+	37121	1024 (9.6)	638 (7.1)	631 (5.9)	1013 (7.5)	826 (3.8)
Outdoor workers	16191	1281 (8.6)	781 (5.0)	811 (4.6)	1309 (8.6)	1045 (3.5)
Outdoor children	41809	1145 (9.2)	704 (7.0)	698 (8.1)	1149 (9.5)	923 (4.2)
Heart and respiratory	83235	1045 (10.6)	651 (7.2)	653 (6.8)	1044 (10.0)	848 (4.4)
All persons	588092	1103 (14.2)	682 (9.2)	680 (9.4)	1105 (14.2)	892 (6.0)

Highest quarter 1 exposure is 1281 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 781 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 811 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1309 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1045 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=10

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	239842	1182 (15.4)	571 (7.8)	633 (8.9)	1213 (15.9)	899 (6.3)
African americans	11469	1140 (12.7)	553 (7.1)	620 (9.3)	1164 (12.7)	869 (5.3)
Hispanics	137184	1164 (17.6)	562 (8.8)	623 (9.9)	1189 (17.7)	884 (7.1)
Household income lt \$10K	35554	1115 (10.3)	535 (5.1)	589 (5.5)	1140 (10.7)	844 (4.2)
Household income \$10K-\$25K	75522	1180 (14.9)	573 (8.4)	638 (10.6)	1210 (15.5)	900 (6.4)
Household income \$25K-\$50K	148679	1183 (17.2)	571 (8.2)	632 (8.7)	1213 (17.6)	899 (6.8)
Household income \$50K-\$75K	72426	1198 (12.6)	576 (7.1)	636 (8.6)	1231 (13.4)	910 (5.4)
Household income gt \$75K	42266	1178 (13.3)	565 (6.1)	625 (6.8)	1209 (13.4)	894 (5.2)
Children, 0 to 17	106799	1174 (14.5)	568 (7.2)	630 (8.0)	1203 (15.0)	893 (5.9)
Nonworking men, 18 to 44	21395	1219 (18.1)	581 (8.4)	629 (8.4)	1247 (18.5)	918 (7.1)
Working men, 18 to 44	62109	1244 (7.5)	619 (4.4)	665 (4.7)	1278 (7.7)	951 (3.1)
Nonworking women, 18 to 44	37573	1139 (12.1)	548 (5.6)	604 (6.2)	1167 (12.5)	864 (4.8)
Working women, 18 to 44	46794	1175 (5.0)	575 (2.7)	620 (2.9)	1206 (5.3)	893 (2.1)
Nonworking men, 45 to 64	9152	1123 (5.4)	566 (9.1)	655 (14.9)	1150 (5.3)	873 (4.8)
Working men, 45 to 64	26788	1266 (7.5)	623 (3.8)	660 (3.5)	1299 (7.6)	961 (3.0)
Nonworking women, 45 to 64	16037	1092 (7.4)	532 (4.9)	595 (6.7)	1118 (7.8)	834 (3.4)
Working women, 45 to 64	20428	1176 (6.9)	580 (3.6)	630 (3.8)	1210 (7.5)	898 (2.9)
Men, 65+	16761	1176 (15.1)	569 (7.2)	626 (6.9)	1205 (15.7)	893 (6.0)
Women, 65+	17086	1098 (11.9)	533 (6.2)	585 (5.8)	1120 (11.9)	833 (4.7)
Outdoor workers	12235	1369 (8.4)	706 (4.3)	752 (3.4)	1411 (8.4)	1059 (3.3)
Outdoor children	30968	1225 (9.2)	589 (5.7)	648 (7.5)	1258 (9.8)	929 (4.1)
Heart and respiratory	50245	1120 (11.8)	545 (6.2)	607 (6.5)	1146 (12.4)	854 (4.8)
All persons	380922	1180 (15.3)	571 (7.8)	632 (8.9)	1210 (15.6)	898 (6.2)

Highest quarter 1 exposure is 1369 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 706 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 752 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1411 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1059 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=11

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	383079	1375 (18.5)	791 (11.9)	516 (7.9)	1325 (16.9)	1000 (7.2)
African americans	83675	1323 (15.0)	763 (10.5)	504 (8.0)	1276 (12.9)	965 (5.9)
Hispanics	178436	1356 (22.1)	775 (12.9)	507 (8.4)	1309 (20.5)	985 (8.4)
Household income lt \$10K	93976	1295 (12.4)	738 (8.2)	478 (4.9)	1250 (10.7)	939 (4.7)
Household income \$10K-\$25K	173669	1370 (17.1)	791 (12.6)	521 (9.5)	1324 (16.1)	1000 (7.1)
Household income \$25K-\$50K	224054	1376 (20.8)	791 (12.3)	516 (7.7)	1326 (19.2)	1001 (7.9)
Household income \$50K-\$75K	103781	1394 (15.5)	800 (11.2)	520 (7.7)	1341 (13.5)	1012 (6.1)
Household income gt \$75K	61205	1363 (15.4)	777 (8.7)	508 (6.0)	1320 (15.2)	990 (6.0)
Children, 0 to 17	174960	1366 (17.3)	787 (10.9)	514 (7.1)	1315 (16.1)	994 (6.7)
Nonworking men, 18 to 44	42985	1424 (22.6)	803 (12.3)	513 (7.5)	1375 (21.8)	1027 (8.6)
Working men, 18 to 44	111455	1412 (12.0)	800 (8.2)	549 (5.9)	1384 (11.0)	1035 (4.8)
Nonworking women, 18 to 44	71981	1324 (14.5)	757 (9.0)	492 (5.7)	1279 (12.8)	962 (5.5)
Working women, 18 to 44	82929	1332 (7.6)	750 (5.3)	506 (3.6)	1309 (7.2)	973 (3.1)
Nonworking men, 45 to 64	15085	1313 (6.4)	788 (13.2)	538 (12.5)	1263 (5.3)	974 (5.0)
Working men, 45 to 64	38539	1430 (11.8)	797 (7.0)	545 (4.5)	1402 (10.6)	1042 (4.5)
Nonworking women, 45 to 64	24801	1270 (9.0)	732 (7.4)	482 (5.7)	1227 (7.7)	926 (3.8)
Working women, 45 to 64	29751	1334 (11.3)	758 (7.4)	521 (4.6)	1310 (10.3)	979 (4.4)
Men, 65+	33941	1373 (18.8)	791 (11.7)	513 (6.5)	1324 (16.4)	999 (7.1)
Women, 65+	35009	1289 (16.9)	737 (10.6)	476 (5.7)	1238 (13.6)	934 (6.2)
Outdoor workers	20721	1538 (13.0)	879 (7.6)	640 (4.6)	1519 (11.5)	1142 (4.9)
Outdoor children	47689	1427 (11.1)	821 (9.2)	531 (6.9)	1369 (9.8)	1035 (4.7)
Heart and respiratory	88946	1304 (15.2)	752 (10.2)	495 (6.2)	1256 (12.7)	951 (5.8)
All persons	661438	1374 (18.5)	790 (12.0)	516 (8.0)	1323 (16.6)	999 (7.2)

Highest quarter 1 exposure is 1538 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 879 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 640 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1519 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1142 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=12

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	291583	1154 (14.4)	276 (4.1)	243 (4.0)	1320 (16.2)	747 (5.6)
African americans	247393	1133 (12.7)	274 (4.3)	243 (4.7)	1289 (13.3)	734 (4.9)
Hispanics	168058	1154 (17.5)	275 (4.4)	242 (4.6)	1316 (19.5)	746 (6.7)
Household income lt \$10K	107854	1093 (8.0)	260 (2.2)	228 (1.8)	1250 (8.8)	707 (3.1)
Household income \$10K-\$25K	181189	1156 (13.5)	277 (4.3)	246 (4.7)	1324 (15.5)	750 (5.4)
Household income \$25K-\$50K	222905	1154 (16.3)	276 (4.2)	243 (4.1)	1320 (18.4)	747 (6.3)
Household income \$50K-\$75K	108930	1163 (10.5)	276 (3.3)	242 (3.5)	1331 (11.8)	752 (4.1)
Household income gt \$75K	84697	1161 (16.2)	275 (3.8)	240 (3.2)	1329 (17.9)	750 (6.2)
Children, 0 to 17	174450	1147 (14.0)	273 (3.6)	237 (3.3)	1310 (15.8)	741 (5.4)
Nonworking men, 18 to 44	44774	1190 (17.9)	277 (3.3)	242 (3.0)	1363 (20.5)	767 (6.9)
Working men, 18 to 44	121335	1214 (8.5)	340 (3.8)	307 (4.0)	1369 (9.5)	806 (3.5)
Nonworking women, 18 to 44	72697	1113 (10.3)	262 (2.3)	229 (1.9)	1273 (11.3)	718 (3.9)
Working women, 18 to 44	100217	1155 (5.5)	308 (2.3)	272 (2.2)	1309 (6.3)	760 (2.2)
Nonworking men, 45 to 64	17775	1096 (5.6)	265 (3.4)	234 (3.7)	1253 (5.6)	711 (2.3)
Working men, 45 to 64	45718	1240 (9.1)	350 (3.5)	311 (3.0)	1394 (9.6)	822 (3.5)
Nonworking women, 45 to 64	28220	1072 (5.1)	256 (1.9)	227 (2.3)	1227 (5.9)	694 (2.1)
Working women, 45 to 64	38865	1152 (7.3)	316 (2.9)	285 (2.8)	1305 (8.5)	764 (3.0)
Men, 65+	30916	1150 (11.7)	272 (2.9)	236 (2.5)	1315 (13.1)	742 (4.5)
Women, 65+	33276	1086 (10.7)	259 (2.8)	226 (2.0)	1237 (10.8)	701 (3.9)
Outdoor workers	20847	1335 (9.4)	423 (3.9)	397 (3.1)	1490 (10.0)	910 (3.6)
Outdoor children	47466	1183 (7.8)	280 (2.9)	240 (3.3)	1351 (8.7)	763 (3.1)
Heart and respiratory	93682	1104 (9.3)	266 (2.7)	235 (2.5)	1260 (10.0)	716 (3.5)
All persons	708232	1153 (14.2)	276 (4.1)	243 (4.0)	1318 (15.7)	747 (5.5)

Highest quarter 1 exposure is 1335 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 423 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 397 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1490 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 910 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=13

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	74331	595 (7.9)	447 (6.0)	555 (7.6)	619 (8.3)	554 (3.8)
African americans	1627	581 (7.7)	435 (5.7)	546 (8.3)	604 (8.4)	542 (3.8)
Hispanics	14115	586 (8.6)	441 (6.8)	548 (8.7)	609 (9.0)	546 (4.2)
Household income lt \$10K	5172	561 (5.4)	419 (3.9)	516 (4.4)	582 (5.6)	520 (2.5)
Household income \$10K-\$25K	11755	593 (7.7)	448 (6.5)	560 (9.1)	615 (8.1)	554 (4.0)
Household income \$25K-\$50K	28008	595 (8.7)	447 (6.3)	555 (7.5)	618 (9.1)	554 (4.0)
Household income \$50K-\$75K	22557	603 (6.3)	450 (5.3)	557 (7.3)	628 (6.8)	560 (3.2)
Household income gt \$75K	19557	600 (7.5)	443 (4.8)	550 (5.9)	626 (8.1)	555 (3.4)
Children, 0 to 17	23232	593 (7.7)	444 (5.6)	552 (6.8)	616 (8.1)	551 (3.6)
Nonworking men, 18 to 44	3894	605 (7.8)	452 (6.2)	550 (6.9)	624 (7.8)	558 (3.6)
Working men, 18 to 44	17167	686 (6.8)	492 (4.7)	602 (5.9)	698 (6.6)	619 (3.0)
Nonworking women, 18 to 44	7844	570 (5.9)	428 (4.3)	530 (5.2)	592 (6.2)	530 (2.7)
Working women, 18 to 44	12979	637 (4.7)	457 (2.9)	558 (3.5)	652 (4.8)	576 (2.0)
Nonworking men, 45 to 64	1699	563 (3.0)	441 (6.9)	569 (12.4)	583 (3.4)	539 (3.8)
Working men, 45 to 64	6708	707 (7.3)	498 (4.1)	602 (4.4)	721 (7.1)	632 (3.0)
Nonworking women, 45 to 64	3227	545 (3.3)	416 (3.6)	522 (5.5)	565 (3.5)	512 (2.0)
Working women, 45 to 64	5164	646 (6.5)	463 (3.8)	571 (4.4)	664 (7.1)	586 (2.8)
Men, 65+	3496	587 (7.1)	443 (5.2)	546 (5.5)	609 (7.5)	546 (3.2)
Women, 65+	3561	543 (4.4)	415 (4.1)	512 (4.3)	561 (4.4)	508 (2.1)
Outdoor workers	2695	796 (8.6)	559 (4.6)	686 (4.4)	805 (8.0)	711 (3.3)
Outdoor children	6552	620 (5.0)	460 (4.4)	567 (6.5)	645 (5.4)	573 (2.7)
Heart and respiratory	11518	564 (5.5)	426 (4.4)	532 (5.3)	586 (5.8)	527 (2.6)
All persons	88971	594 (7.8)	446 (6.0)	555 (7.6)	617 (8.2)	553 (3.7)

Highest quarter 1 exposure is 796 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 559 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 686 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 805 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 711 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=14

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	549719	1075 (13.8)	598 (8.4)	583 (8.3)	1099 (14.1)	838 (5.7)
African americans	17856	1035 (11.0)	579 (7.5)	571 (8.6)	1054 (10.8)	809 (4.8)
Hispanics	284408	1058 (16.2)	588 (9.4)	574 (9.1)	1079 (16.1)	824 (6.6)
Household income lt \$10K	71678	1015 (9.3)	560 (5.7)	541 (5.2)	1037 (9.5)	788 (3.8)
Household income \$10K-\$25K	195742	1075 (13.6)	600 (9.1)	588 (10.0)	1099 (14.1)	840 (5.9)
Household income \$25K-\$50K	300531	1076 (15.6)	599 (8.8)	582 (8.1)	1100 (15.8)	839 (6.3)
Household income \$50K-\$75K	142397	1089 (11.2)	604 (7.7)	585 (8.0)	1114 (11.7)	847 (4.9)
Household income gt \$75K	69635	1072 (11.9)	590 (6.4)	576 (6.4)	1099 (12.1)	834 (4.8)
Children, 0 to 17	207064	1067 (13.1)	595 (7.7)	580 (7.4)	1090 (13.4)	832 (5.4)
Nonworking men, 18 to 44	47837	1114 (17.0)	609 (8.9)	579 (7.8)	1137 (17.4)	859 (6.8)
Working men, 18 to 44	150699	1138 (10.0)	632 (6.6)	621 (6.9)	1163 (10.0)	888 (4.3)
Nonworking women, 18 to 44	80308	1036 (10.7)	573 (6.3)	556 (5.9)	1058 (10.9)	805 (4.4)
Working women, 18 to 44	107019	1073 (6.8)	590 (4.3)	576 (4.3)	1100 (7.1)	834 (2.9)
Nonworking men, 45 to 64	15048	1024 (4.6)	593 (9.7)	602 (13.6)	1045 (4.7)	816 (4.5)
Working men, 45 to 64	48452	1155 (9.8)	634 (5.7)	617 (5.2)	1180 (9.5)	896 (3.9)
Nonworking women, 45 to 64	26028	996 (6.7)	556 (5.3)	547 (6.2)	1017 (7.0)	778 (3.2)
Working women, 45 to 64	35492	1074 (9.4)	595 (5.8)	587 (5.4)	1100 (9.6)	838 (3.9)
Men, 65+	32745	1068 (13.4)	596 (8.0)	575 (6.4)	1091 (13.7)	832 (5.4)
Women, 65+	31932	998 (10.0)	557 (6.8)	537 (5.3)	1013 (9.1)	776 (4.0)
Outdoor workers	32102	1249 (10.4)	707 (6.1)	709 (5.1)	1276 (10.1)	985 (4.1)
Outdoor children	56667	1112 (8.4)	618 (6.3)	597 (7.1)	1137 (8.7)	865 (3.8)
Heart and respiratory	100054	1019 (10.4)	570 (6.7)	558 (6.1)	1039 (10.4)	796 (4.3)
All persons	782625	1073 (13.7)	598 (8.4)	582 (8.3)	1096 (13.8)	837 (5.7)

Highest quarter 1 exposure is 1249 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 707 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 709 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1276 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 985 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=15

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	188447	1215 (15.6)	602 (8.3)	653 (9.1)	1300 (16.6)	942 (6.5)
African americans	4766	1178 (14.2)	583 (7.6)	640 (9.6)	1258 (14.6)	914 (5.9)
Hispanics	54395	1197 (18.0)	592 (9.3)	644 (10.2)	1278 (18.7)	927 (7.3)
Household income lt \$10K	22059	1145 (10.4)	565 (5.4)	607 (5.5)	1225 (11.1)	885 (4.3)
Household income \$10K-\$25K	41212	1213 (15.4)	604 (8.9)	659 (10.9)	1298 (16.5)	943 (6.7)
Household income \$25K-\$50K	85972	1215 (17.5)	602 (8.6)	653 (8.9)	1301 (18.6)	942 (7.1)
Household income \$50K-\$75K	57818	1230 (12.5)	607 (7.5)	656 (8.7)	1318 (13.5)	952 (5.4)
Household income gt \$75K	45542	1220 (14.7)	595 (6.3)	646 (6.9)	1308 (15.4)	942 (5.8)
Children, 0 to 17	62508	1209 (15.1)	599 (7.6)	649 (8.1)	1293 (16.2)	937 (6.2)
Nonworking men, 18 to 44	12198	1247 (17.7)	611 (8.7)	648 (8.4)	1332 (18.8)	959 (7.1)
Working men, 18 to 44	42680	1260 (7.4)	633 (4.4)	684 (5.0)	1342 (7.8)	979 (3.2)
Nonworking women, 18 to 44	23062	1166 (11.9)	577 (6.0)	623 (6.3)	1249 (12.7)	903 (4.9)
Working women, 18 to 44	32775	1198 (5.0)	592 (2.8)	639 (3.1)	1279 (5.5)	926 (2.1)
Nonworking men, 45 to 64	6281	1154 (5.7)	597 (9.6)	675 (15.1)	1233 (5.9)	914 (5.0)
Working men, 45 to 64	21496	1282 (7.5)	635 (3.8)	679 (3.7)	1363 (7.6)	989 (3.0)
Nonworking women, 45 to 64	12052	1119 (6.9)	561 (5.1)	614 (6.8)	1198 (7.6)	872 (3.3)
Working women, 45 to 64	16656	1193 (6.8)	597 (3.9)	649 (4.1)	1273 (7.1)	928 (2.8)
Men, 65+	12404	1201 (14.3)	599 (7.6)	644 (6.9)	1285 (15.2)	932 (5.8)
Women, 65+	12964	1120 (9.5)	562 (6.6)	604 (5.7)	1191 (9.2)	869 (3.9)
Outdoor workers	7169	1363 (7.6)	705 (4.0)	770 (3.6)	1446 (7.6)	1070 (3.0)
Outdoor children	18431	1260 (9.6)	621 (6.1)	668 (7.7)	1350 (10.4)	974 (4.3)
Heart and respiratory	35241	1152 (11.1)	575 (6.5)	626 (6.6)	1231 (11.7)	896 (4.7)
All persons	255077	1212 (15.4)	602 (8.3)	652 (9.1)	1297 (16.3)	940 (6.4)

Highest quarter 1 exposure is 1363 µg/m3 for Outdoor workers

Highest quarter 2 exposure is 705 µg/m3 for Outdoor workers

Highest quarter 3 exposure is 770 µg/m3 for Outdoor workers

Highest quarter 4 exposure is 1446 µg/m3 for Outdoor workers

Highest annual exposure is 1070 µg/m3 for Outdoor workers

Los Angeles: Air District=16

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	61334	505 (6.7)	353 (4.6)	481 (6.5)	479 (6.3)	455 (3.0)
African americans	1011	490 (5.9)	344 (4.4)	474 (7.2)	469 (6.1)	444 (3.0)
Hispanics	6584	498 (7.6)	349 (5.5)	476 (7.6)	473 (6.9)	449 (3.5)
Household income lt \$10K	3572	476 (4.7)	331 (2.6)	448 (3.6)	450 (4.1)	426 (1.9)
Household income \$10K-\$25K	8566	502 (6.3)	354 (4.9)	485 (7.9)	477 (6.1)	455 (3.2)
Household income \$25K-\$50K	21840	505 (7.5)	353 (4.8)	481 (6.4)	479 (6.9)	454 (3.3)
Household income \$50K-\$75K	16396	513 (5.5)	355 (4.0)	483 (6.2)	486 (5.0)	459 (2.6)
Household income gt \$75K	19902	504 (5.9)	351 (3.9)	477 (5.1)	484 (6.1)	454 (2.7)
Children, 0 to 17	17774	503 (6.5)	350 (4.1)	477 (5.8)	477 (6.2)	452 (2.9)
Nonworking men, 18 to 44	2993	518 (7.4)	360 (5.2)	479 (6.2)	484 (6.3)	460 (3.2)
Working men, 18 to 44	13090	619 (9.6)	418 (6.1)	539 (7.1)	579 (8.7)	539 (4.0)
Nonworking women, 18 to 44	5757	487 (5.3)	338 (3.1)	459 (4.4)	460 (4.8)	436 (2.2)
Working women, 18 to 44	10338	564 (6.8)	382 (3.7)	496 (4.2)	534 (6.8)	494 (2.8)
Nonworking men, 45 to 64	1475	479 (2.4)	347 (5.3)	492 (10.6)	451 (2.2)	442 (3.1)
Working men, 45 to 64	6182	638 (10.5)	426 (5.5)	541 (5.2)	599 (9.6)	551 (4.0)
Nonworking women, 45 to 64	2746	464 (3.0)	330 (2.9)	453 (4.8)	439 (2.5)	421 (1.7)
Working women, 45 to 64	4933	580 (9.7)	389 (4.3)	510 (4.7)	553 (10.8)	508 (4.0)
Men, 65+	2476	503 (6.5)	350 (3.8)	473 (4.7)	473 (5.5)	450 (2.6)
Women, 65+	2511	465 (4.7)	331 (3.5)	446 (3.8)	438 (3.5)	420 (2.0)
Outdoor workers	2034	747 (12.8)	498 (6.7)	632 (5.6)	697 (11.2)	643 (4.8)
Outdoor children	5146	527 (4.2)	360 (3.2)	489 (5.5)	499 (4.0)	469 (2.2)
Heart and respiratory	9137	478 (4.9)	338 (3.3)	462 (4.5)	453 (4.2)	433 (2.1)
All persons	70276	505 (6.7)	352 (4.5)	481 (6.5)	478 (6.2)	454 (3.0)

Highest quarter 1 exposure is 747 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 498 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 632 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 697 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 643 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Los Angeles: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	1061306	1114 (14.2)	575 (7.8)	592 (8.2)	1175 (14.8)	864 (5.9)
African americans	75815	1077 (11.8)	558 (7.2)	581 (8.8)	1133 (11.8)	837 (5.1)
Hispanics	366827	1099 (16.9)	567 (8.9)	584 (9.3)	1158 (17.3)	852 (6.8)
Household income lt \$10K	135232	1051 (9.3)	539 (5.0)	551 (4.8)	1108 (9.5)	812 (3.7)
Household income \$10K-\$25K	264657	1113 (13.9)	577 (8.4)	597 (9.8)	1174 (14.7)	865 (6.0)
Household income \$25K-\$50K	482795	1115 (16.1)	575 (8.2)	592 (8.0)	1175 (16.7)	864 (6.5)
Household income \$50K-\$75K	288149	1129 (11.4)	580 (7.0)	595 (7.9)	1190 (12.0)	873 (4.9)
Household income gt \$75K	291268	1113 (12.8)	569 (6.1)	586 (6.3)	1177 (13.7)	861 (5.2)
Children, 0 to 17	372299	1106 (13.5)	572 (7.1)	588 (7.2)	1166 (14.2)	857 (5.5)
Nonworking men, 18 to 44	76967	1151 (17.5)	585 (8.4)	590 (7.8)	1212 (18.4)	884 (7.0)
Working men, 18 to 44	269061	1176 (6.4)	614 (3.9)	628 (4.2)	1232 (6.5)	912 (2.7)
Nonworking women, 18 to 44	136505	1074 (11.1)	552 (5.6)	566 (5.6)	1132 (11.3)	830 (4.4)
Working women, 18 to 44	200180	1112 (4.2)	573 (2.4)	584 (2.5)	1170 (4.5)	859 (1.8)
Nonworking men, 45 to 64	34073	1060 (4.9)	569 (9.1)	608 (13.4)	1114 (4.9)	837 (4.4)
Working men, 45 to 64	114635	1195 (6.3)	617 (3.4)	625 (3.1)	1251 (6.2)	921 (2.5)
Nonworking women, 45 to 64	61539	1030 (6.6)	536 (4.9)	557 (6.1)	1086 (6.8)	802 (3.1)
Working women, 45 to 64	87836	1111 (5.8)	578 (3.3)	596 (3.3)	1169 (6.0)	863 (2.4)
Men, 65+	64646	1107 (13.5)	572 (7.1)	584 (6.1)	1166 (13.8)	857 (5.3)
Women, 65+	68607	1035 (10.3)	537 (6.2)	548 (5.1)	1085 (9.6)	801 (4.0)
Outdoor workers	44632	1289 (6.9)	691 (3.7)	713 (3.0)	1343 (6.6)	1008 (2.7)
Outdoor children	107340	1153 (8.4)	592 (5.7)	604 (6.9)	1214 (8.8)	890 (3.8)
Heart and respiratory	198689	1056 (10.4)	549 (6.1)	569 (5.9)	1112 (10.4)	821 (4.2)
All persons	1486340	1112 (14.1)	574 (7.8)	592 (8.2)	1172 (14.5)	862 (5.8)

Highest quarter 1 exposure is 1289 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 691 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 713 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1343 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1008 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Minneapolis\St. Paul: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	59570	423 (6.0)	305 (4.2)	296 (4.1)	506 (7.0)	383 (2.7)
African americans	8974	412 (7.8)	296 (4.3)	289 (4.0)	491 (8.4)	372 (3.2)
Hispanics	2041	406 (7.7)	300 (5.0)	291 (4.5)	489 (8.9)	372 (3.4)
Household income lt \$10K	23884	398 (4.9)	286 (2.9)	276 (2.7)	476 (5.5)	359 (2.1)
Household income \$10K-\$25K	31261	418 (5.6)	304 (4.4)	297 (4.8)	501 (6.7)	380 (2.7)
Household income \$25K-\$50K	19201	423 (6.9)	305 (4.4)	297 (4.0)	506 (7.9)	383 (3.0)
Household income \$50K-\$75K	4351	426 (4.8)	308 (3.8)	298 (4.0)	510 (5.8)	386 (2.3)
Household income gt \$75K	1609	425 (5.5)	302 (3.4)	293 (3.2)	502 (5.9)	381 (2.3)
Children, 0 to 17	14299	421 (5.2)	303 (3.9)	295 (3.8)	502 (6.1)	380 (2.4)
Nonworking men, 18 to 44	8559	448 (5.4)	315 (4.5)	303 (4.0)	534 (7.0)	400 (2.7)
Working men, 18 to 44	15725	577 (8.2)	426 (6.7)	424 (7.3)	633 (7.2)	515 (3.7)
Nonworking women, 18 to 44	10458	411 (6.3)	294 (3.5)	285 (3.2)	492 (7.1)	370 (2.7)
Working women, 18 to 44	12419	536 (6.4)	382 (4.8)	375 (5.3)	589 (5.1)	470 (2.7)
Nonworking men, 45 to 64	1705	404 (3.9)	302 (5.0)	301 (6.2)	486 (4.4)	373 (2.5)
Working men, 45 to 64	3096	608 (7.5)	437 (5.7)	434 (5.7)	654 (6.7)	533 (3.2)
Nonworking women, 45 to 64	2270	405 (5.4)	286 (3.0)	278 (3.1)	480 (5.8)	362 (2.3)
Working women, 45 to 64	2490	512 (6.3)	379 (4.9)	372 (4.8)	571 (5.4)	458 (2.7)
Men, 65+	4591	409 (5.1)	303 (3.7)	294 (3.1)	495 (6.6)	375 (2.4)
Women, 65+	4722	399 (4.9)	284 (3.1)	276 (2.8)	476 (5.7)	358 (2.1)
Outdoor workers	1934	779 (12.1)	581 (7.7)	600 (7.0)	808 (10.1)	692 (4.7)
Outdoor children	3854	448 (4.6)	316 (3.3)	304 (3.5)	532 (5.2)	400 (2.1)
Heart and respiratory	10907	393 (3.6)	289 (3.3)	284 (3.3)	473 (4.7)	360 (1.9)
All persons	80336	429 (6.5)	306 (4.3)	296 (4.1)	511 (7.5)	385 (2.9)

Highest quarter 1 exposure is 779 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 581 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 600 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 808 µg/m3 for Outdoor workers
 Highest annual exposure is 692 µg/m3 for Outdoor workers

Minneapolis\St. Paul: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	262478	1250 (18.5)	912 (13.9)	1053 (16.0)	1047 (15.9)	1065 (8.1)
African americans	21067	1216 (22.8)	880 (13.0)	1021 (14.9)	1009 (17.4)	1031 (8.7)
Hispanics	3805	1198 (22.6)	891 (15.5)	1031 (16.6)	1004 (18.4)	1030 (9.2)
Household income lt \$10K	31736	1172 (14.3)	852 (10.7)	979 (11.6)	981 (12.8)	996 (6.2)
Household income \$10K-\$25K	79283	1238 (18.4)	910 (14.7)	1056 (18.4)	1037 (15.5)	1060 (8.4)
Household income \$25K-\$50K	106912	1249 (20.9)	914 (14.5)	1054 (15.5)	1047 (17.8)	1065 (8.7)
Household income \$50K-\$75K	45608	1256 (14.6)	922 (13.1)	1063 (15.9)	1056 (13.2)	1074 (7.1)
Household income gt \$75K	30756	1245 (15.8)	899 (10.6)	1039 (11.9)	1036 (13.0)	1054 (6.5)
Children, 0 to 17	57253	1241 (15.7)	909 (13.1)	1056 (15.4)	1040 (14.2)	1061 (7.3)
Nonworking men, 18 to 44	15458	1320 (16.0)	941 (14.4)	1064 (15.0)	1104 (15.0)	1106 (7.6)
Working men, 18 to 44	52761	1252 (13.0)	920 (8.8)	1043 (9.8)	1067 (10.6)	1070 (5.3)
Nonworking women, 18 to 44	27163	1216 (19.5)	881 (12.0)	1013 (13.0)	1017 (15.9)	1031 (7.7)
Working women, 18 to 44	49867	1208 (10.0)	876 (6.7)	1001 (7.9)	1022 (8.1)	1026 (4.1)
Nonworking men, 45 to 64	5367	1201 (12.5)	910 (15.9)	1094 (23.9)	1004 (9.5)	1052 (8.2)
Working men, 45 to 64	17788	1252 (12.5)	912 (7.3)	1024 (7.5)	1071 (10.2)	1064 (4.8)
Nonworking women, 45 to 64	9850	1202 (17.9)	855 (10.6)	989 (12.4)	995 (14.1)	1009 (7.0)
Working women, 45 to 64	16581	1198 (9.8)	871 (7.5)	997 (8.4)	1010 (8.6)	1018 (4.3)
Men, 65+	20398	1221 (17.1)	910 (13.1)	1057 (13.4)	1027 (15.4)	1053 (7.4)
Women, 65+	23943	1184 (15.5)	849 (10.8)	979 (11.6)	985 (13.3)	999 (6.5)
Outdoor workers	6402	1395 (12.6)	1015 (7.5)	1157 (7.1)	1194 (10.4)	1190 (4.8)
Outdoor children	15143	1320 (14.6)	953 (11.8)	1095 (14.5)	1108 (12.6)	1118 (6.7)
Heart and respiratory	44149	1159 (10.6)	860 (11.2)	1005 (13.2)	973 (10.8)	999 (5.8)
All persons	296430	1270 (20.5)	914 (14.2)	1051 (16.0)	1059 (17.2)	1073 (8.5)

Highest quarter 1 exposure is 1395 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 1015 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 1157 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1194 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1190 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Minneapolis\St. Paul: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	186534	771 (10.0)	630 (8.3)	601 (8.2)	691 (10.1)	673 (4.6)
African americans	22124	757 (14.0)	613 (8.5)	585 (8.1)	668 (11.5)	655 (5.4)
Hispanics	3527	747 (13.9)	621 (10.5)	590 (9.1)	666 (12.3)	656 (5.8)
Household income lt \$10K	40364	729 (8.0)	594 (5.9)	562 (5.4)	650 (8.1)	633 (3.5)
Household income \$10K-\$25K	65499	762 (9.5)	630 (8.8)	603 (9.5)	685 (9.8)	669 (4.7)
Household income \$25K-\$50K	77569	772 (11.7)	631 (8.9)	602 (8.1)	691 (11.4)	674 (5.1)
Household income \$50K-\$75K	26604	775 (7.8)	636 (7.6)	606 (8.1)	697 (8.3)	678 (4.0)
Household income gt \$75K	11994	769 (8.9)	625 (6.6)	595 (6.2)	682 (8.3)	668 (3.8)
Children, 0 to 17	49444	765 (8.5)	627 (7.7)	601 (7.6)	686 (8.9)	669 (4.1)
Nonworking men, 18 to 44	15065	822 (10.3)	655 (9.9)	612 (8.3)	732 (10.0)	705 (4.8)
Working men, 18 to 44	34211	856 (7.7)	687 (5.8)	658 (5.9)	762 (7.2)	740 (3.3)
Nonworking women, 18 to 44	21457	753 (11.3)	610 (7.0)	579 (6.4)	673 (10.3)	653 (4.5)
Working women, 18 to 44	30684	816 (5.5)	646 (4.0)	616 (4.3)	720 (5.1)	699 (2.4)
Nonworking men, 45 to 64	5703	739 (6.2)	626 (10.3)	617 (12.9)	665 (6.2)	662 (4.7)
Working men, 45 to 64	13459	874 (7.4)	688 (4.8)	654 (4.5)	772 (6.7)	747 (3.0)
Nonworking women, 45 to 64	8545	741 (9.1)	595 (6.2)	568 (6.5)	658 (8.9)	640 (3.9)
Working women, 45 to 64	12049	799 (5.5)	640 (4.5)	613 (4.4)	707 (5.5)	689 (2.5)
Men, 65+	14997	750 (8.8)	626 (7.3)	601 (6.6)	680 (9.9)	664 (4.1)
Women, 65+	16432	730 (7.9)	591 (6.0)	562 (5.8)	652 (8.4)	633 (3.6)
Outdoor workers	5667	1012 (8.9)	796 (5.5)	786 (5.0)	903 (8.0)	874 (3.5)
Outdoor children	13382	810 (7.7)	651 (6.5)	619 (7.1)	729 (7.9)	702 (3.7)
Heart and respiratory	32661	721 (5.7)	599 (6.3)	576 (6.6)	644 (6.8)	635 (3.2)
All persons	222047	781 (11.2)	631 (8.5)	600 (8.2)	699 (11.0)	678 (4.9)

Highest quarter 1 exposure is 1012 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 796 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 786 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 903 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 874 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Minneapolis\St. Paul: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	191407	620 (9.3)	531 (7.7)	652 (9.6)	682 (9.8)	621 (4.6)
African americans	8932	600 (11.4)	514 (7.5)	633 (9.1)	660 (11.3)	602 (5.0)
Hispanics	9213	592 (11.3)	519 (8.7)	639 (10.0)	658 (12.1)	602 (5.3)
Household income lt \$10K	43599	582 (7.6)	497 (5.7)	607 (6.6)	642 (7.9)	582 (3.5)
Household income \$10K-\$25K	67418	613 (9.0)	529 (8.1)	654 (11.1)	676 (9.5)	618 (4.8)
Household income \$25K-\$50K	75666	620 (10.6)	532 (8.1)	653 (9.4)	682 (11.1)	622 (4.9)
Household income \$50K-\$75K	25277	621 (7.2)	537 (7.2)	658 (9.4)	687 (8.0)	626 (4.0)
Household income gt \$75K	9651	618 (8.4)	525 (6.1)	643 (7.1)	674 (8.1)	615 (3.7)
Children, 0 to 17	58704	617 (8.1)	529 (7.2)	653 (9.1)	677 (8.7)	619 (4.2)
Nonworking men, 18 to 44	13309	657 (8.2)	547 (7.8)	661 (8.8)	721 (9.6)	647 (4.3)
Working men, 18 to 44	32701	700 (8.4)	594 (6.8)	700 (7.5)	757 (8.4)	688 (3.9)
Nonworking women, 18 to 44	21335	603 (9.8)	511 (6.5)	625 (7.5)	664 (10.1)	601 (4.3)
Working women, 18 to 44	28732	665 (6.1)	553 (4.7)	658 (5.6)	715 (5.9)	648 (2.8)
Nonworking men, 45 to 64	5152	595 (6.2)	528 (9.0)	673 (14.7)	656 (6.1)	613 (4.9)
Working men, 45 to 64	12753	715 (8.0)	597 (5.8)	696 (5.7)	769 (7.9)	694 (3.5)
Nonworking women, 45 to 64	8239	597 (9.0)	497 (5.7)	611 (7.2)	649 (8.6)	589 (3.9)
Working women, 45 to 64	11180	650 (6.2)	550 (5.3)	657 (5.9)	702 (6.5)	640 (3.0)
Men, 65+	13949	609 (8.8)	528 (7.1)	651 (7.6)	672 (9.7)	615 (4.2)
Women, 65+	15512	586 (7.7)	495 (6.1)	606 (6.9)	643 (8.1)	583 (3.6)
Outdoor workers	6016	857 (9.9)	712 (7.0)	835 (6.4)	901 (9.7)	827 (4.2)
Outdoor children	15872	660 (7.5)	554 (6.3)	676 (8.5)	719 (7.6)	652 (3.8)
Heart and respiratory	31806	574 (5.4)	503 (6.3)	624 (7.9)	636 (6.6)	585 (3.3)
All persons	221567	630 (10.4)	532 (7.9)	651 (9.6)	690 (10.7)	626 (4.9)

Highest quarter 1 exposure is 857 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 712 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 835 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 901 µg/m3 for Outdoor workers
 Highest annual exposure is 827 µg/m3 for Outdoor workers

Minneapolis\St. Paul: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	174729	1102 (16.0)	954 (14.2)	933 (13.9)	1053 (15.6)	1010 (7.5)
African americans	13537	1073 (20.1)	922 (13.7)	905 (13.1)	1017 (17.6)	979 (8.2)
Hispanics	3578	1058 (19.9)	933 (16.0)	913 (14.6)	1013 (18.5)	979 (8.7)
Household income lt \$10K	32543	1036 (12.7)	892 (10.7)	867 (9.8)	988 (12.4)	945 (5.7)
Household income \$10K-\$25K	58312	1092 (16.0)	952 (15.0)	936 (16.1)	1044 (15.3)	1006 (7.8)
Household income \$25K-\$50K	68890	1102 (18.2)	956 (14.9)	934 (13.6)	1053 (17.5)	1011 (8.1)
Household income \$50K-\$75K	25541	1107 (12.6)	964 (13.2)	942 (13.8)	1062 (12.9)	1018 (6.6)
Household income gt \$75K	14177	1097 (13.7)	941 (10.8)	921 (10.4)	1043 (12.8)	1000 (6.0)
Children, 0 to 17	42025	1095 (13.7)	952 (13.3)	935 (13.3)	1046 (13.8)	1007 (6.8)
Nonworking men, 18 to 44	12426	1166 (13.9)	982 (14.5)	944 (13.1)	1108 (14.5)	1050 (7.0)
Working men, 18 to 44	32596	1110 (10.2)	941 (8.1)	932 (7.7)	1061 (9.5)	1011 (4.5)
Nonworking women, 18 to 44	19624	1075 (17.1)	920 (12.1)	896 (11.1)	1023 (15.7)	978 (7.1)
Working women, 18 to 44	31461	1072 (7.9)	900 (6.2)	892 (6.1)	1017 (7.2)	970 (3.5)
Nonworking men, 45 to 64	4127	1059 (10.8)	951 (16.0)	964 (21.3)	1012 (9.6)	997 (7.6)
Working men, 45 to 64	10749	1111 (9.8)	930 (6.8)	917 (5.9)	1062 (9.0)	1005 (4.0)
Nonworking women, 45 to 64	6579	1062 (15.7)	894 (10.6)	874 (10.6)	1001 (13.7)	957 (6.4)
Working women, 45 to 64	10242	1063 (7.8)	897 (7.2)	890 (6.6)	1008 (7.7)	964 (3.7)
Men, 65+	13788	1079 (14.9)	953 (13.4)	935 (11.5)	1035 (15.2)	1000 (6.9)
Women, 65+	15819	1045 (13.4)	891 (11.2)	867 (9.9)	992 (13.2)	948 (6.0)
Outdoor workers	4524	1239 (9.8)	1024 (6.8)	1041 (5.7)	1177 (9.2)	1120 (4.0)
Outdoor children	11616	1165 (12.8)	996 (11.7)	969 (12.5)	1113 (12.2)	1060 (6.2)
Heart and respiratory	29563	1023 (9.1)	902 (11.5)	891 (11.5)	980 (10.7)	949 (5.4)
All persons	199439	1119 (17.8)	957 (14.6)	932 (13.9)	1065 (16.9)	1018 (7.9)

Highest quarter 1 exposure is 1239 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 1024 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 1041 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 1177 µg/m3 for Outdoor workers
 Highest annual exposure is 1120 µg/m3 for Outdoor workers

Minneapolis\St. Paul: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	1262578	833 (11.9)	667 (9.6)	707 (10.3)	796 (11.7)	750 (5.5)
African americans	14549	812 (15.2)	645 (9.4)	686 (9.8)	769 (13.2)	728 (6.1)
Hispanics	11239	800 (15.0)	653 (11.1)	692 (10.9)	766 (14.0)	728 (6.4)
Household income lt \$10K	100388	783 (9.5)	624 (7.2)	658 (7.2)	747 (9.4)	703 (4.2)
Household income \$10K-\$25K	256126	825 (11.7)	665 (10.2)	709 (11.9)	789 (11.3)	746 (5.7)
Household income \$25K-\$50K	542863	833 (13.6)	668 (10.1)	707 (10.1)	796 (13.1)	751 (5.9)
Household income \$50K-\$75K	256036	837 (9.4)	674 (8.9)	713 (10.2)	802 (9.6)	756 (4.8)
Household income gt \$75K	136420	831 (10.4)	658 (7.4)	698 (7.7)	787 (9.6)	743 (4.4)
Children, 0 to 17	383077	828 (10.2)	664 (9.0)	708 (9.8)	790 (10.3)	747 (4.9)
Nonworking men, 18 to 44	51689	882 (10.7)	688 (10.2)	716 (9.8)	840 (11.2)	781 (5.2)
Working men, 18 to 44	252898	890 (12.1)	705 (8.9)	744 (9.4)	848 (11.4)	796 (5.3)
Nonworking women, 18 to 44	90533	812 (12.7)	643 (8.2)	679 (8.2)	774 (11.8)	727 (5.2)
Working women, 18 to 44	217134	852 (8.9)	665 (6.4)	703 (7.2)	806 (8.2)	756 (3.9)
Nonworking men, 45 to 64	20245	800 (7.9)	663 (11.2)	730 (15.8)	765 (7.1)	739 (5.5)
Working men, 45 to 64	93739	901 (11.7)	703 (7.4)	737 (7.1)	856 (10.8)	799 (4.7)
Nonworking women, 45 to 64	36067	801 (11.4)	625 (7.2)	664 (7.9)	756 (10.2)	711 (4.7)
Working women, 45 to 64	80086	838 (8.9)	661 (7.4)	701 (7.6)	794 (9.0)	748 (4.1)
Men, 65+	40213	814 (10.9)	664 (8.9)	708 (8.4)	782 (11.3)	741 (5.0)
Women, 65+	42009	789 (9.9)	622 (7.4)	658 (7.4)	749 (9.8)	704 (4.3)
Outdoor workers	39539	1038 (12.5)	808 (8.1)	868 (7.4)	980 (11.8)	923 (5.1)
Outdoor children	108593	881 (9.4)	694 (7.9)	732 (9.2)	840 (9.1)	787 (4.5)
Heart and respiratory	161782	774 (6.8)	631 (7.7)	675 (8.5)	741 (7.9)	705 (3.9)
All persons	1307692	846 (13.2)	668 (9.8)	706 (10.3)	805 (12.6)	756 (5.8)

Highest quarter 1 exposure is 1038 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 808 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 868 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 980 µg/m3 for Outdoor workers
 Highest annual exposure is 923 µg/m3 for Outdoor workers

New York City: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	544174	993 (14.3)	928 (13.6)	966 (13.7)	884 (12.9)	942 (6.8)
African americans	533963	961 (17.5)	897 (13.0)	932 (12.9)	848 (13.3)	909 (7.1)
Hispanics	646843	953 (17.7)	907 (15.1)	941 (14.2)	853 (14.9)	913 (7.7)
Household income lt \$10K	488863	930 (11.4)	866 (10.0)	898 (9.6)	827 (10.3)	880 (5.2)
Household income \$10K-\$25K	406545	981 (13.4)	925 (14.2)	962 (15.1)	874 (11.9)	935 (6.8)
Household income \$25K-\$50K	372757	993 (16.3)	929 (14.2)	969 (13.6)	884 (14.4)	943 (7.3)
Household income \$50K-\$75K	134393	1001 (11.7)	939 (12.7)	976 (13.7)	895 (11.1)	952 (6.2)
Household income gt \$75K	74303	995 (12.9)	916 (10.2)	955 (9.8)	880 (10.6)	936 (5.5)
Children, 0 to 17	404623	989 (12.9)	925 (12.6)	969 (13.3)	880 (12.1)	941 (6.4)
Nonworking men, 18 to 44	121568	1041 (12.7)	951 (13.6)	988 (12.2)	919 (12.5)	974 (6.4)
Working men, 18 to 44	172006	1058 (7.6)	970 (6.8)	992 (6.7)	945 (6.7)	991 (3.5)
Nonworking women, 18 to 44	198973	961 (14.3)	891 (11.1)	928 (10.8)	853 (11.7)	908 (6.0)
Working women, 18 to 44	145170	1008 (5.5)	913 (4.9)	952 (5.2)	891 (4.7)	941 (2.5)
Nonworking men, 45 to 64	49884	951 (9.2)	918 (14.9)	971 (17.2)	843 (6.1)	921 (6.3)
Working men, 45 to 64	73454	1072 (7.2)	970 (5.8)	986 (5.1)	956 (6.2)	996 (3.1)
Nonworking women, 45 to 64	82918	947 (12.5)	864 (9.7)	905 (10.4)	828 (9.5)	886 (5.3)
Working women, 45 to 64	62610	994 (5.9)	910 (5.8)	943 (5.6)	883 (5.6)	932 (2.9)
Men, 65+	78697	973 (13.6)	925 (12.8)	979 (11.3)	874 (13.3)	937 (6.4)
Women, 65+	94238	933 (12.0)	862 (10.7)	908 (10.9)	822 (10.7)	881 (5.5)
Outdoor workers	30960	1224 (8.1)	1104 (6.6)	1154 (5.3)	1084 (7.3)	1141 (3.4)
Outdoor children	112778	1053 (11.1)	968 (10.7)	1005 (12.1)	934 (9.7)	990 (5.5)
Heart and respiratory	208104	922 (9.3)	879 (11.5)	922 (12.5)	824 (9.8)	887 (5.4)
All persons	1484128	1006 (15.7)	929 (13.8)	964 (13.7)	889 (13.5)	947 (7.1)

Highest quarter 1 exposure is 1224 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 1104 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 1154 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1084 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 1141 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	428005	753 (10.0)	489 (6.8)	513 (6.7)	776 (10.3)	632 (4.3)
African americans	54898	732 (13.1)	474 (6.6)	497 (6.5)	749 (11.2)	613 (4.9)
Hispanics	73138	727 (13.3)	480 (7.9)	502 (7.4)	756 (13.1)	616 (5.4)
Household income lt \$10K	56793	707 (7.8)	458 (4.9)	480 (4.5)	730 (7.8)	594 (3.2)
Household income \$10K-\$25K	103936	744 (9.2)	488 (7.1)	510 (7.4)	769 (9.6)	628 (4.2)
Household income \$25K-\$50K	185865	753 (11.6)	490 (7.2)	514 (6.7)	777 (11.7)	633 (4.8)
Household income \$50K-\$75K	108316	758 (8.2)	494 (6.3)	518 (6.6)	784 (8.6)	638 (3.7)
Household income gt \$75K	79531	757 (9.2)	483 (5.2)	509 (5.1)	775 (8.8)	631 (3.7)
Children, 0 to 17	113801	749 (9.0)	487 (6.3)	513 (6.4)	771 (9.5)	630 (4.0)
Nonworking men, 18 to 44	29863	791 (9.7)	504 (7.3)	528 (6.4)	812 (11.4)	658 (4.5)
Working men, 18 to 44	81078	845 (7.8)	577 (5.8)	588 (5.6)	853 (7.4)	715 (3.3)
Nonworking women, 18 to 44	53098	730 (10.2)	471 (5.6)	494 (5.2)	751 (9.4)	611 (4.0)
Working women, 18 to 44	67219	800 (5.5)	530 (3.9)	548 (4.1)	803 (5.0)	670 (2.3)
Nonworking men, 45 to 64	14591	719 (6.0)	485 (8.0)	514 (8.9)	741 (4.7)	615 (3.6)
Working men, 45 to 64	39911	864 (7.5)	584 (5.0)	597 (4.3)	865 (6.8)	727 (3.0)
Nonworking women, 45 to 64	26307	717 (8.3)	458 (4.8)	483 (5.1)	729 (7.2)	596 (3.2)
Working women, 45 to 64	33084	785 (5.9)	529 (4.5)	545 (4.2)	794 (6.0)	663 (2.6)
Men, 65+	39899	733 (9.0)	487 (6.2)	517 (5.2)	765 (10.1)	625 (3.9)
Women, 65+	43765	707 (8.0)	457 (5.2)	483 (5.0)	723 (7.9)	592 (3.3)
Outdoor workers	15363	1001 (8.5)	709 (6.0)	724 (4.9)	982 (7.8)	854 (3.5)
Outdoor children	32288	794 (7.6)	507 (5.4)	530 (5.8)	812 (7.4)	660 (3.3)
Heart and respiratory	83206	702 (6.4)	464 (5.6)	491 (5.9)	727 (7.4)	596 (3.2)
All persons	542617	761 (10.9)	489 (6.9)	512 (6.7)	779 (10.7)	635 (4.5)

Highest quarter 1 exposure is 1001 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 709 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 724 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 982 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 854 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	273090	579 (7.4)	402 (5.5)	420 (5.6)	546 (7.2)	486 (3.2)
African americans	255618	566 (10.2)	391 (5.6)	407 (5.5)	529 (8.0)	473 (3.8)
Hispanics	97286	562 (10.3)	394 (6.3)	411 (6.0)	533 (9.1)	475 (4.1)
Household income lt \$10K	126213	545 (5.5)	375 (3.5)	392 (3.5)	514 (5.2)	456 (2.3)
Household income \$10K-\$25K	152205	573 (7.1)	401 (5.9)	418 (6.2)	542 (6.7)	483 (3.2)
Household income \$25K-\$50K	185447	579 (8.6)	402 (5.8)	421 (5.6)	547 (8.1)	487 (3.6)
Household income \$50K-\$75K	71780	583 (6.1)	405 (5.0)	423 (5.4)	552 (5.9)	491 (2.8)
Household income gt \$75K	41330	582 (7.0)	397 (4.3)	416 (4.1)	545 (6.1)	485 (2.8)
Children, 0 to 17	144172	576 (6.5)	399 (4.9)	419 (5.3)	543 (6.6)	484 (2.9)
Nonworking men, 18 to 44	44593	605 (6.9)	411 (5.7)	432 (5.3)	570 (7.6)	504 (3.2)
Working men, 18 to 44	78856	691 (6.5)	502 (5.5)	504 (5.0)	648 (5.8)	586 (2.9)
Nonworking women, 18 to 44	65385	561 (7.7)	386 (4.4)	404 (4.2)	528 (6.6)	470 (2.9)
Working women, 18 to 44	69988	647 (4.5)	455 (3.7)	463 (3.5)	601 (3.9)	541 (2.0)
Nonworking men, 45 to 64	17782	559 (5.6)	394 (5.8)	418 (6.7)	523 (3.7)	473 (2.8)
Working men, 45 to 64	33798	711 (6.0)	512 (4.8)	514 (3.9)	663 (5.4)	600 (2.5)
Nonworking women, 45 to 64	27655	552 (6.1)	376 (3.8)	395 (4.1)	514 (5.0)	459 (2.4)
Working women, 45 to 64	29827	632 (4.9)	456 (4.0)	463 (3.7)	595 (4.6)	536 (2.2)
Men, 65+	33144	567 (7.0)	400 (5.1)	426 (4.5)	541 (7.3)	483 (3.0)
Women, 65+	37765	546 (6.4)	377 (4.7)	396 (4.4)	511 (6.0)	457 (2.7)
Outdoor workers	17694	858 (8.2)	647 (6.1)	642 (4.6)	791 (7.1)	734 (3.3)
Outdoor children	41959	607 (5.2)	414 (4.0)	432 (4.6)	571 (4.9)	505 (2.4)
Heart and respiratory	82693	543 (5.0)	383 (4.8)	403 (5.2)	513 (5.3)	460 (2.5)
All persons	582960	586 (8.3)	402 (5.6)	419 (5.6)	549 (7.5)	489 (3.4)

Highest quarter 1 exposure is 858 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 647 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 642 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 791 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 734 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	173308	1220 (18.1)	1033 (15.7)	960 (13.8)	1093 (16.4)	1076 (8.0)
African americans	70918	1178 (21.4)	999 (14.9)	926 (12.9)	1046 (16.5)	1037 (8.4)
Hispanics	84387	1168 (21.6)	1009 (17.0)	935 (14.1)	1053 (18.5)	1041 (9.0)
Household income lt \$10K	62939	1142 (14.4)	964 (11.9)	894 (10.1)	1022 (13.5)	1005 (6.3)
Household income \$10K-\$25K	79395	1206 (17.1)	1030 (16.3)	955 (15.2)	1079 (15.0)	1067 (8.0)
Household income \$25K-\$50K	100630	1220 (20.5)	1035 (16.4)	962 (13.7)	1094 (18.3)	1077 (8.7)
Household income \$50K-\$75K	38484	1228 (14.6)	1046 (14.7)	970 (13.8)	1107 (14.2)	1087 (7.2)
Household income gt \$75K	20958	1222 (16.2)	1019 (11.7)	947 (9.8)	1087 (13.4)	1068 (6.5)
Children, 0 to 17	72774	1216 (16.3)	1032 (14.7)	965 (13.5)	1089 (15.5)	1074 (7.5)
Nonworking men, 18 to 44	21752	1278 (15.8)	1056 (15.1)	981 (11.9)	1137 (15.7)	1112 (7.4)
Working men, 18 to 44	46922	1241 (7.7)	1048 (6.6)	989 (5.9)	1117 (6.8)	1098 (3.4)
Nonworking women, 18 to 44	35719	1181 (18.0)	991 (12.8)	920 (10.8)	1054 (14.9)	1036 (7.2)
Working women, 18 to 44	36826	1191 (6.0)	992 (4.9)	949 (4.8)	1060 (5.1)	1047 (2.6)
Nonworking men, 45 to 64	8557	1167 (11.0)	1026 (17.0)	967 (17.5)	1042 (7.4)	1050 (6.9)
Working men, 45 to 64	18100	1248 (7.4)	1044 (5.6)	986 (4.6)	1123 (6.3)	1100 (3.0)
Nonworking women, 45 to 64	14119	1164 (16.1)	960 (11.2)	897 (10.5)	1023 (12.3)	1011 (6.3)
Working women, 45 to 64	14237	1182 (6.2)	991 (5.8)	939 (5.0)	1053 (5.9)	1040 (2.9)
Men, 65+	16813	1198 (17.4)	1032 (15.0)	971 (11.4)	1081 (17.0)	1070 (7.7)
Women, 65+	17934	1147 (15.0)	960 (12.5)	901 (10.7)	1014 (13.3)	1005 (6.5)
Outdoor workers	8541	1391 (7.5)	1168 (6.1)	1153 (4.9)	1235 (6.8)	1236 (3.2)
Outdoor children	21051	1296 (14.4)	1082 (12.7)	1002 (12.4)	1159 (12.8)	1134 (6.5)
Heart and respiratory	42278	1131 (11.5)	978 (13.4)	914 (12.1)	1016 (12.4)	1009 (6.2)
All persons	303753	1236 (19.8)	1035 (16.0)	958 (13.8)	1100 (17.2)	1082 (8.4)

Highest quarter 1 exposure is 1391 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 1168 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 1153 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1235 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 1236 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	264430	711 (10.2)	474 (7.2)	555 (8.1)	655 (9.5)	598 (4.4)
African americans	17049	690 (12.5)	456 (6.7)	533 (7.6)	629 (9.8)	577 (4.7)
Hispanics	37471	685 (12.7)	462 (7.8)	539 (8.4)	634 (11.2)	580 (5.1)
Household income lt \$10K	26909	668 (8.0)	441 (5.4)	515 (5.5)	614 (7.6)	559 (3.4)
Household income \$10K-\$25K	54621	705 (9.9)	472 (7.5)	553 (9.0)	648 (8.7)	594 (4.4)
Household income \$25K-\$50K	109545	712 (11.5)	474 (7.5)	556 (8.1)	656 (10.6)	599 (4.8)
Household income \$50K-\$75K	67195	715 (8.2)	479 (6.9)	560 (8.1)	662 (8.1)	604 (3.9)
Household income gt \$75K	41150	709 (8.7)	466 (5.3)	546 (5.7)	650 (7.6)	593 (3.5)
Children, 0 to 17	71701	708 (9.0)	472 (6.7)	557 (7.9)	652 (8.8)	597 (4.1)
Nonworking men, 18 to 44	19690	748 (9.0)	485 (7.1)	569 (7.3)	683 (9.4)	621 (4.1)
Working men, 18 to 44	51258	786 (9.0)	544 (6.7)	606 (6.7)	720 (7.8)	664 (3.8)
Nonworking women, 18 to 44	30536	692 (10.4)	455 (6.0)	532 (6.4)	633 (8.7)	578 (4.0)
Working women, 18 to 44	40431	743 (6.2)	500 (4.4)	569 (4.9)	673 (5.2)	621 (2.6)
Nonworking men, 45 to 64	7967	686 (6.8)	471 (7.9)	561 (10.0)	628 (4.8)	586 (3.8)
Working men, 45 to 64	22313	797 (8.3)	549 (5.8)	608 (5.3)	728 (7.2)	670 (3.4)
Nonworking women, 45 to 64	13399	683 (9.4)	441 (5.2)	519 (6.1)	616 (7.2)	564 (3.6)
Working women, 45 to 64	17788	732 (6.7)	500 (5.3)	568 (5.3)	668 (6.5)	617 (3.0)
Men, 65+	17988	704 (10.2)	474 (7.0)	569 (7.1)	651 (10.0)	599 (4.3)
Women, 65+	18864	674 (8.8)	442 (6.1)	523 (6.7)	613 (8.2)	563 (3.8)
Outdoor workers	9808	939 (9.7)	667 (7.2)	744 (5.8)	844 (8.6)	798 (4.0)
Outdoor children	20394	752 (8.0)	495 (5.8)	577 (7.2)	691 (7.2)	628 (3.6)
Heart and respiratory	43982	662 (6.5)	449 (6.4)	530 (7.8)	612 (7.2)	563 (3.5)
All persons	311935	722 (11.3)	474 (7.4)	553 (8.2)	660 (10.1)	602 (4.7)

Highest quarter 1 exposure is 939 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 667 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 744 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 844 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 798 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	109075	1020 (14.7)	802 (12.0)	914 (13.3)	903 (13.3)	909 (6.7)
African americans	6759	987 (18.2)	778 (11.9)	882 (12.6)	867 (14.0)	878 (7.2)
Hispanics	4872	978 (18.1)	785 (13.1)	889 (13.5)	871 (15.2)	880 (7.5)
Household income lt \$10K	4350	954 (11.4)	747 (8.6)	847 (8.8)	843 (10.6)	847 (5.0)
Household income \$10K-\$25K	13808	1008 (13.7)	799 (12.5)	909 (14.7)	891 (12.1)	902 (6.7)
Household income \$25K-\$50K	33350	1020 (16.7)	803 (12.5)	917 (13.2)	903 (14.8)	910 (7.2)
Household income \$50K-\$75K	28316	1029 (12.2)	811 (11.0)	923 (13.1)	916 (11.5)	920 (6.0)
Household income gt \$75K	39066	1028 (13.7)	792 (9.2)	902 (9.5)	903 (11.4)	906 (5.5)
Children, 0 to 17	24385	1018 (13.2)	800 (11.0)	916 (12.7)	900 (12.5)	908 (6.2)
Nonworking men, 18 to 44	5805	1063 (12.7)	818 (11.4)	939 (11.6)	934 (12.4)	938 (6.0)
Working men, 18 to 44	19382	1075 (13.3)	844 (10.4)	939 (11.0)	952 (11.3)	952 (5.8)
Nonworking women, 18 to 44	11396	984 (14.4)	768 (9.7)	875 (10.2)	869 (12.0)	874 (5.8)
Working women, 18 to 44	15899	1026 (9.5)	791 (6.8)	898 (8.3)	899 (7.8)	903 (4.1)
Nonworking men, 45 to 64	3196	977 (9.7)	792 (12.6)	915 (15.9)	859 (6.6)	886 (5.9)
Working men, 45 to 64	11285	1090 (12.8)	846 (9.0)	934 (8.5)	963 (10.8)	958 (5.2)
Nonworking women, 45 to 64	6623	969 (12.4)	743 (8.1)	852 (9.5)	842 (9.5)	851 (5.0)
Working women, 45 to 64	8993	1013 (10.2)	791 (8.7)	895 (9.3)	890 (9.4)	897 (4.7)
Men, 65+	7347	995 (13.5)	800 (11.1)	929 (10.8)	890 (13.4)	903 (6.1)
Women, 65+	8019	956 (12.4)	745 (9.6)	858 (10.4)	835 (10.9)	848 (5.4)
Outdoor workers	2940	1236 (13.5)	974 (10.0)	1100 (8.7)	1080 (11.7)	1097 (5.6)
Outdoor children	7189	1082 (11.2)	837 (9.4)	950 (11.6)	957 (9.9)	956 (5.3)
Heart and respiratory	18186	948 (9.7)	761 (10.2)	873 (12.1)	841 (10.2)	855 (5.3)
All persons	122330	1033 (16.1)	803 (12.2)	912 (13.3)	909 (13.9)	914 (7.0)

Highest quarter 1 exposure is 1236 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 974 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 1100 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1080 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1097 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	159588	1065 (15.3)	970 (14.7)	1061 (15.5)	998 (14.8)	1024 (7.6)
African americans	62493	1032 (18.8)	936 (13.8)	1021 (14.4)	957 (15.1)	986 (7.8)
Hispanics	19182	1024 (19.0)	947 (16.0)	1031 (15.8)	963 (16.9)	991 (8.5)
Household income lt \$10K	37098	999 (12.2)	905 (11.2)	986 (11.1)	934 (12.1)	956 (5.8)
Household income \$10K-\$25K	50782	1053 (14.4)	968 (15.4)	1057 (17.1)	987 (13.6)	1016 (7.6)
Household income \$25K-\$50K	78355	1065 (17.4)	971 (15.4)	1064 (15.4)	999 (16.5)	1025 (8.1)
Household income \$50K-\$75K	40205	1072 (12.3)	982 (13.9)	1073 (15.6)	1011 (12.8)	1035 (6.9)
Household income gt \$75K	28839	1067 (13.6)	954 (11.0)	1046 (10.9)	993 (12.1)	1015 (6.0)
Children, 0 to 17	59396	1061 (13.7)	968 (13.8)	1067 (15.1)	994 (13.9)	1023 (7.1)
Nonworking men, 18 to 44	15089	1119 (13.6)	994 (14.5)	1085 (13.5)	1039 (14.3)	1059 (7.0)
Working men, 18 to 44	34281	1085 (7.8)	954 (6.9)	1024 (7.0)	1008 (7.1)	1018 (3.6)
Nonworking women, 18 to 44	25183	1032 (15.3)	932 (12.2)	1018 (12.2)	963 (13.4)	986 (6.7)
Working women, 18 to 44	28829	1041 (6.1)	908 (5.5)	999 (6.2)	959 (5.4)	977 (2.9)
Nonworking men, 45 to 64	6895	1020 (9.5)	965 (16.0)	1072 (19.5)	951 (6.8)	1002 (7.0)
Working men, 45 to 64	15523	1091 (7.5)	946 (5.8)	1005 (5.2)	1012 (6.5)	1013 (3.2)
Nonworking women, 45 to 64	11502	1017 (13.5)	903 (10.6)	992 (11.7)	935 (11.0)	962 (5.9)
Working women, 45 to 64	13019	1032 (6.2)	907 (6.5)	989 (6.6)	952 (6.1)	970 (3.2)
Men, 65+	13761	1045 (14.6)	971 (14.3)	1080 (13.0)	987 (15.3)	1021 (7.2)
Women, 65+	15192	1002 (12.7)	903 (12.0)	997 (12.3)	926 (12.0)	957 (6.1)
Outdoor workers	6527	1212 (6.9)	1036 (5.3)	1144 (4.2)	1102 (6.1)	1123 (2.9)
Outdoor children	17033	1130 (12.0)	1015 (12.0)	1108 (14.0)	1058 (11.5)	1078 (6.2)
Heart and respiratory	34015	989 (9.7)	919 (12.7)	1012 (14.1)	929 (11.2)	962 (6.0)
All persons	238670	1079 (16.7)	972 (15.0)	1059 (15.5)	1004 (15.5)	1028 (7.9)

Highest quarter 1 exposure is 1212 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 1036 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 1144 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1102 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 1123 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=8

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	202212	1511 (21.3)	1415 (20.5)	1446 (20.5)	1009 (14.0)	1344 (9.6)
African americans	102531	1467 (26.7)	1370 (19.9)	1398 (19.7)	973 (14.9)	1301 (10.3)
Hispanics	155393	1455 (26.9)	1386 (23.1)	1411 (21.5)	981 (17.1)	1307 (11.2)
Household income lt \$10K	137407	1418 (16.7)	1320 (14.4)	1345 (13.4)	947 (10.7)	1257 (7.0)
Household income \$10K-\$25K	110057	1495 (20.2)	1412 (21.5)	1440 (22.7)	1001 (13.0)	1336 (9.8)
Household income \$25K-\$50K	105080	1511 (24.4)	1416 (21.5)	1450 (20.5)	1011 (15.7)	1346 (10.4)
Household income \$50K-\$75K	34971	1521 (17.1)	1432 (19.0)	1460 (19.9)	1021 (11.8)	1357 (8.6)
Household income gt \$75K	21949	1514 (19.1)	1396 (15.8)	1428 (14.8)	1004 (11.4)	1334 (7.7)
Children, 0 to 17	115895	1505 (19.0)	1409 (18.7)	1447 (19.5)	1004 (12.9)	1340 (8.9)
Nonworking men, 18 to 44	35128	1587 (19.0)	1456 (21.2)	1497 (19.1)	1054 (14.4)	1397 (9.3)
Working men, 18 to 44	53127	1481 (8.7)	1349 (7.7)	1357 (7.5)	1054 (6.1)	1309 (3.8)
Nonworking women, 18 to 44	56059	1465 (21.5)	1360 (16.6)	1389 (15.7)	977 (12.8)	1296 (8.4)
Working women, 18 to 44	40003	1431 (7.0)	1298 (6.2)	1336 (6.7)	999 (4.4)	1265 (3.1)
Nonworking men, 45 to 64	13757	1450 (13.7)	1399 (22.5)	1451 (24.8)	967 (7.0)	1316 (9.2)
Working men, 45 to 64	20381	1480 (8.3)	1333 (6.5)	1319 (5.8)	1061 (5.5)	1297 (3.3)
Nonworking women, 45 to 64	22145	1443 (18.7)	1320 (14.5)	1354 (15.0)	950 (10.3)	1265 (7.4)
Working women, 45 to 64	15782	1423 (7.0)	1291 (7.4)	1326 (7.4)	989 (5.2)	1256 (3.4)
Men, 65+	19334	1485 (20.6)	1413 (19.5)	1471 (16.9)	1001 (14.6)	1342 (9.0)
Women, 65+	21690	1423 (17.8)	1321 (17.5)	1362 (16.2)	945 (11.9)	1262 (8.0)
Outdoor workers	8826	1605 (7.7)	1434 (5.8)	1479 (4.6)	1187 (6.6)	1425 (3.1)
Outdoor children	32821	1599 (16.4)	1471 (15.7)	1498 (17.6)	1060 (10.2)	1406 (7.6)
Heart and respiratory	55473	1406 (13.6)	1345 (18.0)	1385 (19.3)	945 (10.5)	1269 (7.9)
All persons	413302	1531 (23.5)	1417 (20.9)	1443 (20.5)	1016 (14.7)	1350 (10.1)

Highest quarter 1 exposure is 1605 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 1471 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest quarter 3 exposure is 1498 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest quarter 4 exposure is 1187 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 1425 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=9

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	883496	588 (8.0)	441 (6.1)	431 (5.7)	543 (7.4)	501 (3.4)
African americans	759491	572 (10.3)	428 (5.9)	418 (5.6)	524 (8.0)	485 (3.8)
Hispanics	295524	568 (10.4)	433 (7.1)	422 (6.3)	529 (9.2)	488 (4.2)
Household income lt \$10K	461341	552 (6.1)	413 (4.1)	403 (3.7)	510 (5.5)	469 (2.5)
Household income \$10K-\$25K	496832	582 (7.6)	441 (6.4)	430 (6.3)	539 (6.9)	498 (3.4)
Household income \$25K-\$50K	539559	588 (9.2)	442 (6.4)	432 (5.8)	544 (8.3)	501 (3.8)
Household income \$50K-\$75K	223302	592 (6.5)	446 (5.6)	435 (5.6)	550 (6.2)	505 (3.0)
Household income gt \$75K	123663	589 (7.1)	436 (4.7)	428 (4.3)	541 (6.1)	498 (2.8)
Children, 0 to 17	489538	585 (7.1)	439 (5.5)	431 (5.5)	540 (6.8)	499 (3.1)
Nonworking men, 18 to 44	139789	617 (7.3)	455 (6.7)	445 (5.6)	567 (7.8)	521 (3.5)
Working men, 18 to 44	231609	721 (5.6)	571 (5.3)	547 (5.0)	661 (5.0)	625 (2.6)
Nonworking women, 18 to 44	222899	571 (8.2)	426 (5.0)	416 (4.4)	526 (6.8)	484 (3.1)
Working women, 18 to 44	206745	672 (3.9)	515 (3.6)	497 (3.6)	609 (3.4)	573 (1.8)
Nonworking men, 45 to 64	62103	566 (5.3)	436 (6.9)	432 (7.3)	521 (3.8)	488 (3.0)
Working men, 45 to 64	102444	743 (5.1)	583 (4.6)	564 (3.9)	675 (4.6)	641 (2.3)
Nonworking women, 45 to 64	99684	562 (7.0)	414 (4.4)	406 (4.3)	512 (5.4)	473 (2.7)
Working women, 45 to 64	91367	656 (4.2)	514 (3.9)	496 (3.6)	603 (4.0)	567 (2.0)
Men, 65+	110023	577 (7.7)	440 (5.7)	437 (4.6)	539 (7.6)	498 (3.3)
Women, 65+	126845	555 (6.8)	414 (5.1)	407 (4.5)	510 (6.4)	471 (2.9)
Outdoor workers	40498	914 (7.4)	746 (6.1)	719 (4.9)	821 (6.4)	800 (3.1)
Outdoor children	140656	619 (6.1)	456 (4.6)	445 (4.9)	570 (5.3)	522 (2.6)
Heart and respiratory	269850	549 (5.1)	420 (5.2)	413 (5.3)	509 (5.6)	473 (2.7)
All persons	1883049	595 (8.9)	442 (6.2)	430 (5.7)	547 (7.8)	503 (3.6)

Highest quarter 1 exposure is 914 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 746 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 719 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 821 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 800 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=10

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	527446	593 (7.8)	437 (6.0)	499 (6.3)	629 (8.1)	540 (3.6)
African americans	84235	579 (10.3)	424 (5.9)	485 (6.2)	610 (9.0)	524 (4.0)
Hispanics	37472	574 (10.5)	430 (7.1)	490 (7.1)	616 (10.7)	527 (4.5)
Household income lt \$10K	44328	558 (5.9)	410 (4.2)	469 (4.2)	594 (6.0)	508 (2.6)
Household income \$10K-\$25K	90423	586 (7.3)	436 (6.2)	497 (6.9)	625 (7.8)	536 (3.5)
Household income \$25K-\$50K	179635	593 (9.0)	438 (6.3)	500 (6.4)	631 (9.3)	540 (3.9)
Household income \$50K-\$75K	146091	597 (6.3)	442 (5.5)	504 (6.2)	636 (6.8)	545 (3.1)
Household income gt \$75K	151610	595 (7.0)	432 (4.6)	496 (4.9)	629 (6.8)	538 (3.0)
Children, 0 to 17	142494	590 (6.9)	435 (5.5)	499 (6.1)	624 (7.4)	537 (3.3)
Nonworking men, 18 to 44	34579	623 (7.5)	450 (6.6)	516 (6.3)	661 (9.6)	563 (3.8)
Working men, 18 to 44	93946	682 (8.2)	516 (6.8)	567 (6.7)	709 (7.7)	618 (3.7)
Nonworking women, 18 to 44	61580	575 (8.0)	421 (4.9)	482 (4.8)	611 (7.6)	522 (3.2)
Working women, 18 to 44	76868	643 (5.7)	474 (4.5)	530 (4.8)	666 (5.2)	578 (2.5)
Nonworking men, 45 to 64	18067	569 (4.9)	433 (6.8)	500 (8.5)	601 (3.6)	526 (3.1)
Working men, 45 to 64	51707	698 (7.6)	522 (5.8)	574 (5.2)	719 (7.0)	628 (3.2)
Nonworking women, 45 to 64	33634	566 (6.5)	410 (4.3)	472 (4.8)	593 (5.6)	510 (2.7)
Working women, 45 to 64	41246	630 (6.1)	474 (5.1)	527 (4.9)	658 (6.1)	572 (2.8)
Men, 65+	42926	579 (7.2)	436 (5.5)	503 (4.9)	620 (7.8)	534 (3.2)
Women, 65+	46606	559 (6.4)	409 (4.7)	472 (4.8)	588 (6.0)	507 (2.8)
Outdoor workers	17006	825 (9.9)	635 (7.4)	692 (6.1)	825 (8.9)	744 (4.1)
Outdoor children	41568	623 (5.9)	453 (4.6)	515 (5.4)	655 (5.7)	561 (2.7)
Heart and respiratory	96154	554 (5.0)	416 (4.9)	479 (5.6)	590 (5.5)	510 (2.6)
All persons	643655	599 (8.6)	438 (6.1)	498 (6.3)	632 (8.4)	542 (3.7)

Highest quarter 1 exposure is 825 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 635 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 692 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 825 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 744 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=11

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	247865	683 (9.3)	546 (7.5)	582 (7.8)	616 (8.5)	606 (4.1)
African americans	22811	665 (11.9)	528 (7.2)	563 (7.5)	593 (8.9)	587 (4.5)
Hispanics	64385	661 (12.2)	536 (9.0)	569 (8.5)	599 (10.6)	591 (5.1)
Household income lt \$10K	51227	642 (7.2)	512 (5.3)	544 (5.2)	579 (6.5)	569 (3.0)
Household income \$10K-\$25K	69738	676 (8.9)	545 (7.9)	580 (8.5)	611 (8.0)	603 (4.2)
Household income \$25K-\$50K	98199	683 (10.6)	546 (8.0)	583 (7.8)	617 (9.6)	607 (4.5)
Household income \$50K-\$75K	45429	687 (7.4)	552 (7.0)	588 (7.7)	623 (7.2)	612 (3.7)
Household income gt \$75K	48173	681 (8.0)	539 (5.6)	577 (5.7)	611 (6.7)	602 (3.3)
Children, 0 to 17	36362	679 (8.2)	543 (6.9)	583 (7.5)	612 (7.8)	604 (3.8)
Nonworking men, 18 to 44	23522	720 (8.8)	564 (8.6)	599 (7.6)	646 (9.2)	632 (4.3)
Working men, 18 to 44	58938	834 (6.8)	694 (6.8)	702 (6.3)	755 (6.4)	746 (3.3)
Nonworking women, 18 to 44	33139	665 (9.7)	527 (6.2)	561 (6.0)	597 (7.9)	587 (3.8)
Working women, 18 to 44	54779	777 (4.8)	628 (4.8)	645 (4.6)	695 (4.4)	686 (2.3)
Nonworking men, 45 to 64	9466	658 (6.1)	543 (8.8)	586 (10.2)	591 (4.2)	594 (3.8)
Working men, 45 to 64	22679	857 (6.1)	706 (5.9)	716 (5.0)	771 (5.8)	762 (2.9)
Nonworking women, 45 to 64	13633	655 (8.4)	513 (5.6)	549 (6.0)	582 (6.4)	574 (3.3)
Working women, 45 to 64	20975	759 (5.1)	627 (5.1)	643 (4.7)	687 (5.1)	679 (2.5)
Men, 65+	20004	672 (9.1)	546 (7.2)	591 (6.4)	612 (8.9)	605 (4.0)
Women, 65+	22363	647 (7.9)	513 (6.3)	550 (6.2)	579 (7.3)	572 (3.5)
Outdoor workers	6300	1053 (9.2)	897 (7.9)	899 (6.2)	941 (8.5)	947 (4.0)
Outdoor children	10453	718 (7.2)	564 (5.8)	601 (6.7)	645 (6.3)	632 (3.3)
Heart and respiratory	46855	637 (5.8)	519 (6.5)	558 (7.3)	577 (6.4)	573 (3.3)
All persons	315861	692 (10.3)	546 (7.7)	581 (7.8)	620 (8.9)	609 (4.4)

Highest quarter 1 exposure is 1053 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 897 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 899 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 941 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 947 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=12

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	422372	904 (12.5)	751 (10.7)	757 (10.3)	791 (11.1)	800 (5.6)
African americans	64185	880 (15.9)	725 (10.1)	731 (9.8)	760 (11.5)	774 (6.0)
Hispanics	189489	874 (16.2)	736 (12.5)	739 (11.2)	769 (13.8)	779 (6.8)
Household income lt \$10K	100992	849 (9.7)	703 (7.6)	707 (7.0)	743 (8.6)	750 (4.1)
Household income \$10K-\$25K	168141	895 (12.0)	750 (11.2)	755 (11.4)	785 (10.5)	796 (5.6)
Household income \$25K-\$50K	238019	904 (14.3)	751 (11.2)	759 (10.4)	792 (12.5)	801 (6.1)
Household income \$50K-\$75K	99882	909 (10.0)	759 (10.0)	765 (10.3)	800 (9.5)	808 (5.0)
Household income gt \$75K	62275	900 (10.6)	740 (7.9)	749 (7.5)	783 (8.6)	793 (4.4)
Children, 0 to 17	123280	898 (11.0)	747 (9.8)	759 (10.0)	785 (10.2)	797 (5.1)
Nonworking men, 18 to 44	44603	953 (11.7)	776 (11.9)	780 (10.0)	832 (12.1)	835 (5.7)
Working men, 18 to 44	107221	992 (6.5)	830 (5.8)	824 (5.5)	877 (5.8)	880 (3.0)
Nonworking women, 18 to 44	76196	880 (13.0)	724 (8.8)	730 (8.1)	768 (10.4)	775 (5.1)
Working women, 18 to 44	85235	939 (4.6)	771 (4.0)	777 (4.1)	821 (3.9)	827 (2.1)
Nonworking men, 45 to 64	20423	870 (8.2)	747 (12.2)	763 (13.4)	760 (5.5)	785 (5.2)
Working men, 45 to 64	49496	1004 (6.0)	833 (5.0)	826 (4.3)	886 (5.3)	887 (2.6)
Nonworking women, 45 to 64	35786	867 (11.4)	705 (8.0)	713 (8.0)	748 (8.6)	758 (4.5)
Working women, 45 to 64	40014	925 (4.9)	769 (4.6)	772 (4.3)	813 (4.7)	819 (2.3)
Men, 65+	44478	890 (12.3)	752 (10.5)	770 (8.7)	787 (12.0)	800 (5.5)
Women, 65+	48911	855 (10.5)	705 (9.3)	715 (8.3)	744 (9.7)	754 (4.7)
Outdoor workers	16818	1172 (7.5)	987 (6.2)	994 (5.0)	1030 (6.8)	1045 (3.2)
Outdoor children	34821	951 (9.7)	778 (8.3)	784 (9.0)	828 (8.3)	835 (4.4)
Heart and respiratory	101365	842 (7.8)	714 (9.4)	725 (9.8)	740 (8.4)	755 (4.5)
All persons	675630	915 (13.9)	751 (10.9)	755 (10.4)	796 (11.8)	804 (5.9)

Highest quarter 1 exposure is 1172 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 987 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 994 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1030 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 1045 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=13

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	108747	1427 (20.6)	1452 (21.1)	1494 (20.8)	1472 (21.5)	1461 (10.5)
African americans	17047	1383 (24.8)	1400 (19.8)	1441 (19.5)	1412 (21.7)	1409 (10.8)
Hispanics	38789	1374 (25.4)	1420 (23.9)	1457 (22.0)	1425 (25.3)	1419 (12.1)
Household income lt \$10K	49308	1339 (16.2)	1358 (15.9)	1394 (14.6)	1381 (17.4)	1368 (8.0)
Household income \$10K-\$25K	48465	1413 (19.9)	1448 (22.0)	1489 (22.9)	1458 (20.0)	1452 (10.6)
Household income \$25K-\$50K	55667	1428 (23.4)	1453 (22.1)	1498 (20.7)	1474 (24.1)	1464 (11.3)
Household income \$50K-\$75K	24848	1435 (16.5)	1469 (20.0)	1511 (20.9)	1489 (18.4)	1476 (9.5)
Household income gt \$75K	24129	1419 (17.5)	1431 (15.6)	1477 (14.9)	1458 (16.7)	1446 (8.1)
Children, 0 to 17	32130	1419 (18.3)	1447 (19.8)	1500 (20.3)	1465 (20.1)	1458 (9.8)
Nonworking men, 18 to 44	17393	1506 (18.8)	1493 (22.3)	1533 (19.2)	1544 (22.0)	1519 (10.3)
Working men, 18 to 44	36957	1421 (8.6)	1410 (8.0)	1433 (7.7)	1428 (8.4)	1423 (4.1)
Nonworking women, 18 to 44	20699	1389 (21.2)	1398 (17.6)	1438 (16.4)	1425 (19.8)	1413 (9.4)
Working women, 18 to 44	29979	1367 (6.8)	1351 (6.3)	1400 (6.7)	1368 (6.7)	1372 (3.3)
Nonworking men, 45 to 64	7156	1372 (12.7)	1446 (23.9)	1512 (27.1)	1412 (9.9)	1435 (9.9)
Working men, 45 to 64	13516	1416 (8.0)	1397 (6.7)	1402 (5.8)	1419 (7.4)	1408 (3.5)
Nonworking women, 45 to 64	8620	1371 (19.1)	1359 (15.7)	1405 (16.1)	1388 (16.6)	1381 (8.5)
Working women, 45 to 64	11068	1359 (6.9)	1344 (7.4)	1383 (7.1)	1360 (7.5)	1362 (3.6)
Men, 65+	12791	1409 (20.6)	1448 (20.2)	1517 (17.3)	1464 (23.0)	1460 (10.2)
Women, 65+	12723	1350 (17.3)	1355 (17.1)	1409 (16.6)	1380 (18.3)	1374 (8.7)
Outdoor workers	4260	1566 (7.8)	1503 (6.4)	1578 (4.9)	1519 (7.2)	1541 (3.3)
Outdoor children	9344	1509 (16.6)	1512 (17.1)	1554 (18.5)	1553 (16.8)	1532 (8.6)
Heart and respiratory	29302	1326 (12.8)	1376 (18.1)	1428 (19.1)	1373 (16.3)	1376 (8.4)
All persons	203027	1447 (22.8)	1453 (21.5)	1491 (20.8)	1482 (22.7)	1468 (11.0)

Highest quarter 1 exposure is 1566 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 1512 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest quarter 3 exposure is 1578 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1553 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest annual exposure is 1541 $\mu\text{g}/\text{m}^3$ for Outdoor workers

New York City: Air District=14

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	510515	1978 (27.9)	2164 (30.3)	2169 (29.7)	2024 (29.2)	2084 (14.7)
African americans	135889	1926 (34.8)	2088 (28.6)	2095 (28.2)	1942 (29.5)	2013 (15.2)
Hispanics	196988	1912 (35.7)	2122 (36.0)	2119 (32.3)	1963 (35.4)	2029 (17.4)
Household income lt \$10K	150281	1859 (21.8)	2030 (22.6)	2029 (21.2)	1901 (23.6)	1955 (11.2)
Household income \$10K-\$25K	154189	1959 (26.8)	2161 (31.8)	2162 (32.6)	2006 (27.3)	2072 (14.9)
Household income \$25K-\$50K	199231	1979 (31.8)	2166 (32.1)	2174 (29.7)	2029 (33.0)	2087 (15.8)
Household income \$50K-\$75K	93543	1989 (22.2)	2189 (28.5)	2192 (29.8)	2046 (24.9)	2104 (13.3)
Household income gt \$75K	136649	1967 (23.1)	2136 (22.6)	2146 (21.7)	2003 (22.9)	2063 (11.3)
Children, 0 to 17	120719	1965 (24.5)	2155 (28.3)	2177 (29.0)	2011 (27.4)	2078 (13.7)
Nonworking men, 18 to 44	58472	2094 (26.2)	2241 (34.3)	2231 (28.1)	2137 (31.5)	2176 (15.1)
Working men, 18 to 44	118230	1881 (12.0)	2019 (11.5)	2012 (11.0)	1902 (11.9)	1954 (5.8)
Nonworking women, 18 to 44	82520	1927 (28.7)	2090 (25.2)	2091 (23.4)	1965 (27.0)	2018 (13.1)
Working women, 18 to 44	108908	1823 (9.9)	1956 (9.6)	1986 (10.0)	1835 (9.7)	1900 (4.9)
Nonworking men, 45 to 64	21925	1901 (17.0)	2153 (36.0)	2196 (40.7)	1940 (13.1)	2048 (14.7)
Working men, 45 to 64	54040	1856 (11.2)	1988 (9.4)	1960 (8.3)	1880 (10.4)	1921 (4.9)
Nonworking women, 45 to 64	38564	1900 (25.7)	2033 (22.9)	2042 (23.4)	1909 (22.4)	1971 (11.8)
Working women, 45 to 64	49560	1818 (9.6)	1936 (10.9)	1951 (10.6)	1820 (10.4)	1881 (5.2)
Men, 65+	46135	1949 (27.4)	2160 (29.2)	2198 (24.7)	2015 (31.4)	2081 (14.2)
Women, 65+	54176	1872 (23.3)	2022 (23.9)	2045 (23.4)	1893 (23.9)	1958 (11.8)
Outdoor workers	12964	1979 (9.7)	2051 (7.8)	2131 (5.8)	1951 (9.3)	2028 (4.1)
Outdoor children	33274	2084 (22.1)	2246 (24.1)	2254 (26.4)	2131 (22.9)	2179 (12.0)
Heart and respiratory	112317	1840 (16.9)	2054 (25.7)	2072 (27.1)	1888 (21.6)	1964 (11.6)
All persons	753255	2003 (30.7)	2165 (30.8)	2165 (29.8)	2037 (30.7)	2093 (15.3)

Highest quarter 1 exposure is 2094 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Highest quarter 2 exposure is 2246 $\mu\text{g}/\text{m}^3$ for Outdoor children

Highest quarter 3 exposure is 2254 $\mu\text{g}/\text{m}^3$ for Outdoor children

Highest quarter 4 exposure is 2137 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Highest annual exposure is 2179 $\mu\text{g}/\text{m}^3$ for Outdoor children

New York City: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	3700764	1002 (14.1)	879 (12.6)	911 (12.7)	924 (13.1)	929 (6.6)
African americans	765239	973 (17.6)	849 (12.1)	880 (12.0)	889 (13.6)	898 (7.0)
Hispanics	466109	965 (17.8)	860 (14.4)	889 (13.4)	896 (15.7)	902 (7.7)
Household income lt \$10K	512285	940 (11.0)	822 (9.2)	850 (8.7)	867 (10.4)	869 (4.9)
Household income \$10K-\$25K	830063	991 (13.4)	877 (13.2)	908 (13.9)	916 (12.2)	923 (6.6)
Household income \$25K-\$50K	1473693	1002 (16.1)	880 (13.3)	914 (12.6)	926 (14.7)	930 (7.1)
Household income \$50K-\$75K	962793	1008 (11.3)	889 (11.8)	921 (12.5)	935 (11.2)	938 (5.9)
Household income gt \$75K	949533	1002 (12.4)	867 (9.5)	901 (9.1)	919 (10.6)	922 (5.2)
Children, 0 to 17	1081884	997 (12.5)	875 (11.7)	914 (12.2)	919 (12.2)	926 (6.1)
Nonworking men, 18 to 44	277626	1053 (12.7)	904 (13.2)	937 (11.6)	967 (13.5)	965 (6.4)
Working men, 18 to 44	703983	1049 (10.9)	908 (9.0)	929 (8.7)	965 (9.5)	963 (4.8)
Nonworking women, 18 to 44	488652	972 (14.3)	846 (10.4)	877 (9.8)	894 (12.0)	897 (5.9)
Working women, 18 to 44	583211	1001 (7.8)	857 (6.2)	893 (6.8)	914 (6.6)	916 (3.4)
Nonworking men, 45 to 64	143523	962 (9.0)	872 (14.2)	918 (16.2)	884 (6.2)	909 (6.1)
Working men, 45 to 64	376418	1057 (10.3)	906 (7.7)	922 (6.7)	971 (8.7)	964 (4.2)
Nonworking women, 45 to 64	260788	958 (12.5)	821 (9.2)	856 (9.6)	869 (9.7)	876 (5.2)
Working women, 45 to 64	309634	990 (8.3)	854 (7.7)	885 (7.2)	906 (8.0)	908 (3.9)
Men, 65+	328298	984 (13.6)	877 (12.1)	925 (10.4)	916 (13.7)	925 (6.2)
Women, 65+	366907	945 (11.8)	820 (10.3)	859 (10.0)	863 (10.9)	871 (5.4)
Outdoor workers	123777	1196 (10.9)	1024 (8.4)	1072 (6.8)	1084 (9.5)	1094 (4.5)
Outdoor children	314401	1058 (10.9)	914 (10.0)	947 (11.1)	973 (9.9)	973 (5.2)
Heart and respiratory	743122	932 (8.9)	834 (10.9)	871 (11.6)	863 (9.8)	875 (5.2)
All persons	4920931	1015 (15.5)	880 (12.9)	910 (12.7)	930 (13.8)	933 (6.9)

Highest quarter 1 exposure is 1196 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 1024 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 1072 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1084 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 1094 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	133120	802 (11.5)	197 (2.9)	498 (7.0)	567 (8.2)	515 (4.0)
African americans	53659	775 (13.0)	190 (2.7)	481 (6.8)	544 (8.2)	497 (4.2)
Hispanics	7348	775 (14.0)	193 (3.2)	487 (7.5)	549 (9.6)	500 (4.7)
Household income lt \$10K	27630	755 (9.3)	185 (2.2)	466 (5.0)	532 (6.6)	484 (3.2)
Household income \$10K-\$25K	47921	793 (10.8)	196 (3.0)	493 (7.0)	561 (7.6)	510 (3.8)
Household income \$25K-\$50K	70722	803 (13.1)	198 (3.0)	500 (7.2)	568 (9.2)	517 (4.4)
Household income \$50K-\$75K	27505	809 (9.6)	200 (2.7)	505 (7.1)	574 (7.2)	521 (3.5)
Household income gt \$75K	16561	799 (10.0)	195 (2.2)	492 (4.9)	562 (6.8)	511 (3.3)
Children, 0 to 17	45668	798 (10.5)	197 (2.7)	500 (6.9)	564 (7.7)	514 (3.7)
Nonworking men, 18 to 44	11946	842 (11.4)	204 (3.0)	521 (6.2)	591 (8.4)	539 (3.9)
Working men, 18 to 44	25989	835 (11.2)	215 (2.8)	505 (6.3)	590 (7.8)	535 (3.8)
Nonworking women, 18 to 44	18286	778 (11.3)	190 (2.4)	479 (5.5)	548 (7.5)	498 (3.7)
Working women, 18 to 44	23478	796 (8.0)	200 (1.9)	488 (5.0)	557 (5.4)	510 (2.7)
Nonworking men, 45 to 64	5508	766 (6.2)	195 (3.1)	500 (7.9)	542 (4.0)	500 (2.8)
Working men, 45 to 64	12533	843 (10.7)	216 (2.4)	503 (5.1)	594 (7.2)	538 (3.5)
Nonworking women, 45 to 64	8888	758 (9.1)	184 (2.1)	468 (5.7)	529 (5.9)	484 (3.1)
Working women, 45 to 64	11039	787 (9.0)	200 (2.3)	477 (5.0)	552 (6.6)	503 (3.1)
Men, 65+	14107	789 (11.3)	197 (2.7)	512 (6.0)	563 (8.6)	515 (3.9)
Women, 65+	15903	749 (9.2)	184 (2.4)	476 (6.1)	527 (6.8)	483 (3.3)
Outdoor workers	5721	940 (11.2)	252 (2.7)	595 (5.2)	661 (8.0)	611 (3.7)
Outdoor children	13373	848 (8.8)	206 (2.3)	518 (6.1)	598 (6.1)	542 (3.1)
Heart and respiratory	29418	749 (8.2)	187 (2.6)	476 (7.6)	530 (6.5)	485 (3.3)
All persons	193347	810 (12.3)	198 (2.9)	497 (7.0)	570 (8.6)	518 (4.2)

Highest quarter 1 exposure is 940 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 252 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 595 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 661 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 611 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	130902	540 (6.8)	277 (3.6)	313 (3.9)	397 (5.1)	381 (2.5)
African americans	35198	529 (8.8)	268 (3.6)	304 (4.0)	384 (5.6)	371 (2.9)
Hispanics	2801	528 (9.3)	273 (4.5)	308 (4.5)	388 (6.5)	374 (3.2)
Household income lt \$10K	21819	509 (4.9)	260 (2.6)	295 (2.7)	374 (3.6)	359 (1.8)
Household income \$10K-\$25K	35350	536 (6.5)	276 (3.8)	310 (3.9)	394 (4.8)	378 (2.4)
Household income \$25K-\$50K	67063	540 (7.8)	277 (3.9)	314 (4.0)	397 (5.7)	382 (2.8)
Household income \$50K-\$75K	27448	545 (5.5)	279 (3.4)	317 (3.9)	402 (4.2)	385 (2.2)
Household income gt \$75K	14290	541 (6.0)	274 (2.8)	312 (3.0)	398 (4.5)	381 (2.1)
Children, 0 to 17	42624	536 (5.9)	275 (3.4)	314 (3.9)	394 (4.6)	379 (2.3)
Nonworking men, 18 to 44	9636	566 (7.3)	287 (4.3)	327 (4.0)	413 (5.7)	398 (2.7)
Working men, 18 to 44	24535	600 (5.6)	303 (3.0)	350 (3.3)	447 (4.2)	424 (2.1)
Nonworking women, 18 to 44	16149	524 (6.8)	267 (3.0)	303 (3.0)	383 (4.6)	369 (2.3)
Working women, 18 to 44	21276	567 (3.8)	283 (2.0)	328 (2.3)	419 (2.8)	399 (1.4)
Nonworking men, 45 to 64	4581	518 (3.9)	273 (4.1)	311 (4.5)	378 (2.4)	370 (1.9)
Working men, 45 to 64	11633	611 (5.3)	305 (2.6)	355 (2.7)	456 (4.0)	431 (1.9)
Nonworking women, 45 to 64	7621	510 (4.8)	260 (2.6)	296 (3.0)	371 (3.2)	359 (1.8)
Working women, 45 to 64	10107	559 (4.2)	282 (2.3)	324 (2.4)	415 (3.3)	394 (1.6)
Men, 65+	9913	528 (6.1)	277 (3.4)	320 (3.1)	389 (4.6)	378 (2.2)
Women, 65+	11080	507 (5.3)	260 (2.9)	299 (3.2)	369 (3.7)	358 (1.9)
Outdoor workers	4881	699 (6.5)	353 (3.0)	427 (3.2)	519 (5.0)	499 (2.3)
Outdoor children	12021	563 (4.6)	286 (2.8)	324 (3.4)	413 (3.3)	396 (1.8)
Heart and respiratory	24208	508 (4.6)	263 (3.1)	301 (4.0)	373 (3.6)	361 (1.9)
All persons	169155	544 (7.3)	277 (3.7)	313 (3.9)	398 (5.2)	382 (2.6)

Highest quarter 1 exposure is 699 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 353 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 427 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 519 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 499 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	68395	791 (11.3)	580 (8.4)	637 (8.7)	763 (10.8)	693 (4.9)
African americans	29652	766 (13.2)	560 (8.1)	615 (8.5)	735 (11.2)	669 (5.2)
Hispanics	4237	764 (13.7)	567 (9.3)	621 (9.3)	741 (12.7)	673 (5.7)
Household income lt \$10K	7001	741 (8.6)	542 (6.0)	595 (6.0)	716 (8.3)	648 (3.7)
Household income \$10K-\$25K	17428	784 (10.8)	577 (8.6)	630 (8.7)	757 (10.1)	687 (4.8)
Household income \$25K-\$50K	41881	791 (12.7)	580 (8.9)	640 (8.9)	764 (12.1)	693 (5.4)
Household income \$50K-\$75K	22007	799 (9.4)	586 (7.8)	645 (8.7)	773 (9.2)	701 (4.4)
Household income gt \$75K	7602	791 (9.9)	572 (6.3)	630 (6.0)	759 (8.9)	688 (4.0)
Children, 0 to 17	25854	788 (10.1)	578 (7.8)	639 (8.5)	760 (9.9)	691 (4.6)
Nonworking men, 18 to 44	4913	823 (10.4)	596 (8.4)	665 (8.0)	793 (10.7)	719 (4.7)
Working men, 18 to 44	15769	787 (6.8)	560 (4.8)	609 (4.9)	738 (6.5)	673 (2.9)
Nonworking women, 18 to 44	8492	763 (10.9)	557 (6.7)	613 (6.7)	736 (9.7)	667 (4.4)
Working women, 18 to 44	13691	754 (5.2)	536 (3.7)	598 (4.2)	708 (5.0)	649 (2.3)
Nonworking men, 45 to 64	2479	761 (7.4)	573 (8.6)	635 (9.4)	731 (5.6)	675 (3.9)
Working men, 45 to 64	7945	790 (6.5)	556 (4.1)	596 (3.8)	739 (6.0)	670 (2.6)
Nonworking women, 45 to 64	4192	746 (8.9)	540 (5.8)	599 (6.8)	713 (7.5)	649 (3.7)
Working women, 45 to 64	6945	751 (5.8)	536 (4.5)	587 (4.3)	705 (5.8)	644 (2.6)
Men, 65+	5233	777 (10.9)	582 (8.1)	657 (7.4)	757 (11.2)	693 (4.8)
Women, 65+	5626	743 (9.8)	543 (7.2)	608 (7.2)	713 (9.4)	651 (4.2)
Outdoor workers	3534	862 (6.2)	603 (4.0)	686 (3.3)	786 (5.9)	734 (2.5)
Outdoor children	7502	834 (8.1)	603 (6.5)	662 (7.4)	803 (7.6)	725 (3.7)
Heart and respiratory	14108	740 (8.3)	551 (7.5)	611 (9.2)	716 (8.5)	654 (4.2)
All persons	101129	799 (12.3)	580 (8.6)	636 (8.7)	768 (11.4)	696 (5.2)

Highest quarter 1 exposure is 862 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 603 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 686 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 803 µg/m3 for Outdoor children
 Highest annual exposure is 734 µg/m3 for Outdoor workers

Philadelphia: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	213896	462 (5.9)	264 (3.4)	310 (3.8)	421 (5.4)	364 (2.4)
African americans	55062	451 (7.6)	256 (3.4)	301 (3.9)	408 (6.0)	354 (2.7)
Hispanics	24157	450 (7.9)	260 (4.1)	304 (4.4)	412 (6.9)	356 (3.0)
Household income lt \$10K	47900	435 (4.3)	248 (2.3)	292 (2.6)	397 (4.0)	343 (1.7)
Household income \$10K-\$25K	72599	458 (5.6)	263 (3.5)	306 (3.8)	418 (5.2)	361 (2.3)
Household income \$25K-\$50K	100322	462 (6.7)	264 (3.6)	311 (3.9)	421 (6.2)	364 (2.6)
Household income \$50K-\$75K	42446	466 (4.8)	266 (3.1)	314 (3.8)	426 (4.5)	368 (2.1)
Household income gt \$75K	23261	463 (5.3)	262 (2.8)	309 (2.9)	422 (4.7)	364 (2.0)
Children, 0 to 17	75473	459 (5.2)	262 (3.2)	310 (3.7)	418 (5.0)	362 (2.2)
Nonworking men, 18 to 44	17631	481 (6.0)	272 (3.7)	323 (3.8)	438 (6.0)	378 (2.5)
Working men, 18 to 44	37731	527 (4.4)	315 (2.8)	354 (2.8)	474 (3.7)	417 (1.7)
Nonworking women, 18 to 44	29338	447 (5.9)	254 (2.7)	300 (2.9)	407 (4.9)	352 (2.1)
Working women, 18 to 44	32111	495 (2.9)	289 (1.8)	330 (2.1)	444 (2.5)	389 (1.2)
Nonworking men, 45 to 64	8225	443 (3.7)	259 (3.7)	306 (4.3)	402 (2.5)	352 (1.8)
Working men, 45 to 64	18465	538 (4.1)	321 (2.5)	362 (2.3)	483 (3.5)	426 (1.6)
Nonworking women, 45 to 64	14074	435 (4.2)	247 (2.3)	293 (2.9)	394 (3.5)	342 (1.6)
Working women, 45 to 64	15449	488 (3.3)	289 (2.1)	326 (2.1)	440 (3.0)	385 (1.4)
Men, 65+	20344	451 (5.4)	263 (3.0)	315 (2.9)	414 (5.1)	360 (2.1)
Women, 65+	22634	434 (4.9)	247 (2.5)	295 (3.0)	392 (4.1)	342 (1.9)
Outdoor workers	8184	628 (5.1)	386 (3.0)	435 (2.7)	553 (4.2)	500 (1.9)
Outdoor children	21489	482 (4.0)	272 (2.5)	320 (3.2)	439 (3.7)	378 (1.7)
Heart and respiratory	43529	434 (4.1)	251 (2.8)	298 (3.8)	396 (3.9)	345 (1.9)
All persons	291474	465 (6.4)	264 (3.4)	309 (3.8)	422 (5.6)	365 (2.5)

Highest quarter 1 exposure is 628 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 386 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 435 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 553 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 500 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	41085	254 (3.2)	221 (2.8)	212 (2.6)	182 (2.3)	217 (1.4)
African americans	8700	248 (4.1)	214 (2.8)	205 (2.7)	176 (2.5)	211 (1.5)
Hispanics	2077	248 (4.5)	217 (3.5)	207 (3.0)	178 (3.0)	213 (1.8)
Household income lt \$10K	4736	240 (2.3)	208 (1.9)	199 (1.8)	171 (1.6)	204 (1.0)
Household income \$10K-\$25K	12291	252 (3.1)	220 (2.9)	209 (2.6)	181 (2.2)	215 (1.4)
Household income \$25K-\$50K	21218	254 (3.7)	221 (3.0)	212 (2.7)	182 (2.6)	217 (1.5)
Household income \$50K-\$75K	7736	256 (2.6)	223 (2.6)	214 (2.6)	184 (1.9)	219 (1.2)
Household income gt \$75K	4281	252 (2.6)	219 (2.2)	210 (1.9)	181 (2.0)	215 (1.1)
Children, 0 to 17	13747	252 (2.8)	220 (2.6)	212 (2.6)	181 (2.1)	216 (1.3)
Nonworking men, 18 to 44	3219	268 (3.6)	228 (3.3)	221 (2.7)	190 (2.7)	227 (1.6)
Working men, 18 to 44	7918	328 (6.4)	263 (4.2)	254 (4.2)	245 (5.3)	272 (2.6)
Nonworking women, 18 to 44	4856	247 (3.3)	213 (2.3)	205 (2.0)	176 (2.1)	210 (1.2)
Working women, 18 to 44	6625	301 (4.5)	241 (2.7)	233 (3.0)	222 (3.7)	249 (1.8)
Nonworking men, 45 to 64	1272	244 (1.9)	218 (3.2)	211 (3.1)	174 (1.1)	212 (1.2)
Working men, 45 to 64	3125	338 (5.9)	268 (3.8)	261 (3.5)	253 (5.0)	280 (2.3)
Nonworking women, 45 to 64	1978	241 (2.5)	208 (2.0)	200 (2.1)	171 (1.5)	205 (1.0)
Working women, 45 to 64	2588	296 (4.8)	241 (3.0)	232 (3.3)	221 (4.2)	247 (1.9)
Men, 65+	2775	250 (3.1)	220 (2.6)	217 (2.2)	180 (2.3)	217 (1.3)
Women, 65+	2942	240 (2.6)	208 (2.2)	202 (2.1)	170 (1.8)	205 (1.1)
Outdoor workers	1770	420 (9.0)	322 (4.9)	323 (4.5)	318 (7.3)	346 (3.3)
Outdoor children	3922	264 (2.3)	227 (2.1)	219 (2.2)	189 (1.5)	225 (1.0)
Heart and respiratory	7012	239 (2.2)	210 (2.3)	203 (2.7)	171 (1.7)	206 (1.1)
All persons	51045	256 (3.5)	221 (2.9)	211 (2.6)	182 (2.4)	217 (1.4)

Highest quarter 1 exposure is 420 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 322 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 323 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 318 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 346 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	69633	573 (8.0)	397 (5.7)	432 (5.8)	558 (7.7)	490 (3.5)
African americans	3476	556 (9.4)	384 (5.5)	417 (5.7)	538 (8.0)	473 (3.7)
Hispanics	1443	555 (10.0)	388 (6.4)	421 (6.4)	543 (9.4)	477 (4.1)
Household income lt \$10K	5417	539 (6.2)	371 (4.1)	404 (4.2)	524 (6.0)	459 (2.6)
Household income \$10K-\$25K	12198	569 (7.7)	395 (5.8)	427 (5.8)	553 (7.2)	486 (3.3)
Household income \$25K-\$50K	27613	574 (9.1)	397 (6.0)	434 (6.0)	558 (8.7)	491 (3.8)
Household income \$50K-\$75K	16725	579 (6.7)	401 (5.3)	437 (5.9)	564 (6.6)	495 (3.1)
Household income gt \$75K	10241	570 (6.8)	391 (4.3)	427 (4.1)	554 (6.3)	485 (2.7)
Children, 0 to 17	18391	570 (7.2)	396 (5.3)	434 (5.7)	555 (7.2)	488 (3.2)
Nonworking men, 18 to 44	3432	601 (7.8)	409 (5.8)	451 (5.5)	582 (8.2)	510 (3.5)
Working men, 18 to 44	12558	599 (5.8)	402 (3.8)	432 (3.8)	556 (5.5)	497 (2.4)
Nonworking women, 18 to 44	6479	556 (7.9)	382 (4.6)	416 (4.6)	540 (7.1)	473 (3.1)
Working women, 18 to 44	10176	569 (4.2)	381 (2.8)	418 (3.2)	530 (4.2)	474 (1.8)
Nonworking men, 45 to 64	1608	552 (5.0)	392 (6.0)	431 (6.6)	535 (3.9)	477 (2.7)
Working men, 45 to 64	5919	603 (5.4)	401 (3.2)	427 (2.9)	557 (4.9)	497 (2.1)
Nonworking women, 45 to 64	3117	543 (6.5)	370 (4.0)	406 (4.7)	523 (5.4)	460 (2.6)
Working women, 45 to 64	4762	565 (4.7)	380 (3.4)	411 (3.2)	528 (4.9)	471 (2.1)
Men, 65+	4024	566 (8.0)	399 (5.5)	446 (5.0)	555 (8.1)	491 (3.4)
Women, 65+	4233	540 (7.0)	372 (4.8)	411 (4.8)	523 (6.8)	461 (3.0)
Outdoor workers	2206	680 (5.4)	448 (3.1)	500 (2.6)	606 (4.8)	558 (2.1)
Outdoor children	5220	604 (5.9)	413 (4.4)	449 (5.0)	586 (5.5)	513 (2.6)
Heart and respiratory	10399	537 (5.8)	377 (5.1)	413 (6.1)	524 (6.0)	463 (2.9)
All persons	74699	579 (8.7)	397 (5.8)	431 (5.9)	561 (8.2)	492 (3.6)

Highest quarter 1 exposure is 680 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 448 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 500 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 606 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 558 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	191093	479 (5.9)	240 (3.1)	255 (3.1)	284 (3.5)	314 (2.0)
African americans	10087	470 (7.9)	234 (3.2)	248 (3.2)	278 (4.1)	307 (2.5)
Hispanics	4296	469 (8.2)	237 (3.8)	251 (3.6)	279 (4.5)	308 (2.7)
Household income lt \$10K	19088	451 (4.0)	225 (2.0)	240 (2.0)	268 (2.3)	296 (1.4)
Household income \$10K-\$25K	47708	476 (5.6)	239 (3.2)	252 (3.0)	283 (3.3)	312 (2.0)
Household income \$25K-\$50K	88237	479 (6.8)	240 (3.3)	256 (3.2)	284 (4.0)	314 (2.3)
Household income \$50K-\$75K	36423	484 (4.8)	242 (2.8)	258 (3.0)	287 (2.9)	317 (1.7)
Household income gt \$75K	14811	483 (5.6)	239 (2.6)	255 (2.5)	288 (3.4)	315 (1.9)
Children, 0 to 17	53293	477 (5.2)	239 (2.9)	255 (3.0)	282 (3.2)	312 (1.8)
Nonworking men, 18 to 44	10871	498 (6.1)	248 (3.5)	268 (3.2)	294 (3.9)	326 (2.2)
Working men, 18 to 44	35080	541 (4.6)	288 (2.8)	299 (2.7)	352 (3.5)	369 (1.7)
Nonworking women, 18 to 44	19013	463 (5.9)	231 (2.4)	247 (2.3)	274 (3.1)	303 (1.8)
Working women, 18 to 44	28233	509 (3.1)	264 (1.8)	277 (2.0)	326 (2.5)	343 (1.2)
Nonworking men, 45 to 64	4599	460 (3.7)	235 (3.3)	252 (3.5)	270 (1.7)	304 (1.6)
Working men, 45 to 64	14944	554 (4.4)	293 (2.5)	307 (2.3)	365 (3.4)	379 (1.6)
Nonworking women, 45 to 64	8106	451 (3.8)	225 (2.0)	240 (2.2)	265 (1.9)	295 (1.3)
Working women, 45 to 64	12012	503 (3.5)	264 (2.1)	274 (2.0)	323 (2.8)	340 (1.3)
Men, 65+	10136	466 (5.1)	239 (2.7)	258 (2.3)	277 (2.9)	310 (1.7)
Women, 65+	10541	450 (4.7)	225 (2.4)	243 (2.4)	263 (2.3)	295 (1.6)
Outdoor workers	6859	636 (5.5)	354 (3.1)	371 (2.7)	431 (4.6)	447 (2.1)
Outdoor children	15595	499 (3.9)	247 (2.3)	262 (2.6)	294 (2.1)	325 (1.4)
Heart and respiratory	27965	452 (4.1)	229 (2.5)	245 (3.2)	269 (2.3)	298 (1.6)
All persons	206824	482 (6.4)	240 (3.1)	254 (3.1)	284 (3.5)	315 (2.1)

Highest quarter 1 exposure is 636 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 354 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 371 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 431 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 447 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=8

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	199439	455 (5.8)	237 (3.2)	436 (5.4)	418 (5.3)	387 (2.5)
African americans	16049	444 (7.4)	231 (3.1)	423 (5.5)	405 (5.9)	376 (2.8)
Hispanics	2932	444 (7.9)	234 (3.8)	428 (6.3)	409 (6.9)	379 (3.2)
Household income lt \$10K	15640	429 (4.2)	223 (2.1)	410 (3.8)	394 (3.8)	364 (1.8)
Household income \$10K-\$25K	39134	451 (5.5)	237 (3.2)	432 (5.4)	415 (5.0)	384 (2.4)
Household income \$25K-\$50K	74139	455 (6.6)	238 (3.4)	438 (5.6)	418 (6.1)	387 (2.8)
Household income \$50K-\$75K	42881	459 (4.8)	240 (2.9)	442 (5.5)	423 (4.4)	391 (2.3)
Household income gt \$75K	35531	455 (5.1)	235 (2.5)	434 (4.0)	418 (4.6)	386 (2.1)
Children, 0 to 17	44092	452 (5.1)	236 (2.9)	437 (5.4)	415 (4.9)	385 (2.3)
Nonworking men, 18 to 44	12632	476 (6.1)	246 (3.5)	456 (5.5)	435 (6.0)	403 (2.7)
Working men, 18 to 44	33589	509 (5.3)	278 (3.2)	463 (4.3)	462 (4.5)	428 (2.2)
Nonworking women, 18 to 44	21474	441 (5.8)	229 (2.5)	422 (4.2)	404 (4.9)	374 (2.3)
Working women, 18 to 44	29066	479 (3.6)	256 (2.1)	441 (3.1)	434 (3.0)	403 (1.5)
Nonworking men, 45 to 64	5559	438 (3.8)	233 (3.4)	434 (6.4)	400 (2.6)	376 (2.2)
Working men, 45 to 64	16676	518 (5.0)	283 (2.8)	465 (3.4)	470 (4.2)	434 (2.0)
Nonworking women, 45 to 64	10360	430 (4.3)	222 (2.2)	412 (4.3)	392 (3.4)	364 (1.8)
Working women, 45 to 64	14165	473 (4.1)	256 (2.4)	435 (3.3)	431 (3.7)	399 (1.7)
Men, 65+	15864	445 (5.4)	237 (2.8)	446 (4.4)	412 (5.1)	385 (2.3)
Women, 65+	18141	428 (4.9)	223 (2.6)	416 (4.5)	390 (4.2)	364 (2.1)
Outdoor workers	5740	598 (6.0)	340 (3.4)	549 (3.5)	534 (5.0)	505 (2.3)
Outdoor children	12643	475 (4.0)	245 (2.4)	451 (4.7)	435 (3.5)	402 (1.9)
Heart and respiratory	33957	428 (4.1)	226 (2.7)	419 (5.7)	394 (3.9)	367 (2.1)
All persons	221620	459 (6.3)	237 (3.2)	435 (5.5)	419 (5.5)	388 (2.6)

Highest quarter 1 exposure is 598 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 340 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 549 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 534 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 505 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=9

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	388596	601 (7.8)	356 (5.0)	342 (4.4)	559 (7.4)	464 (3.2)
African americans	20082	587 (10.0)	347 (5.0)	331 (4.5)	540 (8.0)	451 (3.6)
Hispanics	14138	586 (10.4)	350 (5.7)	334 (4.9)	545 (9.2)	453 (3.9)
Household income lt \$10K	65748	565 (5.6)	333 (3.2)	320 (3.0)	525 (5.6)	436 (2.3)
Household income \$10K-\$25K	127263	596 (7.4)	355 (5.1)	338 (4.4)	554 (7.0)	460 (3.1)
Household income \$25K-\$50K	154951	601 (8.9)	357 (5.3)	343 (4.5)	559 (8.4)	464 (3.5)
Household income \$50K-\$75K	52045	607 (6.5)	360 (4.5)	346 (4.4)	565 (6.2)	469 (2.7)
Household income gt \$75K	18334	603 (7.2)	353 (3.9)	340 (3.2)	558 (6.3)	463 (2.7)
Children, 0 to 17	95715	598 (6.9)	354 (4.5)	343 (4.3)	555 (6.9)	462 (2.9)
Nonworking men, 18 to 44	30479	624 (7.7)	366 (5.0)	356 (4.2)	581 (8.0)	481 (3.2)
Working men, 18 to 44	50046	646 (4.5)	393 (3.2)	386 (3.1)	598 (4.0)	505 (1.9)
Nonworking women, 18 to 44	46255	580 (7.7)	342 (3.9)	329 (3.4)	539 (6.7)	447 (2.9)
Working women, 18 to 44	40229	613 (3.0)	365 (2.1)	361 (2.3)	564 (2.7)	475 (1.3)
Nonworking men, 45 to 64	13534	580 (5.6)	350 (4.9)	338 (4.8)	533 (3.5)	450 (2.4)
Working men, 45 to 64	24972	656 (4.3)	396 (2.8)	394 (2.6)	605 (3.8)	512 (1.7)
Nonworking women, 45 to 64	23069	566 (5.6)	332 (3.3)	322 (3.4)	522 (4.9)	435 (2.2)
Working women, 45 to 64	20134	605 (3.6)	366 (2.6)	357 (2.5)	560 (3.4)	472 (1.5)
Men, 65+	38547	589 (7.3)	358 (4.6)	349 (3.6)	550 (7.2)	461 (2.9)
Women, 65+	44305	566 (6.9)	335 (4.3)	325 (3.6)	520 (5.8)	436 (2.6)
Outdoor workers	11646	747 (5.0)	467 (3.4)	478 (3.1)	676 (4.5)	591 (2.0)
Outdoor children	26915	628 (5.2)	368 (3.7)	354 (3.8)	585 (5.2)	483 (2.3)
Heart and respiratory	69768	566 (5.7)	340 (4.4)	328 (4.6)	524 (5.5)	439 (2.5)
All persons	427286	606 (8.6)	357 (5.1)	341 (4.4)	561 (7.7)	466 (3.3)

Highest quarter 1 exposure is 747 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 467 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 478 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 676 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 591 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=10

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	169028	890 (11.9)	803 (11.1)	854 (11.8)	858 (11.8)	851 (5.8)
African americans	291234	866 (14.4)	777 (10.6)	823 (11.6)	827 (12.3)	823 (6.1)
Hispanics	52390	867 (15.7)	789 (13.0)	832 (12.8)	835 (14.3)	831 (7.0)
Household income lt \$10K	135547	840 (9.1)	754 (8.2)	796 (8.6)	805 (9.0)	799 (4.4)
Household income \$10K-\$25K	150564	884 (11.4)	801 (11.4)	845 (11.9)	851 (11.1)	845 (5.7)
Household income \$25K-\$50K	143606	891 (13.6)	804 (11.8)	857 (12.1)	858 (13.2)	853 (6.3)
Household income \$50K-\$75K	48562	897 (9.7)	812 (10.2)	866 (12.1)	869 (10.0)	861 (5.3)
Household income gt \$75K	30112	884 (10.0)	794 (8.4)	845 (8.2)	853 (9.6)	844 (4.5)
Children, 0 to 17	137542	885 (10.5)	801 (10.4)	858 (11.7)	853 (10.9)	849 (5.4)
Nonworking men, 18 to 44	39549	938 (12.6)	830 (12.0)	885 (10.7)	894 (12.6)	887 (6.0)
Working men, 18 to 44	57256	892 (5.8)	773 (5.0)	806 (5.3)	839 (5.3)	827 (2.7)
Nonworking women, 18 to 44	58778	865 (12.0)	774 (9.0)	822 (9.4)	829 (10.7)	823 (5.2)
Working women, 18 to 44	57151	855 (4.2)	743 (3.8)	794 (4.6)	805 (4.0)	799 (2.1)
Nonworking men, 45 to 64	17557	858 (7.4)	794 (12.0)	851 (12.8)	820 (5.6)	831 (5.0)
Working men, 45 to 64	26668	892 (5.3)	764 (4.1)	786 (3.9)	839 (4.8)	820 (2.3)
Nonworking women, 45 to 64	26318	846 (9.6)	752 (8.0)	803 (9.7)	803 (8.1)	801 (4.4)
Working women, 45 to 64	26503	850 (4.7)	737 (4.5)	773 (4.7)	798 (4.6)	789 (2.3)
Men, 65+	30484	880 (11.8)	805 (10.6)	878 (10.2)	848 (11.9)	853 (5.6)
Women, 65+	37109	841 (10.1)	751 (8.7)	812 (10.1)	801 (9.7)	801 (4.8)
Outdoor workers	12069	973 (5.2)	813 (3.8)	903 (3.2)	890 (4.6)	895 (2.1)
Outdoor children	39636	933 (8.6)	835 (8.7)	890 (10.4)	900 (8.4)	889 (4.5)
Heart and respiratory	74601	836 (8.2)	763 (9.4)	816 (12.5)	804 (8.9)	805 (5.0)
All persons	514903	899 (13.0)	803 (11.3)	852 (11.9)	862 (12.3)	854 (6.1)

Highest quarter 1 exposure is 973 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 835 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest quarter 3 exposure is 903 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 900 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest annual exposure is 895 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=11

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	163394	641 (8.8)	419 (6.0)	299 (4.1)	471 (6.4)	456 (3.3)
African americans	272733	622 (10.5)	406 (5.8)	290 (4.2)	455 (6.8)	442 (3.6)
Hispanics	7186	622 (11.2)	411 (6.8)	292 (4.5)	458 (7.8)	445 (4.0)
Household income lt \$10K	126788	603 (6.7)	393 (4.3)	279 (2.8)	442 (4.8)	428 (2.4)
Household income \$10K-\$25K	136878	635 (8.5)	418 (6.1)	295 (4.1)	467 (5.9)	453 (3.2)
Household income \$25K-\$50K	123109	641 (10.0)	420 (6.4)	300 (4.2)	471 (7.2)	457 (3.6)
Household income \$50K-\$75K	37044	646 (7.3)	424 (5.6)	302 (4.1)	477 (5.4)	462 (2.8)
Household income gt \$75K	24231	636 (7.4)	414 (4.5)	296 (3.0)	469 (5.4)	453 (2.6)
Children, 0 to 17	103003	637 (7.8)	418 (5.6)	299 (4.0)	468 (5.9)	455 (3.0)
Nonworking men, 18 to 44	41139	671 (8.7)	432 (6.1)	313 (3.8)	490 (6.7)	476 (3.3)
Working men, 18 to 44	54435	681 (4.6)	450 (3.3)	352 (3.1)	522 (3.6)	500 (1.8)
Nonworking women, 18 to 44	56034	622 (8.8)	403 (4.8)	287 (3.2)	455 (5.8)	441 (3.0)
Working women, 18 to 44	52237	645 (3.1)	420 (2.2)	325 (2.3)	489 (2.4)	469 (1.3)
Nonworking men, 45 to 64	15357	618 (5.8)	414 (6.2)	296 (4.2)	450 (3.3)	444 (2.5)
Working men, 45 to 64	20892	686 (4.2)	452 (2.8)	361 (2.6)	530 (3.4)	506 (1.7)
Nonworking women, 45 to 64	22562	608 (7.2)	391 (4.2)	280 (3.2)	440 (4.3)	429 (2.5)
Working women, 45 to 64	20582	639 (3.6)	421 (2.7)	322 (2.5)	485 (2.9)	466 (1.5)
Men, 65+	30252	633 (8.8)	422 (5.8)	307 (3.4)	465 (6.4)	456 (3.2)
Women, 65+	36894	605 (7.8)	393 (5.1)	283 (3.4)	439 (5.4)	429 (2.8)
Outdoor workers	9410	784 (4.8)	524 (3.3)	448 (3.3)	610 (4.3)	591 (2.0)
Outdoor children	29290	673 (6.4)	436 (4.6)	310 (3.5)	494 (4.4)	477 (2.4)
Heart and respiratory	67468	601 (6.3)	399 (5.3)	286 (4.4)	442 (4.9)	431 (2.6)
All persons	453400	647 (9.7)	420 (6.1)	298 (4.1)	473 (6.7)	459 (3.5)

Highest quarter 1 exposure is 784 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 524 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 448 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 610 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 591 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=12

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	178392	733 (10.3)	479 (6.6)	566 (7.3)	595 (8.3)	593 (4.1)
African americans	61639	710 (12.0)	466 (6.5)	549 (7.4)	574 (8.6)	574 (4.4)
Hispanics	4259	710 (12.9)	472 (7.7)	555 (8.2)	579 (10.0)	579 (5.0)
Household income lt \$10K	58859	689 (8.0)	449 (4.5)	532 (5.0)	559 (6.4)	557 (3.0)
Household income \$10K-\$25K	77230	726 (9.7)	478 (6.8)	560 (7.3)	590 (7.7)	588 (4.0)
Household income \$25K-\$50K	81540	733 (11.6)	480 (7.0)	569 (7.5)	596 (9.3)	594 (4.5)
Household income \$50K-\$75K	24011	740 (8.6)	485 (6.0)	574 (7.3)	603 (7.1)	600 (3.6)
Household income gt \$75K	7416	728 (8.8)	475 (5.2)	563 (5.3)	592 (6.9)	589 (3.3)
Children, 0 to 17	60421	728 (9.2)	477 (6.1)	568 (7.1)	592 (7.7)	591 (3.8)
Nonworking men, 18 to 44	17241	769 (10.2)	494 (7.0)	593 (7.1)	620 (8.7)	619 (4.2)
Working men, 18 to 44	31315	756 (5.2)	499 (3.3)	572 (3.5)	616 (4.0)	610 (2.0)
Nonworking women, 18 to 44	29137	711 (10.1)	461 (5.2)	547 (5.6)	575 (7.5)	573 (3.7)
Working women, 18 to 44	24323	720 (3.7)	471 (2.3)	553 (2.8)	584 (2.8)	582 (1.5)
Nonworking men, 45 to 64	8484	705 (6.5)	472 (7.0)	563 (8.4)	569 (4.0)	577 (3.3)
Working men, 45 to 64	13960	760 (4.8)	499 (2.8)	569 (2.7)	620 (3.7)	611 (1.8)
Nonworking women, 45 to 64	14201	694 (8.3)	448 (4.5)	534 (5.7)	557 (5.7)	557 (3.1)
Working women, 45 to 64	11603	714 (4.1)	469 (2.7)	542 (2.8)	579 (3.4)	575 (1.7)
Men, 65+	18548	723 (10.2)	480 (6.1)	579 (5.9)	590 (8.4)	593 (3.9)
Women, 65+	21483	689 (8.9)	449 (5.4)	540 (5.9)	555 (7.0)	558 (3.5)
Outdoor workers	6768	849 (4.9)	563 (3.0)	657 (2.6)	687 (3.8)	689 (1.8)
Outdoor children	16994	772 (7.5)	497 (5.0)	587 (6.2)	625 (5.9)	620 (3.1)
Heart and respiratory	38367	686 (7.4)	456 (5.6)	543 (7.6)	558 (6.3)	560 (3.4)
All persons	250720	740 (11.1)	480 (6.7)	566 (7.3)	599 (8.7)	596 (4.3)

Highest quarter 1 exposure is 849 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 563 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 657 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 687 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 689 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Philadelphia: Air District=13

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	49491	924 (13.6)	788 (12.0)	939 (13.4)	811 (11.9)	865 (6.4)
African americans	21381	892 (15.2)	762 (11.2)	907 (12.9)	779 (11.8)	835 (6.4)
Hispanics	12241	891 (16.3)	771 (13.1)	916 (14.1)	786 (13.7)	841 (7.2)
Household income lt \$10K	27200	868 (11.1)	738 (9.1)	878 (10.0)	761 (9.6)	811 (5.0)
Household income \$10K-\$25K	21598	915 (12.9)	785 (12.1)	930 (13.4)	803 (11.0)	858 (6.2)
Household income \$25K-\$50K	20197	924 (15.4)	790 (12.6)	943 (13.6)	812 (13.3)	867 (6.9)
Household income \$50K-\$75K	7092	931 (11.2)	798 (11.1)	951 (13.5)	820 (10.1)	875 (5.8)
Household income gt \$75K	4982	918 (11.5)	776 (8.9)	923 (9.1)	805 (9.8)	855 (4.9)
Children, 0 to 17	17883	920 (12.4)	787 (11.2)	944 (13.2)	807 (11.2)	864 (6.0)
Nonworking men, 18 to 44	9044	971 (13.1)	812 (11.7)	981 (11.8)	846 (11.9)	902 (6.1)
Working men, 18 to 44	12430	912 (6.4)	736 (5.3)	858 (6.1)	791 (5.3)	824 (2.9)
Nonworking women, 18 to 44	10353	895 (13.3)	756 (9.6)	901 (10.5)	782 (10.7)	834 (5.5)
Working women, 18 to 44	10636	875 (5.0)	710 (4.4)	855 (5.7)	756 (4.1)	799 (2.4)
Nonworking men, 45 to 64	2778	885 (7.5)	781 (12.2)	938 (14.6)	776 (5.5)	845 (5.3)
Working men, 45 to 64	4073	912 (6.0)	725 (4.4)	827 (4.4)	791 (4.8)	814 (2.5)
Nonworking women, 45 to 64	3716	873 (11.1)	733 (8.5)	880 (10.7)	756 (8.4)	810 (4.9)
Working women, 45 to 64	3440	871 (5.3)	708 (5.2)	834 (5.5)	752 (4.7)	791 (2.6)
Men, 65+	4489	913 (13.7)	794 (11.8)	971 (11.9)	806 (12.4)	871 (6.2)
Women, 65+	4944	865 (11.1)	735 (9.8)	893 (10.8)	753 (9.5)	811 (5.2)
Outdoor workers	1776	986 (5.3)	765 (3.7)	938 (3.4)	840 (4.2)	882 (2.1)
Outdoor children	5071	979 (10.5)	826 (9.6)	980 (11.7)	857 (8.9)	910 (5.1)
Heart and respiratory	11537	861 (9.5)	747 (10.5)	896 (13.4)	758 (9.0)	816 (5.4)
All persons	83786	933 (14.7)	790 (12.2)	937 (13.5)	816 (12.4)	869 (6.6)

Highest quarter 1 exposure is 986 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 826 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest quarter 3 exposure is 981 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44
 Highest quarter 4 exposure is 857 $\mu\text{g}/\text{m}^3$ for Outdoor children
 Highest annual exposure is 910 $\mu\text{g}/\text{m}^3$ for Outdoor children

Philadelphia: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	1713222	627 (8.5)	405 (5.6)	469 (6.2)	529 (7.2)	507 (3.5)
African americans	94753	609 (10.2)	392 (5.5)	454 (6.2)	511 (7.6)	491 (3.8)
Hispanics	30133	609 (10.9)	397 (6.5)	458 (6.8)	515 (8.8)	495 (4.2)
Household income lt \$10K	128154	590 (6.5)	380 (4.0)	439 (4.4)	497 (5.5)	476 (2.6)
Household income \$10K-\$25K	376755	621 (8.1)	404 (5.8)	464 (6.2)	525 (6.7)	503 (3.4)
Household income \$25K-\$50K	669026	627 (9.6)	406 (6.0)	471 (6.4)	530 (8.1)	508 (3.8)
Household income \$50K-\$75K	361117	632 (7.0)	410 (5.2)	475 (6.3)	536 (6.1)	513 (3.1)
Household income gt \$75K	263319	625 (7.3)	400 (4.3)	465 (4.4)	527 (6.0)	504 (2.8)
Children, 0 to 17	449291	623 (7.5)	404 (5.3)	470 (6.1)	526 (6.7)	505 (3.2)
Nonworking men, 18 to 44	93114	656 (8.5)	418 (5.9)	489 (5.8)	551 (7.6)	528 (3.5)
Working men, 18 to 44	299034	662 (7.2)	424 (4.5)	482 (4.8)	557 (5.8)	531 (2.8)
Nonworking women, 18 to 44	168827	607 (8.4)	390 (4.5)	452 (4.8)	511 (6.5)	490 (3.1)
Working women, 18 to 44	238913	629 (4.9)	399 (3.0)	463 (3.6)	527 (3.9)	504 (2.0)
Nonworking men, 45 to 64	43497	602 (5.2)	400 (6.0)	467 (7.0)	506 (3.5)	493 (2.8)
Working men, 45 to 64	139727	669 (6.8)	425 (3.9)	480 (3.8)	562 (5.4)	534 (2.6)
Nonworking women, 45 to 64	83017	592 (6.6)	378 (3.9)	441 (4.9)	495 (4.9)	476 (2.6)
Working women, 45 to 64	110775	623 (5.7)	398 (3.8)	455 (3.7)	523 (4.8)	499 (2.3)
Men, 65+	110467	616 (8.2)	406 (5.3)	481 (5.2)	523 (7.2)	506 (3.3)
Women, 65+	120584	589 (7.2)	380 (4.6)	446 (5.1)	493 (5.9)	477 (2.9)
Outdoor workers	53486	753 (7.5)	481 (4.3)	565 (3.9)	625 (6.0)	606 (2.8)
Outdoor children	129863	658 (6.1)	421 (4.3)	487 (5.4)	555 (5.1)	530 (2.6)
Heart and respiratory	267573	588 (6.0)	385 (4.9)	449 (6.5)	496 (5.4)	479 (2.9)
All persons	1857247	633 (9.2)	405 (5.8)	468 (6.2)	532 (7.5)	509 (3.6)

Highest quarter 1 exposure is 753 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 481 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 565 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 625 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 606 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Phoenix: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	48748	767 (10.0)	513 (6.2)	464 (5.4)	791 (10.2)	633 (4.1)
African americans	20586	737 (7.8)	495 (5.1)	447 (5.2)	759 (7.8)	609 (3.3)
Hispanics	51523	753 (11.3)	505 (7.5)	453 (6.2)	774 (11.0)	621 (4.6)
Household income lt \$10K	31099	721 (6.2)	486 (3.9)	440 (3.8)	745 (6.7)	598 (2.7)
Household income \$10K-\$25K	35090	768 (10.0)	508 (5.6)	456 (4.9)	792 (10.5)	631 (4.1)
Household income \$25K-\$50K	30382	766 (11.1)	514 (6.9)	466 (5.6)	790 (11.2)	634 (4.5)
Household income \$50K-\$75K	5167	778 (8.3)	519 (5.5)	471 (5.5)	803 (8.8)	642 (3.6)
Household income gt \$75K	1874	770 (8.4)	511 (5.1)	463 (4.0)	796 (8.5)	634 (3.4)
Children, 0 to 17	35269	760 (9.4)	511 (6.1)	467 (5.5)	783 (9.5)	630 (3.9)
Nonworking men, 18 to 44	8146	791 (12.2)	542 (7.8)	490 (5.5)	813 (12.6)	659 (5.0)
Working men, 18 to 44	13740	819 (5.2)	521 (3.1)	489 (3.0)	872 (6.0)	675 (2.3)
Nonworking women, 18 to 44	11372	740 (7.7)	497 (4.7)	451 (4.3)	762 (8.2)	612 (3.2)
Working women, 18 to 44	10440	776 (3.8)	503 (2.4)	472 (2.4)	824 (4.8)	643 (1.8)
Nonworking men, 45 to 64	3113	728 (3.6)	494 (1.7)	451 (2.3)	747 (3.7)	605 (1.5)
Working men, 45 to 64	5185	833 (4.9)	522 (2.7)	490 (2.3)	889 (5.9)	683 (2.1)
Nonworking women, 45 to 64	4386	710 (4.9)	481 (3.4)	439 (4.0)	733 (5.5)	590 (2.3)
Working women, 45 to 64	3928	781 (5.3)	502 (3.2)	465 (2.7)	833 (6.8)	645 (2.4)
Men, 65+	4005	761 (9.4)	522 (5.6)	479 (4.2)	777 (9.2)	634 (3.7)
Women, 65+	4096	709 (6.5)	490 (5.5)	448 (5.1)	725 (5.4)	593 (2.8)
Outdoor workers	4177	903 (5.5)	578 (2.7)	577 (2.6)	985 (7.0)	760 (2.4)
Outdoor children	9737	792 (6.1)	529 (4.3)	483 (4.7)	816 (6.5)	655 (2.7)
Heart and respiratory	13064	725 (6.9)	491 (6.0)	445 (5.8)	747 (7.2)	602 (3.2)
All persons	103678	764 (9.7)	512 (6.1)	463 (5.4)	787 (9.9)	631 (4.0)

Highest quarter 1 exposure is 903 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 578 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 577 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 985 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 760 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Phoenix: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	88831	1307 (16.4)	985 (12.1)	1299 (15.4)	1720 (21.5)	1329 (8.4)
African americans	4745	1264 (13.1)	948 (10.1)	1251 (14.7)	1654 (16.4)	1280 (6.9)
Hispanics	16552	1290 (19.1)	967 (14.3)	1267 (17.3)	1694 (25.7)	1306 (9.8)
Household income lt \$10K	21477	1233 (9.6)	932 (8.6)	1228 (11.1)	1623 (13.6)	1255 (5.5)
Household income \$10K-\$25K	42031	1310 (16.4)	976 (11.1)	1277 (14.0)	1723 (22.0)	1322 (8.2)
Household income \$25K-\$50K	32935	1306 (18.4)	988 (13.4)	1305 (16.1)	1721 (24.3)	1331 (9.3)
Household income \$50K-\$75K	8356	1321 (12.8)	998 (11.1)	1320 (15.8)	1743 (17.7)	1346 (7.3)
Household income gt \$75K	3105	1315 (15.8)	978 (9.5)	1292 (10.8)	1724 (19.2)	1328 (7.2)
Children, 0 to 17	25941	1296 (15.6)	984 (12.0)	1307 (15.8)	1704 (20.2)	1324 (8.1)
Nonworking men, 18 to 44	7315	1349 (20.4)	1038 (14.4)	1376 (15.1)	1784 (28.5)	1388 (10.2)
Working men, 18 to 44	16587	1302 (7.2)	916 (6.0)	1206 (8.1)	1689 (9.4)	1279 (3.9)
Nonworking women, 18 to 44	11069	1260 (12.0)	953 (9.3)	1262 (12.4)	1661 (17.0)	1285 (6.5)
Working women, 18 to 44	13816	1255 (5.3)	902 (5.2)	1210 (7.6)	1634 (7.4)	1251 (3.2)
Nonworking men, 45 to 64	2853	1238 (5.3)	949 (3.3)	1262 (6.5)	1632 (7.3)	1271 (2.9)
Working men, 45 to 64	6460	1317 (6.6)	898 (4.5)	1160 (5.1)	1701 (8.1)	1270 (3.1)
Nonworking women, 45 to 64	4309	1213 (7.2)	922 (7.3)	1228 (11.8)	1596 (10.5)	1241 (4.7)
Working women, 45 to 64	5408	1240 (5.9)	887 (5.6)	1172 (7.0)	1611 (7.9)	1229 (3.4)
Men, 65+	6923	1298 (14.5)	1004 (11.5)	1345 (12.7)	1702 (19.7)	1338 (7.5)
Women, 65+	7265	1214 (10.5)	938 (10.4)	1255 (14.1)	1590 (13.2)	1250 (6.1)
Outdoor workers	3422	1359 (6.5)	958 (3.6)	1336 (3.7)	1741 (7.4)	1349 (2.8)
Outdoor children	6681	1343 (9.4)	1021 (8.8)	1354 (13.3)	1772 (12.8)	1374 (5.7)
Heart and respiratory	15440	1239 (10.5)	940 (11.4)	1244 (16.4)	1627 (14.7)	1264 (6.8)
All persons	107946	1303 (15.9)	983 (12.1)	1296 (15.4)	1715 (21.0)	1325 (8.2)

Highest quarter 1 exposure is 1359 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 1038 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Highest quarter 3 exposure is 1376 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Highest quarter 4 exposure is 1784 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Highest annual exposure is 1388 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Phoenix: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	105816	1045 (12.8)	438 (5.0)	576 (6.3)	1276 (15.3)	834 (5.4)
African americans	10186	1012 (10.0)	424 (4.2)	558 (6.2)	1237 (11.8)	807 (4.3)
Hispanics	51830	1037 (16.0)	432 (6.1)	564 (7.4)	1267 (19.2)	825 (6.7)
Household income lt \$10K	24032	988 (7.1)	417 (3.1)	547 (4.2)	1208 (8.5)	790 (3.1)
Household income \$10K-\$25K	54614	1049 (12.9)	435 (4.7)	566 (5.6)	1281 (15.3)	832 (5.3)
Household income \$25K-\$50K	56154	1045 (14.7)	439 (5.6)	579 (6.7)	1276 (17.6)	835 (6.1)
Household income \$50K-\$75K	10725	1055 (9.8)	443 (4.4)	584 (6.3)	1290 (11.8)	843 (4.3)
Household income gt \$75K	2231	1053 (13.0)	439 (4.6)	578 (5.0)	1283 (15.4)	838 (5.3)
Children, 0 to 17	49705	1035 (12.3)	437 (5.0)	578 (6.6)	1264 (14.6)	829 (5.2)
Nonworking men, 18 to 44	8831	1086 (17.5)	461 (6.4)	612 (6.8)	1325 (21.3)	871 (7.3)
Working men, 18 to 44	24025	1092 (6.5)	485 (3.9)	618 (4.4)	1310 (7.7)	876 (2.9)
Nonworking women, 18 to 44	14612	1010 (9.2)	426 (3.7)	561 (5.0)	1234 (11.5)	808 (4.0)
Working women, 18 to 44	18568	1042 (4.5)	458 (2.9)	593 (3.5)	1259 (5.7)	838 (2.1)
Nonworking men, 45 to 64	3112	992 (4.0)	421 (1.4)	559 (2.7)	1212 (5.3)	796 (1.8)
Working men, 45 to 64	8051	1107 (6.2)	494 (3.8)	626 (3.8)	1326 (7.0)	888 (2.7)
Nonworking women, 45 to 64	5121	973 (5.5)	412 (2.6)	546 (4.2)	1190 (6.6)	780 (2.5)
Working women, 45 to 64	6207	1037 (5.7)	456 (3.4)	587 (4.3)	1250 (7.4)	833 (2.7)
Men, 65+	4708	1040 (11.1)	443 (4.2)	592 (4.7)	1266 (13.0)	835 (4.6)
Women, 65+	4814	975 (8.1)	417 (4.1)	556 (5.7)	1192 (9.9)	785 (3.7)
Outdoor workers	5689	1178 (6.9)	558 (4.9)	724 (4.7)	1414 (7.7)	968 (3.1)
Outdoor children	14149	1070 (7.0)	451 (3.5)	596 (5.4)	1306 (8.2)	856 (3.1)
Heart and respiratory	17944	993 (7.8)	420 (4.5)	555 (7.0)	1214 (9.6)	795 (3.7)
All persons	147755	1042 (12.5)	437 (4.9)	575 (6.3)	1273 (14.9)	832 (5.3)

Highest quarter 1 exposure is 1178 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 558 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 724 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1414 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 968 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Phoenix: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	210759	994 (13.1)	518 (6.2)	476 (5.5)	1159 (15.1)	786 (5.4)
African americans	3298	968 (12.0)	499 (5.3)	459 (5.4)	1117 (13.2)	760 (4.8)
Hispanics	16066	979 (14.0)	509 (7.4)	464 (6.3)	1135 (16.5)	771 (5.9)
Household income lt \$10K	30098	934 (7.8)	491 (4.1)	451 (3.8)	1088 (10.1)	741 (3.5)
Household income \$10K-\$25K	70795	993 (12.3)	515 (6.2)	467 (5.0)	1156 (14.8)	782 (5.2)
Household income \$25K-\$50K	72511	992 (14.4)	519 (6.8)	478 (5.7)	1159 (16.6)	786 (5.9)
Household income \$50K-\$75K	26567	1008 (10.5)	523 (5.7)	483 (5.6)	1179 (12.8)	798 (4.6)
Household income gt \$75K	23192	1001 (12.0)	519 (5.4)	478 (4.2)	1161 (13.1)	789 (4.8)
Children, 0 to 17	49886	988 (12.5)	516 (6.2)	478 (5.6)	1152 (14.3)	783 (5.2)
Nonworking men, 18 to 44	12030	1008 (13.2)	543 (7.8)	499 (5.7)	1182 (16.7)	808 (5.8)
Working men, 18 to 44	37322	1009 (7.1)	542 (3.8)	511 (3.6)	1177 (8.2)	809 (3.0)
Nonworking women, 18 to 44	20669	955 (9.7)	503 (4.9)	463 (4.4)	1112 (11.9)	758 (4.2)
Working women, 18 to 44	31524	966 (4.8)	520 (2.8)	490 (2.8)	1125 (5.9)	775 (2.2)
Nonworking men, 45 to 64	5661	938 (4.8)	499 (2.0)	460 (2.3)	1096 (5.5)	748 (2.0)
Working men, 45 to 64	17297	1031 (7.3)	546 (3.2)	518 (2.8)	1197 (8.2)	822 (2.9)
Nonworking women, 45 to 64	10011	916 (5.6)	485 (3.4)	450 (3.8)	1069 (7.6)	730 (2.7)
Working women, 45 to 64	14233	966 (6.5)	513 (3.3)	481 (3.1)	1127 (8.0)	771 (2.8)
Men, 65+	13154	987 (12.1)	524 (5.3)	488 (3.9)	1142 (14.2)	785 (5.0)
Women, 65+	14198	922 (9.7)	492 (5.5)	458 (5.5)	1069 (10.6)	735 (4.1)
Outdoor workers	6509	1090 (7.9)	607 (3.7)	605 (3.4)	1270 (8.6)	893 (3.2)
Outdoor children	14214	1030 (7.8)	533 (4.9)	494 (4.9)	1205 (9.4)	815 (3.5)
Heart and respiratory	32431	944 (9.3)	494 (5.7)	457 (5.9)	1097 (11.6)	748 (4.3)
All persons	225975	992 (12.8)	516 (6.2)	475 (5.4)	1156 (14.8)	784 (5.3)

Highest quarter 1 exposure is 1090 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 607 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 605 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1270 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 893 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Phoenix: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	247772	746 (10.0)	332 (4.1)	555 (6.5)	680 (8.9)	578 (3.9)
African americans	6380	719 (8.3)	320 (3.6)	534 (6.3)	653 (7.0)	556 (3.3)
Hispanics	34410	734 (11.3)	325 (4.6)	540 (7.3)	668 (10.1)	566 (4.4)
Household income lt \$10K	31165	699 (6.2)	313 (2.6)	523 (4.4)	639 (5.7)	543 (2.5)
Household income \$10K-\$25K	77942	745 (9.4)	328 (3.8)	544 (6.0)	680 (8.7)	574 (3.7)
Household income \$25K-\$50K	115434	745 (11.1)	332 (4.5)	557 (6.9)	680 (9.9)	579 (4.2)
Household income \$50K-\$75K	40121	756 (8.2)	335 (3.6)	563 (6.5)	691 (7.5)	586 (3.4)
Household income gt \$75K	13330	744 (8.5)	331 (3.4)	554 (4.7)	678 (7.2)	576 (3.1)
Children, 0 to 17	76917	740 (9.3)	331 (4.0)	557 (6.7)	675 (8.3)	575 (3.7)
Nonworking men, 18 to 44	13358	766 (11.5)	348 (4.6)	588 (6.4)	702 (10.9)	601 (4.4)
Working men, 18 to 44	45559	803 (6.4)	369 (3.0)	572 (4.0)	772 (6.7)	629 (2.6)
Nonworking women, 18 to 44	23375	719 (7.8)	320 (3.1)	538 (5.2)	656 (7.2)	558 (3.0)
Working women, 18 to 44	37163	754 (4.1)	348 (2.2)	557 (3.3)	717 (4.6)	594 (1.8)
Nonworking men, 45 to 64	5904	707 (3.2)	317 (1.2)	538 (2.7)	647 (3.1)	552 (1.3)
Working men, 45 to 64	17234	820 (6.7)	377 (3.0)	572 (3.2)	788 (6.8)	639 (2.6)
Nonworking women, 45 to 64	10276	688 (4.7)	309 (2.1)	523 (4.6)	629 (4.5)	537 (2.1)
Working women, 45 to 64	14086	762 (6.0)	349 (3.0)	547 (3.6)	730 (6.6)	597 (2.5)
Men, 65+	15963	744 (9.7)	337 (3.6)	575 (5.2)	675 (8.7)	583 (3.6)
Women, 65+	19934	695 (8.5)	315 (3.6)	536 (6.1)	633 (7.0)	545 (3.3)
Outdoor workers	8363	900 (7.6)	432 (3.5)	669 (3.3)	898 (8.1)	725 (3.0)
Outdoor children	22444	773 (6.0)	342 (2.9)	576 (5.6)	704 (5.5)	599 (2.6)
Heart and respiratory	40005	705 (7.6)	318 (3.9)	533 (7.5)	643 (6.9)	550 (3.3)
All persons	279769	744 (9.9)	331 (4.1)	553 (6.5)	679 (8.8)	577 (3.8)

Highest quarter 1 exposure is 900 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 432 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 669 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 898 µg/m3 for Outdoor workers
 Highest annual exposure is 725 µg/m3 for Outdoor workers

Phoenix: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	135687	598 (8.2)	403 (5.1)	335 (4.0)	581 (8.0)	479 (3.3)
African americans	1160	578 (7.6)	387 (4.3)	322 (3.8)	560 (7.3)	461 (3.0)
Hispanics	4909	587 (9.1)	395 (5.8)	326 (4.3)	569 (8.8)	469 (3.6)
Household income lt \$10K	9964	561 (5.8)	382 (3.8)	316 (2.9)	545 (5.9)	450 (2.4)
Household income \$10K-\$25K	27575	594 (7.6)	400 (4.8)	329 (3.7)	577 (7.7)	474 (3.1)
Household income \$25K-\$50K	43976	598 (9.1)	405 (5.6)	337 (4.2)	581 (8.7)	480 (3.6)
Household income \$50K-\$75K	24067	608 (6.9)	409 (4.8)	341 (4.2)	591 (6.9)	487 (2.9)
Household income gt \$75K	27227	599 (7.3)	401 (3.8)	333 (2.7)	580 (7.2)	478 (2.8)
Children, 0 to 17	34966	595 (7.8)	403 (5.1)	338 (4.1)	578 (7.6)	478 (3.2)
Nonworking men, 18 to 44	5948	609 (8.5)	423 (5.8)	354 (3.7)	592 (8.5)	494 (3.5)
Working men, 18 to 44	23837	667 (6.5)	423 (3.2)	355 (2.6)	663 (6.9)	527 (2.6)
Nonworking women, 18 to 44	12616	573 (6.4)	390 (4.0)	325 (3.2)	556 (6.4)	461 (2.6)
Working women, 18 to 44	18970	619 (4.2)	404 (2.4)	343 (2.1)	614 (4.7)	494 (1.8)
Nonworking men, 45 to 64	3243	564 (2.6)	389 (1.5)	324 (1.7)	548 (2.9)	456 (1.1)
Working men, 45 to 64	11706	685 (7.1)	425 (2.9)	358 (2.1)	680 (7.2)	536 (2.7)
Nonworking women, 45 to 64	6806	548 (3.9)	377 (3.3)	316 (3.2)	532 (4.1)	443 (1.8)
Working women, 45 to 64	9095	630 (6.0)	403 (3.3)	338 (2.5)	624 (6.6)	498 (2.5)
Men, 65+	6378	594 (8.0)	410 (4.9)	347 (3.4)	573 (7.6)	481 (3.1)
Women, 65+	6936	550 (6.2)	383 (4.4)	325 (3.7)	530 (5.4)	446 (2.5)
Outdoor workers	2950	763 (8.3)	481 (3.1)	424 (2.2)	778 (8.5)	611 (3.1)
Outdoor children	10294	626 (5.2)	420 (3.9)	350 (3.5)	608 (5.2)	500 (2.3)
Heart and respiratory	19204	564 (6.3)	384 (4.8)	321 (4.3)	547 (6.2)	454 (2.7)
All persons	140501	597 (8.1)	403 (5.1)	335 (4.0)	580 (7.9)	478 (3.3)

Highest quarter 1 exposure is 763 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 481 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 424 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 778 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 611 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Phoenix: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	107602	842 (10.7)	525 (6.1)	581 (6.6)	1233 (15.3)	796 (5.2)
African americans	8656	808 (7.6)	507 (5.2)	562 (6.7)	1182 (10.8)	765 (3.9)
Hispanics	44230	832 (13.5)	519 (7.9)	570 (8.0)	1215 (18.6)	784 (6.4)
Household income lt \$10K	37715	795 (6.3)	500 (3.9)	552 (4.7)	1165 (9.3)	753 (3.2)
Household income \$10K-\$25K	53731	846 (11.1)	522 (6.0)	571 (6.1)	1238 (16.2)	795 (5.4)
Household income \$25K-\$50K	35000	843 (12.2)	527 (6.8)	584 (6.9)	1233 (17.4)	797 (5.8)
Household income \$50K-\$75K	8815	852 (8.7)	531 (5.4)	590 (6.7)	1248 (12.7)	806 (4.4)
Household income gt \$75K	4136	843 (9.6)	527 (5.6)	583 (5.2)	1236 (13.5)	798 (4.6)
Children, 0 to 17	34552	833 (10.0)	523 (6.0)	584 (6.8)	1219 (14.2)	790 (4.9)
Nonworking men, 18 to 44	12634	881 (15.2)	556 (8.3)	613 (7.1)	1286 (21.6)	834 (7.2)
Working men, 18 to 44	21763	909 (6.1)	556 (3.4)	603 (3.7)	1282 (7.7)	838 (2.8)
Nonworking women, 18 to 44	15891	815 (8.2)	512 (4.7)	567 (5.4)	1192 (12.2)	772 (4.1)
Working women, 18 to 44	16546	859 (4.2)	531 (2.5)	584 (3.0)	1227 (5.9)	800 (2.1)
Nonworking men, 45 to 64	3772	801 (3.4)	506 (1.7)	564 (2.8)	1171 (5.2)	761 (1.8)
Working men, 45 to 64	7482	922 (5.8)	559 (2.9)	602 (2.8)	1295 (6.9)	845 (2.5)
Nonworking women, 45 to 64	5382	785 (5.2)	494 (3.3)	551 (4.6)	1149 (7.7)	745 (2.7)
Working women, 45 to 64	5854	860 (5.5)	526 (3.0)	573 (3.1)	1219 (7.0)	795 (2.5)
Men, 65+	9392	840 (10.1)	531 (5.1)	597 (4.9)	1220 (13.9)	798 (4.7)
Women, 65+	9633	785 (7.3)	500 (4.9)	561 (6.3)	1142 (8.6)	747 (3.5)
Outdoor workers	5030	1003 (6.7)	620 (3.4)	699 (3.1)	1381 (7.4)	926 (2.7)
Outdoor children	8735	864 (6.2)	540 (4.5)	604 (5.9)	1264 (9.0)	819 (3.3)
Heart and respiratory	20420	796 (7.0)	502 (5.3)	558 (7.0)	1167 (10.0)	756 (3.8)
All persons	142901	840 (10.5)	524 (6.0)	580 (6.6)	1228 (14.9)	793 (5.1)

Highest quarter 1 exposure is 1003 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 620 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 699 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1381 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 926 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Phoenix: Air District=8

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	193915	924 (12.0)	479 (5.9)	426 (5.1)	879 (11.8)	676 (4.6)
African americans	4616	886 (9.4)	460 (5.0)	411 (5.1)	838 (9.2)	648 (3.7)
Hispanics	22479	906 (13.6)	472 (7.4)	416 (5.9)	858 (13.0)	662 (5.3)
Household income lt \$10K	39956	870 (8.0)	456 (4.1)	404 (3.8)	828 (8.5)	639 (3.2)
Household income \$10K-\$25K	70286	924 (12.2)	477 (6.0)	419 (4.8)	878 (12.2)	674 (4.7)
Household income \$25K-\$50K	66619	924 (13.4)	481 (6.4)	428 (5.3)	880 (12.9)	677 (5.1)
Household income \$50K-\$75K	23057	937 (10.2)	485 (5.6)	434 (5.5)	895 (10.6)	687 (4.2)
Household income gt \$75K	16342	928 (10.1)	480 (5.0)	427 (3.8)	884 (9.9)	679 (3.9)
Children, 0 to 17	40545	916 (11.4)	478 (5.8)	430 (5.3)	871 (11.1)	673 (4.4)
Nonworking men, 18 to 44	15207	954 (14.9)	503 (7.9)	445 (5.4)	907 (14.9)	701 (5.8)
Working men, 18 to 44	40172	964 (7.5)	506 (4.0)	451 (3.6)	942 (7.5)	715 (3.0)
Nonworking women, 18 to 44	22118	890 (9.4)	467 (4.8)	415 (4.2)	845 (9.6)	654 (3.7)
Working women, 18 to 44	32540	918 (5.6)	484 (3.0)	434 (2.7)	894 (6.0)	682 (2.3)
Nonworking men, 45 to 64	4984	875 (4.2)	462 (2.0)	413 (2.2)	829 (4.4)	644 (1.7)
Working men, 45 to 64	13703	977 (6.9)	507 (3.1)	453 (2.6)	958 (7.2)	723 (2.7)
Nonworking women, 45 to 64	8576	856 (6.2)	450 (3.6)	403 (3.9)	815 (7.0)	630 (2.7)
Working women, 45 to 64	11372	917 (7.1)	477 (3.4)	424 (2.9)	898 (7.5)	678 (2.8)
Men, 65+	13041	914 (11.5)	484 (5.1)	437 (3.8)	860 (10.6)	673 (4.2)
Women, 65+	14545	849 (7.0)	453 (5.0)	411 (5.4)	799 (6.0)	627 (2.9)
Outdoor workers	5971	1041 (7.5)	567 (3.6)	535 (3.1)	1035 (7.5)	794 (2.9)
Outdoor children	11612	957 (7.7)	495 (4.8)	445 (4.8)	911 (8.1)	701 (3.3)
Heart and respiratory	30971	871 (8.4)	456 (5.1)	407 (5.4)	827 (8.8)	640 (3.6)
All persons	216803	920 (11.7)	478 (5.8)	425 (5.1)	875 (11.5)	674 (4.5)

Highest quarter 1 exposure is 1041 µg/m3 for Outdoor workers

Highest quarter 2 exposure is 567 µg/m3 for Outdoor workers

Highest quarter 3 exposure is 535 µg/m3 for Outdoor workers

Highest quarter 4 exposure is 1035 µg/m3 for Outdoor workers

Highest annual exposure is 794 µg/m3 for Outdoor workers

Phoenix: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	654729	902 (11.5)	524 (6.3)	589 (6.8)	1040 (13.1)	764 (4.9)
African americans	14391	871 (9.4)	505 (5.3)	568 (6.6)	1000 (10.4)	736 (4.1)
Hispanics	94521	889 (13.4)	515 (7.6)	575 (7.8)	1023 (15.2)	750 (5.8)
Household income lt \$10K	95295	850 (7.0)	497 (4.2)	558 (4.8)	980 (8.5)	721 (3.2)
Household income \$10K-\$25K	221100	903 (11.4)	520 (6.0)	579 (6.2)	1041 (13.3)	760 (4.9)
Household income \$25K-\$50K	274272	902 (12.9)	525 (6.9)	592 (7.1)	1040 (14.7)	765 (5.5)
Household income \$50K-\$75K	102469	914 (9.3)	530 (5.6)	598 (7.0)	1055 (10.9)	774 (4.2)
Household income gt \$75K	52033	906 (10.4)	523 (5.2)	588 (5.0)	1043 (11.6)	765 (4.3)
Children, 0 to 17	205547	895 (10.9)	523 (6.2)	592 (7.0)	1031 (12.3)	760 (4.7)
Nonworking men, 18 to 44	36133	930 (14.1)	552 (7.8)	622 (6.9)	1074 (16.7)	794 (6.1)
Working men, 18 to 44	120202	936 (8.0)	534 (4.4)	593 (4.9)	1069 (8.9)	783 (3.4)
Nonworking women, 18 to 44	63404	870 (8.7)	508 (4.8)	573 (5.5)	1003 (10.4)	738 (3.8)
Working women, 18 to 44	93578	892 (5.6)	515 (3.3)	580 (3.9)	1023 (6.6)	752 (2.5)
Nonworking men, 45 to 64	19783	855 (3.8)	505 (1.8)	571 (2.8)	986 (4.5)	729 (1.7)
Working men, 45 to 64	40746	950 (7.7)	534 (3.8)	587 (3.6)	1083 (8.4)	788 (3.1)
Nonworking women, 45 to 64	31320	836 (5.3)	491 (3.6)	557 (5.0)	964 (6.6)	712 (2.6)
Working women, 45 to 64	31811	891 (7.5)	510 (4.0)	568 (4.0)	1020 (8.6)	747 (3.2)
Men, 65+	50697	897 (10.7)	532 (5.6)	607 (5.3)	1027 (12.0)	766 (4.5)
Women, 65+	58819	837 (7.9)	498 (5.3)	569 (6.4)	960 (8.2)	716 (3.5)
Outdoor workers	23035	1016 (8.2)	590 (3.9)	682 (3.6)	1155 (8.6)	861 (3.2)
Outdoor children	57693	931 (6.8)	541 (4.6)	613 (5.9)	1074 (7.9)	790 (3.2)
Heart and respiratory	109938	854 (7.9)	501 (5.8)	565 (7.4)	984 (9.3)	726 (3.8)
All persons	752039	900 (11.3)	523 (6.2)	588 (6.8)	1037 (12.8)	762 (4.8)

Highest quarter 1 exposure is 1016 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 590 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 682 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1155 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 861 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	62492	541 (7.2)	287 (4.1)	325 (4.7)	683 (8.9)	459 (3.3)
African americans	936	524 (7.6)	278 (3.7)	318 (4.8)	663 (8.6)	446 (3.3)
Hispanics	6534	529 (8.6)	281 (4.3)	320 (5.1)	671 (10.4)	450 (3.8)
Household income lt \$10K	5083	508 (5.1)	268 (2.8)	301 (3.0)	643 (6.1)	430 (2.3)
Household income \$10K-\$25K	12533	537 (6.8)	287 (4.4)	328 (5.7)	680 (8.6)	458 (3.3)
Household income \$25K-\$50K	24308	541 (8.0)	287 (4.2)	325 (4.6)	683 (9.9)	459 (3.5)
Household income \$50K-\$75K	16139	548 (6.0)	290 (3.7)	327 (4.6)	694 (7.4)	465 (2.8)
Household income gt \$75K	11397	543 (6.4)	284 (3.1)	321 (3.6)	685 (7.9)	458 (2.8)
Children, 0 to 17	18302	538 (6.7)	286 (3.8)	324 (4.2)	679 (8.3)	457 (3.0)
Nonworking men, 18 to 44	2857	557 (7.4)	290 (4.0)	322 (4.4)	702 (9.9)	468 (3.4)
Working men, 18 to 44	13391	592 (6.3)	330 (4.4)	370 (5.2)	752 (7.7)	511 (3.0)
Nonworking women, 18 to 44	6033	520 (6.1)	274 (3.0)	310 (3.3)	658 (7.4)	440 (2.7)
Working women, 18 to 44	10640	557 (4.2)	303 (2.8)	337 (3.2)	707 (5.3)	476 (2.0)
Nonworking men, 45 to 64	1151	514 (3.2)	283 (4.3)	335 (7.6)	648 (3.8)	445 (2.5)
Working men, 45 to 64	5232	604 (6.2)	334 (3.8)	369 (4.0)	767 (7.7)	519 (2.8)
Nonworking women, 45 to 64	2404	502 (4.1)	266 (2.5)	305 (3.6)	631 (4.6)	426 (1.9)
Working women, 45 to 64	4188	555 (5.4)	306 (3.4)	342 (3.5)	706 (6.9)	477 (2.5)
Men, 65+	2579	532 (6.7)	285 (3.7)	320 (3.7)	672 (8.1)	452 (2.9)
Women, 65+	2690	501 (5.3)	265 (3.0)	299 (3.1)	629 (5.9)	423 (2.3)
Outdoor workers	2369	679 (7.5)	393 (4.7)	451 (4.5)	856 (9.2)	595 (3.4)
Outdoor children	5148	565 (4.7)	298 (3.1)	333 (4.0)	711 (5.6)	477 (2.2)
Heart and respiratory	8945	509 (5.3)	273 (3.2)	312 (3.6)	646 (6.5)	435 (2.4)
All persons	69467	542 (7.3)	287 (4.1)	325 (4.7)	683 (8.8)	459 (3.3)

Highest quarter 1 exposure is 679 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 393 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 451 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 856 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 595 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	238158	562 (7.9)	370 (6.1)	399 (6.5)	857 (11.2)	547 (4.1)
African americans	160757	541 (7.9)	355 (5.3)	389 (6.3)	826 (10.0)	528 (3.8)
Hispanics	60688	548 (9.4)	361 (6.3)	391 (6.6)	843 (13.7)	536 (4.7)
Household income lt \$10K	113037	527 (5.9)	344 (4.7)	368 (4.6)	807 (7.6)	512 (2.9)
Household income \$10K-\$25K	143750	557 (7.3)	369 (6.4)	403 (7.8)	855 (10.9)	547 (4.1)
Household income \$25K-\$50K	142284	562 (8.8)	371 (6.3)	399 (6.3)	858 (12.6)	548 (4.4)
Household income \$50K-\$75K	59396	570 (6.7)	376 (5.9)	402 (6.5)	870 (9.4)	555 (3.6)
Household income gt \$75K	52955	560 (6.5)	362 (4.4)	393 (5.0)	851 (9.4)	542 (3.3)
Children, 0 to 17	113174	559 (7.3)	370 (5.8)	400 (6.1)	850 (10.3)	545 (3.8)
Nonworking men, 18 to 44	42705	582 (8.3)	375 (5.9)	393 (6.0)	892 (13.8)	561 (4.6)
Working men, 18 to 44	86477	616 (6.5)	409 (5.1)	442 (5.6)	907 (8.7)	594 (3.3)
Nonworking women, 18 to 44	58407	542 (6.9)	354 (4.8)	379 (5.0)	828 (9.5)	526 (3.4)
Working women, 18 to 44	71409	576 (4.3)	374 (3.4)	403 (3.8)	857 (5.8)	553 (2.2)
Nonworking men, 45 to 64	13985	536 (3.5)	371 (6.3)	422 (10.2)	818 (4.7)	537 (3.3)
Working men, 45 to 64	27823	625 (6.2)	409 (4.3)	438 (4.3)	917 (8.1)	597 (3.0)
Nonworking women, 45 to 64	20286	522 (5.0)	341 (3.8)	372 (4.8)	795 (6.1)	508 (2.5)
Working women, 45 to 64	24906	573 (5.6)	379 (4.5)	411 (4.4)	852 (7.7)	554 (2.9)
Men, 65+	29788	557 (8.0)	371 (6.2)	395 (5.5)	850 (10.9)	544 (4.0)
Women, 65+	32700	523 (6.7)	343 (5.3)	364 (4.5)	798 (8.9)	508 (3.3)
Outdoor workers	12549	712 (7.1)	487 (5.0)	539 (4.7)	1009 (9.1)	687 (3.4)
Outdoor children	31598	589 (5.4)	389 (5.0)	415 (5.9)	889 (6.9)	571 (2.9)
Heart and respiratory	72950	527 (6.2)	351 (5.4)	381 (5.2)	810 (8.6)	518 (3.2)
All persons	521660	564 (8.2)	370 (6.2)	399 (6.6)	857 (11.3)	548 (4.2)

Highest quarter 1 exposure is 712 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 487 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 539 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1009 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 687 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	164616	582 (7.7)	401 (5.8)	255 (3.8)	824 (11.0)	516 (3.8)
African americans	10317	564 (8.1)	386 (5.0)	250 (3.9)	794 (9.7)	498 (3.5)
Hispanics	41665	570 (9.4)	392 (6.3)	251 (4.1)	810 (13.4)	506 (4.5)
Household income lt \$10K	11377	547 (5.4)	374 (4.1)	236 (2.4)	775 (7.2)	483 (2.6)
Household income \$10K-\$25K	36569	578 (7.2)	401 (6.2)	258 (4.6)	822 (10.4)	515 (3.7)
Household income \$25K-\$50K	90281	582 (8.7)	401 (6.0)	255 (3.7)	825 (12.3)	516 (4.2)
Household income \$50K-\$75K	59816	589 (6.4)	405 (5.3)	257 (3.7)	836 (9.3)	522 (3.3)
Household income gt \$75K	39411	583 (6.7)	395 (4.3)	252 (2.9)	814 (8.7)	511 (3.0)
Children, 0 to 17	63839	579 (7.1)	399 (5.4)	254 (3.4)	817 (9.9)	512 (3.5)
Nonworking men, 18 to 44	11136	602 (8.3)	407 (6.0)	253 (3.6)	857 (13.3)	530 (4.3)
Working men, 18 to 44	47110	633 (6.1)	435 (4.6)	311 (4.6)	878 (8.2)	564 (3.0)
Nonworking women, 18 to 44	20919	561 (6.6)	384 (4.4)	243 (2.7)	796 (9.4)	496 (3.2)
Working women, 18 to 44	37302	595 (3.9)	404 (3.0)	278 (2.9)	825 (5.4)	525 (2.0)
Nonworking men, 45 to 64	4382	555 (3.5)	398 (6.5)	266 (6.3)	791 (5.1)	502 (2.8)
Working men, 45 to 64	17730	643 (5.9)	437 (3.9)	310 (3.4)	888 (7.8)	570 (2.8)
Nonworking women, 45 to 64	8032	541 (4.5)	372 (3.6)	239 (2.8)	766 (6.2)	480 (2.2)
Working women, 45 to 64	14079	592 (5.1)	406 (3.8)	284 (2.9)	826 (7.7)	527 (2.6)
Men, 65+	7854	575 (7.4)	399 (5.5)	252 (3.0)	822 (11.3)	512 (3.7)
Women, 65+	7935	542 (6.2)	371 (4.4)	235 (2.6)	777 (10.6)	481 (3.3)
Outdoor workers	7874	723 (6.9)	499 (4.5)	402 (4.0)	996 (8.9)	655 (3.2)
Outdoor children	17661	607 (5.0)	416 (4.5)	263 (3.3)	854 (6.7)	535 (2.5)
Heart and respiratory	30077	548 (5.7)	381 (4.7)	245 (2.9)	780 (9.1)	489 (3.0)
All persons	240321	583 (7.9)	400 (5.8)	255 (3.8)	825 (11.2)	516 (3.8)

Highest quarter 1 exposure is 723 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 499 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 402 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 996 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 655 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	146377	861 (11.2)	586 (8.1)	651 (9.3)	1125 (14.5)	806 (5.5)
African americans	1773	833 (11.7)	567 (7.2)	637 (9.6)	1087 (13.6)	782 (5.4)
Hispanics	9737	843 (13.9)	577 (9.1)	641 (10.3)	1104 (17.1)	791 (6.5)
Household income lt \$10K	8610	811 (8.0)	550 (5.5)	605 (6.0)	1059 (10.0)	756 (3.8)
Household income \$10K-\$25K	30064	856 (10.7)	587 (8.7)	656 (11.1)	1121 (14.2)	805 (5.7)
Household income \$25K-\$50K	51863	862 (12.7)	587 (8.5)	651 (9.0)	1125 (16.2)	806 (6.0)
Household income \$50K-\$75K	33565	872 (9.2)	592 (7.3)	655 (9.1)	1141 (12.1)	815 (4.8)
Household income gt \$75K	35060	863 (9.7)	580 (6.2)	644 (7.1)	1125 (12.7)	803 (4.6)
Children, 0 to 17	33340	856 (10.4)	584 (7.6)	649 (8.5)	1117 (13.5)	802 (5.1)
Nonworking men, 18 to 44	7413	893 (12.5)	597 (8.8)	645 (8.9)	1160 (16.8)	824 (6.1)
Working men, 18 to 44	25761	891 (8.0)	607 (5.8)	673 (6.9)	1160 (9.9)	833 (3.9)
Nonworking women, 18 to 44	13508	830 (9.7)	563 (6.0)	622 (6.8)	1084 (12.2)	775 (4.5)
Working women, 18 to 44	21646	848 (5.5)	572 (3.9)	630 (4.6)	1106 (6.9)	789 (2.7)
Nonworking men, 45 to 64	4112	821 (4.8)	582 (9.3)	679 (15.9)	1068 (5.8)	788 (5.0)
Working men, 45 to 64	13356	902 (7.7)	607 (4.9)	666 (5.3)	1176 (9.6)	838 (3.6)
Nonworking women, 45 to 64	7663	803 (6.7)	546 (5.1)	613 (7.2)	1041 (7.7)	751 (3.4)
Working women, 45 to 64	11053	842 (6.9)	573 (5.2)	637 (5.7)	1098 (8.9)	788 (3.4)
Men, 65+	11446	849 (10.7)	584 (7.4)	641 (7.3)	1108 (13.4)	796 (5.0)
Women, 65+	14422	802 (8.5)	546 (6.2)	599 (6.0)	1039 (10.0)	747 (3.9)
Outdoor workers	3780	977 (8.1)	672 (5.1)	759 (5.2)	1260 (10.1)	917 (3.7)
Outdoor children	9563	897 (7.4)	606 (6.2)	668 (8.0)	1169 (9.1)	835 (3.9)
Heart and respiratory	25550	811 (8.2)	559 (6.3)	624 (6.9)	1063 (10.8)	764 (4.1)
All persons	163720	863 (11.5)	586 (8.1)	650 (9.3)	1124 (14.5)	806 (5.6)

Highest quarter 1 exposure is 977 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 672 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 759 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1260 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 917 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	99974	735 (10.3)	558 (7.9)	513 (7.4)	689 (9.4)	623 (4.4)
African americans	48960	706 (10.1)	538 (6.8)	501 (7.6)	662 (8.4)	602 (4.1)
Hispanics	23764	715 (12.2)	548 (8.8)	505 (8.1)	674 (11.0)	610 (5.1)
Household income lt \$10K	32796	691 (8.1)	523 (5.6)	476 (4.9)	648 (7.1)	584 (3.3)
Household income \$10K-\$25K	43658	728 (9.6)	559 (8.4)	517 (8.8)	686 (9.0)	622 (4.5)
Household income \$25K-\$50K	56633	736 (11.6)	559 (8.2)	512 (7.2)	690 (10.5)	624 (4.8)
Household income \$50K-\$75K	35014	744 (8.9)	564 (7.3)	516 (7.3)	700 (8.0)	631 (3.9)
Household income gt \$75K	19224	731 (8.4)	551 (5.8)	507 (5.7)	683 (7.5)	617 (3.5)
Children, 0 to 17	46230	731 (9.7)	556 (7.4)	512 (6.8)	685 (8.8)	621 (4.1)
Nonworking men, 18 to 44	13055	763 (11.0)	569 (8.6)	508 (7.1)	715 (10.7)	638 (4.7)
Working men, 18 to 44	25897	769 (7.0)	582 (5.2)	546 (5.2)	752 (6.9)	662 (3.1)
Nonworking women, 18 to 44	19760	708 (9.0)	536 (6.0)	490 (5.5)	665 (8.0)	599 (3.6)
Working women, 18 to 44	22901	725 (4.8)	546 (3.6)	507 (3.5)	703 (4.6)	620 (2.1)
Nonworking men, 45 to 64	5577	701 (4.3)	556 (9.2)	537 (12.8)	657 (3.6)	612 (4.2)
Working men, 45 to 64	11583	776 (6.5)	582 (4.3)	540 (4.0)	762 (6.6)	664 (2.7)
Nonworking women, 45 to 64	8473	684 (6.7)	520 (5.1)	482 (5.8)	637 (5.3)	580 (2.9)
Working women, 45 to 64	10292	721 (6.1)	546 (4.8)	511 (4.3)	704 (6.3)	620 (2.7)
Men, 65+	11809	728 (10.6)	556 (7.5)	506 (6.0)	684 (9.5)	618 (4.3)
Women, 65+	13025	683 (8.3)	519 (6.3)	472 (4.8)	638 (7.1)	578 (3.4)
Outdoor workers	4918	855 (6.9)	651 (4.7)	635 (4.1)	855 (7.8)	749 (3.0)
Outdoor children	12751	772 (7.4)	579 (6.1)	528 (6.5)	721 (6.3)	649 (3.3)
Heart and respiratory	27284	689 (8.1)	531 (6.5)	491 (5.6)	649 (7.5)	590 (3.5)
All persons	188594	737 (10.7)	558 (7.9)	512 (7.4)	690 (9.5)	624 (4.5)

Highest quarter 1 exposure is 855 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 651 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 635 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 855 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 749 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	244111	1165 (16.3)	786 (11.4)	833 (12.6)	948 (12.9)	932 (6.7)
African americans	33034	1118 (15.6)	759 (9.9)	814 (12.5)	910 (11.1)	900 (6.2)
Hispanics	28117	1137 (19.8)	772 (12.6)	820 (13.5)	930 (15.6)	914 (7.8)
Household income lt \$10K	68006	1096 (12.7)	735 (8.2)	772 (8.5)	893 (9.8)	873 (5.0)
Household income \$10K-\$25K	104829	1157 (15.3)	787 (12.2)	840 (15.0)	944 (12.4)	931 (6.9)
Household income \$25K-\$50K	134142	1167 (18.4)	787 (11.9)	832 (12.2)	950 (14.6)	933 (7.2)
Household income \$50K-\$75K	62011	1180 (14.0)	795 (10.6)	838 (12.3)	962 (11.1)	943 (6.0)
Household income gt \$75K	50781	1154 (12.8)	776 (8.6)	823 (9.7)	937 (10.2)	922 (5.2)
Children, 0 to 17	53468	1157 (15.3)	783 (10.7)	832 (11.6)	941 (12.2)	927 (6.3)
Nonworking men, 18 to 44	33086	1219 (18.5)	802 (12.2)	826 (12.1)	991 (15.7)	958 (7.4)
Working men, 18 to 44	79914	1155 (9.5)	790 (6.5)	829 (7.1)	994 (7.6)	941 (3.9)
Nonworking women, 18 to 44	43241	1127 (14.4)	755 (8.7)	795 (9.4)	917 (11.2)	897 (5.6)
Working women, 18 to 44	63888	1102 (7.1)	747 (4.6)	781 (5.2)	936 (5.2)	891 (2.8)
Nonworking men, 45 to 64	13230	1115 (6.8)	781 (13.0)	877 (21.5)	907 (5.0)	919 (6.7)
Working men, 45 to 64	28343	1154 (8.4)	785 (5.3)	815 (5.6)	1000 (7.1)	938 (3.4)
Nonworking women, 45 to 64	17223	1090 (10.9)	730 (7.2)	781 (9.6)	879 (7.5)	869 (4.5)
Working women, 45 to 64	23048	1093 (8.6)	747 (6.1)	791 (6.5)	933 (7.1)	890 (3.6)
Men, 65+	32178	1159 (17.3)	784 (10.9)	823 (10.2)	945 (13.6)	927 (6.6)
Women, 65+	32565	1088 (13.6)	729 (9.1)	765 (8.4)	881 (10.3)	865 (5.3)
Outdoor workers	8714	1232 (8.3)	858 (5.4)	906 (5.0)	1099 (7.7)	1023 (3.4)
Outdoor children	15120	1220 (11.8)	817 (8.9)	860 (11.2)	990 (8.8)	970 (5.1)
Heart and respiratory	64299	1093 (12.9)	747 (9.3)	797 (9.6)	894 (10.3)	882 (5.3)
All persons	420184	1169 (16.9)	785 (11.4)	832 (12.6)	949 (13.1)	933 (6.8)

Highest quarter 1 exposure is 1232 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 858 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 906 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1099 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1023 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	146086	808 (11.1)	724 (10.4)	677 (9.9)	1072 (14.1)	820 (5.8)
African americans	47251	776 (10.8)	698 (9.1)	662 (10.0)	1031 (12.4)	792 (5.3)
Hispanics	77287	788 (13.7)	711 (11.6)	667 (10.8)	1052 (17.2)	805 (6.8)
Household income lt \$10K	45702	760 (8.5)	678 (7.7)	629 (6.8)	1011 (10.4)	770 (4.2)
Household income \$10K-\$25K	72800	802 (10.5)	724 (11.1)	682 (11.8)	1068 (13.7)	820 (5.9)
Household income \$25K-\$50K	100557	809 (12.6)	725 (10.9)	676 (9.6)	1074 (15.9)	821 (6.2)
Household income \$50K-\$75K	53620	818 (9.5)	732 (9.7)	681 (9.7)	1087 (11.9)	830 (5.1)
Household income gt \$75K	37522	802 (8.8)	714 (7.7)	669 (7.6)	1064 (11.4)	813 (4.5)
Children, 0 to 17	67464	803 (10.4)	722 (9.9)	676 (9.2)	1064 (13.3)	817 (5.4)
Nonworking men, 18 to 44	22378	844 (12.9)	738 (11.2)	670 (9.4)	1118 (17.4)	843 (6.5)
Working men, 18 to 44	48971	863 (7.4)	739 (6.0)	710 (6.3)	1109 (7.8)	856 (3.5)
Nonworking women, 18 to 44	31553	780 (9.8)	695 (8.0)	646 (7.4)	1036 (12.1)	790 (4.8)
Working women, 18 to 44	42024	811 (4.9)	696 (4.2)	662 (4.3)	1051 (5.4)	805 (2.4)
Nonworking men, 45 to 64	9298	774 (4.6)	722 (12.1)	712 (17.3)	1025 (5.3)	809 (5.6)
Working men, 45 to 64	19821	870 (6.9)	735 (4.9)	702 (4.8)	1116 (7.1)	856 (3.0)
Nonworking women, 45 to 64	13331	756 (7.4)	672 (6.7)	636 (7.6)	996 (8.0)	765 (3.7)
Working women, 45 to 64	17252	807 (6.4)	697 (5.5)	668 (5.0)	1045 (7.0)	805 (3.0)
Men, 65+	19332	802 (11.6)	722 (10.0)	668 (7.9)	1063 (14.0)	814 (5.6)
Women, 65+	20744	756 (9.3)	672 (8.1)	622 (6.4)	995 (10.3)	762 (4.3)
Outdoor workers	8294	975 (8.2)	810 (5.2)	813 (5.1)	1205 (7.6)	951 (3.3)
Outdoor children	19340	844 (8.0)	753 (8.3)	698 (8.8)	1116 (9.4)	853 (4.3)
Heart and respiratory	45093	759 (8.7)	688 (8.5)	648 (7.5)	1012 (10.9)	777 (4.5)
All persons	312168	810 (11.5)	723 (10.5)	676 (9.9)	1072 (14.2)	821 (5.8)

Highest quarter 1 exposure is 975 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 810 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 813 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1205 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 951 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=8

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	226205	598 (8.5)	549 (7.6)	526 (7.4)	899 (12.6)	644 (4.7)
African americans	19934	578 (9.1)	530 (6.8)	516 (7.8)	865 (11.9)	623 (4.6)
Hispanics	45030	581 (9.8)	540 (8.8)	519 (8.4)	877 (14.1)	630 (5.3)
Household income lt \$10K	24702	558 (6.3)	514 (5.3)	490 (4.8)	842 (9.5)	601 (3.4)
Household income \$10K-\$25K	53364	592 (7.9)	550 (8.2)	531 (8.9)	892 (12.0)	642 (4.7)
Household income \$25K-\$50K	78164	597 (9.5)	550 (8.0)	526 (7.3)	899 (13.8)	644 (5.0)
Household income \$50K-\$75K	53651	607 (7.2)	555 (7.0)	529 (7.2)	916 (11.1)	652 (4.2)
Household income gt \$75K	66413	600 (7.5)	542 (5.8)	521 (5.7)	896 (10.6)	640 (3.8)
Children, 0 to 17	58202	596 (8.0)	547 (7.1)	525 (6.8)	894 (11.8)	641 (4.3)
Nonworking men, 18 to 44	19438	612 (8.0)	560 (8.5)	521 (7.1)	921 (13.1)	654 (4.8)
Working men, 18 to 44	51468	640 (7.4)	574 (6.4)	561 (6.7)	949 (10.3)	682 (3.9)
Nonworking women, 18 to 44	27245	573 (7.3)	527 (5.7)	503 (5.4)	864 (10.8)	617 (3.8)
Working women, 18 to 44	41936	601 (4.9)	539 (4.3)	522 (4.3)	895 (7.0)	640 (2.6)
Nonworking men, 45 to 64	6700	569 (4.0)	547 (8.9)	550 (12.8)	852 (5.2)	630 (4.2)
Working men, 45 to 64	20306	651 (7.4)	574 (5.4)	556 (5.0)	964 (10.1)	687 (3.6)
Nonworking women, 45 to 64	10998	552 (5.0)	512 (4.8)	496 (5.8)	826 (7.1)	597 (2.9)
Working women, 45 to 64	16461	599 (6.4)	541 (5.7)	528 (5.2)	891 (9.3)	640 (3.4)
Men, 65+	16782	588 (8.2)	547 (7.1)	519 (5.8)	884 (12.1)	635 (4.3)
Women, 65+	17349	552 (6.7)	512 (6.0)	485 (4.6)	824 (9.3)	594 (3.4)
Outdoor workers	7864	729 (8.2)	640 (5.7)	645 (5.2)	1060 (11.0)	769 (4.0)
Outdoor children	16560	630 (5.9)	568 (5.8)	540 (6.4)	944 (8.5)	671 (3.4)
Heart and respiratory	40582	561 (6.6)	523 (6.1)	505 (5.5)	845 (10.1)	609 (3.7)
All persons	286885	600 (8.8)	548 (7.6)	526 (7.4)	899 (12.7)	644 (4.7)

Highest quarter 1 exposure is 729 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 640 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 645 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1060 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 769 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=9

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	213374	946 (12.4)	587 (8.5)	647 (9.6)	1496 (19.0)	920 (6.5)
African americans	25343	915 (12.8)	565 (7.3)	633 (9.6)	1442 (16.9)	890 (6.1)
Hispanics	164381	927 (15.7)	576 (9.4)	637 (10.4)	1472 (23.7)	904 (7.9)
Household income lt \$10K	45875	891 (8.9)	549 (6.2)	601 (6.7)	1412 (12.9)	864 (4.5)
Household income \$10K-\$25K	97003	941 (11.9)	587 (9.0)	652 (11.4)	1495 (19.1)	920 (6.7)
Household income \$25K-\$50K	144757	947 (14.1)	587 (8.9)	646 (9.4)	1498 (21.5)	920 (7.2)
Household income \$50K-\$75K	89301	958 (10.3)	593 (7.9)	651 (9.3)	1517 (15.9)	930 (5.6)
Household income gt \$75K	54618	947 (10.7)	578 (6.3)	639 (7.4)	1493 (16.2)	915 (5.4)
Children, 0 to 17	123979	940 (11.5)	585 (8.0)	646 (8.9)	1482 (17.5)	914 (6.1)
Nonworking men, 18 to 44	30641	986 (14.5)	599 (9.0)	640 (9.0)	1561 (24.6)	947 (7.8)
Working men, 18 to 44	83640	968 (8.9)	578 (6.1)	680 (7.4)	1546 (13.2)	944 (4.7)
Nonworking women, 18 to 44	44800	914 (10.9)	563 (6.5)	617 (7.1)	1448 (16.3)	886 (5.5)
Working women, 18 to 44	59140	922 (6.2)	548 (4.6)	633 (4.9)	1474 (9.4)	895 (3.3)
Nonworking men, 45 to 64	8837	902 (5.3)	585 (9.9)	682 (16.9)	1425 (7.5)	900 (5.4)
Working men, 45 to 64	25266	975 (8.2)	575 (5.0)	674 (5.7)	1561 (12.2)	947 (4.2)
Nonworking women, 45 to 64	13565	882 (7.4)	545 (5.4)	607 (7.4)	1391 (10.3)	857 (3.9)
Working women, 45 to 64	18218	915 (7.5)	549 (5.9)	642 (5.7)	1462 (11.7)	893 (4.0)
Men, 65+	13471	935 (11.9)	586 (8.2)	638 (7.7)	1479 (18.0)	910 (6.1)
Women, 65+	12695	880 (9.2)	544 (6.6)	593 (6.0)	1387 (13.0)	852 (4.6)
Outdoor workers	16271	1051 (8.3)	610 (4.9)	769 (5.8)	1672 (12.9)	1026 (4.3)
Outdoor children	34549	986 (8.3)	610 (6.7)	669 (8.6)	1548 (11.9)	954 (4.5)
Heart and respiratory	52377	890 (8.9)	558 (6.9)	618 (7.2)	1414 (13.8)	871 (4.8)
All persons	434252	948 (12.7)	586 (8.5)	646 (9.6)	1495 (19.0)	920 (6.6)

Highest quarter 1 exposure is 1051 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 610 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 769 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1672 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1026 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=10

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	371470	688 (9.1)	207 (3.1)	618 (8.9)	1315 (17.0)	709 (5.4)
African americans	12389	667 (9.7)	202 (3.0)	606 (9.3)	1269 (15.8)	688 (5.3)
Hispanics	56676	673 (11.1)	203 (3.3)	610 (9.9)	1292 (20.5)	696 (6.4)
Household income lt \$10K	34970	646 (6.4)	193 (1.9)	575 (5.6)	1237 (11.6)	664 (3.6)
Household income \$10K-\$25K	81535	684 (8.6)	207 (3.3)	624 (10.7)	1312 (16.9)	708 (5.5)
Household income \$25K-\$50K	158458	688 (10.2)	207 (3.2)	618 (8.7)	1316 (19.1)	709 (5.9)
Household income \$50K-\$75K	101407	697 (7.6)	208 (2.7)	622 (8.6)	1335 (14.4)	717 (4.7)
Household income gt \$75K	89061	691 (8.2)	204 (2.4)	611 (6.8)	1312 (14.7)	706 (4.6)
Children, 0 to 17	96714	684 (8.5)	206 (2.7)	615 (8.0)	1304 (15.7)	704 (5.0)
Nonworking men, 18 to 44	23313	710 (9.7)	208 (2.8)	614 (8.6)	1362 (20.6)	725 (6.1)
Working men, 18 to 44	92738	738 (7.1)	255 (3.8)	650 (7.1)	1365 (12.1)	754 (4.1)
Nonworking women, 18 to 44	42839	662 (7.8)	197 (2.1)	590 (6.4)	1269 (14.6)	681 (4.5)
Working women, 18 to 44	73916	696 (4.7)	230 (2.4)	605 (4.5)	1299 (8.5)	709 (2.7)
Nonworking men, 45 to 64	9248	655 (4.2)	203 (3.0)	644 (14.9)	1250 (7.0)	689 (4.4)
Working men, 45 to 64	36169	751 (6.9)	261 (3.3)	642 (5.3)	1382 (11.6)	760 (3.7)
Nonworking women, 45 to 64	17066	638 (5.2)	190 (1.6)	581 (6.7)	1217 (9.2)	658 (3.2)
Working women, 45 to 64	28893	693 (6.1)	234 (2.8)	613 (5.7)	1291 (11.1)	709 (3.6)
Men, 65+	23118	678 (8.5)	206 (2.7)	610 (7.0)	1297 (16.1)	699 (4.9)
Women, 65+	23786	638 (6.9)	193 (2.5)	570 (5.8)	1217 (12.4)	656 (3.9)
Outdoor workers	13380	835 (7.8)	323 (4.0)	746 (5.4)	1495 (12.3)	851 (4.0)
Outdoor children	25961	718 (5.9)	213 (2.2)	634 (7.7)	1365 (10.6)	734 (3.7)
Heart and respiratory	63807	648 (6.7)	197 (2.4)	593 (6.6)	1241 (12.8)	671 (4.0)
All persons	467801	690 (9.3)	207 (3.1)	618 (8.9)	1314 (17.1)	709 (5.4)

Highest quarter 1 exposure is 835 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 323 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 746 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1495 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 851 $\mu\text{g}/\text{m}^3$ for Outdoor workers

San Francisco: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	1016437	748 (10.1)	506 (7.2)	545 (8.0)	991 (13.0)	698 (4.9)
African americans	89208	722 (10.3)	488 (6.4)	533 (8.1)	955 (11.8)	675 (4.7)
Hispanics	183014	731 (12.3)	496 (8.0)	536 (8.7)	973 (15.6)	684 (5.8)
Household income lt \$10K	109265	703 (7.5)	473 (5.2)	505 (5.3)	933 (9.2)	654 (3.5)
Household income \$10K-\$25K	242949	743 (9.5)	506 (7.7)	549 (9.5)	988 (12.6)	697 (5.0)
Household income \$25K-\$50K	442352	749 (11.4)	506 (7.6)	544 (7.8)	992 (14.6)	698 (5.4)
Household income \$50K-\$75K	296539	758 (8.5)	511 (6.7)	548 (7.8)	1006 (11.0)	706 (4.3)
Household income gt \$75K	282694	747 (8.5)	499 (5.4)	538 (6.1)	986 (10.9)	693 (4.0)
Children, 0 to 17	313080	744 (9.4)	504 (6.8)	543 (7.3)	983 (12.1)	694 (4.6)
Nonworking men, 18 to 44	78898	777 (11.1)	515 (7.7)	539 (7.6)	1028 (15.5)	715 (5.5)
Working men, 18 to 44	239691	787 (6.9)	530 (5.0)	580 (5.7)	1047 (8.6)	737 (3.3)
Nonworking women, 18 to 44	125393	722 (8.8)	485 (5.5)	520 (5.9)	956 (11.1)	671 (4.1)
Working women, 18 to 44	193161	744 (4.6)	496 (3.3)	538 (3.8)	990 (5.8)	692 (2.2)
Nonworking men, 45 to 64	35455	714 (4.4)	503 (8.3)	571 (13.6)	944 (5.2)	683 (4.4)
Working men, 45 to 64	111342	796 (6.5)	530 (4.2)	575 (4.4)	1059 (8.2)	740 (3.0)
Nonworking women, 45 to 64	61293	697 (6.3)	470 (4.6)	511 (6.1)	918 (7.1)	649 (3.1)
Working women, 45 to 64	89109	740 (6.0)	499 (4.4)	545 (4.5)	985 (7.8)	692 (2.9)
Men, 65+	76543	740 (10.0)	504 (6.9)	537 (6.4)	980 (12.7)	691 (4.7)
Women, 65+	80639	696 (8.0)	470 (5.7)	501 (5.2)	918 (9.7)	647 (3.7)
Outdoor workers	40352	878 (7.1)	594 (4.6)	672 (4.5)	1162 (9.0)	827 (3.3)
Outdoor children	88382	783 (6.9)	525 (5.7)	561 (7.0)	1031 (8.3)	725 (3.5)
Heart and respiratory	198237	704 (7.7)	481 (5.9)	522 (6.1)	935 (10.0)	661 (3.8)
All persons	1404609	750 (10.4)	505 (7.3)	544 (8.0)	991 (13.1)	698 (5.0)

Highest quarter 1 exposure is 878 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 594 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 672 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 1162 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 827 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Spokane: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	12149	1091 (16.6)	809 (12.8)	835 (12.2)	936 (14.2)	917 (7.0)
African americans	296	1052 (19.7)	781 (11.9)	809 (12.0)	903 (16.5)	885 (7.7)
Hispanics	290	1038 (19.5)	790 (13.9)	816 (13.0)	894 (16.7)	884 (8.0)
Household income lt \$10K	4737	1022 (13.6)	754 (9.8)	776 (8.9)	877 (11.5)	857 (5.5)
Household income \$10K-\$25K	4938	1076 (15.9)	808 (13.6)	831 (13.1)	925 (13.7)	910 (7.0)
Household income \$25K-\$50K	2660	1091 (18.8)	810 (13.3)	838 (12.2)	937 (16.0)	918 (7.6)
Household income \$50K-\$75K	630	1096 (13.1)	818 (12.0)	845 (12.3)	942 (11.4)	925 (6.1)
Household income gt \$75K	270	1093 (15.1)	796 (9.8)	827 (8.9)	933 (12.4)	911 (5.9)
Children, 0 to 17	2383	1086 (14.9)	807 (12.1)	839 (11.8)	932 (12.7)	915 (6.5)
Nonworking men, 18 to 44	1384	1149 (14.4)	826 (12.6)	855 (11.0)	985 (12.5)	953 (6.3)
Working men, 18 to 44	1811	1203 (11.3)	922 (9.6)	943 (9.6)	1092 (11.6)	1039 (5.3)
Nonworking women, 18 to 44	1909	1059 (17.1)	777 (10.6)	800 (9.5)	909 (14.4)	886 (6.6)
Working women, 18 to 44	1409	1147 (8.5)	847 (6.4)	876 (6.8)	1025 (8.2)	973 (3.8)
Nonworking men, 45 to 64	518	1040 (10.1)	813 (15.6)	846 (16.3)	900 (9.3)	899 (6.6)
Working men, 45 to 64	564	1230 (10.8)	924 (8.2)	948 (7.7)	1118 (10.7)	1054 (4.7)
Nonworking women, 45 to 64	632	1049 (15.9)	751 (9.2)	781 (9.7)	898 (13.4)	869 (6.2)
Working women, 45 to 64	430	1123 (8.6)	844 (7.2)	868 (7.0)	1001 (8.5)	958 (3.9)
Men, 65+	1129	1067 (15.6)	808 (12.4)	851 (10.4)	924 (14.1)	912 (6.6)
Women, 65+	1115	1027 (13.4)	748 (9.9)	783 (9.4)	883 (12.0)	860 (5.6)
Outdoor workers	374	1446 (12.6)	1118 (10.2)	1173 (9.1)	1358 (14.6)	1273 (5.9)
Outdoor children	621	1162 (13.7)	848 (10.8)	871 (10.9)	995 (11.4)	968 (5.9)
Heart and respiratory	2057	1007 (9.5)	764 (10.5)	796 (11.5)	867 (8.9)	858 (5.1)
All persons	13284	1108 (18.3)	811 (13.1)	834 (12.3)	951 (15.7)	925 (7.5)

Highest quarter 1 exposure is 1446 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 1118 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 1173 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1358 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1273 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Spokane: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	106292	956 (13.6)	680 (10.3)	757 (10.6)	943 (13.2)	834 (6.0)
African americans	1102	933 (17.5)	657 (9.6)	732 (10.5)	915 (16.4)	809 (7.0)
Hispanics	1726	920 (17.3)	665 (11.4)	739 (11.6)	907 (16.6)	808 (7.2)
Household income lt \$10K	22032	897 (10.8)	634 (7.7)	704 (7.7)	884 (10.4)	780 (4.6)
Household income \$10K-\$25K	43541	944 (12.9)	681 (11.0)	753 (11.3)	933 (12.7)	828 (6.0)
Household income \$25K-\$50K	33152	957 (15.5)	680 (10.7)	759 (10.5)	943 (15.1)	834 (6.6)
Household income \$50K-\$75K	9705	962 (10.8)	687 (9.7)	766 (10.8)	948 (10.5)	841 (5.2)
Household income gt \$75K	2915	958 (11.8)	670 (7.8)	753 (8.0)	942 (11.6)	831 (5.0)
Children, 0 to 17	29393	950 (11.8)	678 (9.6)	760 (10.3)	938 (11.7)	831 (5.5)
Nonworking men, 18 to 44	7470	1009 (11.7)	695 (10.6)	770 (10.1)	993 (12.0)	867 (5.6)
Working men, 18 to 44	14004	1097 (11.1)	808 (9.5)	887 (10.1)	1094 (11.6)	971 (5.3)
Nonworking women, 18 to 44	11682	931 (14.1)	655 (8.6)	728 (8.4)	916 (13.7)	807 (5.8)
Working women, 18 to 44	11822	1040 (8.1)	737 (6.2)	817 (7.1)	1029 (8.1)	905 (3.7)
Nonworking men, 45 to 64	3389	910 (8.0)	682 (12.6)	763 (14.1)	906 (8.5)	815 (5.6)
Working men, 45 to 64	6396	1126 (10.7)	813 (8.0)	899 (8.2)	1120 (10.8)	989 (4.7)
Nonworking women, 45 to 64	5309	918 (12.6)	635 (7.5)	712 (8.6)	903 (12.1)	792 (5.2)
Working women, 45 to 64	5383	1012 (8.3)	732 (6.8)	807 (7.1)	1005 (8.5)	889 (3.9)
Men, 65+	8006	927 (12.1)	679 (10.0)	765 (8.7)	925 (12.7)	824 (5.5)
Women, 65+	8839	901 (10.7)	632 (8.3)	710 (8.5)	890 (11.0)	783 (4.9)
Outdoor workers	2806	1332 (13.5)	1007 (10.3)	1121 (10.0)	1341 (14.3)	1200 (6.1)
Outdoor children	8521	1011 (10.9)	709 (8.5)	788 (9.5)	996 (10.4)	875 (4.9)
Heart and respiratory	16695	886 (7.6)	643 (8.5)	722 (10.0)	877 (8.2)	782 (4.3)
All persons	111677	968 (14.8)	681 (10.5)	756 (10.6)	955 (14.6)	840 (6.4)

Highest quarter 1 exposure is 1332 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 1007 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 1121 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1341 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1200 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Spokane: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	52761	1414 (21.2)	1136 (18.0)	1429 (21.2)	1440 (21.7)	1355 (10.3)
African americans	1214	1370 (25.8)	1095 (16.6)	1380 (20.5)	1388 (25.3)	1309 (11.2)
Hispanics	786	1351 (25.5)	1108 (19.3)	1394 (22.4)	1375 (25.6)	1307 (11.7)
Household income lt \$10K	13094	1325 (17.3)	1058 (13.9)	1329 (15.8)	1349 (17.8)	1266 (8.1)
Household income \$10K-\$25K	21554	1396 (20.2)	1135 (19.0)	1423 (22.6)	1423 (20.7)	1345 (10.3)
Household income \$25K-\$50K	16075	1415 (24.2)	1137 (18.7)	1433 (21.1)	1441 (24.7)	1357 (11.1)
Household income \$50K-\$75K	3759	1420 (16.6)	1149 (16.9)	1446 (21.5)	1447 (17.3)	1366 (9.1)
Household income gt \$75K	1866	1417 (18.8)	1118 (13.5)	1411 (15.3)	1437 (19.2)	1346 (8.4)
Children, 0 to 17	13562	1406 (18.8)	1134 (16.9)	1436 (20.7)	1434 (19.6)	1353 (9.5)
Nonworking men, 18 to 44	4492	1494 (18.1)	1158 (17.5)	1460 (19.0)	1519 (19.2)	1408 (9.2)
Working men, 18 to 44	7559	1484 (14.7)	1188 (11.8)	1438 (13.3)	1516 (15.3)	1407 (6.9)
Nonworking women, 18 to 44	6619	1374 (21.8)	1091 (14.9)	1369 (16.6)	1398 (22.0)	1308 (9.5)
Working women, 18 to 44	6281	1426 (11.2)	1111 (8.4)	1378 (10.4)	1448 (11.4)	1341 (5.2)
Nonworking men, 45 to 64	1604	1346 (12.5)	1141 (21.4)	1457 (28.9)	1377 (13.2)	1331 (10.1)
Working men, 45 to 64	2867	1505 (14.4)	1182 (9.9)	1420 (10.4)	1533 (14.7)	1410 (6.3)
Nonworking women, 45 to 64	2374	1359 (20.2)	1057 (13.0)	1338 (17.1)	1378 (20.1)	1283 (8.9)
Working women, 45 to 64	2359	1405 (11.2)	1109 (10.1)	1358 (10.8)	1428 (11.8)	1325 (5.5)
Men, 65+	4162	1380 (19.5)	1133 (17.5)	1456 (18.2)	1417 (21.3)	1347 (9.6)
Women, 65+	4483	1330 (16.8)	1050 (14.1)	1342 (16.6)	1353 (17.7)	1269 (8.2)
Outdoor workers	1590	1704 (14.5)	1348 (10.9)	1656 (10.2)	1746 (15.5)	1614 (6.5)
Outdoor children	3843	1503 (17.3)	1191 (15.1)	1492 (19.1)	1533 (17.6)	1430 (8.7)
Heart and respiratory	8455	1305 (11.7)	1073 (14.9)	1361 (20.1)	1332 (13.5)	1268 (7.7)
All persons	56355	1435 (23.2)	1138 (18.4)	1426 (21.2)	1461 (23.8)	1365 (10.9)

Highest quarter 1 exposure is 1704 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 1348 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 1656 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1746 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1614 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Spokane: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	2309	1290 (18.7)	1070 (16.6)	1257 (18.1)	1227 (17.8)	1211 (8.9)
African americans	154	1256 (23.8)	1033 (15.6)	1215 (17.8)	1189 (21.6)	1173 (10.0)
Hispanics	141	1239 (23.4)	1044 (18.1)	1227 (19.5)	1178 (21.8)	1172 (10.4)
Household income lt \$10K	1564	1209 (14.5)	996 (12.2)	1168 (13.2)	1149 (13.9)	1130 (6.7)
Household income \$10K-\$25K	867	1276 (18.1)	1070 (17.7)	1251 (19.4)	1214 (17.1)	1203 (9.0)
Household income \$25K-\$50K	305	1290 (21.3)	1070 (17.2)	1260 (18.0)	1227 (20.1)	1212 (9.6)
Household income \$50K-\$75K	27	1297 (14.8)	1080 (15.5)	1272 (18.4)	1236 (14.3)	1221 (7.9)
Children, 0 to 17	511	1282 (16.1)	1066 (15.4)	1262 (17.7)	1220 (15.6)	1207 (8.1)
Nonworking men, 18 to 44	544	1358 (15.6)	1090 (16.5)	1281 (16.9)	1291 (15.7)	1255 (8.1)
Working men, 18 to 44	304	1366 (13.3)	1118 (11.2)	1295 (12.1)	1341 (13.6)	1280 (6.3)
Nonworking women, 18 to 44	441	1255 (19.4)	1028 (13.8)	1208 (14.4)	1192 (18.1)	1171 (8.3)
Working women, 18 to 44	229	1307 (10.1)	1046 (7.9)	1234 (9.1)	1272 (9.8)	1215 (4.6)
Nonworking men, 45 to 64	106	1235 (12.0)	1072 (19.2)	1275 (23.9)	1177 (11.4)	1190 (8.7)
Working men, 45 to 64	59	1379 (12.8)	1111 (9.3)	1284 (9.5)	1361 (12.8)	1284 (5.6)
Nonworking women, 45 to 64	86	1241 (17.8)	996 (11.9)	1181 (14.6)	1174 (16.3)	1148 (7.6)
Working women, 45 to 64	44	1286 (10.0)	1043 (9.6)	1216 (9.5)	1248 (10.1)	1198 (4.9)
Men, 65+	244	1260 (17.4)	1068 (16.1)	1279 (15.4)	1202 (17.0)	1202 (8.2)
Women, 65+	192	1219 (15.4)	994 (13.5)	1181 (14.6)	1157 (14.8)	1138 (7.3)
Outdoor workers	66	1584 (13.6)	1282 (10.3)	1518 (10.0)	1578 (15.4)	1491 (6.3)
Outdoor children	141	1363 (14.9)	1116 (13.6)	1309 (16.2)	1297 (13.9)	1271 (7.3)
Heart and respiratory	406	1195 (10.6)	1012 (13.6)	1199 (17.5)	1139 (11.1)	1136 (6.8)
All persons	2760	1309 (20.6)	1071 (16.9)	1255 (18.1)	1244 (19.5)	1219 (9.4)

Highest quarter 1 exposure is 1584 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 1282 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 1518 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1578 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1491 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Spokane: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	45887	1796 (28.1)	1454 (24.1)	1527 (22.9)	1897 (30.5)	1668 (13.3)
African americans	1147	1731 (32.5)	1400 (22.0)	1475 (22.3)	1819 (33.4)	1606 (14.0)
Hispanics	889	1708 (32.2)	1417 (25.5)	1490 (24.3)	1802 (34.0)	1604 (14.7)
Household income lt \$10K	9492	1681 (22.9)	1352 (18.3)	1418 (16.8)	1774 (25.0)	1556 (10.5)
Household income \$10K-\$25K	14833	1772 (27.0)	1452 (25.3)	1520 (24.5)	1875 (29.9)	1655 (13.4)
Household income \$25K-\$50K	14033	1796 (31.7)	1454 (24.8)	1531 (22.9)	1897 (34.1)	1669 (14.4)
Household income \$50K-\$75K	4823	1804 (22.1)	1471 (22.9)	1545 (23.3)	1906 (24.5)	1681 (11.6)
Household income gt \$75K	4037	1794 (24.6)	1426 (17.8)	1508 (16.5)	1884 (26.2)	1653 (10.8)
Children, 0 to 17	11869	1786 (25.0)	1451 (22.6)	1534 (22.3)	1889 (27.5)	1665 (12.2)
Nonworking men, 18 to 44	2981	1895 (24.0)	1481 (23.4)	1563 (20.6)	1998 (26.6)	1734 (11.9)
Working men, 18 to 44	6644	1795 (18.2)	1419 (14.3)	1512 (13.6)	1866 (20.2)	1648 (8.4)
Nonworking women, 18 to 44	5145	1745 (28.7)	1397 (20.2)	1464 (18.2)	1842 (30.8)	1612 (12.5)
Working women, 18 to 44	5467	1735 (14.8)	1342 (11.2)	1454 (10.8)	1797 (16.5)	1582 (6.8)
Nonworking men, 45 to 64	1333	1711 (16.5)	1467 (27.6)	1557 (30.1)	1821 (19.1)	1639 (12.0)
Working men, 45 to 64	2837	1799 (17.8)	1397 (11.9)	1484 (10.5)	1856 (18.9)	1634 (7.6)
Nonworking women, 45 to 64	2222	1730 (27.4)	1352 (17.4)	1430 (18.6)	1823 (29.7)	1584 (11.9)
Working women, 45 to 64	2292	1720 (14.2)	1347 (13.9)	1437 (11.6)	1787 (16.4)	1572 (7.1)
Men, 65+	3722	1758 (26.3)	1458 (23.9)	1563 (20.0)	1879 (30.7)	1665 (12.8)
Women, 65+	4288	1693 (22.6)	1353 (20.4)	1435 (18.2)	1791 (25.9)	1568 (11.0)
Outdoor workers	962	1997 (15.1)	1545 (10.9)	1732 (9.8)	2073 (16.3)	1837 (6.7)
Outdoor children	3422	1913 (23.5)	1525 (20.4)	1594 (20.6)	2024 (25.5)	1764 (11.3)
Heart and respiratory	7523	1653 (15.5)	1373 (20.3)	1455 (22.0)	1749 (18.8)	1558 (9.7)
All persons	48800	1825 (30.7)	1457 (24.7)	1525 (23.0)	1929 (33.7)	1684 (14.2)

Highest quarter 1 exposure is 1997 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 1545 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 1732 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 2073 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1837 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Spokane: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	123254	1310 (19.6)	1030 (16.3)	1161 (16.9)	1288 (19.4)	1197 (9.1)
African americans	1154	1268 (23.8)	994 (15.1)	1122 (16.6)	1242 (22.6)	1157 (9.9)
Hispanics	2019	1251 (23.6)	1006 (17.6)	1133 (18.1)	1231 (22.9)	1155 (10.4)
Household income lt \$10K	20559	1227 (15.8)	960 (12.4)	1079 (12.4)	1206 (15.7)	1118 (7.1)
Household income \$10K-\$25K	43671	1293 (18.8)	1030 (17.3)	1156 (18.1)	1274 (18.8)	1188 (9.1)
Household income \$25K-\$50K	46209	1310 (22.3)	1031 (16.9)	1164 (16.9)	1289 (21.9)	1198 (9.8)
Household income \$50K-\$75K	13072	1316 (15.4)	1042 (15.4)	1175 (17.2)	1295 (15.6)	1207 (8.0)
Household income gt \$75K	4989	1311 (17.3)	1013 (12.2)	1149 (12.3)	1284 (16.9)	1189 (7.4)
Children, 0 to 17	37603	1302 (17.3)	1028 (15.3)	1166 (16.5)	1282 (17.4)	1194 (8.3)
Nonworking men, 18 to 44	7803	1381 (16.7)	1051 (16.1)	1186 (15.5)	1357 (17.1)	1243 (8.2)
Working men, 18 to 44	19931	1392 (15.5)	1095 (12.3)	1222 (12.8)	1380 (15.7)	1272 (7.1)
Nonworking women, 18 to 44	12533	1273 (20.2)	990 (13.6)	1114 (13.3)	1251 (19.8)	1157 (8.5)
Working women, 18 to 44	15060	1333 (11.6)	1020 (8.5)	1156 (9.3)	1313 (11.4)	1205 (5.1)
Nonworking men, 45 to 64	3451	1249 (11.8)	1036 (19.3)	1180 (22.7)	1236 (12.3)	1175 (8.6)
Working men, 45 to 64	8421	1412 (15.1)	1090 (10.3)	1216 (10.1)	1395 (14.8)	1278 (6.4)
Nonworking women, 45 to 64	5416	1259 (18.7)	959 (11.8)	1088 (13.7)	1235 (18.3)	1135 (7.9)
Working women, 45 to 64	6567	1311 (11.6)	1018 (10.4)	1142 (9.9)	1293 (11.9)	1191 (5.5)
Men, 65+	5755	1278 (18.2)	1030 (16.0)	1183 (14.5)	1269 (19.1)	1190 (8.5)
Women, 65+	5947	1234 (15.8)	956 (13.2)	1090 (13.4)	1214 (16.3)	1124 (7.4)
Outdoor workers	4396	1619 (15.6)	1267 (11.7)	1455 (10.7)	1616 (16.1)	1489 (6.9)
Outdoor children	11504	1390 (16.0)	1079 (13.7)	1211 (15.2)	1369 (15.7)	1262 (7.6)
Heart and respiratory	17013	1209 (11.0)	974 (13.5)	1107 (16.2)	1193 (12.0)	1120 (6.7)
All persons	128488	1329 (21.5)	1032 (16.7)	1159 (17.0)	1308 (21.4)	1207 (9.6)

Highest quarter 1 exposure is 1619 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 1267 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 1455 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 1616 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 1489 $\mu\text{g}/\text{m}^3$ for Outdoor workers

St. Louis: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	659	615 (8.9)	469 (6.7)	464 (6.9)	634 (8.8)	545 (3.9)
African americans	411	594 (9.7)	451 (6.2)	444 (6.4)	611 (9.1)	525 (4.0)
Household income lt \$10K	242	577 (7.0)	441 (5.3)	432 (4.9)	596 (6.8)	511 (3.0)
Household income \$10K-\$25K	439	610 (8.5)	466 (6.4)	460 (7.2)	628 (8.0)	541 (3.8)
Household income \$25K-\$50K	304	615 (10.1)	471 (7.2)	466 (6.9)	635 (9.9)	547 (4.3)
Household income \$50K-\$75K	77	622 (7.4)	475 (6.4)	469 (6.9)	641 (7.4)	552 (3.5)
Household income gt \$75K	10	611 (7.5)	462 (4.8)	455 (4.7)	633 (7.3)	540 (3.1)
Children, 0 to 17	231	613 (8.1)	470 (6.5)	466 (6.7)	632 (8.3)	545 (3.7)
Nonworking men, 18 to 44	86	647 (9.2)	491 (7.0)	483 (6.1)	661 (9.2)	570 (4.0)
Working men, 18 to 44	88	591 (6.3)	457 (4.5)	448 (4.5)	630 (6.1)	531 (2.7)
Nonworking women, 18 to 44	118	595 (8.6)	453 (5.5)	446 (5.5)	612 (7.8)	526 (3.5)
Working women, 18 to 44	87	569 (5.1)	440 (3.7)	438 (4.1)	602 (4.7)	512 (2.2)
Nonworking men, 45 to 64	42	591 (4.8)	460 (5.6)	465 (7.6)	606 (3.9)	530 (2.8)
Working men, 45 to 64	42	589 (5.8)	450 (3.6)	435 (3.3)	631 (5.6)	526 (2.3)
Nonworking women, 45 to 64	55	578 (6.8)	437 (4.7)	433 (5.1)	595 (6.1)	511 (2.9)
Working women, 45 to 64	41	568 (5.5)	438 (4.2)	437 (4.1)	600 (5.6)	511 (2.5)
Men, 65+	129	609 (9.2)	478 (6.7)	482 (6.1)	630 (9.1)	549 (3.9)
Women, 65+	151	577 (7.6)	443 (5.6)	440 (5.7)	592 (7.3)	513 (3.3)
Outdoor workers	39	625 (4.5)	500 (2.9)	512 (2.4)	682 (5.1)	580 (2.0)
Outdoor children	77	651 (6.6)	492 (5.5)	485 (6.1)	667 (6.4)	574 (3.1)
Heart and respiratory	199	576 (6.6)	445 (6.1)	442 (6.9)	594 (6.6)	514 (3.3)
All persons	1070	621 (9.5)	470 (6.8)	463 (6.9)	638 (9.2)	547 (4.1)

Highest quarter 1 exposure is 651 $\mu\text{g}/\text{m}^3$ for Outdoor children

Highest quarter 2 exposure is 500 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 512 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 682 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 580 $\mu\text{g}/\text{m}^3$ for Outdoor workers

St. Louis: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	73919	368 (4.9)	285 (3.6)	250 (3.1)	444 (5.5)	337 (2.2)
African americans	28394	357 (5.5)	276 (3.5)	242 (3.1)	431 (6.2)	326 (2.4)
Hispanics	1879	359 (6.3)	281 (4.5)	244 (3.6)	435 (7.2)	330 (2.8)
Household income lt \$10K	35244	348 (3.7)	270 (2.5)	235 (2.1)	419 (3.9)	318 (1.6)
Household income \$10K-\$25K	36719	365 (4.7)	284 (3.5)	247 (3.2)	441 (5.3)	334 (2.1)
Household income \$25K-\$50K	25109	368 (5.5)	286 (3.9)	250 (3.2)	444 (6.3)	337 (2.4)
Household income \$50K-\$75K	6302	371 (4.0)	289 (3.3)	253 (3.1)	449 (4.5)	340 (1.9)
Household income gt \$75K	1675	364 (4.0)	284 (2.8)	249 (2.4)	446 (4.9)	336 (1.8)
Children, 0 to 17	27236	365 (4.3)	285 (3.4)	250 (3.1)	441 (5.1)	335 (2.0)
Nonworking men, 18 to 44	7824	386 (5.3)	299 (4.2)	258 (3.1)	462 (6.3)	351 (2.4)
Working men, 18 to 44	13572	409 (3.9)	327 (3.1)	290 (2.9)	498 (4.3)	381 (1.8)
Nonworking women, 18 to 44	12685	357 (4.9)	276 (2.9)	242 (2.4)	429 (4.9)	326 (2.0)
Working women, 18 to 44	11697	384 (2.6)	305 (2.1)	270 (2.1)	468 (2.9)	357 (1.2)
Nonworking men, 45 to 64	2767	354 (2.7)	279 (3.1)	247 (3.6)	423 (2.4)	325 (1.5)
Working men, 45 to 64	4882	415 (3.7)	332 (2.9)	296 (2.4)	507 (4.1)	388 (1.7)
Nonworking women, 45 to 64	4537	347 (3.6)	268 (2.4)	236 (2.4)	417 (3.4)	317 (1.5)
Working women, 45 to 64	4171	381 (3.1)	304 (2.6)	268 (2.2)	465 (3.7)	354 (1.5)
Men, 65+	7354	363 (4.8)	288 (3.3)	253 (2.4)	436 (5.1)	335 (2.0)
Women, 65+	8636	347 (4.1)	270 (2.9)	237 (2.6)	414 (3.9)	317 (1.7)
Outdoor workers	2729	481 (4.7)	391 (3.7)	355 (2.9)	578 (5.3)	451 (2.1)
Outdoor children	7202	384 (3.4)	295 (2.7)	258 (2.7)	461 (3.7)	350 (1.6)
Heart and respiratory	15685	346 (3.5)	272 (3.2)	239 (3.0)	418 (3.8)	319 (1.7)
All persons	105361	371 (5.2)	285 (3.6)	249 (3.1)	445 (5.7)	337 (2.3)

Highest quarter 1 exposure is 481 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 391 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 355 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 578 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 451 $\mu\text{g}/\text{m}^3$ for Outdoor workers

St. Louis: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	219913	334 (4.4)	342 (4.4)	341 (4.3)	480 (6.3)	375 (2.5)
African americans	3529	325 (5.2)	331 (4.3)	330 (4.3)	464 (6.8)	363 (2.6)
Hispanics	2629	326 (5.7)	336 (5.4)	333 (4.8)	469 (8.0)	366 (3.1)
Household income lt \$10K	23877	315 (3.3)	323 (3.1)	320 (2.9)	452 (4.7)	352 (1.8)
Household income \$10K-\$25K	62311	332 (4.3)	340 (4.3)	338 (4.5)	476 (5.9)	372 (2.4)
Household income \$25K-\$50K	85705	334 (5.0)	343 (4.7)	342 (4.4)	481 (7.2)	375 (2.7)
Household income \$50K-\$75K	35582	337 (3.7)	346 (4.0)	345 (4.3)	486 (5.3)	379 (2.2)
Household income gt \$75K	15479	332 (3.8)	340 (3.4)	339 (3.2)	481 (5.3)	373 (2.0)
Children, 0 to 17	49468	332 (3.9)	341 (4.2)	342 (4.3)	477 (5.9)	373 (2.3)
Nonworking men, 18 to 44	11611	349 (4.7)	358 (5.0)	354 (4.2)	501 (7.0)	391 (2.7)
Working men, 18 to 44	30448	370 (3.7)	366 (3.2)	355 (3.0)	504 (4.5)	399 (1.8)
Nonworking women, 18 to 44	20663	324 (4.3)	331 (3.5)	329 (3.4)	464 (5.7)	362 (2.2)
Working women, 18 to 44	25725	349 (2.5)	346 (2.2)	340 (2.3)	478 (3.1)	378 (1.3)
Nonworking men, 45 to 64	6450	320 (2.6)	334 (3.7)	338 (5.0)	459 (2.8)	363 (1.8)
Working men, 45 to 64	16664	376 (3.5)	368 (2.8)	354 (2.3)	508 (4.2)	402 (1.6)
Nonworking women, 45 to 64	11583	314 (3.2)	322 (3.0)	321 (3.3)	451 (4.3)	352 (1.7)
Working women, 45 to 64	14048	345 (3.0)	344 (2.7)	337 (2.4)	475 (3.9)	375 (1.5)
Men, 65+	18473	328 (4.2)	345 (4.1)	347 (3.5)	475 (6.3)	374 (2.3)
Women, 65+	20996	313 (3.6)	324 (3.6)	324 (3.6)	449 (5.0)	353 (2.0)
Outdoor workers	6019	433 (4.3)	419 (3.1)	412 (2.3)	565 (4.4)	458 (1.8)
Outdoor children	14272	350 (3.1)	355 (3.3)	353 (3.7)	502 (4.5)	390 (1.8)
Heart and respiratory	36220	314 (3.2)	326 (3.9)	326 (4.2)	451 (4.6)	355 (2.0)
All persons	226130	336 (4.7)	342 (4.4)	340 (4.3)	482 (6.6)	376 (2.6)

Highest quarter 1 exposure is 433 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 419 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 412 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 565 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 458 $\mu\text{g}/\text{m}^3$ for Outdoor workers

St. Louis: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	157135	314 (4.0)	301 (3.9)	286 (3.5)	271 (3.4)	293 (1.9)
African americans	2877	306 (4.8)	290 (3.7)	277 (3.5)	263 (3.8)	284 (2.0)
Hispanics	1798	307 (5.4)	295 (4.7)	280 (4.0)	266 (4.5)	287 (2.4)
Household income lt \$10K	9159	296 (2.9)	284 (2.8)	269 (2.3)	256 (2.4)	276 (1.3)
Household income \$10K-\$25K	29033	312 (3.8)	299 (3.8)	284 (3.6)	269 (3.2)	291 (1.8)
Household income \$25K-\$50K	58483	314 (4.5)	302 (4.3)	287 (3.6)	271 (3.9)	293 (2.0)
Household income \$50K-\$75K	32349	317 (3.2)	305 (3.6)	289 (3.5)	274 (2.8)	296 (1.7)
Household income gt \$75K	34005	311 (3.3)	298 (3.0)	285 (2.6)	271 (2.9)	291 (1.5)
Children, 0 to 17	43395	311 (3.5)	300 (3.8)	287 (3.4)	269 (3.1)	292 (1.7)
Nonworking men, 18 to 44	6312	330 (4.6)	315 (4.5)	298 (3.6)	283 (4.0)	306 (2.1)
Working men, 18 to 44	25733	353 (3.2)	327 (2.7)	307 (2.4)	314 (2.8)	325 (1.4)
Nonworking women, 18 to 44	13825	305 (4.0)	291 (3.2)	277 (2.7)	263 (3.0)	284 (1.6)
Working women, 18 to 44	20354	331 (2.1)	307 (1.9)	292 (1.8)	293 (1.9)	306 (1.0)
Nonworking men, 45 to 64	3727	302 (2.4)	295 (3.3)	284 (4.1)	259 (1.6)	285 (1.5)
Working men, 45 to 64	14380	358 (3.0)	329 (2.4)	308 (1.9)	320 (2.6)	328 (1.2)
Nonworking women, 45 to 64	8228	297 (2.9)	283 (2.8)	271 (2.7)	255 (2.2)	276 (1.3)
Working women, 45 to 64	11136	328 (2.5)	306 (2.4)	290 (1.9)	292 (2.4)	304 (1.2)
Men, 65+	8469	309 (3.8)	305 (3.8)	291 (2.8)	269 (3.3)	293 (1.7)
Women, 65+	9188	296 (3.4)	286 (3.4)	273 (2.8)	255 (2.7)	277 (1.5)
Outdoor workers	3021	417 (3.6)	381 (2.7)	360 (1.9)	376 (3.3)	383 (1.5)
Outdoor children	13143	326 (2.7)	312 (3.0)	295 (3.0)	282 (2.3)	304 (1.4)
Heart and respiratory	23314	296 (2.8)	287 (3.7)	275 (3.4)	255 (2.4)	278 (1.6)
All persons	164747	316 (4.3)	301 (4.0)	286 (3.5)	272 (3.5)	294 (1.9)

Highest quarter 1 exposure is 417 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 381 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 360 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 376 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 383 $\mu\text{g}/\text{m}^3$ for Outdoor workers

St. Louis: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	176270	535 (7.0)	455 (5.8)	406 (5.0)	526 (7.0)	480 (3.1)
African americans	37489	521 (8.3)	440 (5.6)	394 (5.0)	508 (7.5)	466 (3.4)
Hispanics	2553	522 (9.1)	447 (7.1)	398 (5.7)	512 (8.5)	470 (3.9)
Household income lt \$10K	33775	505 (5.3)	429 (4.1)	383 (3.3)	495 (5.2)	453 (2.3)
Household income \$10K-\$25K	58601	531 (6.7)	452 (5.7)	402 (5.2)	521 (6.6)	476 (3.0)
Household income \$25K-\$50K	71961	536 (8.0)	456 (6.3)	407 (5.1)	527 (7.9)	481 (3.5)
Household income \$50K-\$75K	26702	541 (5.9)	460 (5.3)	411 (4.9)	533 (5.9)	486 (2.8)
Household income gt \$75K	24495	534 (6.1)	452 (4.6)	405 (3.9)	531 (6.3)	480 (2.7)
Children, 0 to 17	45454	532 (6.3)	454 (5.5)	407 (4.9)	523 (6.5)	479 (2.9)
Nonworking men, 18 to 44	13035	560 (7.5)	476 (6.7)	421 (5.0)	546 (7.5)	500 (3.4)
Working men, 18 to 44	30704	554 (4.6)	470 (3.6)	423 (3.1)	561 (4.4)	502 (2.0)
Nonworking women, 18 to 44	22483	519 (6.9)	440 (4.6)	393 (3.8)	507 (6.1)	464 (2.7)
Working women, 18 to 44	28141	529 (3.2)	448 (2.5)	406 (2.3)	533 (3.1)	479 (1.4)
Nonworking men, 45 to 64	5501	513 (3.9)	444 (4.9)	401 (5.8)	498 (3.0)	464 (2.3)
Working men, 45 to 64	13263	559 (4.4)	470 (3.1)	422 (2.4)	571 (4.3)	505 (1.8)
Nonworking women, 45 to 64	9966	503 (5.0)	427 (3.9)	383 (3.7)	491 (4.4)	451 (2.1)
Working women, 45 to 64	11825	524 (3.8)	444 (3.0)	400 (2.5)	528 (3.8)	474 (1.7)
Men, 65+	17655	524 (6.6)	459 (5.3)	411 (3.8)	515 (6.4)	477 (2.8)
Women, 65+	20821	501 (5.6)	430 (4.6)	386 (4.0)	485 (4.7)	450 (2.4)
Outdoor workers	4673	614 (4.7)	525 (3.2)	483 (2.4)	626 (4.6)	562 (1.9)
Outdoor children	12870	560 (4.9)	471 (4.4)	419 (4.3)	551 (4.9)	500 (2.3)
Heart and respiratory	34694	504 (5.1)	433 (5.1)	389 (4.7)	492 (4.9)	454 (2.5)
All persons	218849	539 (7.5)	455 (5.8)	405 (5.0)	527 (7.1)	481 (3.2)

Highest quarter 1 exposure is 614 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 525 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 483 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 626 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 562 $\mu\text{g}/\text{m}^3$ for Outdoor workers

St. Louis: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in µg/m3 by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	169647	342 (4.4)	298 (3.8)	397 (5.0)	386 (5.0)	356 (2.3)
African americans	49146	334 (5.3)	288 (3.7)	384 (4.9)	373 (5.4)	345 (2.4)
Hispanics	1754	335 (5.9)	293 (4.6)	388 (5.6)	377 (6.3)	348 (2.8)
Household income lt \$10K	20952	323 (3.3)	281 (2.6)	373 (3.3)	363 (3.6)	335 (1.6)
Household income \$10K-\$25K	60317	340 (4.3)	296 (3.7)	393 (5.2)	383 (4.7)	353 (2.3)
Household income \$25K-\$50K	94355	343 (5.1)	299 (4.1)	398 (5.1)	386 (5.7)	357 (2.5)
Household income \$50K-\$75K	31818	346 (3.7)	302 (3.5)	402 (4.9)	391 (4.2)	360 (2.1)
Household income gt \$75K	10879	341 (3.7)	297 (3.0)	395 (3.7)	387 (4.3)	355 (1.9)
Children, 0 to 17	56777	340 (3.9)	297 (3.6)	398 (4.9)	383 (4.6)	355 (2.2)
Nonworking men, 18 to 44	11343	359 (4.8)	311 (4.3)	412 (4.9)	401 (5.5)	371 (2.5)
Working men, 18 to 44	32165	394 (4.1)	338 (3.3)	417 (3.3)	435 (4.0)	396 (1.9)
Nonworking women, 18 to 44	20000	332 (4.4)	288 (3.1)	384 (3.8)	373 (4.4)	345 (2.0)
Working women, 18 to 44	28293	369 (2.9)	316 (2.3)	399 (2.5)	408 (2.7)	373 (1.3)
Nonworking men, 45 to 64	5421	329 (2.6)	291 (3.2)	394 (5.7)	368 (2.2)	346 (1.8)
Working men, 45 to 64	15472	402 (4.0)	343 (3.0)	417 (2.6)	442 (3.8)	401 (1.7)
Nonworking women, 45 to 64	9619	323 (3.2)	280 (2.6)	375 (3.7)	362 (3.3)	335 (1.6)
Working women, 45 to 64	13517	365 (3.4)	315 (2.8)	395 (2.7)	406 (3.4)	370 (1.5)
Men, 65+	13336	336 (4.2)	300 (3.5)	404 (3.9)	380 (4.8)	355 (2.1)
Women, 65+	14967	322 (3.7)	282 (3.1)	378 (4.1)	360 (3.9)	336 (1.9)
Outdoor workers	6224	474 (5.2)	403 (3.7)	485 (2.7)	510 (4.7)	468 (2.1)
Outdoor children	16620	357 (3.1)	309 (2.9)	410 (4.3)	403 (3.5)	370 (1.7)
Heart and respiratory	31964	323 (3.2)	284 (3.4)	381 (4.9)	362 (3.6)	338 (1.9)
All persons	220910	345 (4.7)	298 (3.8)	396 (5.0)	387 (5.1)	357 (2.4)

Highest quarter 1 exposure is 474 µg/m3 for Outdoor workers
 Highest quarter 2 exposure is 403 µg/m3 for Outdoor workers
 Highest quarter 3 exposure is 485 µg/m3 for Outdoor workers
 Highest quarter 4 exposure is 510 µg/m3 for Outdoor workers
 Highest annual exposure is 468 µg/m3 for Outdoor workers

St. Louis: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	138753	682 (9.1)	576 (7.5)	486 (6.3)	573 (7.6)	579 (3.8)
African americans	20318	662 (10.6)	557 (7.3)	469 (6.2)	553 (8.1)	560 (4.1)
Hispanics	1772	663 (11.5)	566 (9.0)	474 (6.9)	558 (9.3)	565 (4.7)
Household income lt \$10K	17322	641 (6.9)	543 (5.4)	455 (4.4)	539 (5.7)	544 (2.8)
Household income \$10K-\$25K	43621	677 (8.8)	573 (7.4)	481 (6.5)	568 (7.1)	574 (3.7)
Household income \$25K-\$50K	64510	682 (10.3)	578 (8.1)	487 (6.4)	574 (8.6)	580 (4.2)
Household income \$50K-\$75K	25358	689 (7.6)	583 (6.9)	491 (6.3)	580 (6.4)	585 (3.4)
Household income gt \$75K	10848	680 (7.8)	574 (5.9)	483 (4.7)	575 (6.4)	577 (3.1)
Children, 0 to 17	37234	677 (8.2)	575 (7.2)	487 (6.2)	570 (7.1)	577 (3.6)
Nonworking men, 18 to 44	8245	712 (9.5)	601 (8.3)	500 (5.9)	595 (8.1)	601 (4.0)
Working men, 18 to 44	27276	689 (5.7)	579 (4.5)	492 (3.8)	591 (4.7)	587 (2.4)
Nonworking women, 18 to 44	14120	659 (8.9)	557 (6.1)	469 (4.9)	553 (6.7)	559 (3.4)
Working women, 18 to 44	24057	661 (4.1)	556 (3.3)	476 (2.9)	563 (3.3)	564 (1.7)
Nonworking men, 45 to 64	3621	651 (4.7)	562 (6.3)	481 (6.9)	545 (3.2)	559 (2.7)
Working men, 45 to 64	11849	695 (5.6)	577 (3.8)	489 (2.8)	596 (4.4)	589 (2.1)
Nonworking women, 45 to 64	6281	640 (6.5)	540 (5.1)	457 (4.8)	537 (5.0)	543 (2.7)
Working women, 45 to 64	10478	656 (4.8)	549 (3.9)	467 (3.1)	559 (4.0)	557 (2.0)
Men, 65+	9158	665 (8.4)	581 (6.9)	493 (5.0)	563 (7.2)	575 (3.5)
Women, 65+	10160	637 (7.1)	544 (6.0)	460 (5.3)	532 (5.7)	543 (3.0)
Outdoor workers	4785	746 (5.7)	636 (3.9)	560 (2.8)	649 (4.5)	647 (2.2)
Outdoor children	10659	714 (6.5)	598 (5.8)	504 (5.5)	599 (5.4)	603 (2.9)
Heart and respiratory	23055	640 (6.6)	548 (6.6)	464 (6.0)	537 (5.5)	547 (3.1)
All persons	162479	686 (9.6)	576 (7.6)	485 (6.3)	575 (7.8)	580 (3.9)

Highest quarter 1 exposure is 746 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 636 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 560 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 649 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 647 $\mu\text{g}/\text{m}^3$ for Outdoor workers

St. Louis: Air District=8

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	39033	463 (6.1)	483 (6.2)	513 (6.5)	812 (10.5)	569 (3.8)
African americans	183569	450 (7.2)	467 (6.0)	497 (6.4)	785 (11.3)	551 (4.0)
Hispanics	1542	451 (7.9)	475 (7.7)	502 (7.3)	794 (13.6)	556 (4.8)
Household income lt \$10K	98928	436 (4.5)	456 (4.3)	482 (4.4)	765 (7.7)	535 (2.7)
Household income \$10K-\$25K	65382	460 (5.9)	480 (6.0)	509 (6.7)	807 (9.9)	564 (3.7)
Household income \$25K-\$50K	43913	463 (6.9)	484 (6.7)	515 (6.6)	813 (12.0)	570 (4.2)
Household income \$50K-\$75K	11441	467 (5.1)	489 (5.7)	519 (6.5)	821 (8.7)	575 (3.3)
Household income gt \$75K	3759	461 (5.2)	481 (4.9)	510 (4.8)	812 (8.8)	566 (3.1)
Children, 0 to 17	64183	460 (5.4)	482 (5.9)	514 (6.4)	807 (9.8)	566 (3.6)
Nonworking men, 18 to 44	19262	483 (6.4)	506 (7.2)	533 (6.4)	850 (12.1)	594 (4.2)
Working men, 18 to 44	21440	489 (3.8)	494 (3.3)	508 (3.4)	792 (5.7)	571 (2.1)
Nonworking women, 18 to 44	25467	448 (6.0)	468 (5.0)	496 (5.1)	786 (9.5)	550 (3.3)
Working women, 18 to 44	23673	464 (2.6)	472 (2.4)	494 (2.7)	762 (4.4)	549 (1.6)
Nonworking men, 45 to 64	8186	445 (3.7)	471 (5.2)	510 (7.5)	777 (4.6)	552 (2.7)
Working men, 45 to 64	9073	494 (3.6)	492 (2.8)	500 (2.5)	791 (5.0)	570 (1.8)
Nonworking women, 45 to 64	10983	436 (4.4)	454 (4.2)	484 (5.0)	765 (7.2)	535 (2.7)
Working women, 45 to 64	10076	460 (3.2)	467 (2.8)	488 (2.9)	757 (5.0)	544 (1.8)
Men, 65+	14457	455 (5.9)	487 (5.7)	524 (5.2)	804 (10.5)	568 (3.6)
Women, 65+	17869	435 (5.2)	457 (5.0)	488 (5.3)	761 (8.4)	536 (3.1)
Outdoor workers	4914	556 (4.1)	548 (2.9)	569 (1.9)	837 (4.3)	628 (1.7)
Outdoor children	18651	483 (4.2)	501 (4.7)	531 (5.6)	847 (7.4)	591 (2.8)
Heart and respiratory	33053	435 (4.5)	460 (5.5)	492 (6.3)	763 (7.6)	538 (3.0)
All persons	224669	466 (6.5)	483 (6.2)	512 (6.5)	815 (11.0)	570 (3.9)

Highest quarter 1 exposure is 556 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 548 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 569 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 850 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44
 Highest annual exposure is 628 $\mu\text{g}/\text{m}^3$ for Outdoor workers

St. Louis: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	365242	456 (6.1)	402 (5.2)	393 (5.0)	516 (6.7)	442 (2.9)
African americans	5131	443 (7.1)	388 (5.0)	380 (4.9)	498 (7.3)	427 (3.1)
Hispanics	3311	445 (7.8)	394 (6.3)	384 (5.6)	503 (8.5)	432 (3.6)
Household income lt \$10K	37474	430 (4.6)	379 (3.7)	369 (3.4)	485 (5.0)	416 (2.1)
Household income \$10K-\$25K	102562	453 (5.9)	399 (5.1)	390 (5.2)	512 (6.3)	438 (2.8)
Household income \$25K-\$50K	144531	457 (6.9)	403 (5.6)	394 (5.1)	516 (7.7)	443 (3.2)
Household income \$50K-\$75K	64541	461 (5.0)	406 (4.8)	398 (5.0)	522 (5.6)	447 (2.6)
Household income gt \$75K	25577	454 (5.1)	399 (4.0)	390 (3.7)	517 (5.7)	440 (2.4)
Children, 0 to 17	112493	454 (5.4)	401 (5.0)	394 (4.9)	513 (6.3)	440 (2.7)
Nonworking men, 18 to 44	16766	478 (6.5)	420 (5.9)	408 (4.8)	537 (7.4)	461 (3.1)
Working men, 18 to 44	69562	479 (4.5)	419 (3.6)	403 (3.5)	535 (4.7)	459 (2.1)
Nonworking women, 18 to 44	32769	442 (6.0)	388 (4.2)	380 (3.9)	498 (6.0)	427 (2.6)
Working women, 18 to 44	54260	455 (3.1)	398 (2.6)	388 (2.6)	509 (3.3)	438 (1.5)
Nonworking men, 45 to 64	6319	438 (3.4)	392 (4.4)	390 (5.8)	492 (2.9)	428 (2.1)
Working men, 45 to 64	24986	483 (4.3)	419 (3.1)	400 (2.6)	540 (4.4)	461 (1.9)
Nonworking women, 45 to 64	12253	430 (4.4)	377 (3.6)	370 (3.8)	484 (4.5)	415 (2.0)
Working women, 45 to 64	19435	451 (3.7)	395 (3.1)	383 (2.8)	506 (4.0)	434 (1.7)
Men, 65+	12769	448 (5.9)	406 (4.9)	401 (4.0)	509 (6.6)	441 (2.7)
Women, 65+	13101	428 (5.0)	380 (4.3)	373 (4.1)	481 (5.2)	416 (2.3)
Outdoor workers	12380	538 (4.7)	474 (3.3)	463 (2.6)	591 (4.7)	516 (2.0)
Outdoor children	32389	478 (4.3)	417 (4.0)	407 (4.3)	539 (4.7)	460 (2.2)
Heart and respiratory	46770	429 (4.4)	382 (4.7)	376 (4.9)	484 (4.9)	418 (2.4)
All persons	374714	460 (6.5)	402 (5.3)	392 (5.0)	518 (7.0)	443 (3.0)

Highest quarter 1 exposure is 538 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 474 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 463 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 591 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 516 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Washington DC: Air District=1

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	138592	679 (8.8)	551 (7.5)	527 (6.7)	780 (10.2)	634 (4.2)
African americans	8267	661 (10.7)	532 (6.8)	510 (6.7)	750 (10.5)	613 (4.4)
Hispanics	12536	663 (12.0)	541 (8.8)	516 (7.5)	761 (12.7)	620 (5.2)
Household income lt \$10K	13384	640 (6.5)	518 (5.3)	495 (4.6)	733 (7.5)	596 (3.0)
Household income \$10K-\$25K	26027	675 (8.6)	549 (7.5)	521 (6.7)	774 (9.7)	630 (4.1)
Household income \$25K-\$50K	43820	679 (10.1)	552 (8.0)	529 (6.9)	781 (11.6)	635 (4.7)
Household income \$50K-\$75K	25146	685 (7.3)	558 (6.9)	534 (6.7)	790 (8.7)	642 (3.7)
Household income gt \$75K	45097	673 (7.1)	546 (5.7)	524 (4.8)	781 (8.6)	631 (3.4)
Children, 0 to 17	18431	672 (7.6)	549 (7.1)	529 (6.7)	775 (9.6)	631 (3.9)
Nonworking men, 18 to 44	8682	716 (9.9)	573 (8.4)	552 (6.4)	812 (11.6)	663 (4.7)
Working men, 18 to 44	29395	706 (5.0)	567 (4.0)	537 (3.6)	799 (5.2)	653 (2.2)
Nonworking women, 18 to 44	15961	661 (8.9)	532 (6.0)	510 (5.3)	753 (8.9)	614 (3.7)
Working women, 18 to 44	30161	674 (3.5)	539 (2.8)	520 (2.8)	763 (3.7)	624 (1.6)
Nonworking men, 45 to 64	3174	653 (5.6)	540 (6.9)	520 (6.7)	741 (4.2)	614 (3.0)
Working men, 45 to 64	10758	711 (4.7)	566 (3.3)	535 (2.8)	806 (4.7)	654 (2.0)
Nonworking women, 45 to 64	6454	643 (6.8)	516 (5.1)	497 (5.2)	730 (6.6)	596 (3.0)
Working women, 45 to 64	10954	667 (4.0)	535 (3.4)	509 (2.8)	755 (4.3)	616 (1.8)
Men, 65+	10452	667 (8.7)	555 (7.2)	540 (5.4)	769 (10.1)	633 (4.0)
Women, 65+	13542	639 (7.5)	518 (6.2)	504 (5.8)	724 (7.6)	596 (3.4)
Outdoor workers	2465	788 (5.3)	634 (3.7)	624 (3.0)	869 (5.1)	729 (2.2)
Outdoor children	5265	706 (6.1)	572 (5.7)	547 (5.8)	814 (7.1)	660 (3.1)
Heart and respiratory	24209	638 (6.3)	524 (6.6)	505 (7.1)	731 (7.5)	600 (3.5)
All persons	157965	683 (9.5)	551 (7.5)	526 (6.7)	781 (10.4)	635 (4.3)

Highest quarter 1 exposure is 788 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 634 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 624 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 869 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 729 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Washington DC: Air District=2

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	101844	880 (11.7)	750 (10.5)	688 (9.4)	857 (12.0)	793 (5.5)
African americans	311903	855 (13.6)	719 (9.3)	663 (9.2)	821 (11.8)	764 (5.6)
Hispanics	28768	859 (15.7)	734 (12.2)	671 (10.2)	832 (14.3)	774 (6.6)
Household income lt \$10K	74263	830 (8.8)	703 (7.6)	644 (6.5)	803 (9.3)	745 (4.1)
Household income \$10K-\$25K	128345	876 (11.6)	746 (10.5)	681 (9.4)	849 (11.2)	788 (5.3)
Household income \$25K-\$50K	129302	881 (13.3)	751 (11.2)	692 (9.7)	858 (13.4)	795 (6.0)
Household income \$50K-\$75K	56366	888 (9.8)	760 (9.9)	698 (9.5)	869 (10.4)	803 (5.0)
Household income gt \$75K	38687	869 (8.9)	740 (7.6)	681 (6.4)	854 (9.6)	785 (4.1)
Children, 0 to 17	82005	872 (10.2)	747 (10.0)	691 (9.4)	851 (11.3)	790 (5.1)
Nonworking men, 18 to 44	34669	931 (13.3)	779 (11.8)	723 (8.6)	892 (12.9)	831 (5.9)
Working men, 18 to 44	69436	864 (6.6)	723 (5.3)	655 (4.8)	844 (6.2)	771 (2.9)
Nonworking women, 18 to 44	44622	858 (11.9)	723 (8.4)	664 (7.5)	827 (10.6)	768 (4.9)
Working women, 18 to 44	66849	831 (5.1)	697 (4.3)	647 (4.3)	807 (4.7)	745 (2.3)
Nonworking men, 45 to 64	13435	850 (7.0)	737 (9.8)	684 (9.2)	816 (5.1)	771 (4.0)
Working men, 45 to 64	25736	859 (5.9)	715 (4.2)	640 (3.6)	845 (5.6)	764 (2.5)
Nonworking women, 45 to 64	17617	837 (9.6)	702 (7.4)	647 (7.4)	801 (8.3)	746 (4.1)
Working women, 45 to 64	25765	827 (5.6)	690 (5.1)	632 (4.2)	802 (5.5)	737 (2.6)
Men, 65+	27516	870 (12.1)	757 (10.5)	712 (8.1)	849 (12.7)	797 (5.5)
Women, 65+	30630	835 (10.3)	706 (9.2)	659 (8.2)	796 (9.9)	749 (4.7)
Outdoor workers	10049	925 (5.4)	773 (3.7)	738 (2.8)	901 (5.0)	834 (2.2)
Outdoor children	23332	916 (8.6)	779 (8.2)	716 (8.1)	899 (8.7)	827 (4.2)
Heart and respiratory	63627	827 (8.5)	712 (9.8)	659 (10.3)	801 (9.4)	749 (4.8)
All persons	438281	887 (12.7)	749 (10.6)	687 (9.5)	860 (12.4)	795 (5.7)

Highest quarter 1 exposure is 931 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Highest quarter 2 exposure is 779 $\mu\text{g}/\text{m}^3$ for Nonworking men, 18 to 44

Highest quarter 3 exposure is 738 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 901 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 834 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Washington DC: Air District=3

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	38340	406 (5.1)	332 (4.3)	356 (4.4)	443 (5.8)	384 (2.5)
African americans	107801	397 (6.5)	322 (4.1)	345 (4.4)	427 (6.1)	373 (2.7)
Hispanics	3577	397 (6.9)	327 (5.1)	348 (5.0)	432 (7.1)	376 (3.1)
Household income lt \$10K	18883	382 (3.7)	313 (2.8)	335 (2.9)	416 (4.2)	362 (1.7)
Household income \$10K-\$25K	39392	403 (4.9)	331 (4.3)	351 (4.3)	439 (5.4)	381 (2.4)
Household income \$25K-\$50K	55934	406 (5.9)	333 (4.6)	357 (4.5)	443 (6.5)	385 (2.7)
Household income \$50K-\$75K	22611	410 (4.3)	336 (3.8)	361 (4.4)	449 (4.9)	389 (2.2)
Household income gt \$75K	14399	407 (4.6)	331 (3.5)	355 (3.2)	445 (5.1)	385 (2.1)
Children, 0 to 17	40431	403 (4.5)	331 (4.0)	357 (4.4)	440 (5.4)	383 (2.3)
Nonworking men, 18 to 44	8502	424 (5.5)	345 (4.9)	373 (4.3)	458 (6.3)	400 (2.7)
Working men, 18 to 44	27156	472 (3.9)	384 (3.3)	391 (2.9)	506 (4.0)	438 (1.8)
Nonworking women, 18 to 44	12662	393 (5.0)	321 (3.3)	344 (3.4)	427 (5.0)	371 (2.1)
Working women, 18 to 44	27821	443 (2.8)	357 (2.2)	370 (2.1)	472 (2.6)	411 (1.2)
Nonworking men, 45 to 64	3047	389 (3.1)	324 (4.0)	350 (4.4)	421 (2.5)	371 (1.8)
Working men, 45 to 64	9427	484 (3.7)	391 (2.9)	397 (2.4)	517 (3.7)	447 (1.6)
Nonworking women, 45 to 64	4443	381 (3.5)	311 (2.7)	336 (3.3)	413 (3.6)	360 (1.6)
Working women, 45 to 64	9818	437 (3.2)	356 (2.6)	365 (2.2)	470 (3.3)	407 (1.4)
Men, 65+	4340	395 (4.6)	333 (3.8)	364 (3.5)	435 (5.5)	382 (2.2)
Women, 65+	4987	380 (4.0)	312 (3.3)	340 (3.7)	410 (4.3)	361 (1.9)
Outdoor workers	4147	567 (5.2)	461 (3.8)	472 (2.9)	597 (4.9)	524 (2.2)
Outdoor children	11305	423 (3.4)	343 (3.2)	369 (3.7)	462 (3.9)	399 (1.8)
Heart and respiratory	18723	382 (3.6)	317 (3.6)	342 (4.6)	416 (4.2)	364 (2.0)
All persons	152634	408 (5.4)	332 (4.3)	355 (4.4)	444 (5.9)	385 (2.5)

Highest quarter 1 exposure is 567 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 461 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 472 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 597 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 524 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Washington DC: Air District=4

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	100547	567 (6.9)	354 (4.5)	363 (4.4)	562 (7.1)	461 (2.9)
African americans	30323	557 (9.0)	344 (4.4)	352 (4.4)	545 (7.8)	449 (3.4)
Hispanics	7552	557 (9.6)	349 (5.4)	355 (4.9)	549 (8.8)	452 (3.7)
Household income lt \$10K	7389	536 (4.8)	334 (3.0)	343 (2.9)	529 (4.9)	435 (2.0)
Household income \$10K-\$25K	20810	563 (6.7)	353 (4.5)	358 (4.3)	558 (6.8)	458 (2.8)
Household income \$25K-\$50K	45537	567 (8.0)	355 (4.9)	365 (4.5)	562 (8.1)	462 (3.3)
Household income \$50K-\$75K	37599	573 (5.6)	358 (4.0)	368 (4.3)	569 (5.9)	467 (2.5)
Household income gt \$75K	29118	570 (6.2)	353 (3.7)	363 (3.3)	569 (6.7)	464 (2.6)
Children, 0 to 17	34336	563 (6.1)	353 (4.3)	364 (4.3)	559 (6.7)	460 (2.7)
Nonworking men, 18 to 44	5292	593 (7.7)	367 (5.0)	380 (4.3)	579 (7.6)	479 (3.2)
Working men, 18 to 44	28960	600 (3.7)	386 (2.5)	387 (2.3)	596 (3.6)	492 (1.5)
Nonworking women, 18 to 44	10316	549 (6.9)	341 (3.4)	352 (3.3)	540 (6.0)	445 (2.6)
Working women, 18 to 44	24304	573 (2.6)	362 (1.7)	369 (1.7)	567 (2.5)	467 (1.1)
Nonworking men, 45 to 64	2744	542 (3.7)	345 (4.2)	357 (4.3)	533 (3.0)	444 (1.9)
Working men, 45 to 64	12015	609 (3.6)	389 (2.2)	390 (1.8)	606 (3.5)	498 (1.4)
Nonworking women, 45 to 64	5035	534 (4.4)	331 (2.8)	343 (3.2)	523 (4.0)	432 (1.8)
Working women, 45 to 64	10184	567 (2.9)	361 (2.1)	364 (1.8)	561 (3.0)	463 (1.3)
Men, 65+	5293	552 (5.9)	355 (4.0)	370 (3.3)	550 (6.2)	457 (2.5)
Women, 65+	5528	531 (5.0)	333 (3.4)	347 (3.6)	518 (4.7)	432 (2.1)
Outdoor workers	3922	667 (3.9)	444 (2.6)	455 (2.0)	662 (3.8)	557 (1.6)
Outdoor children	9644	589 (4.6)	366 (3.3)	376 (3.7)	585 (4.7)	479 (2.1)
Heart and respiratory	18662	536 (4.7)	338 (3.7)	349 (4.4)	528 (4.9)	437 (2.2)
All persons	144007	570 (7.3)	354 (4.5)	363 (4.3)	562 (7.2)	462 (3.0)

Highest quarter 1 exposure is 667 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 2 exposure is 444 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 3 exposure is 455 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest quarter 4 exposure is 662 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Highest annual exposure is 557 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Washington DC: Air District=5

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	167901	552 (7.3)	394 (5.2)	365 (4.5)	524 (7.0)	458 (3.0)
African americans	5374	537 (8.8)	381 (4.8)	354 (4.5)	504 (7.2)	444 (3.3)
Hispanics	11859	537 (9.3)	387 (6.0)	357 (5.1)	510 (8.3)	447 (3.7)
Household income lt \$10K	4563	519 (5.4)	371 (3.6)	344 (3.2)	492 (5.2)	431 (2.2)
Household income \$10K-\$25K	18189	547 (6.9)	392 (5.2)	361 (4.5)	519 (6.6)	455 (2.9)
Household income \$25K-\$50K	45389	552 (8.3)	395 (5.5)	366 (4.6)	525 (7.9)	459 (3.4)
Household income \$50K-\$75K	39177	558 (6.0)	398 (4.7)	370 (4.5)	531 (5.9)	464 (2.7)
Household income gt \$75K	75013	553 (6.4)	392 (4.1)	364 (3.4)	527 (6.1)	459 (2.6)
Children, 0 to 17	42653	549 (6.5)	393 (4.9)	366 (4.5)	521 (6.6)	457 (2.9)
Nonworking men, 18 to 44	7447	575 (7.4)	408 (5.7)	381 (4.4)	543 (7.4)	477 (3.2)
Working men, 18 to 44	31454	586 (4.1)	427 (3.0)	393 (2.7)	566 (3.9)	493 (1.7)
Nonworking women, 18 to 44	15255	533 (7.0)	380 (4.0)	353 (3.5)	505 (6.0)	443 (2.7)
Working women, 18 to 44	26478	558 (2.9)	401 (2.0)	374 (1.9)	534 (2.7)	467 (1.2)
Nonworking men, 45 to 64	4750	526 (3.9)	385 (4.9)	359 (4.5)	497 (2.8)	442 (2.1)
Working men, 45 to 64	18668	595 (4.1)	430 (2.6)	397 (2.1)	575 (3.7)	499 (1.6)
Nonworking women, 45 to 64	9954	518 (5.0)	368 (3.4)	344 (3.4)	489 (4.4)	429 (2.1)
Working women, 45 to 64	15096	553 (3.4)	399 (2.5)	368 (2.0)	531 (3.4)	462 (1.4)
Men, 65+	10907	538 (6.6)	395 (4.7)	372 (3.5)	515 (6.7)	455 (2.8)
Women, 65+	11807	515 (5.6)	370 (4.0)	349 (3.9)	483 (4.9)	429 (2.3)
Outdoor workers	3516	661 (4.4)	490 (3.0)	469 (2.4)	641 (4.2)	565 (1.8)
Outdoor children	12572	579 (5.1)	408 (4.0)	379 (3.9)	549 (4.9)	478 (2.3)
Heart and respiratory	28313	518 (5.2)	375 (4.4)	350 (4.6)	491 (5.1)	433 (2.4)
All persons	194469	555 (7.7)	394 (5.2)	364 (4.5)	525 (7.1)	459 (3.1)

Highest quarter 1 exposure is 661 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 490 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 469 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 641 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 565 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Washington DC: Air District=6

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	115554	490 (6.4)	409 (5.5)	378 (4.7)	531 (7.1)	452 (3.0)
African americans	66600	477 (7.7)	396 (5.1)	366 (4.7)	511 (7.3)	437 (3.2)
Hispanics	27273	478 (8.4)	402 (6.3)	370 (5.2)	517 (8.6)	442 (3.6)
Household income lt \$10K	26362	462 (4.8)	384 (3.8)	356 (3.2)	499 (5.3)	425 (2.2)
Household income \$10K-\$25K	47158	486 (6.1)	407 (5.5)	373 (4.6)	526 (6.6)	448 (2.9)
Household income \$25K-\$50K	71177	491 (7.3)	410 (5.9)	380 (4.9)	532 (8.0)	453 (3.3)
Household income \$50K-\$75K	35780	496 (5.3)	414 (5.0)	383 (4.7)	539 (6.1)	458 (2.7)
Household income gt \$75K	25923	490 (5.6)	406 (4.3)	376 (3.5)	534 (6.2)	451 (2.5)
Children, 0 to 17	39287	487 (5.7)	408 (5.2)	379 (4.7)	528 (6.7)	450 (2.8)
Nonworking men, 18 to 44	12100	513 (6.9)	423 (5.8)	398 (4.5)	551 (7.7)	471 (3.2)
Working men, 18 to 44	41782	545 (3.9)	444 (3.2)	407 (2.8)	580 (3.9)	494 (1.7)
Nonworking women, 18 to 44	19365	475 (6.3)	394 (4.3)	365 (3.6)	512 (6.1)	437 (2.6)
Working women, 18 to 44	37765	515 (2.7)	417 (2.2)	388 (2.1)	546 (2.7)	466 (1.2)
Nonworking men, 45 to 64	4491	469 (3.6)	399 (5.0)	372 (4.7)	505 (3.0)	436 (2.1)
Working men, 45 to 64	13397	556 (3.8)	448 (2.8)	412 (2.3)	589 (3.7)	501 (1.6)
Nonworking women, 45 to 64	6925	462 (4.6)	381 (3.6)	356 (3.5)	496 (4.6)	424 (2.0)
Working women, 45 to 64	12442	509 (3.2)	415 (2.6)	383 (2.2)	543 (3.4)	462 (1.5)
Men, 65+	10405	479 (5.9)	411 (5.1)	387 (3.8)	524 (6.9)	450 (2.8)
Women, 65+	11272	459 (5.0)	383 (4.4)	362 (3.9)	492 (5.4)	424 (2.4)
Outdoor workers	5388	634 (4.8)	514 (3.4)	486 (2.7)	663 (4.5)	574 (2.0)
Outdoor children	10494	512 (4.4)	425 (4.1)	392 (4.0)	556 (5.0)	471 (2.2)
Heart and respiratory	28414	461 (4.6)	389 (4.7)	363 (4.9)	498 (5.3)	428 (2.5)
All persons	209231	494 (6.8)	409 (5.5)	378 (4.7)	533 (7.3)	453 (3.1)

Highest quarter 1 exposure is 634 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 514 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 486 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 663 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 574 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Washington DC: Air District=7

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	217350	394 (5.2)	296 (3.9)	321 (4.0)	381 (5.1)	348 (2.3)
African americans	11161	384 (6.3)	287 (3.7)	310 (4.0)	367 (5.4)	337 (2.5)
Hispanics	11381	384 (6.7)	291 (4.6)	314 (4.5)	371 (6.1)	340 (2.8)
Household income lt \$10K	10493	371 (3.8)	278 (2.7)	301 (2.7)	358 (3.8)	327 (1.7)
Household income \$10K-\$25K	22727	391 (4.9)	295 (3.9)	317 (4.0)	378 (4.7)	345 (2.2)
Household income \$25K-\$50K	71895	394 (5.9)	297 (4.2)	322 (4.1)	382 (5.8)	349 (2.5)
Household income \$50K-\$75K	68596	398 (4.3)	300 (3.6)	325 (4.0)	387 (4.4)	352 (2.0)
Household income gt \$75K	77611	394 (4.6)	294 (3.1)	320 (2.9)	383 (4.5)	348 (1.9)
Children, 0 to 17	62782	392 (4.6)	295 (3.7)	322 (4.0)	380 (4.8)	347 (2.2)
Nonworking men, 18 to 44	9272	411 (5.3)	307 (4.3)	336 (3.9)	393 (5.2)	361 (2.4)
Working men, 18 to 44	50525	440 (3.4)	331 (2.5)	344 (2.3)	428 (3.3)	385 (1.5)
Nonworking women, 18 to 44	17699	381 (5.0)	286 (3.1)	310 (3.1)	367 (4.4)	336 (2.0)
Working women, 18 to 44	43617	415 (2.3)	308 (1.7)	328 (1.7)	400 (2.2)	363 (1.0)
Nonworking men, 45 to 64	4559	377 (3.0)	290 (3.6)	316 (3.9)	361 (2.1)	336 (1.6)
Working men, 45 to 64	23653	449 (3.3)	334 (2.2)	346 (1.9)	437 (3.1)	391 (1.4)
Nonworking women, 45 to 64	8897	371 (3.6)	277 (2.6)	303 (3.0)	355 (3.2)	326 (1.6)
Working women, 45 to 64	19796	410 (2.8)	308 (2.1)	323 (1.9)	399 (2.9)	360 (1.2)
Men, 65+	6254	386 (4.8)	298 (3.6)	329 (3.2)	375 (5.0)	347 (2.1)
Women, 65+	6437	369 (4.2)	278 (3.2)	307 (3.5)	352 (3.9)	327 (1.8)
Outdoor workers	5154	519 (4.0)	390 (2.6)	410 (2.0)	503 (3.8)	455 (1.6)
Outdoor children	18999	413 (3.5)	307 (3.0)	333 (3.4)	400 (3.5)	363 (1.7)
Heart and respiratory	31548	371 (3.7)	282 (3.4)	308 (4.2)	357 (3.8)	329 (1.9)
All persons	253491	397 (5.5)	296 (4.0)	320 (4.0)	382 (5.2)	349 (2.4)

Highest quarter 1 exposure is 519 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 390 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 410 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 503 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 455 $\mu\text{g}/\text{m}^3$ for Outdoor workers

Washington DC: Air District=19

HAPEM3 District Average (Standard Deviation) Exposure in $\mu\text{g}/\text{m}^3$ by Calendar Quarter and Annually for 1990

Demographic Group	Population	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Caucasians	1280746	567 (7.3)	441 (5.9)	428 (5.4)	583 (7.7)	505 (3.3)
African americans	444521	552 (8.9)	426 (5.4)	414 (5.4)	561 (8.0)	488 (3.5)
Hispanics	96379	554 (9.8)	433 (6.9)	418 (6.0)	568 (9.4)	493 (4.1)
Household income lt \$10K	103281	534 (5.4)	415 (4.1)	402 (3.7)	547 (5.7)	474 (2.4)
Household income \$10K-\$25K	289272	563 (7.0)	439 (5.9)	422 (5.4)	578 (7.3)	501 (3.2)
Household income \$25K-\$50K	661240	567 (8.3)	442 (6.3)	430 (5.6)	584 (8.7)	505 (3.7)
Household income \$50K-\$75K	445730	573 (6.0)	446 (5.4)	434 (5.4)	591 (6.6)	511 (2.9)
Household income gt \$75K	339391	565 (6.2)	438 (4.5)	425 (3.9)	585 (6.6)	503 (2.7)
Children, 0 to 17	480822	562 (6.4)	440 (5.6)	429 (5.4)	579 (7.3)	503 (3.1)
Nonworking men, 18 to 44	80832	595 (7.9)	458 (6.5)	448 (5.2)	604 (8.4)	526 (3.6)
Working men, 18 to 44	374962	602 (6.0)	466 (4.5)	444 (4.1)	617 (5.9)	532 (2.6)
Nonworking women, 18 to 44	142991	550 (7.2)	426 (4.6)	413 (4.2)	562 (6.7)	488 (2.9)
Working women, 18 to 44	326328	572 (4.1)	440 (3.1)	428 (3.1)	584 (4.1)	506 (1.8)
Nonworking men, 45 to 64	30507	544 (4.2)	432 (5.5)	422 (5.4)	554 (3.2)	488 (2.3)
Working men, 45 to 64	136694	609 (5.7)	467 (3.9)	445 (3.2)	625 (5.6)	536 (2.4)
Nonworking women, 45 to 64	56188	535 (5.3)	413 (3.9)	403 (4.1)	544 (4.9)	474 (2.3)
Working women, 45 to 64	118255	567 (4.8)	438 (3.9)	420 (3.3)	580 (5.1)	501 (2.2)
Men, 65+	62804	555 (6.9)	444 (5.5)	439 (4.4)	574 (7.6)	503 (3.1)
Women, 65+	68166	532 (5.9)	415 (4.8)	409 (4.6)	540 (5.8)	474 (2.7)
Outdoor workers	52210	679 (6.2)	529 (4.2)	522 (3.3)	690 (6.0)	605 (2.5)
Outdoor children	133353	591 (5.0)	457 (4.5)	444 (4.6)	610 (5.4)	525 (2.4)
Heart and respiratory	237042	533 (5.2)	420 (5.2)	410 (5.7)	546 (5.7)	477 (2.7)
All persons	1878532	570 (7.8)	441 (5.9)	427 (5.4)	584 (7.9)	505 (3.4)

Highest quarter 1 exposure is 679 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 2 exposure is 529 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 3 exposure is 522 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest quarter 4 exposure is 690 $\mu\text{g}/\text{m}^3$ for Outdoor workers
 Highest annual exposure is 605 $\mu\text{g}/\text{m}^3$ for Outdoor workers