

Table. Concentration of ozone at which a population would be expected to experience an FEV₁ decrement of 5%, given different exposure times and ventilation rates (V_E – ie. exercise levels)

		>4 hour Dose (ppm x 954)	<=4 hour Dose (ppm x L) 740									
FEV₁ Decrement = 5%			Ozone Concentration (ppb)									
			Time (hrs)									
Source	Population & Exercise	V_E (L/min)	1	2	3	4	5	6	7	8	12	24
EPA	Sedentary Child	5	2569	1285	856	642	663	552	473	414	276	138
EPA	Sedentary Adult	5	2327	1164	776	582	600	500	429	375	250	125
EPA	Light Int Child	11	1121	561	374	280	289	241	206	181	120	60
EPA	Light Int Adult	12	1028	514	343	257	265	221	189	166	110	55
TCEQ	General Pop (24 hr)	14	881	440	294	220	227	189	162	142	95	47
Samet	Child Outdoor Play	16	771	385	257	193	199	166	142	124	83	41
EPA	Med Int Child	22	561	280	187	140	145	120	103	90	60	30
TCEQ	Adult Worker (8 hr)	22	561	280	187	140	145	120	103	90	60	30
Zuurbier	Adult Bicycle Commute	24	525	262	175	131	135	113	97	85	56	28
EPA	Med Int Adult	26	474	237	158	119	122	102	87	76	51	25
Samet	Child Bicycling	27	457	228	152	114	118	98	84	74	49	25
EPA	High Int Child	42	294	147	98	73	76	63	54	47	32	16
EPA	High Int Adult	50	247	123	82	62	64	53	45	40	27	13
Samet	Adult Male Bicycling	65	190	95	63	47	49	41	35	31	20	10

Note: for times ≤ 4 hours, the short dose-response curve was used and for times > 4 hours, the long dose-response curve was used.

Table. Concentration of ozone at which a population would be expected to experience an FEV₁ decrement of 10%, given different exposure times and ventilation rates (V_E – ie. exercise levels)

		>4 hour Dose (ppm x 1553)	<=4 hour Dose (ppm x L) 927									
FEV₁ Decrement = 10%			Ozone Concentration (ppb)									
			Time (hrs)									
Source	Population & Exercise	V_E (L/min)	1	2	3	4	5	6	7	8	12	24
EPA	Sedentary Child	5	3219	1609	1073	805	1078	899	770	674	449	225
EPA	Sedentary Adult	5	2915	1458	972	729	977	814	698	610	407	203
EPA	Light Int Child	11	1405	702	468	351	471	392	336	294	196	98
EPA	Light Int Adult	12	1288	644	429	322	431	359	308	270	180	90
TCEQ	General Pop (24 hr)	14	1104	552	368	276	370	308	264	231	154	77
Samet	Child Outdoor Play	16	966	483	322	241	324	270	231	202	135	67
EPA	Med Int Child	22	702	351	234	176	235	196	168	147	98	49
TCEQ	Adult Worker (8 hr)	22	702	351	234	176	235	196	168	147	98	49
Zuurbier	Adult Bicycle Commute	24	657	329	219	164	220	184	157	138	92	46
EPA	Med Int Adult	26	594	297	198	149	199	166	142	124	83	41
Samet	Child Bicycling	27	572	286	191	143	192	160	137	120	80	40
EPA	High Int Child	42	368	184	123	92	123	103	88	77	51	26
EPA	High Int Adult	50	309	155	103	77	104	86	74	65	43	22
Samet	Adult Male Bicycling	65	238	119	79	59	80	66	57	50	33	17
	Study Protocol	32	483	241	161	121	162	135	116	101	67	34

Note: for times ≤ 4 hours, the short dose-response curve was used and for times > 4 hours, the long dose-response curve was used.