

### Diesel Exhaust PM Risk (Potential Cancer Cases in A Million) for 100 HP Engines

Hours	EF = 0.02 g/bhp-hr											EF = 0.15 g/bhp-hr										
	Downwind Distance (m)											Downwind Distance (m)										
	20	30	40	50	70	100	200	400	800	1200	1600	20	30	40	50	70	100	200	400	800	1200	1600
10	0	0	0	0	0	0	0	0	0	0	0	2	2	1	1	1	0	0	0	0	0	0
20	1	1	0	0	0	0	0	0	0	0	0	4	4	3	2	1	1	0	0	0	0	0
30	1	1	1	0	0	0	0	0	0	0	0	6	5	4	3	2	1	0	0	0	0	0
40	1	1	1	1	0	0	0	0	0	0	0	8	7	5	4	2	1	0	0	0	0	0
50	1	1	1	1	0	0	0	0	0	0	0	11	9	6	5	3	1	0	0	0	0	0
100	3	2	2	1	1	0	0	0	0	0	0	21	17	13	9	5	3	1	0	0	0	0
150	4	4	3	2	1	1	0	0	0	0	0	32	26	19	14	8	4	1	0	0	0	0
200	6	5	3	2	1	1	0	0	0	0	0	42	35	25	18	10	5	1	0	0	0	0
300	8	7	5	4	2	1	0	0	0	0	0	63	52	38	27	16	8	2	1	0	0	0
400	11	9	7	5	3	1	0	0	0	0	0	84	70	51	36	21	11	3	1	0	0	0
500	14	12	8	6	4	2	1	0	0	0	0	106	87	63	46	26	14	4	1	0	0	0
1000	28	23	17	12	7	4	1	0	0	0	0	211	174	126	91	52	27	7	2	0	0	0

Hours	EF = 0.4 g/bhp-hr											EF = 0.55 g/bhp-hr										
	Downwind Distance (m)											Downwind Distance (m)										
	20	30	40	50	70	100	200	400	800	1200	1600	20	30	40	50	70	100	200	400	800	1200	1600
10	6	5	3	2	1	1	0	0	0	0	0	8	6	5	3	2	1	0	0	0	0	0
20	11	9	7	5	3	1	0	0	0	0	0	16	13	9	7	4	2	1	0	0	0	0
30	17	14	10	7	4	2	1	0	0	0	0	23	19	14	10	6	3	1	0	0	0	0
40	23	19	14	10	6	3	1	0	0	0	0	31	26	19	13	8	4	1	0	0	0	0
50	28	23	17	12	7	4	1	0	0	0	0	39	32	23	17	10	5	1	0	0	0	0
100	56	46	34	24	14	7	2	1	0	0	0	77	64	46	33	19	10	3	1	0	0	0
150	84	70	51	36	21	11	3	1	0	0	0	116	96	69	50	29	15	4	1	0	0	0
200	113	93	67	49	28	15	4	1	0	0	0	155	127	93	67	38	20	5	1	0	0	0
300	169	139	101	73	42	22	6	1	0	0	0	232	191	139	100	57	30	8	2	1	0	0
400	225	185	135	97	56	29	8	2	1	0	0	310	255	185	134	77	40	10	3	1	0	0
500	281	232	168	122	70	36	9	2	1	0	0	387	319	232	167	96	50	13	3	1	0	0
1000	563	463	337	243	139	72	19	5	1	1	0	774	637	463	334	191	100	26	6	2	1	0

Hours	EF = 1.0 g/bhp-hr										
	Downwind Distance (m)										
	20	30	40	50	70	100	200	400	800	1200	1600
10	14	12	9	6	4	2	1	0	0	0	0
20	28	23	17	12	7	4	1	0	0	0	0
30	42	35	25	18	11	6	2	0	0	0	0
40	56	46	34	24	14	7	2	1	0	0	0
50	70	58	42	30	18	9	2	1	0	0	0
100	141	116	84	61	35	18	5	1	0	0	0
150	211	174	126	91	52	27	7	2	1	0	0
200	281	232	168	122	70	36	10	2	1	0	0
300	422	348	253	182	105	54	14	4	1	0	0
400	563	464	337	243	139	73	19	5	1	1	0
500	704	579	421	304	174	91	24	6	2	1	1
1000	1407	1159	842	608	348	181	47	12	3	1	1

Assume: 75% load.

Model used: ISCST3; Meteorological Data: West Los Angeles (1981), Urban Option.

The bold number indicates the downwind distance at the maximum risks.