

Diesel Exhaust PM Risk (Potential Cancer Cases in A Million) for 300 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	2	2	1	0	0	0	0	0	0
20	1	1	1	0	0	0	0	0	0	0	0	5	5	4	3	2	1	0	0	0	0	0
30	1	1	1	1	0	0	0	0	0	0	0	7	7	6	5	3	2	0	0	0	0	0
40	1	1	1	1	0	0	0	0	0	0	0	9	9	8	6	4	2	1	0	0	0	0
50	2	2	1	1	1	0	0	0	0	0	0	11	11	10	8	5	3	1	0	0	0	0
100	3	3	3	2	1	1	0	0	0	0	0	23	23	19	15	9	5	1	0	0	0	0
150	5	5	4	3	2	1	0	0	0	0	0	34	34	29	23	14	8	2	0	0	0	0
200	6	6	5	4	3	1	0	0	0	0	0	45	45	39	30	19	10	3	1	0	0	0
300	9	9	8	6	4	2	1	0	0	0	0	68	68	58	46	28	16	4	1	0	0	0
400	12	12	10	8	5	3	1	0	0	0	0	91	91	77	61	38	21	6	1	0	0	0
500	15	15	13	10	6	3	1	0	0	0	0	114	114	96	76	47	26	7	2	0	0	0
1000	30	30	26	20	13	7	2	0	0	0	0	227	227	193	152	95	52	14	3	1	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	6	5	4	2	1	0	0	0	0	0	8	8	7	6	3	2	0	0	0	0	0
20	12	12	10	8	5	3	1	0	0	0	0	17	17	14	11	7	4	1	0	0	0	0
30	18	18	16	12	7	4	1	0	0	0	0	25	25	21	17	10	6	2	0	0	0	0
40	24	24	21	16	10	6	2	0	0	0	0	33	33	28	22	14	8	2	0	0	0	0
50	30	30	26	20	12	7	2	0	0	0	0	41	41	36	28	17	9	3	0	0	0	0
100	61	61	51	40	25	14	4	1	0	0	0	83	83	71	56	35	19	5	1	0	0	0
150	91	91	77	61	38	21	6	1	0	0	0	125	125	106	83	52	28	8	2	0	0	0
200	121	121	103	81	50	28	7	2	0	0	0	166	166	142	111	69	38	10	3	0	0	0
300	182	182	154	121	76	41	11	3	1	0	0	250	250	212	167	104	57	15	4	1	0	0
400	242	242	206	162	101	55	15	4	1	0	0	333	333	283	222	139	76	21	5	1	0	0
500	303	303	257	202	126	69	19	5	1	1	0	416	416	354	278	173	95	26	6	2	1	0
1000	605	605	515	405	252	138	37	9	2	1	1	832	832	708	557	347	190	51	12	3	1	1

Hours	EF = 1.0 g/bhp-hr										
	Downwind Distance (m)										
	20	30	40	50	70	100	200	400	800	1200	1600
10	15	15	13	10	6	3	1	0	0	0	0
20	30	30	26	20	12	7	2	1	0	0	0
30	45	45	39	30	19	10	3	1	0	0	0
40	61	61	51	40	25	14	4	1	0	0	0
50	75	75	65	51	31	17	5	1	0	0	0
100	152	152	128	101	63	34	9	2	1	0	0
150	227	227	193	152	94	51	14	3	1	0	0
200	303	303	257	202	126	69	19	5	1	1	0
300	454	454	386	303	189	103	28	7	2	1	1
400	606	606	515	404	252	138	37	9	2	1	1
500	757	757	643	506	315	172	47	12	3	2	1
1000	1514	1514	1286	1012	630	345	93	23	5	2	2

Assume: 50% load.

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

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