

Diesel Exhaust PM Risk (Potential Cancer Cases in A Million) for 600 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	2	1	0	0	0	0	0
20	1	1	1	1	0	0	0	0	0	0	0	4	4	4	4	3	2	1	0	0	0	0
30	1	1	1	1	1	0	0	0	0	0	0	6	6	6	6	4	3	1	0	0	0	0
40	1	1	1	1	1	0	0	0	0	0	0	9	9	9	8	6	4	1	0	0	0	0
50	1	1	1	1	1	1	0	0	0	0	0	11	11	11	10	7	5	1	0	0	0	0
100	3	3	3	3	2	1	0	0	0	0	0	21	21	21	20	15	9	3	1	0	0	0
150	4	4	4	4	3	2	1	0	0	0	0	32	32	32	30	22	14	4	1	0	0	0
200	6	6	6	5	4	2	1	0	0	0	0	43	43	43	40	30	18	5	1	0	0	0
300	9	9	9	8	6	4	1	0	0	0	0	64	64	64	60	45	27	8	2	0	0	0
400	11	11	11	11	8	5	1	0	0	0	0	85	85	85	80	60	36	11	3	1	0	0
500	14	14	14	13	10	6	2	0	0	0	0	107	107	107	101	75	46	13	3	1	0	0
1000	28	28	28	27	20	12	4	1	0	0	0	213	213	213	201	149	91	27	7	2	1	0

Hours	EF = 0.40 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	6	5	4	2	1	0	0	0	0	8	8	8	7	6	3	1	0	0	0	0
20	12	12	12	11	8	5	2	0	0	0	0	16	16	16	15	11	7	2	0	0	0	0
30	17	17	17	16	12	7	2	1	0	0	0	24	24	24	22	16	10	3	1	0	0	0
40	23	23	23	21	16	10	3	1	0	0	0	31	31	31	30	22	13	4	1	0	0	0
50	28	28	28	27	20	12	4	1	0	0	0	39	39	39	37	27	17	5	1	0	0	0
100	57	57	57	54	40	24	7	2	0	0	0	78	78	78	74	55	33	10	3	0	0	0
150	85	85	85	80	60	36	11	3	1	0	0	117	117	117	110	82	50	15	4	1	0	0
200	114	114	114	107	80	49	14	4	1	0	0	157	157	157	148	110	67	20	5	1	0	0
300	171	171	171	161	119	73	21	5	1	1	0	235	235	235	221	164	100	30	7	2	1	0
400	227	227	227	214	159	97	29	7	2	1	1	313	313	313	295	219	133	39	10	3	1	1
500	284	284	284	268	199	122	36	9	2	1	1	391	391	391	369	273	167	49	12	3	1	1
1000	569	569	569	536	398	243	72	18	4	2	1	782	782	782	737	547	334	99	25	6	3	2

Hours	EF = 1.0 g/bhp-hr										
	Downwind Distance (m)										
	20	30	40	50	70	100	200	400	800	1200	1600
10	14	14	14	13	10	6	2	1	0	0	0
20	29	29	29	26	20	12	4	1	0	0	0
30	43	43	43	40	30	18	5	2	0	0	0
40	57	57	57	54	40	24	7	2	1	0	0
50	71	71	71	67	50	30	9	2	1	0	0
100	142	142	142	134	100	61	18	5	1	1	0
150	213	213	213	201	149	91	27	7	2	1	1
200	285	285	285	268	199	121	36	9	2	1	1
300	427	427	427	402	298	182	54	13	3	2	1
400	569	569	569	536	397	243	72	18	5	2	2
500	711	711	711	670	497	304	89	23	5	2	2
1000	1422	1422	1422	1340	994	607	180	45	11	5	3

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.