Diesel Exhaust PM Risk (Potential Cancer Cases in A Million) for 175 HP Engines

	EF = 0.02 g/bhp-hr											EF = 0.15 g/bhp-hr										
	Downwind Distance (m)											Downwind Distance (m)										
Hours	**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	7	6	4	3	2	1	0	0	0	0	0
40	1	1	1	1	0	0	0	0	0	0	0	9	8	6	4	2	1	0	0	0	0	0
50	1	1	1	1	0	0	0	0	0	0	0	11	10	7	5	3	2	0	0	0	0	0
100	3	3	2	1	1	0	0	0	0	0	0	22	19	14	10	6	3	1	0	0	0	0
150	4	4	3	2	1	1	0	0	0	0	0	34	29	21	16	9	5	1	0	0	0	0
200	6	5	4	3	2	1	0	0	0	0	0	45	39	29	21	12	6	2	0	0	0	0
300	9	8	6	4	2	1	0	0	0	0	0	67	58	43	31	18	9	2	1	0	0	0
400	12	10	8	6	3	2	0	0	0	0	0	90	77	57	42	24	13	3	1	0	0	0
500	15	13	10	7	4	2	1	0	0	0	0	112	96	71	52	30	16	4	1	0	0	0
1000	30	26	19	14	8	4	1	0	0	0	0	224	193	143	104	60	32	8	2	0	0	0

	EF = 0.4 g/bhp-hr											EF = 0.55 g/bhp-hr										
	Downwind Distance (m)											Downwind Distance (m)										
Hours	**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	4	3	2	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0
20	12	10	7	6	3	2	0	0	0	0	0	2	2	1	1	1	0	0	0	0	0	0
30	18	16	12	8	5	2	1	0	0	0	0	3	3	2	2	1	0	0	0	0	0	0
40	24	21	15	11	7	3	1	0	0	0	0	4	4	3	2	1	1	0	0	0	0	0
50	30	26	19	14	8	4	1	0	0	0	0	5	5	3	3	1	1	0	0	0	0	0
100	60	51	38	28	16	8	2	1	0	0	0	11	9	7	5	3	2	0	0	0	0	0
150	90	77	57	42	24	13	3	1	0	0	0	16	14	10	7	4	2	1	0	0	0	0
200	120	103	76	55	32	17	4	1	0	0	0	21	18	14	10	6	3	1	0	0	0	0
300	180	154	114	83	48	25	7	2	0	0	0	32	27	20	15	9	5	1	0	0	0	0
400	239	206	152	111	64	34	9	2	1	0	0	42	36	27	20	11	6	2	0	0	0	0
500	299	257	190	139	80	42	11	3	1	0	0	53	46	34	25	14	7	2	1	0	0	0
1000	599	515	381	278	161	84	22	5	1	1	0	106	91	67	49	28	15	4	1	0	0	0

	EF = 1.0 g/bhp-hr										
	Downwind Distance (m)										
Hours	**20**	30	40	50	70	100	200	400	800	1200	1600
10	15	13	9	7	4	2	1	0	0	0	0
20	30	26	19	14	8	4	1	0	0	0	0
30	45	39	29	21	12	6	2	1	0	0	0
40	60	51	38	28	16	9	2	1	0	0	0
50	75	65	47	35	20	11	3	1	0	0	0
100	149	128	95	69	40	21	5	2	0	0	0
150	225	193	143	104	60	32	9	2	1	0	0
200	299	257	191	138	80	42	11	2	1	0	0
300	449	386	285	208	121	63	16	4	1	1	0
400	598	515	381	278	160	84	22	5	2	1	0
500	748	643	476	347	201	105	27	7	2	1	1
1000	1496	1286	952	694	401	210	54	13	3	2	1

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.