Diesel Exhaust PM Risk (Potential Cancer Cases in A Million) for 100 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	1	1	1	0	0	0	0	0	0	0
20	1	0	0	0	0	0	0	0	0	0	0	4	3	2	1	1	0	0	0	0	0	0
30	1	1	0	0	0	0	0	0	0	0	0	6	4	3	2	1	1	0	0	0	0	0
40	1	1	0	0	0	0	0	0	0	0	0	8	6	4	3	1	1	0	0	0	0	0
50	1	1	1	0	0	0	0	0	0	0	0	10	7	5	3	2	1	0	0	0	0	0
100	3	2	1	1	0	0	0	0	0	0	0	20	14	9	7	4	2	0	0	0	0	0
150	4	3	2	1	1	0	0	0	0	0	0	30	21	14	10	5	3	1	0	0	0	0
200	5	4	3	2	1	0	0	0	0	0	0	40	28	19	13	7	4	1	0	0	0	0
300	8	6	4	3	1	1	0	0	0	0	0	60	42	28	20	11	5	1	0	0	0	0
400	11	7	5	3	2	1	0	0	0	0	0	80	56	38	26	14	7	2	0	0	0	0
500	13	9	6	4	2	1	0	0	0	0	0	100	70	47	33	18	9	2	1	0	0	0
1000	27	19	13	9	5	2	1	0	0	0	0	200	139	94	65	36	18	5	1	0	0	0

	EF = 0.40 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	5	4	2	2	1	1	0	0	0	0	0	7	5	3	3	1	1	0	0	0	0	0
20	11	7	5	3	2	1	0	0	0	0	0	15	10	7	5	3	1	0	0	0	0	0
30	16	11	7	5	3	2	0	0	0	0	0	22	15	10	7	4	2	0	0	0	0	0
40	21	15	10	7	4	2	1	0	0	0	0	29	21	14	9	5	3	1	0	0	0	0
50	27	19	12	9	5	2	1	0	0	0	0	37	26	17	12	7	3	1	0	0	0	0
100	53	37	25	17	10	5	1	0	0	0	0	73	51	35	24	13	7	2	0	0	0	0
150	80	56	38	26	15	7	2	0	0	0	0	110	77	52	36	20	10	3	0	0	0	0
200	106	74	50	35	19	10	2	1	0	0	0	146	102	69	48	27	14	3	1	0	0	0
300	160	111	75	52	29	15	4	1	0	0	0	220	153	104	72	40	20	5	1	0	0	0
400	213	148	100	70	39	20	5	1	0	0	0	293	204	138	96	53	27	7	2	0	0	0
500	266	185	126	87	48	25	6	2	0	0	0	366	255	173	120	66	34	9	2	0	0	0
1000	533	371	251	175	96	49	12	3	1	0	0	732	510	345	240	133	68	17	4	1	0	0

	EF = 1.0 g/bhp-hr										
	Downwind Distance (m)										
Hours	**20**	30	40	50	70	100	200	400	800	1200	1600
10	13	9	6	5	2	2	0	0	0	0	0
20	26	19	12	9	5	2	1	0	0	0	0
30	40	28	19	13	7	4	1	0	0	0	0
40	53	37	25	17	9	5	2	0	0	0	0
50	67	47	31	22	12	6	2	0	0	0	0
100	133	93	63	44	24	12	3	1	0	0	0
150	200	139	94	65	37	19	5	1	0	0	0
200	266	185	125	87	48	25	6	2	0	0	0
300	400	278	188	131	72	37	9	2	1	0	0
400	533	371	251	174	96	49	12	3	1	0	0
500	666	464	314	218	121	61	16	4	1	1	0
1000	1332	927	628	436	241	123	31	8	2	1	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.