Construction Noise Levels (Sensitive Receptors)

Construction Equipment Noise Levels - 76 dBA	2
Construction Equipment Noise Levels - 77 dBA	3
Construction Equipment Noise Levels - 80 dBA	4
Construction Equipment Noise Levels - 82 dBA	5
Construction Equipment Noise Levels - 83 dBA	6
Construction Equipment Noise Levels - 84 dBA	7
Construction Equipment Noise Levels - 85 dBA	8
Construction Equipment Noise Levels - 88 dBA	9
Construction Equipment Noise Levels - 90 dBA	10
Construction Equipment Noise Levels - 95 dBA	11

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	76	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	76.0	dBA
100	ft	70.0	dBA
150	ft	66.5	dBA
200	ft	64.0	dBA
400	ft	57.9	dBA
5127	ft	35.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	32	ft
75	dBA	56	ft
70	dBA	100	ft
65	dBA	177	ft
60	dBA	315	ft
55	dBA	561	ft
50	dBA	998	ft
45	dBA	1774	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	77	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	77.0	dBA
100	ft	71.0	dBA
150	ft	67.5	dBA
200	ft	65.0	dBA
400	ft	58.9	dBA
5127	ft	36.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	35	ft
75	dBA	63	ft
70	dBA	112	ft
65	dBA	199	ft
60	dBA	354	ft
55	dBA	629	ft
50	dBA	1119	ft
45	dBA	1991	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	80	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	80.0	dBA
100	ft	74.0	dBA
150	ft	70.5	dBA
200	ft	68.0	dBA
400	ft	61.9	dBA
5127	ft	39.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	50	ft
75	dBA	89	ft
70	dBA	158	ft
65	dBA	281	ft
60	dBA	500	ft
55	dBA	889	ft
50	dBA	1581	ft
45	dBA	2812	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	82	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	82.0	dBA
100	ft	76.0	dBA
150	ft	72.5	dBA
200	ft	70.0	dBA
400	ft	63.9	dBA
5127	ft	41.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	63	ft
75	dBA	112	ft
70	dBA	199	ft
65	dBA	354	ft
60	dBA	629	ft
55	dBA	1119	ft
50	dBA	1991	ft
45	dBA	3540	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	83	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	83.0	dBA
100	ft	77.0	dBA
150	ft	73.5	dBA
200	ft	71.0	dBA
400	ft	64.9	dBA
5127	ft	42.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	71	ft
75	dBA	126	ft
70	dBA	223	ft
65	dBA	397	ft
60	dBA	706	ft
55	dBA	1256	ft
50	dBA	2233	ft
45	dBA	3972	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	84	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	84.0	dBA
100	ft	78.0	dBA
150	ft	74.5	dBA
200	ft	72.0	dBA
400	ft	65.9	dBA
5127	ft	43.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	79	ft
75	dBA	141	ft
70	dBA	251	ft
65	dBA	446	ft
60	dBA	792	ft
55	dBA	1409	ft
50	dBA	2506	ft
45	dBA	4456	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	85	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	85.0	dBA
100	ft	79.0	dBA
150	ft	75.5	dBA
200	ft	73.0	dBA
400	ft	66.9	dBA
5127	ft	44.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	89	ft
75	dBA	158	ft
70	dBA	281	ft
65	dBA	500	ft
60	dBA	889	ft
55	dBA	1581	ft
50	dBA	2812	ft
45	dBA	5000	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	88	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	88.0	dBA
100	ft	82.0	dBA
150	ft	78.5	dBA
200	ft	76.0	dBA
400	ft	69.9	dBA
5127	ft	47.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	126	ft
75	dBA	223	ft
70	dBA	397	ft
65	dBA	706	ft
60	dBA	1256	ft
55	dBA	2233	ft
50	dBA	3972	ft
45	dBA	7063	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	90	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	90.0	dBA
100	ft	84.0	dBA
150	ft	80.5	dBA
200	ft	78.0	dBA
400	ft	71.9	dBA
5127	ft	49.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	158	ft
75	dBA	281	ft
70	dBA	500	ft
65	dBA	889	ft
60	dBA	1581	ft
55	dBA	2812	ft
50	dBA	5000	ft
45	dBA	8891	ft

Noise Attenuation and Contours

Input Variables

Point or Line Source	Point	
Hard or Soft Site	Hard	
Attenuation Rate	6	dBA/Doubling of Distance
(Choice: 3, 4.5, 6, or 7.5)		
Reference Noise Level	95	dBA
Reference Distance	50	feet

Note: Within 0-10 feet from the source, there is virtually no attenuation.

Noise Level at Receiver

Distance to Receiver		Noise Level	
50	ft	95.0	dBA
100	ft	89.0	dBA
150	ft	85.5	dBA
200	ft	83.0	dBA
400	ft	76.9	dBA
5127	ft	54.8	dBA

Noise Contours

Noise Level Contour		Distance from Source	
80	dBA	281	ft
75	dBA	500	ft
70	dBA	889	ft
65	dBA	1581	ft
60	dBA	2812	ft
55	dBA	5000	ft
50	dBA	8891	ft
45	dBA	15811	ft