



## TYPICAL DECIBEL LEVELS EXPERIENCED THROUGH INTERACTIONS WITH MUSICAL INSTRUMENTS AND MUSIC-PRODUCING ENVIRONMENTS.

(Source: Occupational Safety and Health Administration)

Musical Instrument	Noise Level (dB)	Permissible Exposure Duration at Peak dB Level(1)
Cello	82-92	4.0 hrs.
Clarinet	92-103	1.5 hrs.
Flute	95-112	0.25 hrs.
French Horn	90-106	0.50 hrs.
Guitar, Electric	90 - 110	1.0 hrs.
Oboe	90-94	4.0 hrs.
Piano (fortissimo)	92-95	4.0 hrs.
Timpani and bass drum rolls	106	1.0 hrs.
Trombone	85-114	0.50 hrs.
Trumpet	100 - 110	1.0 hrs.
Violin	84-103	1.0 hrs.
Situations	Noise Level (dB)	Permissible Exposure Duration at Peak dB Level(1)
Amplified Rock Music (4-5 feet away)	120	0.25 hrs.
Chamber Music (small auditorium)	75-85	4.0 hrs.
Fortissimo Singer (3 feet away)	70	4.0 hrs.
Normal Piano Practice	60-70	4.0 hrs.
Rock music Peak	150	0.25 hrs.
Symphonic Music Peak	120-137	0.25 hrs.
Personal Music Player	100 - 120	0.25 hrs.

(1) Based on Occupational Health and Safety (OSHA) guidelines for limitations on exposure to noise at various dB levels.