

Audiogram of the Indian elephant (*Elephas maximus*)

Data from: Heffner, R.S., and Heffner, H.E. (1982) Hearing in the elephant: Absolute thresholds, frequency discrimination, and sound localization. *Journal of Comparative and Physiological Psychology*, 96, 926-944.

Absolute thresholds (in dB re 20 $\mu\text{N}/\text{m}^2$) for an Indian elephant

Frequency (in kHz)	Average Threshold (in dB)
.016	65
.020	52.5
.0315	43.5
.063	38.5
.125	36.5
.250	24.5
.500	24
1	8
2	19
4	23
8	42
10	55.5
12	72
14	79

Lowest and highest frequencies audible at sound pressure levels (SPL) ranging from 30 to 70 dB SPL

SPL (in dB)	Lowest audible frequency (in kHz)	Highest audible frequency (in kHz)
70	.0145	11.8
60	.017	10.5
50	.0225	9.2
40	.050	7.5
30	.180	4.2

Additional Parameters:

Body weight = 3000 kg

Functional interaural distance= 3350 μs

(Time required for sound to travel around the head from one auditory meatus to the other.)

Comments: Threshold values taken from original data.