

# Audiogram of domestic cattle (*Bos taurus*)

**Data from:** Heffner, R., and Heffner, H. (1983). Hearing in large mammals: The horse (*Equus caballus*) and cattle (*Bos taurus*). *Behavioral Neuroscience*, 97, 299-309.

## Absolute thresholds (in dB re 20 $\mu\text{N}/\text{m}^2$ ) for two domestic cattle (designated A and B)

Frequency (in kHz)	Individual Thresholds (in dB)		Average
	A	B	
.0167	>69	65	~70
.020	76	53	62
.0315	58	53	56
.062	41	45	43
.125	38	28	33
.250	24	21	23
.500	13	9	11
1	4	9	7
2	-2	0	-1
4	-7	-5	-6
8	-13	-10	-11
16	13	12	12.5
32	40	46	43
40	82	70	76

## 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	.017	37
60	.023	35
50	.043	33
40	.076	30
30	.150	24

### Additional Parameters:

**Body weight** = 450 kg

**Functional interaural distance** = 1281  $\mu\text{s}$

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

**Comments:** Threshold values taken from original data.