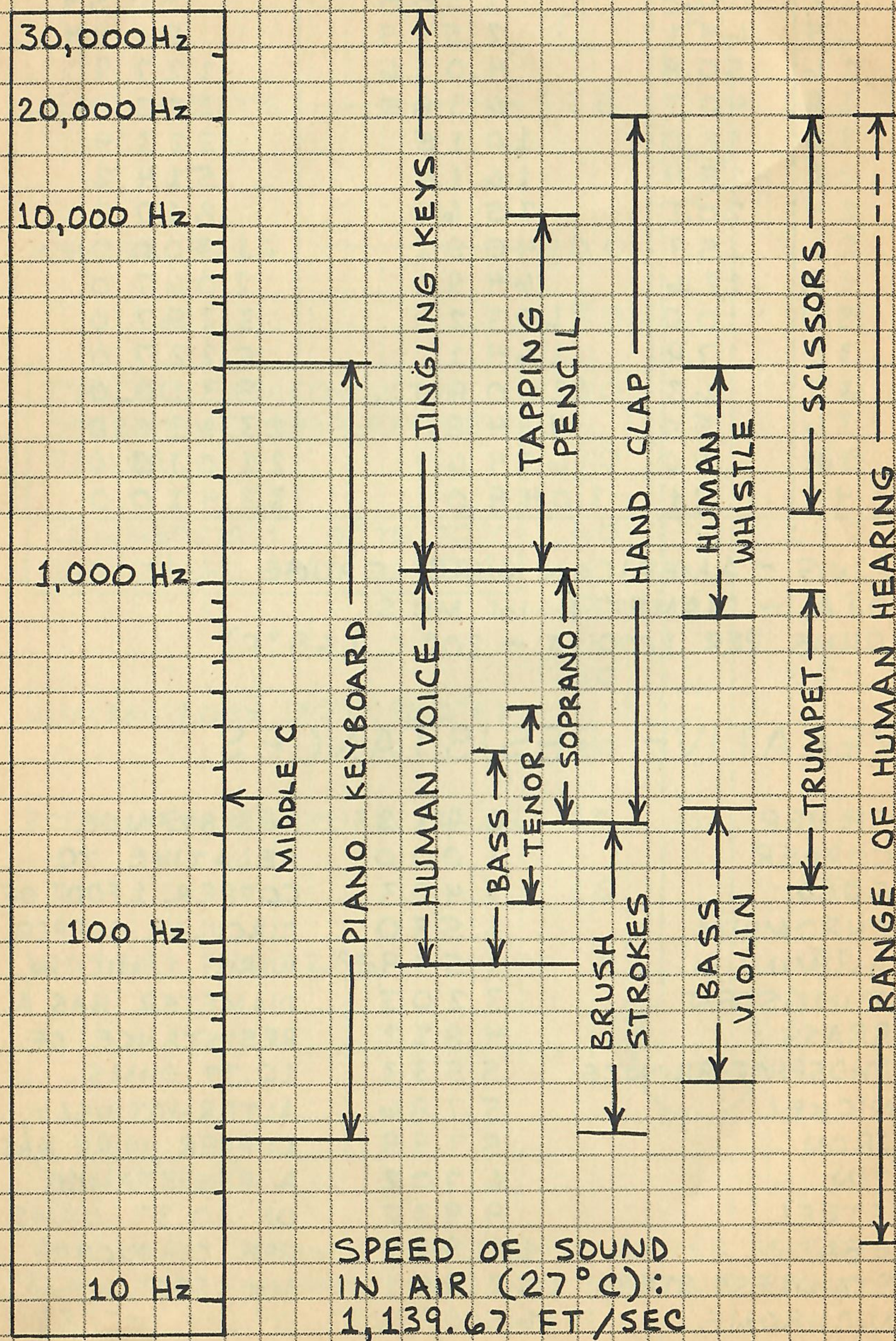


# AUDIO FREQUENCY SPECTRUM

MECHANICAL VIBRATION IN SOLIDS, FLUIDS AND GASES PRODUCES WHAT THE BRAIN PERCEIVES AS SOUND.



# SOUND INTENSITY LEVELS

SOUND SOURCE (DISTANCE FROM OBSERVER)	LEVEL (dB)
THRESHOLD OF PAIN	120+
AIRCRAFT ENGINE (20')	120+
AMPLIFIED ROCK MUSIC	110
THUNDER	110
PIEZOELECTRIC BUZZER (12")	108
AIR FORCE T-38 (2,500' OVERHEAD)	90
CO <sub>2</sub> PELLET GUN (12")	90
DIGITAL ALARM CLOCK (12")	85
ELECTRIC TYPEWRITER (18")	80
AIR FORCE T-38 (1 MILE)	70
TYPICAL CONVERSATION	65
PAPER CLIP DROPPED ON DESK (12")	62
TELEPHONE DIAL TONE (1")	56
PENCIL ERASER TAPPED ON DESK (12")	54
COMPUTER KEYBOARD (18")	61
AVERAGE RESIDENCE	45
SOFT BACKGROUND MUSIC	30
QUIET WHISPER	20
THRESHOLD OF HEARING	0