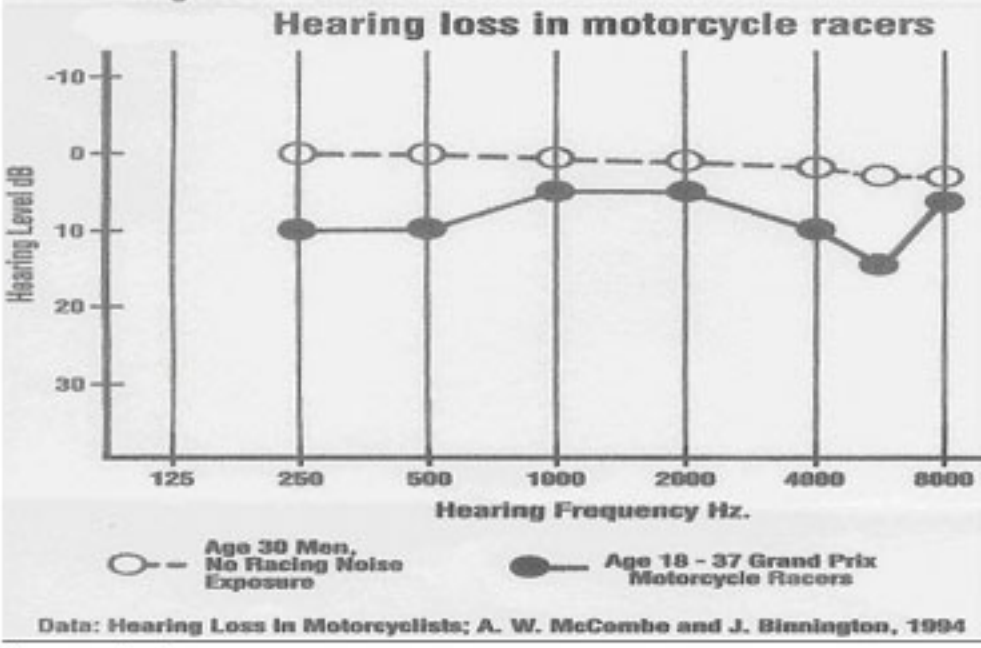
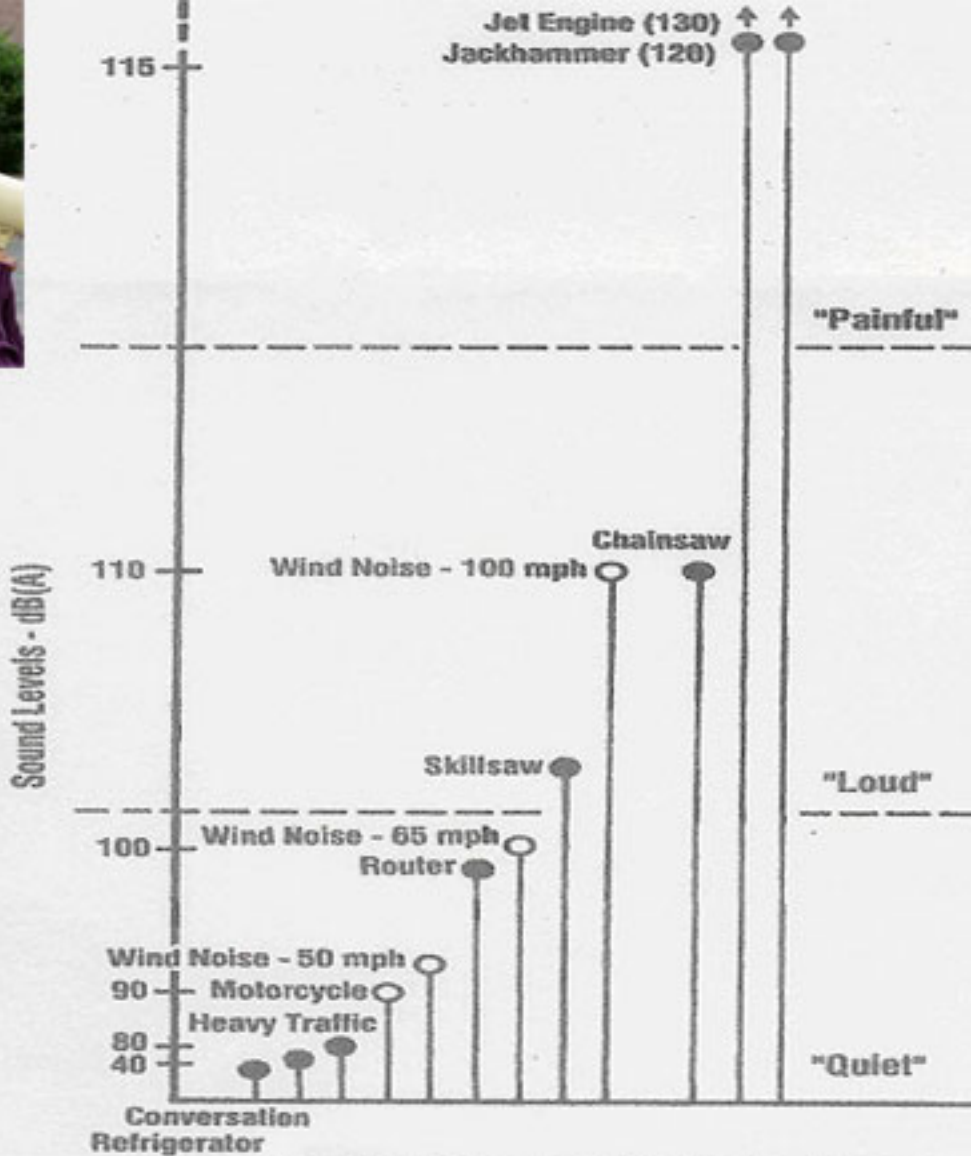


## DECIBEL NOISE SOURCES

140 dB	SPACE ROCKET AT BLASTOFF JET ENGINE AT TAKEOFF FIREARMS
130	JACKHAMMER
125	FIRECRACKERS
120	AMBULANCE SIREN AMPLIFIED ROCK BAND THUNDER CLAP
117	THE SHUTTLE TAKE-OFF IN "ARMAGEDDON"
115	SANDBLASTING CHILDREN'S TOYS AT EAR (BIKE HORNS, MUSICAL INSTRUMENTS, CAP GUNS, BEEPERS)
114	GODZILLA SHREIKING IN "GODZILLA"
110	WOODWORKING SHOP RIVETING MACHINE VIDEO ARCADES PERSONAL STEREOS SNOWMOBILES MOTORCYCLE THUNDER
100	PNEUMATIC DRILL CHAIN SAW
90	AVERAGE DENTAL DRILLS (77-96) LAWNMOWER SHOP TOOLS PRINTING PRESS PLANT TRUCK TRAFFIC NOISY RESTAURANT TOYS TV COMMERCIAL (87) HAIR DRYER
80	CITY TRAFFIC INSIDE SPORTS CAR (50 MPH) LOUD MUSIC FROM RADIO
75	KITCHEN APPLIANCES VACUUM CLEANER
70	CROWDED FAMILY RESTAURANT
65	CONVERSATIONAL SPEECH BIRDS SINGING
60	SEWING MACHINE
50	AVERAGE HOME INTERIOR ELEGANT BISTRO MODERATE RAINFALL INSIDE CAR AT 50 MPH LARGE STORE (50-60)
40	QUIET RESIDENTIAL COMMUNITY
30	WHISPER AT 5 FT
20	LEAVES RUSTLING IN A BREEZE
10	<span style="color: green;">■</span> NORMAL HEARING



## DECIBELS NOISE DAMAGE

- 110 regular exposure of more than 1 minute risks permanent hearing loss.
- 100 No more than 15 minutes unprotected exposure is recommended.
- 90 Any prolonged exposure above 90 dB may cause gradual hearing loss.

When people have their hearing examined by an audiologist, pitch sounds between 250-8,000 Hz are routinely measured. These are tested because they are the most important for understanding speech.

More recently, some researchers have begun to look at how noise may affect hearing for the very high pitch sounds- those between 9,000 & 18,000 Hz, known as the extended high frequencies.

Research has found that some people who are exposed to loud noise have reduced hearing in the extended high frequencies, but not in the more conventional (250-8,000 Hz) frequency range. Based on these findings, it has been suggested that a noise induced hearing loss may be detectable at an earlier stage by testing hearing in the extended high frequencies.