**Noise Sources and Their Effects**

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| **Noise Source** | **Decibel Level** | **comment** |
| Jet take-off (at 25 meters) | 150 | Eardrum rupture |
| Aircraft carrier deck | 140 |  |
| Military jet aircraft take-off from aircraft carrier with afterburner at 50 ft (130 dB). | 130 |  |
| Thunderclap, chain saw.  Oxygen torch (121 dB). | 120 | Painful.  32 times as loud as 70 dB. |
| Steel mill, auto horn at 1 meter.   Turbo-fan aircraft at takeoff power at 200 ft (118 dB).  Riveting machine (110 dB); live rock music (108 - 114 dB). | 110 | Average human pain threshold.  16 times as loud as 70 dB. |
| Jet take-off (at 305 meters), use of outboard motor, power lawn mower, motorcycle, farm tractor, jackhammer, garbage truck.   Boeing 707 or DC-8 aircraft at one nautical mile (6080 ft) before landing (106 dB); jet flyover at 1000 feet (103 dB); Bell J-2A helicopter at 100 ft (100 dB).(This is a light helicopter)  600px-Bell47J.jpg | 100 | 8 times as loud as 70 dB.  Serious damage possible in 8 hr exposure |
| Boeing 737 or DC-9 aircraft at one nautical mile (6080 ft) before landing (97 dB); power mower (96 dB); motorcycle at 25 ft (90 dB).  Newspaper press (97 dB). | 90 | 4 times as loud as 70 dB.  Likely damage 8 hr exp |
| Garbage disposal, dishwasher, average factory, freight train (at 15 meters).  Car wash at 20 ft (89 dB); propeller plane flyover at 1000 ft (88 dB); diesel truck 40 mph at 50 ft (84 dB); diesel train at 45 mph at 100 ft (83 dB).  Food blender (88 dB); milling machine (85 dB); garbage disposal (80 dB). | 80 | 2 times as loud as 70 dB.  Possible damage in 8 h exposure. |
| Passenger car at 65 mph at 25 ft (77 dB); freeway at 50 ft from pavement edge 10 a.m. (76 dB).  Living room music (76 dB); radio or TV-audio, vacuum cleaner (70 dB). | 70 | Arbitrary base of comparison.  Upper 70s are annoyingly loud to some people. |
| Conversation in restaurant, office, background music, Air conditioning unit at 100 ft | 60 | Half as loud as 70 dB.  Fairly quiet |
| Quiet suburb, conversation at home.   Large electrical transformers at 100 ft | 50 | One-fourth as loud as 70 dB. |
| Library, bird calls (44 dB); lowest limit of urban ambient sound | 40 | One-eighth as loud as 70 dB. |
| Quiet rural area | 30 | One-sixteenth as loud as 70 dB.  Very Quiet |
| Whisper, rustling leaves | 20 |  |
| Breathing | 10 | Barely audible |
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