

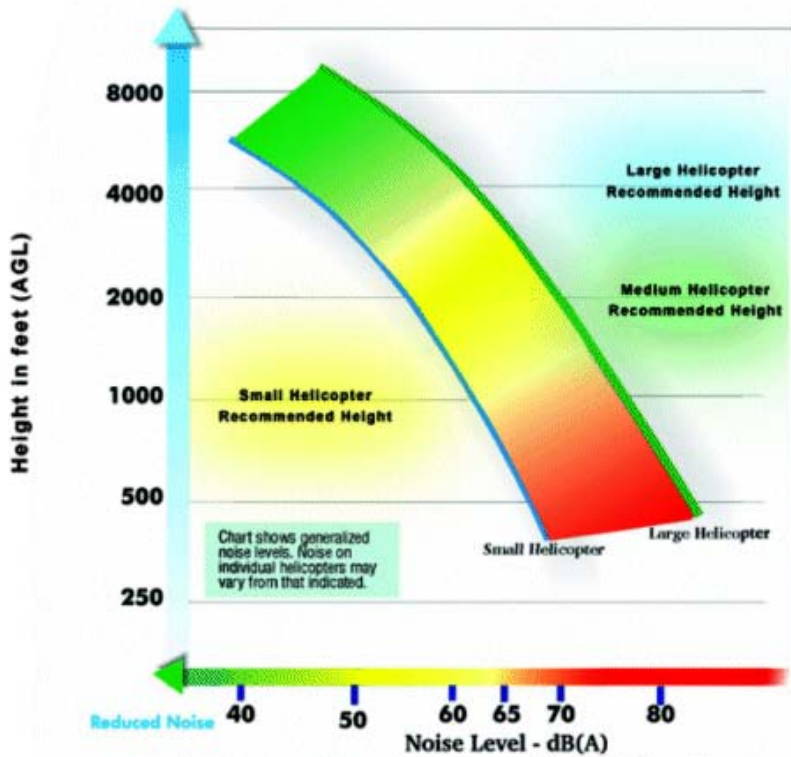
## GLOSSARY

Air Photo	A photograph taken from the air that covers a relatively small area, and which is used in conjunction with other, similar and overlapping photos
Archaeologist	Someone who studies historical evidence of communities and civilisation
Cumulative Effects	Effects from one project or site which add to effects from one or more other projects or sites
DAR	Developer's Assessment Report
DPD	Developer's Project Description
Exacerbate	Make worse
Monitoring	The observation, sampling or other measurement of prevailing conditions
Mulch	Material (usually vegetation, such as grass) used to provide nutrients and protect seeds and young plant shoots
Natality	Birthing
Orthophoto	A photograph taken from the air that covers a larger area than an air photo, and which is used in conjunction with other, similar photos that do not overlap but provide a photo map of a region
Perma-frost	Permanently frozen ground
Reclamation	Return the ground to a useable condition
Rehabilitate	Fix, mend or make better
Revegetation	The process of restoring plants, usually by surface preparation and seed addition
Scarify	To break up and smooth out the surface
Sedimentation	The blinding of a stream bed from the settling of fine particles
Talus	The weathered material (rocks and sediment) that collects at the bottom of an eroding slope
TOR	Terms of reference and work plan

# **APPENDIX B**

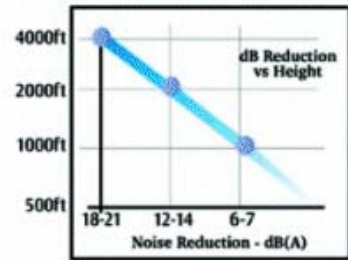
## **Noise Data**

# APPENDIX B



## Fly Higher . . . . . . When You Can

Reduce the noise impact on the ground by flying "higher" when ever practical, especially when operating over urban/ suburban environments.



Safety, weather, or ATC considerations may dictate the need to use alternative heights.



Variation of Noise Levels with Flyover Height

## Noise Data

### HEARS NOISE DATA LISTING II

(ALPHABETICAL)

<u>EQUIPMENT LEVEL</u>	<u>TYPE NOISE</u>	<u>CATEGORY</u>
AH-64, Attack Helicopter dBA	steady-state	87
Air chisel dBA	steady-state	125
Air conditioner, 36,000 BTU dBA	steady-state	71-73
Air drill dBA	steady-state	92
Air grinder dBA	steady-state	96-101
Air sanders dBA	steady-state	94-98

Air wrench dBA	steady-state	90-98
Aircraft cargo loader dBA	steady-state	85-87
Arc welder (mobile vehicle) dBA	steady-state	86-97
Armored carrier, M113 dBA	steady-state	117
B & D 1/2 inch drill dBA	steady-state	93-97
B & D 3/4 inch drill dBA	steady-state	93-97
B & D 6 inch portable grinder dBA	steady-state	95-100
B & D angle grinder dBA	steady-state	110
B & D bench grinder dBA	steady-state	110
B & D Grinder dBA	steady-state	105
B & D shorty drill dBA	steady-state	87
Baker 4,000 lb. fork lift dBA	steady-state	85-107
Baker fork lift dBA	steady-state	85-90
Band saw model ML (Metal) dBA	steady-state	92-94
Bandsaw Doall, Metal 26 dBA	steady-state	96
Bandsaw, Crob dBA	steady-state	114
Bandsaw, Delta-Milwaukee 20 dBA	steady-state	110
Bandsaw, Moak dBA	steady-state	100
Baumfolder, 333 dBA	steady-state	91
Baumfolder, Bell and Howell dBA	steady-state	85
Binder, Martinez, EB dBA	steady-state	92
Black and Decker, Sander/Metal dBA	steady-state	96
Blower pumps sewer Tx. plants dBA	steady-state	90-109

Bradley fighting vehicle dBA	steady-state		116
Bridge erection boat dBA	steady-state		87
C-141 dBA	steady-state		92
C-141A dBA	steady-state		91
Card Processor, Univac 1004 dBA	steady-state		92
Card Processor, Univac 1005 dBA	steady-state		93
Card Reader, GE dBA	steady-state		92
Carrier, M114A1 dBA	steady-state		109
CAT 933 dBA	steady-state		95
CAT 966B dBA	steady-state		96
CAT 988 dBA	steady-state		96
CAT D7 (Dozer) dBA	steady-state		100
CAT D8 (Dozer) dBA	steady-state		103
CAT D9 (Dozer) dBA	steady-state		89
CH 47C Chinook dBA	steady-state		110
CH 47D Chinook dBA	steady-state		104
Chain sharpener dBA	steady-state		86-89
Chansaw, Homelite Super 77 dBA	steady-state		125
Chainsaw, McCulloch MAG 10-10 dBA	steady-state		108
Charparral dBP	impulse	2	146
Chipping Hammer, MC121 dBA	steady-state		118
Circular Saw, Delta-Rockwell dBA	steady-state		104
Clark fork lift dBA	steady-state		86-91

Claymorette mine on M113 PC dBP	impulse	148
Clayton dynamometer dBA	steady-state	110
Collator, Didde-Glasser, Inc. dBA	steady-state	92
Combat Field Feeding System dBA	steady-state	89-96
Construction Saw, Dewalt dBA	steady-state	96
Conveyor, Link Belt Co. dBA	steady-state	104
Crane, 220 HP Diesel, 100 Ton dBA	steady-state	101
Crane, 22 BM dBA	steady-state	99
Crane, Crawler Shovel dBA	steady-state	101
Crane, Drag Line, LS-68 dBA	steady-state	101
Crane, Hanson, H446A, 5 Ton dBA	steady-state	91
Crane, Rough Terrain, 20 Ton dBA	steady-state	101
Cross-cut saw, Automatic 1-H dBA	steady-state	94
Cross-cut Saw, Dewalt dBA	steady-state	100
Crusher, Eagle, Diesel 5157B dBA	steady-state	95
Crusher, Eagle, Roll 5230B dBA	steady-state	105
Crusher, Pioneer Jaw 54VDE dBA	steady-state	109
CUC-V (Drivers position) dBA	steady-state	70-86
Cutoff/Rip combination Saw dBA	steady-state	112
Cutoff Saw, Dewalt GE dBA	steady-state	107
Cutoff Saw, Dewalt GL dBA	steady-state	112
Cutoff Saw, Porter 43-20J dBA	steady-state	98
Disintegrator Size 10BC dBA	steady-state	100

Ditcher, Parsons 624VI dBA	steady-state		104
Ditcher, Pow-R, Vermeer Co. dBA	steady-state		.99
Dragon dBP	impulse	6	184
Drill, 3/8-in Skil dBA	steady-state		103
Drill, Rock, Gardiner Denver dBA	steady-state		112
Drill Rock, Ingersoll-Rand dBA	steady-state		116
Electric duct joiner hammer dBA	steady-state		96-110
Evinrude Skeeter, Snowmobile dBA	steady-state		96-110
F10000 Rg-r Refrigeration unit dBA	steady-state		90-92
Folding Machine, Dexter, 5R23 dBA	steady-state		93
Fork Lift 6K dBA	steady-state		95
Fork Lift, 10K dBA	steady-state		100
Generator - 1.5 kW dBA	steady-state		98
Generator - 60 kW dBA	steady-state		94-102
Grade-All, Warner & Swasey G600 dBA	steady-state		96
Grader dBA	steady-state		96
Grader, CAT 12 dBA	steady-state		108
Grader, CAT 120 dBA	steady-state		99
Grader, WABCO 330 dBA	steady-state		106
Grenade, Launcher, 40 mm dBP	impulse	3	154
Grenade Launcher, XM182, 40 mm dBP	impulse	2	150
Grenade Simulator, M116-indoor dBP	impulse	5	178
Grenade Simulator, M116A dBP	impulse	2	146

Grenade, Hand, M-26 (25 ft.) dBP	impulse	5	171
Grenade, Hand, M116A dBP	impulse	2	142
Grinder, Dayton Power 17853 dBA	steady-state		95
Grinder, Toolline dBA	steady-state		92
Gun, 175mm dBP	impulse	4	170
Gun, M41, 90 mm dBP	impulse	6	181
Gun, M68, mounted, 105 mm (13 ft.) dBP	impulse	5	179
Gun, mounted, 20 mm dBP	impulse	2	145
Gun, tank, 105mm (13 ft.) dBP	impulse	5	179
Gun, tank, 152mm dBP	impulse	6	188
Gun, tank, 152mm, XM625 dBP	impulse	6	189
Gun, tank, 152mm, XM657E1 dBP	impulse	6	191
Gun, tank, M48A2 dBP	impulse	6	187
Gun, tank, M48A3, 90 mm dBP	impulse	6	181
Gun, vulcan XM197, 20 mm dBP	impulse	3	159
Gun, vulcan, M61A1, 20 mm dBP	impulse	3	153
HMMV - ambulance dBA	steady-state		79-97
Hobart mixer/grinder dBA	steady-state		86-90-
Hose maker dBA	steady-state		96-
Hough, H100 dBA	steady-state		98
Hough, H120 dBA	steady-state		100
Hough, H400 dBA	steady-state		95
Hough, H70 dBA	steady-state		93



Hough, HM dBA	steady-state		91
Hough, Hog dBA	steady-state		98
Hough, TD 300 SL dBA	steady-state		100
Howitzer, 105 mm (gunner pos) dBP	impulse	6	189
Howitzer, 155mm, medium, M1A2E3 dBP	impulse	6	185
Howitzer, M198 dBP	impulse	5	179
Howitzer, self-propelled, M110A2 dBA	steady-state		112
Hystor 1,500 lb. fork lift 97dBA	steady-state		70-
Impact wrench dBA	steady-state		95-107
International, INT TD 30 dBA	steady-state		103
International, Travelall D-1000 dBA	steady-state		71
Jointer, GE dBA	steady-state		100
Jointer, Oliver 166CD dBA	steady-state		87
Jointer, Powermatic 50 dBA	steady-state		86
Keypunch, IBM 26 dBA	steady-state		86
LACV - 30 Ton dBA	steady-state		96
Launcher, M20-A, 35" Rocket dBP	impulse	5	171
Light Infantry Assault Weapon dBP	impulse	5	180
Liquid Distributor, Universal dBA	steady-state		91
Loader, AC, 645M dBA	steady-state		98
Loader, Euclid, 128 HP dBA	steady-state		100
Loader, Hough, H90 CM dBA	steady-state		104
Logistic Vehicle System dBA	steady-state		85-90

Lull 7 C1-31 dBA	steady-state		92
M1059 smoke generator mounted dBA	steady-state		73-104
M151 Jeep dBA	steady-state		61-66
M1911 Pistol 162 dBP	impulse	5	161-
M1E1 Tank system (Firing) 176 dBP	impulse		151-
M60A3 TTS Tank dBA	steady-state		80-109
M9 ACE Bulldozer dBA	steady-state		93-112
M915A1 Truck tractor dBA	steady-state		78-88
Machine Gun, 50 Cal dBP	impulse	3	160
Machine Gun, M60 dBP	impulse	4	165
Metal Cutter dBA	steady-state		95-107
Metal Shearer dBA	steady-state		74-94
Minigun, 20 mm dBP	impulse	3	155
Minigun, 7.62 mm dBP	impulse	2	146
Mitre Saw, Rockwell Electric dBA	steady-state		95
Mk19 Granade Launch Simulator dBP	impulse	1	126
MLRS Crew Compartment dBA	steady-state		108
Mortar, 81 mm dBP	impulse	5	178
Moto-ski, 399, snowmobile dBA	steady-state		92
Moto-ski, 500, snowmobile dBA	steady-state		87
Moto-ski, Zephyr, snowmobile dBA	steady-state		87
Multipurpose 4X4 fire truck dBA	steady-state		73-94
Nailer, Bostitch N2 dBA	impulse	2	142

Nailer, Duo-fast CN-137 dBA	steady-state	104
North American routermatic dBA	steady-state	99-104
Offset Press, Multilith 1250 dBA	steady-state	86-
Offset Press, Multilith 2550 dBA	steady-state	87-
Oster pipe and belt threader dBA	steady-state	88-89
Panel Saw, Black & Decker dBA	steady-state	114
Paper Shredder, Model 22 dBA	steady-state	96
Paper Shredder, S.E.#3 dBA	steady-state	110
Pinsetting machine dBA	steady-state	92-106
Pipe Threader, Ridged 3000 dBA	steady-state	93
Planer, Buss Machine Works dBA	steady-state	104
Planer, Craftsman 112 dBA	steady-state	98
Planer, Newman 600 dBA	steady-state	105
Planer, Oliver 361 dBA	steady-state	90
Planer, Powermatic dBA	steady-state	103
Planer, Rockwell Motor dBA	steady-state	100
Pneumatic Hammer dBA	steady-state	132
Polaris Mustang, Snowmobile dBA	steady-state	84
Polaris TX, Snowmobile dBA	steady-state	91
Poulan multi-purpose saw dBA	steady-state	94-112
Power Saw, Delta dBA	steady-state	94-112
Power Saw, Newman-surfacer dBA	steady-state	100
Printer, GE dBA	steady-state	93

Printer, High Speed, Honeywell dBA	steady-state		103
Pulverizer, Paper dBA	steady-state		101
R.T. Fork Lift dBA	steady-state		85-98
Radial Saw, Delta dBA	steady-state		96
Radial Saw, Dewalt dBA	steady-state		108
Raider 400 Snowmobile dBA	steady-state		77
Reciprocating saw dBA	steady-state		90-98
Recovery vehicle, A-Wing M88 dBA	steady-state		94
Recovery vehicle, M88 dBA	steady-state		116
Rifle, M14, 7.62 mm, Automatic dBP	impulse		159
Rifle, M16, 5.56 mm, Automatic dBP	impulse		156
Rifle, M16, blanks w/suppressor 147 dBP	impulse	2	143-
Rifle, Recoilless, M18, 57 mm dBP	impulse	5	174
Rifle, Recoilless, M40A1, 106 mm dBP	impulse	6	188
Rifle, Recoilless, M67, 90 mm dBP	impulse	6	181
Rip Saw, Atlas 3090 dBA	steady-state		97
Rip Saw, Delta dBA	steady-state		100
Rip Saw, G.B. Diekl dBA	steady-state		96
Rip Saw, Wabach dBA	steady-state		97
Rip Saw, Yates American B. dBA	steady-state		102
Rivet Gun, B.F. Goodrich dBA	steady-state		101
Rivet Hammer dBA	steady-state		94-107
Rockwell overarm router/sander dBA	steady-state		93-97

Rockwell port, bench grinder dBA	steady-state	90-110
Rough, Roll-O-Packer dBA	steady-state	111
Rough terrain forklift 6,000 lb dBA	steady-state	78-83
Router, Black & Decker dBA	steady-state	118
Router, Rockwell 150B dBA	steady-state	100
Ryan sod cutter 7 h.p. dBA	steady-state	92-94
Sandblasting cabinet dBA	steady-state	98
Sander, Black & Decker dBA	steady-state	92
Sander, Disk dBA	steady-state	100
Sander, Reliance, Type GS dBA	steady-state	90
Shaper, Delta dBA	steady-state	94
Shaper, Master, Type PA dBA	steady-state	104
Ski-Doo 300 Snowmobile dBA	steady-state	90
Ski-Doo Alpine 399 Snowmobile dBA	steady-state	80
Ski-Doo Elan, Snowmobile dBA	steady-state	80
Ski-Doo Nordic 375 Snowmobile dBA	steady-state	86
Ski-Doo Olympique, Snowmobile dBA	steady-state	90
Ski-Doo TNT, Snowmobile dBA	steady-state	92
Ski-Whiz, Snowmobile dBA	steady-state	86
Smoke/Decon Gen. system M383E dBA	steady-state	90-97
Sno-Jet, Snowmobile dBA	steady-state	99
Stapler, Senco M11 dBA	steady-state	94
Stapling gun, Bostich II dBA	steady-state	105

Street Sweeper dBA	steady-state	88
Surgical Equipment Cleaner dBA	steady-state	94
Surfacer, Newman dBA	steady-state	100
Sun 690 gen/alternator tester dBA	steady-state	75-101
Sweeper, Elgin 475 dBA	steady-state	97
Sweeper, Street, Wayne 475 dBA	steady-state	88
Swing Saw, Oliver 136 dBA	steady-state	90
Table Saw, Atlas 3160 dBA	steady-state	89
Table Saw, Bench dBA	steady-state	108
Table Saw, Delta 100 dBA	steady-state	90
Table Saw, Northfield dBA	steady-state	105
Table Saw, Oliver 290 dBA	steady-state	104
Table Saw, Tannewitz, Type J dBA	steady-state	107
Table Top Saw, Northfield dBA	steady-state	105
Tank, Abrams, M1E1 dBA	steady-state	108
Tank, M60 dBA	steady-state	108
Thors bench grinder dBA	steady-state	86-89
TOW dBP	impulse	170
Tractor, CAT 830 MB dBA	steady-state	102
Tractor, D7E dBA	steady-state	106
Tractor, Diesel Int. Har. TD-15 dBA	steady-state	95
Tractor, Ford, Selecto-speed dBA	steady-state	96
Tractor, Int. Harvester I2504 dBA	steady-state	87

Tractor, Int. Harvester I2656 dBA	steady-state		90
Truck, 5 Ton dBA	steady-state		96
Truck, Cargo M656 dBA	steady-state		102
Truck, Cargo, 1 1/4 Ton dBA	steady-state		90
Truck, International F2000 DYT dBA	steady-state		95
Truck, Kenworth, W923 dBA	steady-state		92
Truck, Mack F-785T dBA	steady-state		91
Turbine engine-UH1 (shop) 120 dBA	steady-state		116-
U21A UTE dBA	steady-state		98
Vacuum cleaner (bowling alley) dBA	steady-state		98-102
Verifier, IBM 56 dBA	steady-state		85
VIPER dBP	impulse	6	182
Water Pump dBA	steady-state		98
Water purification unit dBA	steady-state		93-101
Welding machine Wilson BAZOO dBA	steady-state		99
Wissota bench grinder dBA	steady-state		88-102
Xerox, Copyflo Printer dBA	steady-state		77