

# Sound Pressure Levels From Various Equipment Hand-held Tools



**Billy Goat Blower**  
Pro Series Quiet Pro (101e)

Sound Pressure Level (dBA)<sup>1</sup> **89.1**dBa

L-Max Result **92.2**dBa

Hearing Protection Recommended **YES**



**Billy Goat Blower**  
Pro Series Quiet Pro (revised to max)

Sound Pressure Level (dBA)<sup>1</sup> **99.2**dBa

L-Max Result **100.5**dBa

Hearing Protection Recommended **YES**



**Stihl Backpack Blower**  
BR 550 (101e)

Sound Pressure Level (dBA)<sup>1</sup> **98.4**dBa

L-Max Result **99.1**dBa

Hearing Protection Recommended **YES**



**Stihl Backpack Blower**  
BR 550 (revised to max)

Sound Pressure Level (dBA)<sup>1</sup> **103.9**dBa

L-Max Result **107.1**dBa

Hearing Protection Recommended **YES**



**Stihl Backpack Blower**  
BR 420C Magnum

Sound Pressure Level (dBA)<sup>1</sup> **96.5**dBa

L-Max Result **98.2**dBa

Hearing Protection Recommended **YES**



**Stihl Backpack Blower**  
BR 320

Sound Pressure Level (dBA)<sup>1</sup> **109.1**dBa

L-Max Result **112.0**dBa

Hearing Protection Recommended **YES**



**Stihl Pole Pruner**  
HT 75

Sound Pressure Level (dBA)<sup>1</sup> **108.5**dBa

L-Max Result **110.7**dBa

Hearing Protection Recommended **YES**



**Stihl Pole Pruner**  
HT 75 (cutting limb)

Sound Pressure Level (dBA)<sup>1</sup> **98.0**dBa

L-Max Result **101.2**dBa

Hearing Protection Recommended **YES**




**Stihl Chainsaw**  
MS660 Magnum, 72" bar

Sound Pressure Level (dBA)<sup>1</sup> **110.6**dBa

L-Max Result **114.1**dBa

Hearing Protection Recommended **YES**




**Red Max Chainsaw**  
G24000 (cutting)

Sound Pressure Level (dBA)<sup>1</sup> **95.7**dBa

L-Max Result **103.3**dBa

Hearing Protection Recommended **YES**



**Stihl Chainsaw**  
026 Pro (revised to max, not cutting)

Sound Pressure Level (dBA)<sup>1</sup> **105.4**dBa

L-Max Result **107.7**dBa

Hearing Protection Recommended **YES**



**Stihl Chainsaw**  
039 (revised to max, not cutting)

Sound Pressure Level (dBA)<sup>1</sup> **106.8**dBa

L-Max Result **109.2**dBa

Hearing Protection Recommended **YES**



**Stihl String Trimmer**  
FS 130

Sound Pressure Level (dBA)<sup>1</sup> **97.4**dBa

L-Max Result **98.9**dBa

Hearing Protection Recommended **YES**



**Stihl String Trimmer**  
250

Sound Pressure Level (dBA)<sup>1</sup> **99.1**dBa

L-Max Result **99.9**dBa

Hearing Protection Recommended **YES**




**Stihl String Trimmer**  
FS 85

Sound Pressure Level (dBA)<sup>1</sup> **109.2**dBa

L-Max Result **110.4**dBa

Hearing Protection Recommended **YES**




**Stihl Chainsaw**  
066 (revised to max)

Sound Pressure Level (dBA)<sup>1</sup> **115.8**dBa

L-Max Result **119.1**dBa

Hearing Protection Recommended **YES**




**Stihl Chainsaw**  
066 (cutting wood)

Sound Pressure Level (dBA)<sup>1</sup> **101.7**dBa

L-Max Result **108.8**dBa

Hearing Protection Recommended **YES**




**Stihl Chainsaw**  
026 (revised to max)

Sound Pressure Level (dBA)<sup>1</sup> **116.8**dBa

L-Max Result **119.1**dBa

Hearing Protection Recommended **YES**




**Stihl Chainsaw**  
026 (revised to max)

Sound Pressure Level (dBA)<sup>1</sup> **101.1**dBa

L-Max Result **107.9**dBa

Hearing Protection Recommended **YES**



**Stihl Hedge Trimmer**  
HS 80

Sound Pressure Level (dBA)<sup>1</sup> **108.4**dBa

L-Max Result **110.6**dBa

Hearing Protection Recommended **YES**



**Stihl Hedge Trimmer**  
HS 80 (revised to max, not cutting)

Sound Pressure Level (dBA)<sup>1</sup> **95.6**dBa

L-Max Result **97.4**dBa

Hearing Protection Recommended **YES**



**CH Extreme Contractor Small Compressor**

Sound Pressure Level (dBA)<sup>1</sup> **94.0**dBa

L-Max Result **96.4**dBa

Hearing Protection Recommended **YES**




**Campbell Hausfeld Air Compressor**  
(pancake style)

Sound Pressure Level (dBA)<sup>1</sup> **94.9**dBa

L-Max Result **98.2**dBa

Hearing Protection Recommended **YES**




**Honda Pressure Washer**  
GX200, 6.5 Horsepower

Sound Pressure Level (dBA)<sup>1</sup> **86.9**dBa

L-Max Result **88.2**dBa

Hearing Protection Recommended **YES**




**Excell Pressure Washer**  
VR2522, 2300 PSI

Sound Pressure Level (dBA)<sup>1</sup> **95.4**dBa

L-Max Result **98.9**dBa

Hearing Protection Recommended **YES**




**Honda Lawnmower**  
Microcut 65U160

Sound Pressure Level (dBA)<sup>1</sup> **92.5**dBa

L-Max Result **94.6**dBa

Hearing Protection Recommended **YES**



**Wacker Plate Compactor**  
(running on pavement)

Sound Pressure Level (dBA)<sup>1</sup> **112.0**dBa

L-Max Result **116.6**dBa

Hearing Protection Recommended **YES**



**Wacker Plate Compactor**  
(running on gravel)

Sound Pressure Level (dBA)<sup>1</sup> **95.3**dBa

L-Max Result **99.5**dBa

Hearing Protection Recommended **YES**

Hearing protection requirements are based on the operating noise level of the equipment having a Sound Pressure Level in excess of 85 dBA or an L-Max Result in excess of 115 dBA.

<sup>1</sup>Type 2 dosimeters carry an acceptable margin of error of +/- 2dB. This should be considered when interpreting results.

These readings were taken at Oregon Parks and Recreation locations. Readings may vary depending on use, location, age of equipment, and maintenance.

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