OHS FARM SAFETY NOISE LEVEL ASSESSMENTS

January 2024



Do you know what the noise levels are on your farm?

Or when and where hearing protection is needed?

Could you, your family, or your workers be at risk of hearing loss?



Noise-induced hearing loss happens over time and can often be linked to a noisy work environment. Noise hazards are present in many industries, including the potato industry. In fact, the prevalence of hearing loss in adult farmers is almost double that of non-farmers, according to the <u>Canadian Centre for Rural and Agricultural Health</u> (Saskatchewan). The good news is that this type of **HEARING LOSS IS PREVENTABLE!**



With that in mind, the Workers Compensation Board's OHS Farm Safety Specialist is looking for volunteers to have noise levels measured on their potato farm. **This is offered free of charge.** Depending on the time of year the assessments will focus on when storing, grading, packing, polishing, etc., are taking place. The information collected will be used to create relevant and useful educational materials for PEI's potato industry. If you choose to participate, your individual results will only be shared with you and the WCB's Occupational Health and Safety Division. If you are interested in participating, please contact the OHS Farm Safety Specialist, Hillary Hayden, at <u>hhayden@wcb.pe.ca</u>.



As a potato industry employer, managing the risk of hearing loss is an important step you can take to protect and promote a healthy farm workplace. Management includes assessing the noise hazards, lowering noise levels if possible, selecting adequate hearing protection, training workers, and audiometric testing. Hearing loss is a permanent disability, and these efforts can help protect your farm workers.

Remember, there is no substitute for someone's natural ability to hear!



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How is noise level measured?

There are a number of ways to conduct a noise survey and various noise measuring instruments available. These instruments are designed for specific types of noise measurements.

Personal exposure measurements measure individual worker's noise exposure. The most common instrument used to measure personal exposure is a dosimeter (Figure 1). This specialized sound level meter is intended to measure personal noise exposure over a period of time, such as an 8 hour workday.



Figure 1

Common noise levels

Noise Level db(A)	Allowable Exposure Time		Noise Level	Equipment
155 or greater	0	-	(dB)	
			112	Pile driver
112	.94 minutes	Double protection	110	Air arcing gouging / Chainsaw
109	1.88 minutes	recommended above 105 dB (A)	108	Impact wrench
			107	Bulldozer – no muffle
106	3.75 minutes		102-104	Air grinder
103	7.50 minutes	-	102	Crane – uninsulated cab
103	7.50 minutes		101-103	Bulldozer – no cab
100	15 minutes	-	97	Chipping concrete
			96	Circular saw and hammering
97	30 minutes	Hearing	96	Jack hammer
94	1 hour	protection	96	Quick-cut/concrete saw
		recommended above 85 dB(A)	95	Masonry saw
91	2 hours		94	Roller/compactor – no cab
88	4 hours	-	90	Crane – insulated cab
		_ (87	Loader/backhoe – insulated
85	8 hours		86	cab Grinder
82	16 hours	-		
82	16 hours		85-90	Welding machine
80	24 hours	-	85	Bulldozer – insulated cab
00	24 110015		50-70	Speaking voice

What are allowable noise levels?



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