

From: [Marty Wood](#)
To: [Elizabeth Burdick](#)
Cc: [Matthew J. Willis](#); martyengrew@gmail.com
Subject: Re: 24-8SUP/24-9CAM Ledyard PZC Commissioner Questions
Date: Friday, December 13, 2024 3:04:04 PM

Afternoon Liz,

Here is my request for sound levels from Mr Heller.

I wish to know the L10 and L50 levels for the sound surveys taken. The L90 has been provided, commonly referred to as 'background noise'.

I am requesting the L10 and L50 values.

Here is some background info:

“ L_{10} , L_{50} and L_{90}

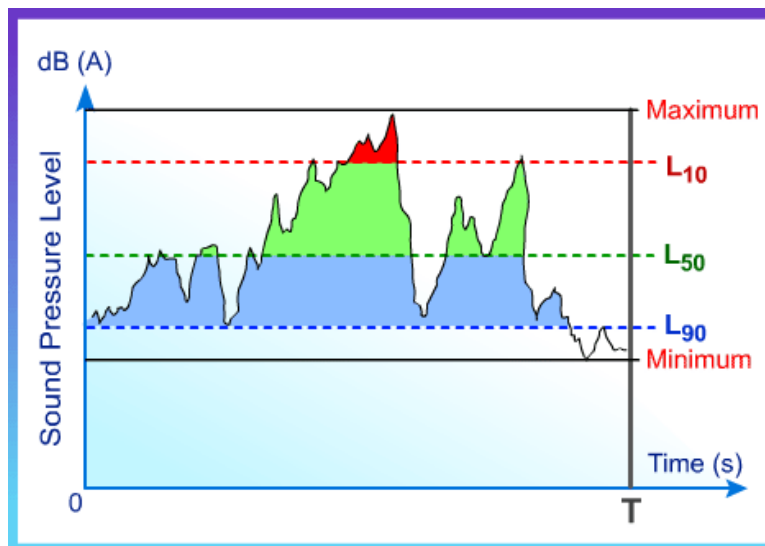
The commonly used value of n for the n-percent exceeded level, L_n , are 10, 50, and 90.

L_{10} is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L_{10} . For the rest of the time, the sound or noise has a sound pressure level at or below L_{10} . These higher sound pressure levels are probably due to sporadic or intermittent events.

L_{50} is the level exceeded for 50% of the time. It is statistically the mid-point of the noise readings. It represents the median of the fluctuating noise levels.

L_{90} is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level. It is generally considered to be representing the background or ambient level of a noise environment.

For a varying sound, L_{10} is greater than L_{50} which in turn is greater than L_{90} . The following graph illustrates L_{10} , L_{50} and L_{90} .



Please note that $L_{10} > L_{50} > L_{90}$ for the same sound or noise.

Marty
Marty Wood
Gales Ferry, CT
860-333-3147 (C)

On Dec 13, 2024, at 2:11 PM, Elizabeth Burdick <planner@ledyardct.org> wrote:

Good afternoon, Marty, Please see below email from Attorney Heller. Would you please clarify in writing via return email your question to Attorney Heller at last night's hearing regarding L10 sound levels? Thank you.

Regards,

Liz Burdick

Director of Land Use & Planning

Town of Ledyard

741 Colonel Ledyard Highway, Ledyard, CT 06339

Telephone: (860) 464-3215 ~ Email: planner@ledyardct.org

TOWN HALL HOURS: MON-THURS, 7:30AM – 4:45PM

From: Harry Heller <hheller@hellermccoy.com>

Sent: Friday, December 13, 2024 1:40 PM
To: Elizabeth Burdick <planner@ledyardct.org>
Cc: Alan Perrault <APerrault@jaycashman.com>; Chase Davis <cdavis@jaycashman.com>; Ken Kaliski <ken.kaliski@rsginc.com>
Subject: Re: 24-8SUP/24-9CAM Ledyard PZC Commissioner Questrions

Good afternoon Ms. Burdick:

Can you get me further clarification on Commissioner Wood's question concerning the L10 sound level, preferably in writing. I want to be sure that I convey the exact nature of the question to our sound consultant to enable him to answer intelligently. I have a meeting with our consultants on Monday at 11. If you could get this to me before then, it would be greatly appreciated.

Harry Heller

On Fri, Dec 13, 2024, 1:24 PM Elizabeth Burdick <planner@ledyardct.org> wrote:

Good morning, Attorney Heller & Attorney Carroll, Per Town Attorney Matt Willis, attached please find questions from PZC Commissioners Ribe & Harwood for your review and responses. These questions will be made part of the record and posted on Monday, 12/16/24.

Please contact me or Attorney Willis with any questions. Thank you.

Regards,

Liz Burdick

Director of Land Use & Planning

[Town of Ledyard](#)

[741 Colonel Ledyard Highway, Ledyard, CT 06339](#)

Telephone: (860) 464-3215 ~ Email: planner@ledyardct.org

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