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DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/).

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- Note #2: DNL Calculator assumes roadway data is always entered.

DNL Calculator

Site ID	1710 Moorpark Avenue
Record Date	05/26/2020
User's Name	AEM
Road # 1 Name:	280

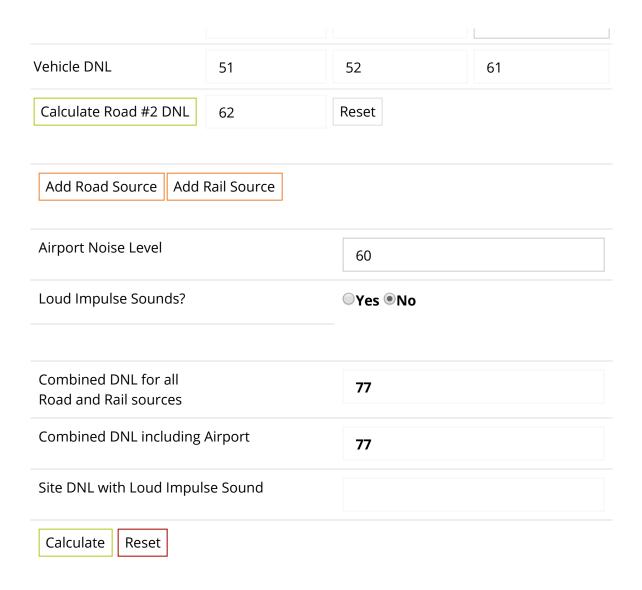
R	O	а	h	#1

Vehicle Type	Cars ✓	Medium Trucks 🗹	Heavy Trucks ✓
Effective Distance	100	100	100
Distance to Stop Sign	0	0	0
Average Speed	65	65	65
Average Daily Trips (ADT)	191000	2865	1433
Night Fraction of ADT	5	5	5
Road Gradient (%)			0
Vehicle DNL	75	67	70
Calculate Road #1 DNL	77	Reset	

Road # 2 Name:	Moorpark Avenue

Road #2

Vehicle Type	Cars 🗹	Medium Trucks 🗹	Heavy Trucks ☑
Effective Distance	50	50	50
Distance to Stop Sign	50	50	50
Average Speed	25	25	25
Average Daily Trips (ADT)	8500	127	63
Night Fraction of ADT	5	5	5
Road Gradient (%)			0



Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

• No Action Alternative: Cancel the project at this location

- Other Reasonable Alternatives: Choose an alternate site
- Mitigation
 - Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)
 - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
 - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
 - Incorporate natural or man-made barriers. See *The Noise Guidebook* (/resource/313/hud-noise-guidebook/)
 - Construct noise barrier. See the Barrier Performance Module (/programs/environmental-review/bpm-calculator/)

Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)

Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)