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Site DNL Calculator

For more information on using the noise calculator, to guidebook, or send comments, please visit the following page: [Day/Night Noise Level Electronic Assessment Tool](#)

Providing Feedback & Corrections

Using the DNL Assessment Tool, following the directions in the User's Guide, users are encouraged to provide feedback on how the DNL Assessment Tool may be improved. Users are also encouraged to send comments or corrections for the improvement of the tool. Please send comments or other input to: ATEC@hud.gov

Guidelines:

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" buttons below.
- All Road and Rail input values must be positive integers.
- 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, are 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 variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Related Information

- ▶ [Day/Night Noise Level Assessment Tool User Guide](#)
- ▶ [Day/Night Noise Level Assessment Tool Flowcharts](#)
- ▶ [System Requirements](#)

- ▶ [Internet Explorer 6.0 or above](#)
- ▶ [Adobe Reader](#)
- ▶ [Enabling JavaScript](#)

Site ID

Record Date

User's Name

Railroad #1 Track Identifier:

Rail # 1		
Train Type	Electric <input checked="" type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance	547	547
Average Train Speed	55	55
Engines per Train	2	3
Railway cars per Train	15	75
Average Train Operations (ATO)	16	7
Night Fraction of ATO	5	2
Railway whistles or horns?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Train DNL	62.1154	58.3587
<input type="button" value="Calculate Rail #1 DNL"/>	63.6884	<input type="button" value="Reset"/>

Airport Noise Level

Loud Impulse Sounds? Yes No

Combined DNL for all
Road and Rail sources

Combined DNL including Airport

Site DNL with Loud Impulse Sound

Calculate

Mitigation Options

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

- **No Action Alternative**
Cancel the project at this location [DNL Calculator](#)
- **Other Reasonable Alternatives**
Choose an alternate site [DNL Calculator](#)
- **Mitigation**
 - **Contact your Field or Regional Environmental Officer - Environmental 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** [DNL Calculator](#)
 - **Incorporate natural or man-made barriers.** See [The Noise Guidebook](#)
 - **Construct noise barrier.** See the [Barrier Performance Module](#)

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