

Site DNL Calculator

For more information on using the noise calculator, to access the user guidebook, or send comments, please visit the following page:

Day/Night 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.

Site ID

Record Date

User's Name

Railroad #1 Track Identifier:

| Rail # 1 | | |
|--|---|--|
| Train Type | Electric <input checked="" type="checkbox"/> | Diesel <input type="checkbox"/> |
| Effective Distance | <input type="text" value="2700"/> | <input type="text"/> |
| Average Train Speed | <input type="text" value="25"/> | <input type="text"/> |
| Engines per Train | <input type="text" value="1"/> | <input type="text"/> |
| Railway cars per Train | <input type="text" value="10"/> | <input type="text"/> |
| Average Train Operations (ATO) | <input type="text" value="57"/> | <input type="text"/> |
| Night Fraction of ATO | <input type="text" value="15"/> | <input type="text"/> |
| Railway whistles or horns? | Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> | Yes: <input type="checkbox"/> No: <input type="checkbox"/> |
| Bolted Tracks? | Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/> | Yes: <input type="checkbox"/> No: <input type="checkbox"/> |
| Train DNL | 33.5599 | |
| <input type="button" value="Calculate Rail #1 DNL"/> | <input type="text" value="33.5599"/> | <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](#)

Refresh