

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 type="checkbox"/>	Diesel <input type="checkbox"/>
Effective Distance	<input type="text"/>	687
Average Train Speed	<input type="text"/>	45
Engines per Train	<input type="text"/>	2
Railway cars per Train	<input type="text"/>	50
Average Train Operations (ATO)	<input type="text"/>	6
Night Fraction of ATO	<input type="text"/>	15
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Train DNL	<input type="text"/>	58.0808
<input type="button" value="Calculate Rail #1 DNL"/>	<input type="text" value="58.0808"/>	<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

U.S. DOT - CROSSING INVENTORY INFORMATION
AS OF 3/25/2014

Crossing No.: **586573C** Update Reason: **Changed Crossing** Effective Begin-Date of Record: **01/03/88**
Railroad: **NJTR New Jersey Transit Rail Operations [NJTR]** End-Date of Record:
Initiating Agency **State** Type and Position: **Public At Grade**

Part I Location and Classification of Crossing

Division: **SYSTEM** State: **NJ**
Subdivision: County: **CAPE MAY**
Branch or Line Name: **CAPE MAY BRANCH** City: **In DENNISVILLE**
Railroad Milepost: **0071.81** Street or Road Name: **MAIN ST**
Railroad I.D. No.: **CMSX** Highway Type & No.:
Nearest RR Timetable Stn: **WHITESBORO** HSR Corridor ID:
Parent Railroad: County Map Ref. No.:
Crossing Owner: **Cape May Seashore Lines, Inc. [CMSX]** Latitude: **39.0392220**
ENS Sign Installed: Longitude: **-74.8583330**
Passenger Service: Lat/Long Source:
Avg Passenger Train Count: **0** Quiet Zone: **No**
Adjacent Crossing with
Separate Number:

Private Crossing Information:

Category: Public Access:
Specify Signs: Specify Signals:

ST/RR A ST/RR B ST/RR C ST/RR D

Railroad Use:

State Use:

Narrative:

Emergency Contact: **911** Railroad Contact: State Contact: **(609)530-5627**

Part II Railroad Information

Number of Daily Train Movements: Less Than One Movement Per Day: **No**
Total Trains: **6** Total Switching: **0** Day Thru: **4**
Typical Speed Range Over Crossing: From **30** to **60** mph Maximum Time Table Speed: **60**
Type and Number of Tracks: Main: **1** Other **0** Specify:
Does Another RR Operate a Separate Track at Crossing? **No**
Does Another RR Operate Over Your Track at Crossing? **No**

U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing **586573C**

Continued

Effective Begin-Date of Record: **01/03/88**

End-Date of Record:

Part III: Traffic Control Device Information

Signs:

Crossbucks:	2	Highway Stop Signs:	0
Advanced Warning:	No	Hump Crossing Sign:	
Pavement Markings:	Stop Lines and RR Xing Symbols	Other Signs:	0 Specify:
			0

Train Activated Devices:

Gates:	0	4 Quad or Full Barrier:	
Mast Mounted FL:	6	Total Number FL Pairs:	0
Cantilevered FL (Over):	0	Cantilevered FL (Not over):	0
Other Flashing Lights:	0	Specify Other Flashing Lights:	
Highway Traffic Signals:	0	Wigwags:	0 Bells: 1
Other Train Activated Warning Devices:		Special Warning Devices Not Train Activated:	
Channelization:		Type of Train Detection:	DC/AFO
Track Equipped with Train Signals?	No	Traffic Light Interconnection/Preemption:	

Part IV: Physical Characteristics

Type of Development:	Industrial	Smallest Crossing Angle:	60 to 90 Degrees
Number of Traffic Lanes Crossing Railroad:	2	Are Truck Pullout Lanes Present?	No
Is Highway Paved?	Yes	If Other:	
Crossing Surface:	Concrete	Is it Signalized?	
Nearby Intersecting Highway?	Less than 75 feet	Is Crossing Illuminated?	
Does Track Run Down a Street?	No		
Is Commercial Power Available?	Yes		

Part V: Highway Information

Highway System:	Non-Federal-aid	Functional Classification of Road at Crossing:	Rural Local
Is Crossing on State Highway System:	No	AADT Year:	1988
Annual Average Daily Traffic (AADT):	000500	Avg. No of School Buses per Day:	0
Estimated Percent Trucks:	01		
Posted Highway Speed:	0		