

[HUD](#) > [Program Offices](#) > [Community Planning and Development](#) > [Environment](#) > [DNL Calculator](#)

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

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input type="checkbox"/>	Medium Trucks <input type="checkbox"/>	Heavy Trucks <input type="checkbox"/>
Effective Distance	546	546	546
Distance to Stop Sign			
Average Speed	40	40	40
Average Daily Trips (ADT)	30329	1318	1318
Night Fraction of ADT	15	15	15
Road Gradient (%)			0
Vehicle DNL	54.7126	41.0931	58.952
Calculate Road #1 DNL	<input type="text" value="60.4459"/>	<input type="button" value="Reset"/>	

Road # 2 Name:

Road #2			
Vehicle Type	Cars <input type="checkbox"/>	Medium Trucks <input type="checkbox"/>	Heavy Trucks <input type="checkbox"/>
Effective Distance	39	39	39
Distance to Stop Sign			
Average Speed	40	40	40
Average Daily Trips (ADT)	12578	546	546
Night Fraction of ADT	15	15	15
Road Gradient (%)			0
Vehicle DNL	68.082	54.4578	72.3165
Calculate Road #2 DNL	<input type="text" value="73.8118"/>	Reset	

Railroad #1 Track Identifier:

Rail # 1			
Train Type	Electric <input type="checkbox"/>	Diesel <input type="checkbox"/>	
Effective Distance		1953	
Average Train Speed		7	
Engines per Train		2	
Railway cars per Train		50	
Average Train Operations (ATO)		20	
Night Fraction of ATO		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		64.2198	
Calculate Rail #1 DNL	<input type="text" value="64.2198"/>	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

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

New Jersey Department of Transportation

Daily Volume from 09/24/2012 through 09/26/2012

Site Names: 2-4-222, , US 46-69.66, 00000046__, LITTLE FERRY BORO.
 County: BERGEN
 Funct. Class: Urban Principal Arterial - Other
 Location: BET GERDEN & BRANDT STS

Seasonal Factor Group:
 Daily Factor Group:
 Axle Factor Group:
 Growth Factor Group: 2 Urban Other Roadways

	Sun 09/23/2012			Mon 09/24/2012			Tue 09/25/2012			Wed 09/26/2012			Thu 09/27/2012			Fri 09/28/2012			Sat 09/29/2012		
	ROAD	S	N	ROAD	S	N	ROAD	S	N	ROAD	S	N	ROAD	S	N	ROAD	S	N	ROAD	S	N
00:00							369	166	203	368	162	206									
01:00							232	90	142	242	106	136									
02:00							174	72	102	178	84	94									
03:00							116	49	67	159	85	74									
04:00							207	102	105	196	107	89									
05:00							457	232	225	432	206	226									
06:00							1,214	536	678	1,157	513	644									
07:00							1,965	1,025	940	1,910	935	975									
08:00							2,322	1,260	1,062	2,244	1,237	1,007									
09:00							2,052	1,113	939	2,064	1,075	989									
10:00							1,856	930	926	1,776	871	905									
11:00							1,835	882	953	1,795	837	958									
12:00							1,915	922	993	1,967	1,002	965									
13:00							2,009	970	1,039	1,901	959	942									
14:00							2,007	979	1,028	2,006	959	1,047									
15:00				2,136	1,133	1,003	1,984	1,100	884												
16:00				2,317	1,241	1,076	2,195	1,233	962												
17:00				2,355	1,249	1,106	2,254	1,253	1,001												
18:00				2,215	1,090	1,125	2,170	1,105	1,065												
19:00				1,841	867	974	1,722	829	893												
20:00				1,377	643	734	1,309	672	637												
21:00				1,046	495	551	1,004	472	532												
22:00				822	325	497	916	415	501												
23:00				558	248	310	587	259	328												
Volume				14,667	7,291	7,376	32,871	16,666	16,205	16,389	8,179	8,210									
AM Peak Vol							2,322	1,260	1,062	2,316	1,241	1,075									
AM Peak Fct							0.94	0.98	0.89	0.92	0.95	0.89									
AM Peak Hr							8:00	8:00	8:00	8:15	8:15	8:15									
PM Peak Vol							2,312	1,265	1,070												
PM Peak Fct							0.93	0.96	0.90												
PM Peak Hr							16:45	16:45	12:30												
Seasonal Fct				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
Daily Fct				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
Axle Fct				0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500									
Pulse Fct				2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000									

New Jersey Department of Transportation

Daily Volume from 08/09/2011 through 08/12/2011

Site Names: 2-8-846, , BERGEN TPK-.35, 020001242_, Little Ferry Boro
 County: BERGEN
 Funct. Urban Principal Arterial - Other
 Location: BET LAKEVIEW AND WOODLAND AVES

Seasonal Factor Type: 2 Urban Other Roadways
 Daily Factor Type: 2 Urban Other Roadways
 Axle Factor Type: 14
 Growth Factor Type:

	Sun 08/07/2011			Mon 08/08/2011			Tue 08/09/2011			Wed 08/10/2011			Thu 08/11/2011			Fri 08/12/2011			Sat 08/13/2011		
	ROAD	S	N	ROAD	S	N	ROAD	S	N	ROAD	S	N	ROAD	S	N	ROAD	S	N	ROAD	S	N
00:00										68	31	37	63	30	33	71	33	38			
01:00										30	11	19	33	11	22	50	28	22			
02:00										48	17	31	50	20	30	64	35	29			
03:00										86	41	45	86	39	47	80	40	40			
04:00										175	88	87	218	111	107	196	88	108			
05:00										448	163	285	406	146	260	398	167	231			
06:00										747	257	490	762	242	520	708	252	456			
07:00										1,039	333	706	1,101	371	730	1,065	378	687			
08:00										872	322	550	862	317	545						
09:00										857	348	509	883	344	539						
10:00										915	439	476	938	398	540						
11:00										1,070	456	614	1,011	502	509						
12:00										1,063	517	546	988	441	547						
13:00										1,090	528	562	1,033	474	559						
14:00										989	514	475	1,064	496	568						
15:00										994	521	473	1,158	587	571						
16:00										1,015	497	518	1,231	651	580						
17:00										961	421	540	1,071	548	523						
18:00										866	428	438	931	464	467						
19:00										682	369	313	789	450	339						
20:00										570	298	272	575	344	231						
21:00										360	211	149	404	227	177						
22:00										204	98	106	260	148	112						
23:00										127	63	64	112	61	51	147	83	64			
Volume										127	63	64	15,261	6,969	8,292	16,064	7,444	8,620	2,632	1,021	1,611
AM Peak Vol										1,070	456	706	1,101	502	730						
AM Peak Fct										0.95	0.93	0.91	0.93	0.84	0.90						
AM Peak Hr										11:00	11:00	7:00	7:00	11:00	7:00						
PM Peak Vol										1,100	548	562	1,245	651	604						
PM Peak Fct										0.95	0.97	0.90	0.92	0.93	0.88						
PM Peak Hr										12:30	12:30	13:00	15:30	16:00	15:30						
Seasonal Fct										0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962
Daily Fct										0.949	0.949	0.949	0.947	0.947	0.947	0.933	0.933	0.933	0.915	0.915	0.915
Axle Fct										0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484
Pulse Fct										2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing **857200D**

Continued

Effective Begin-Date of Record: **10/25/13**

End-Date of Record:

Part III: Traffic Control Device Information

Signs:

Crossbucks:	2	Highway Stop Signs:	0
Advanced Warning:	Yes	Hump Crossing Sign:	No
Pavement Markings:	Stop Lines and RR Xing Symbols	Other Signs:	2 Specify: R15-2
			0

Train Activated Devices:

Gates:	1	4 Quad or Full Barrier:	No
Mast Mounted FL:	2	Total Number FL Pairs:	5
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:	None	Type of Train Detection:	Constant Warning Time
Track Equipped with Train Signals?	No	Traffic Light Interconnection/Preemption:	N/A

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?	No
Nearby Intersecting Highway?	Less than 75 feet	Is Crossing Illuminated?	No
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:	Urban Local
Is Crossing on State Highway System:	No	AADT Year:	1988
Annual Average Daily Traffic (AADT):	005000	Avg. No of School Buses per Day:	0
Estimated Percent Trucks:	03		
Posted Highway Speed:	0		