



NOISE ABATEMENT INVENTORY

JANUARY 1, 2020 to
DECEMBER 31, 2022

SUMMARY

Status

Roles

Review of Instructions



STATUS

WORK COMPLETED SO FAR



WORK COMPLETED SO FAR

Worked with the Resource Center to update and recreate the Noise Program pages on the Environment DSS' SharePoint site

Updated the instructions

- Requesting GIS information in a usable format

Initiated the collection

- Sent out announcement to Divisions

Announced webinar to Divisions and State DOTs

ROLES AND RESPONSIBILITIES

FHWA HQ, DIVISIONS, AND STATE DOTs



HEADQUARTERS

Prepare the spreadsheets:

- Standardize the input data
- Compile into national database and separate into state-specific sheets

Post them on SharePoint and announce availability

Track responses and send out reminders

Obtain completed spreadsheets and quality check them

Compile the spreadsheets back together

Run inflation cost calculations and assign Barrier IDs

Summarize findings into text and graphs

Post findings online and respond to questions

DIVISIONS

Download spreadsheet and instructions from SharePoint

Send these to your corresponding State DOT

Review instructions and respond to questions

Obtain the completed spreadsheet from the State DOT and quality check it

- Let HQ know if they need assistance with this before the due date

Send the final spreadsheet to HQ





STATE DOTS

Obtain their spreadsheet from their corresponding Division

Fill it in with information as required in 23 CFR 772

- Make use of the instructions
- If there is time available:
 - Review old entries for completeness and correctness
 - Note any Repairs or Demolitions (replacements, removals)
- Coordinate internally to obtain existing GIS data
 - If available, it may come from a GIS Unit, a Planning Office, or an Asset Management Team

Submit completed spreadsheet to Division

INSTRUCTIONS

FILLING OUT THE INVENTORY

FHWA's Triennial Noise Abatement Inventory

2020-2022 Data Collection

County (starting in the Nolee barrier) is located

Do not shorthand names, fill in the full name of the County, Abitibi, or thorough if the barrier crosses county lines, include both the county in which the Nolee barrier starts, and the county in which it ends. Separate the counties with a comma. Ex. County A, County B

If the barrier is in an independent City, fill in the County column with "N/A"

County

The city (or cities) in which the Nolee barrier is located

Record the name of the city in which the Nolee barrier starts, and the city in which it ends. Separate the city names with a comma. Ex. City A, City B

Input only cities under "in" - not neighborhoods, private development, counties, or numbers - "in" is not a city. If the barrier is in a city, and the barrier crosses into a city, use the city in which the barrier starts.

Do not shorthand names, fill in the full name of the City. Ex. Toronto, rather than Tor, so that they are locatable with a Google search.

Name the Nolee Route (links) from

The route name Agency/Task used to identify the nolee barrier/nolee system

We can input any name or number into this field.

For example, you may choose to use the field to be associated or contribute Nolee barriers to link or categorize to protect one or more neighborhoods or in association with a particular project. Sometimes a single community or abatement is actually comprised of more than one Nolee barrier. Multiple Nolee barriers are reported separately (using the same Agency/Task) and are linked together with the same link number. Do not shorthand names.

For example: "Parkway Neighborhood System" may be assigned to several Nolee barriers.

Example of correctly completed rows in the Nolee barrier system

Agency/Task	County	City	Link Number	Notes
City of Toronto	N/A	Toronto	1	City of Toronto
City of Toronto	N/A	Toronto	2	City of Toronto
City of Toronto	N/A	Toronto	3	City of Toronto
City of Toronto	N/A	Toronto	4	City of Toronto
City of Toronto	N/A	Toronto	5	City of Toronto
City of Toronto	N/A	Toronto	6	City of Toronto
City of Toronto	N/A	Toronto	7	City of Toronto
City of Toronto	N/A	Toronto	8	City of Toronto
City of Toronto	N/A	Toronto	9	City of Toronto
City of Toronto	N/A	Toronto	10	City of Toronto
City of Toronto	N/A	Toronto	11	City of Toronto
City of Toronto	N/A	Toronto	12	City of Toronto
City of Toronto	N/A	Toronto	13	City of Toronto
City of Toronto	N/A	Toronto	14	City of Toronto
City of Toronto	N/A	Toronto	15	City of Toronto
City of Toronto	N/A	Toronto	16	City of Toronto
City of Toronto	N/A	Toronto	17	City of Toronto
City of Toronto	N/A	Toronto	18	City of Toronto
City of Toronto	N/A	Toronto	19	City of Toronto
City of Toronto	N/A	Toronto	20	City of Toronto
City of Toronto	N/A	Toronto	21	City of Toronto
City of Toronto	N/A	Toronto	22	City of Toronto
City of Toronto	N/A	Toronto	23	City of Toronto
City of Toronto	N/A	Toronto	24	City of Toronto
City of Toronto	N/A	Toronto	25	City of Toronto
City of Toronto	N/A	Toronto	26	City of Toronto
City of Toronto	N/A	Toronto	27	City of Toronto
City of Toronto	N/A	Toronto	28	City of Toronto
City of Toronto	N/A	Toronto	29	City of Toronto
City of Toronto	N/A	Toronto	30	City of Toronto
City of Toronto	N/A	Toronto	31	City of Toronto
City of Toronto	N/A	Toronto	32	City of Toronto
City of Toronto	N/A	Toronto	33	City of Toronto
City of Toronto	N/A	Toronto	34	City of Toronto
City of Toronto	N/A	Toronto	35	City of Toronto
City of Toronto	N/A	Toronto	36	City of Toronto
City of Toronto	N/A	Toronto	37	City of Toronto
City of Toronto	N/A	Toronto	38	City of Toronto
City of Toronto	N/A	Toronto	39	City of Toronto
City of Toronto	N/A	Toronto	40	City of Toronto
City of Toronto	N/A	Toronto	41	City of Toronto
City of Toronto	N/A	Toronto	42	City of Toronto
City of Toronto	N/A	Toronto	43	City of Toronto
City of Toronto	N/A	Toronto	44	City of Toronto
City of Toronto	N/A	Toronto	45	City of Toronto
City of Toronto	N/A	Toronto	46	City of Toronto
City of Toronto	N/A	Toronto	47	City of Toronto
City of Toronto	N/A	Toronto	48	City of Toronto
City of Toronto	N/A	Toronto	49	City of Toronto
City of Toronto	N/A	Toronto	50	City of Toronto
City of Toronto	N/A	Toronto	51	City of Toronto
City of Toronto	N/A	Toronto	52	City of Toronto
City of Toronto	N/A	Toronto	53	City of Toronto
City of Toronto	N/A	Toronto	54	City of Toronto
City of Toronto	N/A	Toronto	55	City of Toronto
City of Toronto	N/A	Toronto	56	City of Toronto
City of Toronto	N/A	Toronto	57	City of Toronto
City of Toronto	N/A	Toronto	58	City of Toronto
City of Toronto	N/A	Toronto	59	City of Toronto
City of Toronto	N/A	Toronto	60	City of Toronto
City of Toronto	N/A	Toronto	61	City of Toronto
City of Toronto	N/A	Toronto	62	City of Toronto
City of Toronto	N/A	Toronto	63	City of Toronto
City of Toronto	N/A	Toronto	64	City of Toronto
City of Toronto	N/A	Toronto	65	City of Toronto
City of Toronto	N/A	Toronto	66	City of Toronto
City of Toronto	N/A	Toronto	67	City of Toronto
City of Toronto	N/A	Toronto	68	City of Toronto
City of Toronto	N/A	Toronto	69	City of Toronto
City of Toronto	N/A	Toronto	70	City of Toronto
City of Toronto	N/A	Toronto	71	City of Toronto
City of Toronto	N/A	Toronto	72	City of Toronto
City of Toronto	N/A	Toronto	73	City of Toronto
City of Toronto	N/A	Toronto	74	City of Toronto

The FHWA will collect this information, in accordance with OMB's Information Collection requirements.¹² Therefore, the fields that correspond to the regulation are required to be filled out and submitted by the highway agency to FHWA. This requirement is met when states update and submit their Noise Barrier Inventory spreadsheet to the FHWA.

After you submit your inventory you can still make changes at any point. Save changes to your most recently submitted workbook and email it to your Division. FHWA Headquarters will update your inventory.

```
graph TD; 1[1) HQ  
Provide State-specific  
workbooks to Divisions] --> 2[2) DIVISION  
Provide specific  
workbook to their State]; 2 --> 3[3) STATE  
update workbook and  
return by email to your  
Division]; 3 --> 4[4) DIVISION  
Review the updated  
inventory workbook for  
completeness and  
correctness and email it  
to HQ]; 4 --> 5[5) HQ  
Export data from  
updated State-specific  
workbooks to the  
Master Noise Barrier  
Inventory]; 5 --> 6[6) HQ  
Post the updated  
Inventory online];
```

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Listed in: 25 CFR 77213(f) → **LEGEND** 4- Optional or System Calculated

An "update" includes making any of the following changes to a current inventory:

- Add new rows to the spreadsheet to report **new** Noise Barrier constructed in 2017, 2018, or 2019 since your last report to FHWA. Use one row for each new Noise Barrier.
- Add new/unreported barriers. An unreported barrier is an existing barrier, one that was constructed before 2014, that should be counted in your state's inventory, but is not in your current inventory.
- Correcting data about barriers already in your inventory. Some examples of corrections include correcting the barrier material type, or the original construction date of a barrier.
- Add new rows to the **REPAIRS** tab in the spreadsheet to describe any repairs made in the last 3 years to existing, previously reported Noise Barriers.

(3) Do not enter information from all CAPS.

(4) Make sure you do not combine data from different columns.

If a field fits in any blank(s) in your State's previously reported information.

(4) If a field does not apply, input N/A.

(6) If information is not available, leave the cell blank.

(8) On the use of commas (,) and slashes (/):

- a. Commas should be used to separate items that are not the same.
 - For Example: a barrier crosses two cities → City A, City B or protects various Activity Categories → B, C, E; or denotes a barrier on an interchange of two roadways by using a comma between the roadway names
- b. Slashes should be used when there are different but have multiple identifiers
 - For Example: a route with multiple names along the same stretch of road.

The diagram shows a form with three dropdown menus labeled "State", "County", and "City". The "State" menu has "Arizona" selected with a green checkmark icon. The "County" menu has a red circle around it with a red X over it. The "City" menu also has a red circle around it with a red X over it.

Instructions for each column from Left to Right for each Tab

WORKBOOK ORGANIZATION

▶	2020-2022 Update	Alabama	Repairs	Demolitions



[STATE NAME] TAB

Do not:

- fill in Barrier ID columns
- fill in 2022 dollar cost columns unless the barriers were built in 2022 itself
- erase demolished, rebuilt, or relocated barriers
- combine data from multiple columns into a single one
- enter data in ALL CAPS

Try to input actual quantities for the Area column

Make use of the State Reference Name column

Add notes for unique situations in their row at the end of the labeled columns

[STATE NAME] TAB COLUMNS

New ID (2019)	Noise Barrier ID (pre-2019)	State	County	City	State Reference Name	Route	Original Construction Cost	Current Year (2022) Cost					
Do Not Fill	Do Not Fill	State/s where the	County/ies where the	City/ies where the	Open cell for State DOT use		Roadway/s along which		Total cost of the				
		Original Unit Cost	Current Year (2022) Unit Cost	Height Ft	Length Ft	Area Sq Ft	Year of Original Construction	Avg Noise Reduction	Primary NAC	Other NAC	Primary Construction Material	Secondary Construction Material	
		For further details, please see the Instructions file											
		Unit cost of the abatement measure in square feet from Construction	Do Not Fill	The mean or mode height of the abatement measure in feet	The length of the abatement measure	The total area of the abatement	Year the abatement was	The overall average noise reduction	The primary land use/activity type the	Any other land uses and activities that are protected	The main construction material for most of the	Any other materials that are also used in the abatement	
		Features		Surface Texture	Foundation	Project Type	Mandate for Construction	GIS Location		Repair Date			
Any special features such as access doors		Whether the abatement measure is absorptive, reflective, or both	Whether the abatement measure is on the ground or on a structure		The project/funding type associated with the abatement measure	When the measure was					The date the		
							Comments – Other Primary Construction Material	Comments – Other Secondary Construction Material	Comments – Other Feature		Comments – Other Project Type		
							Any special features about the primary construction material	Any special features about the secondary construction material	Any other special features such as paint color or project commitments		Any other comments about the project type, such as Design-Build		

REPAIRS TAB

Use this tab to fill in data about repairs:

- Patches
- Panel replacements
- Painting
- Absorptive material replacement

Add a repair date to the Main Tab information for that given barrier





DEMOLITIONS TAB

Use this Tab to fill in the information for barriers that have been

- Demolished,
- Replaced-in-kind, or
- Reconstructed in a new location

In the Main Tab, use the ~~cross out text~~ function to strike a line through the old barrier

- Make a note in column 'Z' about what type of change it was,
- What year it occurred, and
- What new barrier replaced it

In the Demolitions Tab, copy in the information for the old barrier

- Copy and paste the old barrier data from the main tab of the inventory into this tab

LINKS

INTERNAL AND PUBLIC



FINDING AND USING THE INVENTORY

Internal Division and HQ SharePoint:

- For Divisions to download and send to State to fill out
- [Noise Barrier Inventories Library \(sharepoint.com\)](#)

Public Webpages:

- To find the summary, graphs, and data tool for the last completed inventory
- https://www.fhwa.dot.gov/environment/noise/noise_barriers/inventory/

Q&A

OPEN DISCUSSION

THANK YOU



Aileen Varela-Margolles



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[https://www.fhwa.dot.gov/
environment/noise/](https://www.fhwa.dot.gov/environment/noise/)