

Noise in Europe

2015 overview of policy-related data



Sweden 

April 2016



The Environmental Noise Directive (END) requires EU Member States to assess exposure to noise from key transport and industrial sources with two initial reporting phases: 2007 and 2012. Where the recommended thresholds for day and night indicators are exceeded, action plans are to be implemented. This country fact sheet presents key statistics related to END assessments as reported to EEA by 30th June 2015 for the two key END indicators: L_{den} (day evening and night exposure) and L_{night} (night time exposure). Where possible this is presented for second round assessments reported in 2012. Trends are presented as the change in exposure from 2007 to 2012, for comparable sources only.



SWEDEN

Noise sources covered by this assessment		Trends on noise exposure 2007 - 2012																																																			
	END noise sources	Trends on noise exposure show, for both implementation rounds:																																																			
Number of agglomerations	13	<ul style="list-style-type: none"> - For agglomerations: the relative value of people exposed to more than 55 dB L_{den} and to more than 50 dB L_{night} due to different noise sources (values are expressed in %). - For major airports: total number of people exposed to more than 55 dB L_{den} and to more than 50 dB L_{night} (values are expressed in real numbers). 																																																			
Major roads	3992 km																																																				
Major railways	1396 km																																																				
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Name of major airports	Göteborg-Landvetter Airport Stockholm-Arlanda Airport Stockholm-Bromma Airport	<p>Major airports:</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">L_{den}</th> <th colspan="2">L_{night}</th> </tr> <tr> <th>First round</th> <th>Second round</th> <th>First round</th> <th>Second round</th> </tr> </thead> <tbody> <tr> <td>Göteborg-Landvetter Airport</td> <td>300</td> <td>500</td> <td>200</td> <td>200</td> </tr> <tr> <td>Stockholm-Arlanda Airport</td> <td>1400</td> <td>1700</td> <td>100</td> <td>200</td> </tr> </tbody> </table>					L_{den}		L_{night}		First round	Second round	First round	Second round	Göteborg-Landvetter Airport	300	500	200	200	Stockholm-Arlanda Airport	1400	1700	100	200																													
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Name of agglomerations and numbers of inhabitants	Boras 243320 Gothenburg 164711 Helsingborg 201380 Jonkoping 107514 Linkoping 164633 Lund 114012 Malmo 334757 Norrkoping 186651 Orebro 146832 Stockholm 462692 Umea 107763 Uppsala 1646529 Vasteras 371118	<p>Agglomerations:</p> <table border="1"> <thead> <tr> <th rowspan="2">Airports (values in %)</th> <th colspan="2">L_{den}</th> <th colspan="2">L_{night}</th> </tr> <tr> <th>First round</th> <th>Second round</th> <th>First round</th> <th>Second round</th> </tr> </thead> <tbody> <tr> <td>Gothenburg</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> </tr> <tr> <td>Malmo</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> </tr> <tr> <td>Stockholm</td> <td>0.5</td> <td>1.6</td> <td>0.0</td> <td>0.0</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Industry (values in %)</th> <th colspan="2">L_{den}</th> <th colspan="2">L_{night}</th> </tr> <tr> <th>First round</th> <th>Second round</th> <th>First round</th> <th>Second round</th> </tr> </thead> <tbody> <tr> <td>Gothenburg</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Malmo</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Stockholm</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>				Airports (values in %)	L_{den}		L_{night}		First round	Second round	First round	Second round	Gothenburg	0.0	0.0	0.0	0.0	Malmo	N/D	N/D	N/D	N/D	Stockholm	0.5	1.6	0.0	0.0	Industry (values in %)	L_{den}		L_{night}		First round	Second round	First round	Second round	Gothenburg	0	0	0	0	Malmo	0	0	0	0	Stockholm	0	0	0	0
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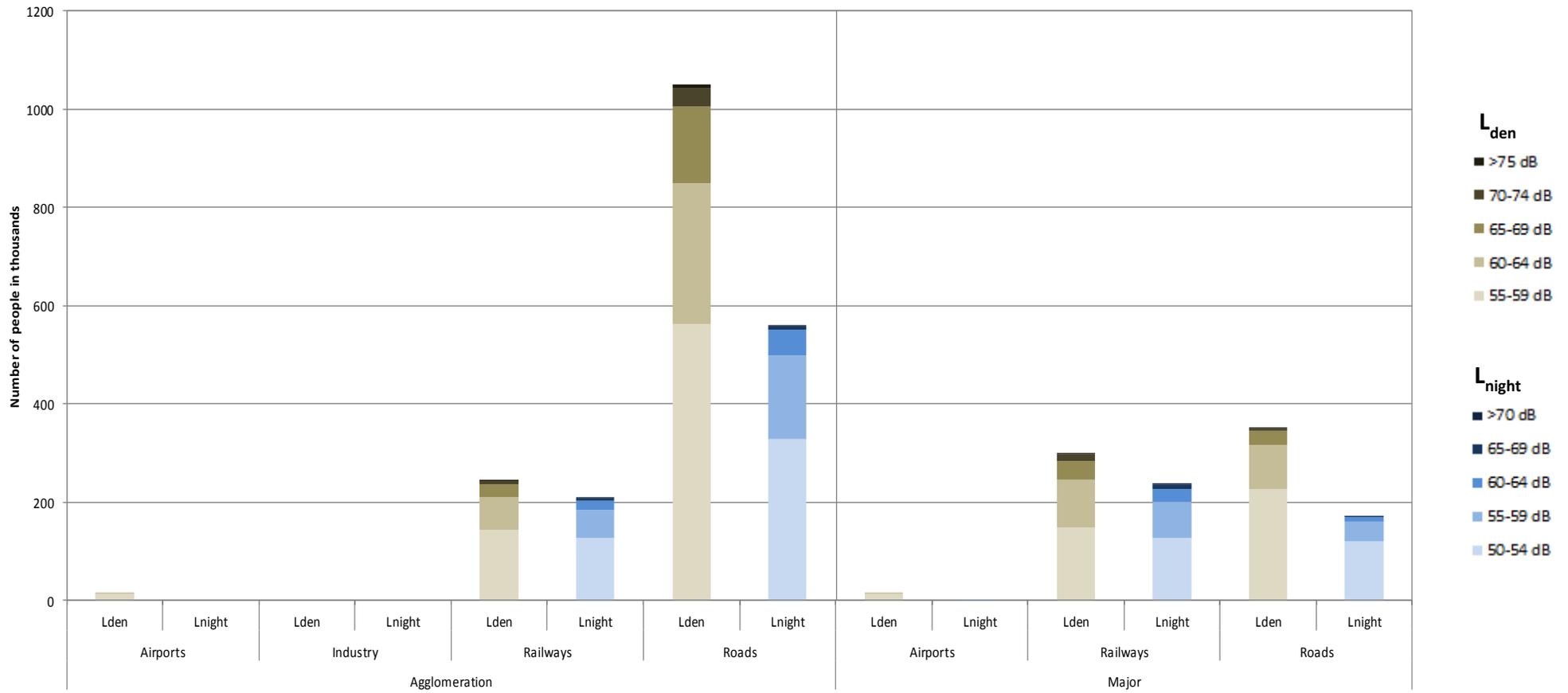
Railways (values in %)	L _{den}		L _{night}	
	First round	Second round	First round	Second round
Gothenburg	10.0	10.7	6.7	7.2
Malmo	16.0	19.2	12.1	15.4
Stockholm	6.4	3.9	2.9	5.6

Roads (values in %)	L _{den}		L _{night}	
	First round	Second round	First round	Second round
Gothenburg	43	45	24	25
Malmo	77	65	59	40
Stockholm	35	29	20	14

N/D: Data not provided or unsuitable for deriving trends (e.g. data reported for only one round)

	Decrease in population exposed
	No change
	Increase in population exposed

Number of people exposed to different noise bands per L_{den} and L_{night} (2012)



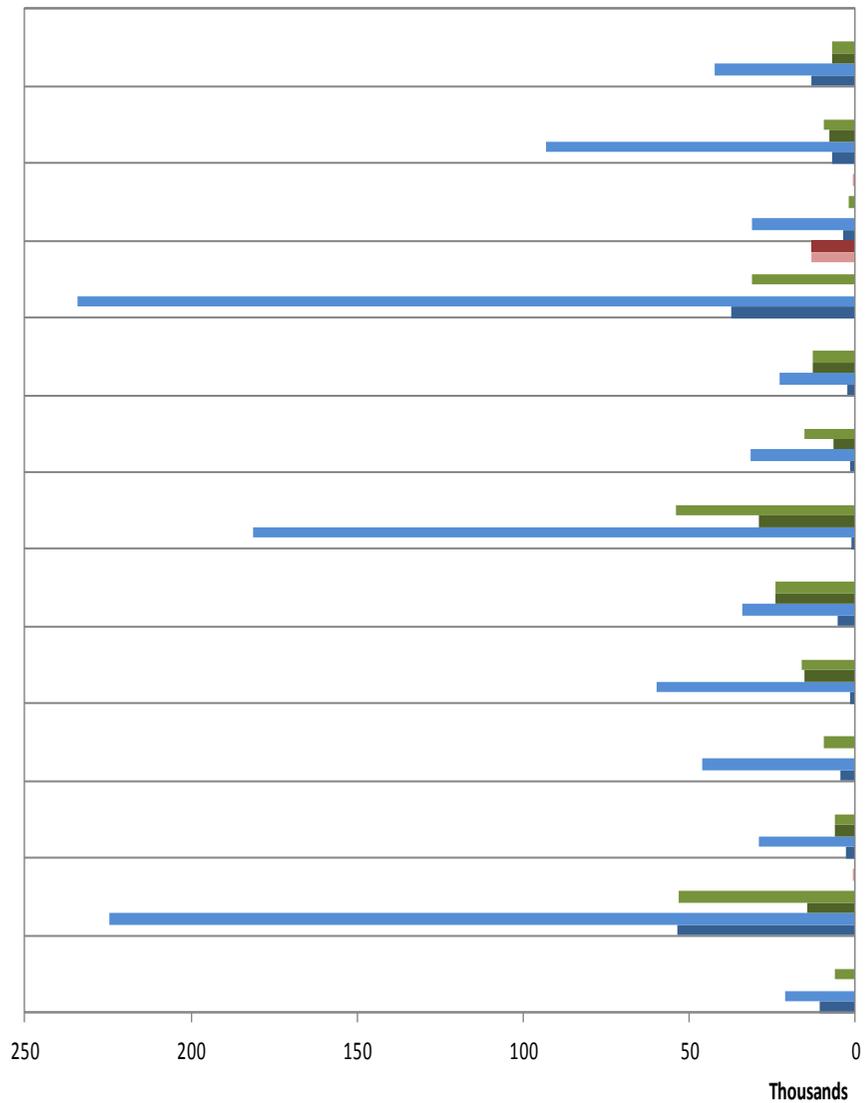
Data not applicable for airport noise in 5 agglomerations and for industrial noise in 2 agglomerations.

Data relating to END mandatory noise contour maps (2012)

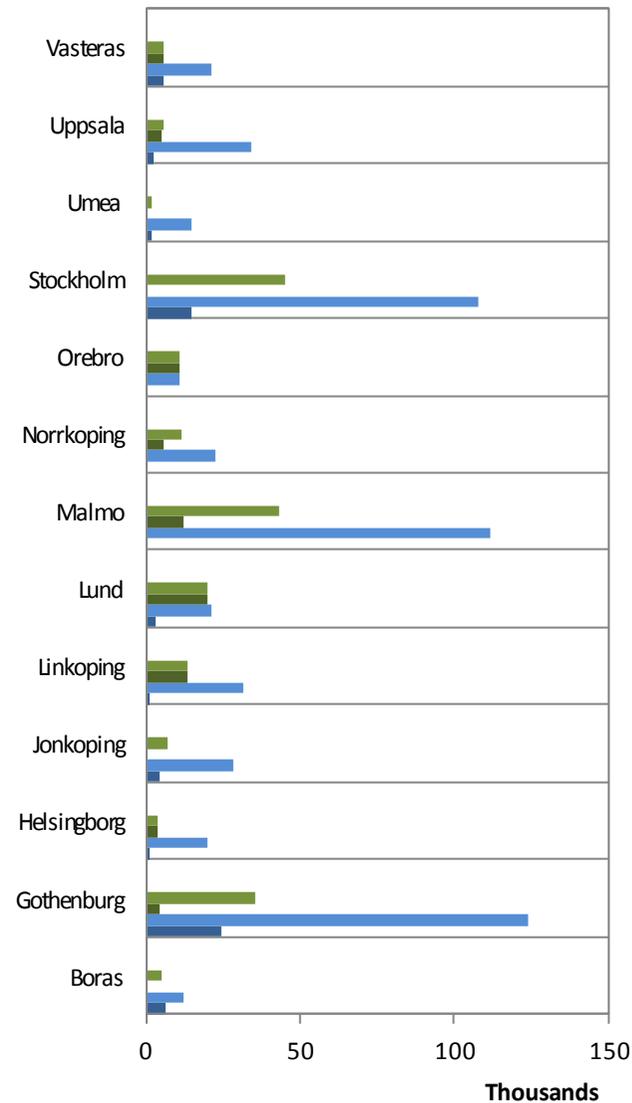
	Major roads	Major railways	Major airports
Country area (km ²)	446027.84	446027.84	446027.84
Km of noise sources	3991.68	1396.00	N/A
Area of contour map in the 55-65 dB L _{den} band (in km ²)	1845.04	968.31	0.88
Share of area of contour map in the 55-65 dB L _{den} band per km of noise source reported	0.46	0.69	N/D
Percentage of the country area occupied by contour maps in the 55-65 dB L _{den} band (in %)	0.41	0.22	0.00
Area of contour map with more than 65 dB L _{den} (in km ²)	674.28	358.52	0.15
Share of area of contour map with more than 65 dB L _{den} per km of noise source reported	0.17	0.26	N/D
Percentage of the country area occupied by contour maps with more than 65 dB L _{den} (in %)	0.15	0.08	0.00

*N/A: Not applicable. N/D: No data in suitable format to perform the spatial analysis

Total number of people exposed to noise inside agglomerations (2012)



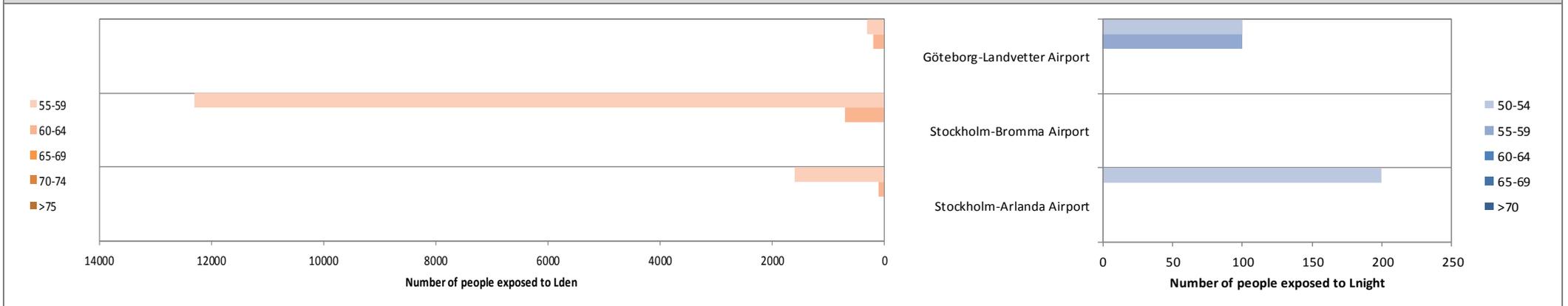
Number of people exposed to Lden > 55 dB



Number of people exposed to Lnight > 50 dB

- Major Airports
- Airports
- Industry
- Railways
- Major Railways
- Roads
- Major Roads

Total number of people exposed to noise from major airports outside agglomerations (2012)



For further information please consult the full Noise in Europe report at www.eea.europa.eu/themes/noise or visit the Noise Observation & Information Service for Europe at <http://noise.eionet.europa.eu/>.