Noise in Europe

2017 overview of policy-related data



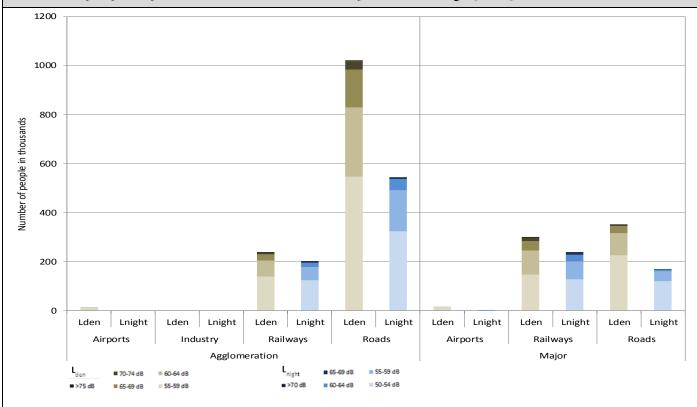
The Environmental Noise Directive (END) requires EU member states to assess exposure to noise from key transport and industrial sources with two initial reporting phases: 2007 and 2012. Where the recommended thresholds for day and night indicators are exceeded, action plans are to be implemented. This country fiche presents data related to END assessments as reported to EEA by 15th April 2016 for the two key END indicators: Lden (day evening and night exposure) and Lnight (night time exposure). 2012 strategic noise maps reported are presented, as well as HIA calculations for annoyance and sleep disturbance, hospital admissions and mortality. Trends are presented as the change in exposure from 2007 to 2012, for comparable sources only.



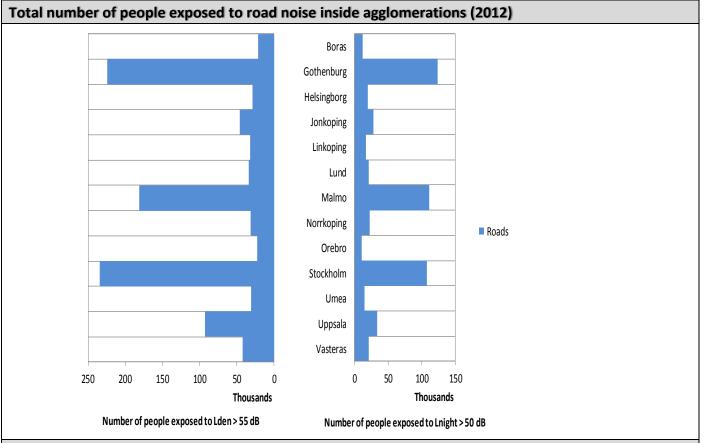
SWEDEN

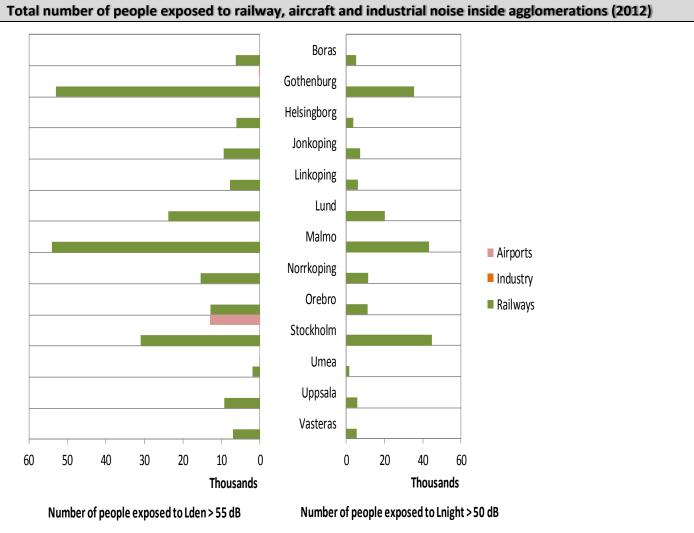
Noise sources covered by this assessment **Agglomerations** Boras, Gothenburg, Helsingborg, Jonkoping, Linkoping, Lund, Malmo, Norrkoping, Orebro, Stockholm, > 100.000 inhabitants Umea, Uppsala, Vasteras 13 agglomerations in total, covering 2.854.948 inhabitants **Major airports** Göteborg-Landvetter Airport, Stockholm-Arlanda Airport, Stockholm-Bromma Airport > 50.000 movements per year 3 major airports in total Major roads > 3 million vehicles per year 3992 km in total Major railways > 30.000 train passages per year 1396 km in total

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



Data not applicable in 5 agglomerations for aircraft noise and 2 agglomerations for industrial noise, out of 13 agglomerations.





Total number of people exposed to Major Airports outside agglomerations (2012) Göteborg-Landvetter Airport **55-59** ■ 50-54 60-64 Stockholm-Bromma Airport **55-59 65-69** ■ 60-64 **70-74** Stockholm-Arlanda Airport **65-69 ■** >75 15000 10000 5000 50 100 150 200 250 Number of people exposed to Lden Number of people exposed to Lnight

Noise contour maps (2012)

Major roads



Major railways



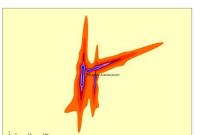
Major airports

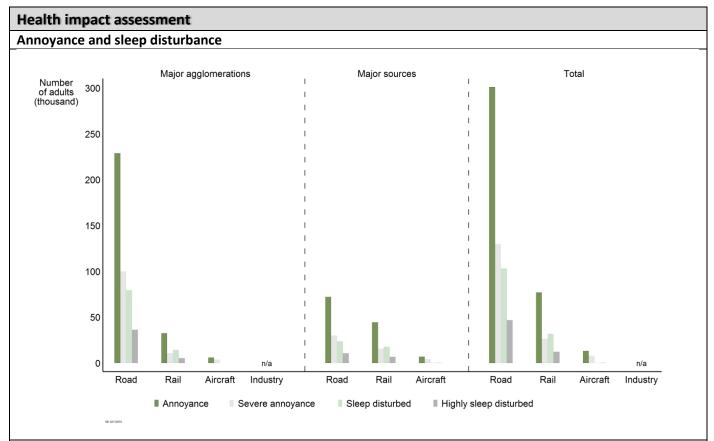
Airport	ICAO	Annual traffic
Göteborg-Landvetter Airport	ESGG	63776
Stockholm-Arlanda Airport	ESSA	218570
Stockholm-Bromma Airport	ESSB	59208



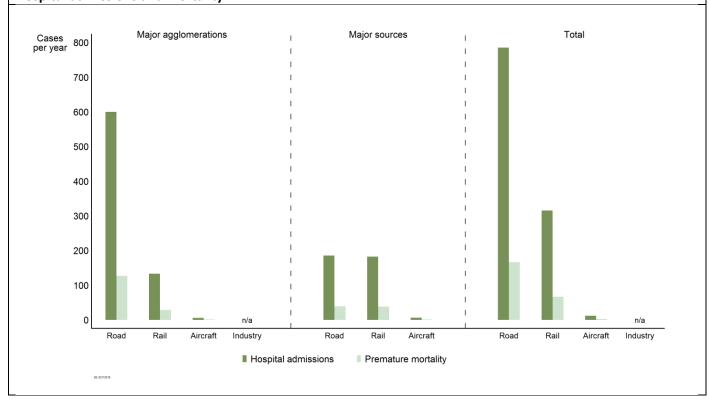












Trends on noise exposure 2007 - 2012

Trends on noise exposure are shown only in those cases where data is available for both implementation rounds:

- For major airports: total number of people exposed to more than 55 dB Lden and to more than 50 dB Lnight outside agglomerations.
- For agglomerations: percentage of population exposed to more than 55 dB Lden and to more than 50 dB Lnight due to different noise sources.

Major airports:

	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	

Agglomerations:

Air	L	den		L_{night}		
(values in %)	First	Second	First	Second		
(values III %)	Round	Round	Round	Round		
Gothenburg	0	0	0	0		
Stockholm	0.5	1.6	0	0		

Industry	L _{den}			L _{night}		
(values in %)	First	Second	- 1	First	Second	
(values III %)	Round	Round	R	ound	Round	
Gothenburg	0	0		0	0	
Malmo	0	0		0	0	
Stockholm	0	0		0	0	

	Decrease in population exposed
	No change
	Increase in population exposed

Railway	L _{den}			L _{night}		
(values in %)	First	Second		First	Second	
(values III %)	Round	Round Round		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	

Road	L _{den}			L _{night}		
(values in 0/)	First	Second First		First	Second	
(values in %)	Round	und Round Round		Round		
Gothenburg	43	45		24	25	
Malmo	77	65		59	40	
Stockholm	35	29		20	14	

For further information about environmental noise in Europe please

consult http://www.eea.europa.eu/themes/human/noise or visit the Noise Observation & Information Service for Europe at http://noise.eionet.europa.eu/ and EEA Data Service http://www.eea.europa.eu/data-and-maps/data/data-on-noise-exposure-2.