

Noise in Europe

2015 overview of policy-related data



Spain 

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.



SPAIN

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	60	<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	19552 km																																																															
Major railways	1484 km																																																															
Number of major airports	13																																																															
Name of major airports	Alicante-Elche Airport Barcelona El Prat Airport Bilbao Airport Gran Canaria Airport Ibiza Airport Lanzarote Airport Madrid Barajas Airport Malaga Airport Palma de Mallorca Airport Seville Airport Tenerife North Airport Tenerife South Airport Valencia Airport	Major airports: <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>Bilbao Airport</td> <td>9900</td> <td>8100</td> <td>3700</td> <td>2100</td> </tr> <tr> <td>Gran Canaria Airport</td> <td>3600</td> <td>2400</td> <td>1600</td> <td>800</td> </tr> <tr> <td>Malaga Airport</td> <td>500</td> <td>400</td> <td>400</td> <td>300</td> </tr> <tr> <td>Palma de Mallorca Airport</td> <td>100</td> <td>300</td> <td>0</td> <td>100</td> </tr> <tr> <td>Valencia Airport</td> <td>38700</td> <td>30800</td> <td>8600</td> <td>6700</td> </tr> <tr> <td>Barcelona El Prat Airport</td> <td>7800</td> <td>2300</td> <td>1100</td> <td>400</td> </tr> <tr> <td>Alicante-Elche Airport</td> <td>8500</td> <td>0</td> <td>2100</td> <td>0</td> </tr> <tr> <td>Tenerife South Airport</td> <td>11600</td> <td>4300</td> <td>2800</td> <td>600</td> </tr> <tr> <td>Tenerife North Airport</td> <td>18300</td> <td>2200</td> <td>0</td> <td>0</td> </tr> <tr> <td>Madrid Barajas Airport</td> <td>43300</td> <td>31300</td> <td>4800</td> <td>2700</td> </tr> </tbody> </table>					L_{den}		L_{night}		First round	Second round	First round	Second round	Bilbao Airport	9900	8100	3700	2100	Gran Canaria Airport	3600	2400	1600	800	Malaga Airport	500	400	400	300	Palma de Mallorca Airport	100	300	0	100	Valencia Airport	38700	30800	8600	6700	Barcelona El Prat Airport	7800	2300	1100	400	Alicante-Elche Airport	8500	0	2100	0	Tenerife South Airport	11600	4300	2800	600	Tenerife North Airport	18300	2200	0	0	Madrid Barajas Airport	43300	31300	4800	2700
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Name of agglomerations and number of inhabitants	A Coruna 243320 Albacete 164711 Alcala de Henares 201380 Alcobendas 107514 Alcorcon 164633 Algeciras 114012 Alicante 334757 Almeria 186651 Badajoz 146832	Agglomerations: <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>Alicante</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> </tr> <tr> <td>Baix Llobregat I</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> </tr> <tr> <td>Barcelones I</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> </tr> <tr> <td>Barcelones II</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> </tr> <tr> <td>Bilbao</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> <td>N/D</td> </tr> </tbody> </table>				Airports (values in %)	L_{den}		L_{night}		First round	Second round	First round	Second round	Alicante	N/D	N/D	N/D	N/D	Baix Llobregat I	N/D	N/D	N/D	N/D	Barcelones I	N/D	N/D	N/D	N/D	Barcelones II	N/D	N/D	N/D	N/D	Bilbao	N/D	N/D	N/D	N/D																									
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Baix Llobregat I	462692
Baix Llobregat II	107763
Barcelones I	1646529
Barcelones II	371118
Bilbao	355731
Burgos	178966
Cadiz	128554
Cartagena	214033
Castellon de la Plana	240000
Cordoba	323049
Dos Hermanas	117564
Elche	222422
Fuenlabrada	193715
Getafe	164043
Gijon	274472
Girones	123247
Granada	236207
Huelva	320021
Jaen	116393
Jerez de la Frontera	202687
Las Palmas de Gran Canaria	377203
Leganes	182471
Leon	134305
Lleida	131731
Logrono	145866
Madrid	3128600
Malaga	560631
Marbella	126422
Mataro	119780
Mostoles	206275
Murcia	430571
Oviedo	214833
Palma de Mallorca	375048
Pamplona	280199
Parla	
Reus	107770
Salamanca	155619
San Cristobal de La Laguna	144347
San Sebastian - Donostia	185512
Santa Cruz de Tenerife	220902
Santander	182926
Sevilla	704414
Torrejon de Ardoz	116455
Torrevieja	101792
Valencia	814208
Valladolid	317864
Valles Occidental I	248069
Valles Occidental II	213415

Córdoba	N/D	N/D	N/D	N/D
Gijón	N/D	N/D	N/D	N/D
Las Palmas de Gran Canaria	N/D	N/D	N/D	N/D
Madrid	0	0	0	0
Malaga	1	1	0	0
Murcia	N/D	N/D	N/D	N/D
Palma de Mallorca	N/D	N/D	N/D	N/D
Pamplona	0	0	0.04	0
Santa Cruz de Tenerife	N/D	N/D	N/D	N/D
Sevilla	N/D	N/D	N/D	N/D
Valencia	N/D	N/D	N/D	N/D
Valladolid	N/D	N/D	N/D	N/D
Vigo	N/D	N/D	N/D	N/D
Zaragoza	N/D	N/D	N/D	N/D

Industry (values in %)	L _{den}		L _{night}	
	First round	Second round	First round	Second round
Alicante	N/D	N/D	N/D	N/D
Baix Llobregat I	N/D	N/D	N/D	N/D
Barcelones I	N/D	N/D	N/D	N/D
Barcelones II	N/D	N/D	N/D	N/D
Bilbao	0	0	0	0
Córdoba	N/D	N/D	N/D	N/D
Gijón	N/D	N/D	N/D	N/D
Las Palmas de Gran Canaria	N/D	N/D	N/D	N/D
Madrid	N/D	N/D	N/D	N/D
Malaga	0	1	0	0
Murcia	0	0	0	0
Palma de Mallorca	N/D	N/D	N/D	N/D
Pamplona	0.00	0.21	0.00	0.11
Santa Cruz de Tenerife	N/D	N/D	N/D	N/D
Sevilla	N/D	N/D	N/D	N/D
Valencia	0.01	0	0	0
Valladolid	N/D	N/D	N/D	N/D
Vigo	3	6	2	5
Zaragoza	N/D	N/D	N/D	N/D

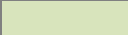
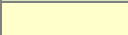
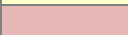
Vigo 293255
 Vitoria - Gazteiz 236525
 Zaragoza 666058

Railways (values in %)	L _{den}		L _{night}	
	First round	Second round	First round	Second round
Alicante	0.1	0.8	0.0	0.4
Baix Llobregat I	N/D	N/D	N/D	N/D
Barcelones I	N/D	N/D	N/D	N/D
Barcelones II	0	0	0	0
Bilbao	1	1	0	0
Córdoba	N/D	N/D	N/D	N/D
Gijón	N/D	N/D	N/D	N/D
Las Palmas de Gran Canaria	N/D	N/D	N/D	N/D
Madrid	N/D	N/D	N/D	N/D
Malaga	0	0	0	0
Murcia	0.0	0.6	0.0	0.3
Palma de Mallorca	N/D	N/D	N/D	N/D
Pamplona	0.3	0.5	0.2	0.3
Santa Cruz de Tenerife	N/D	N/D	N/D	N/D
Sevilla	N/D	N/D	N/D	N/D
Valencia	0.4	2.0	0.1	1.1
Valladolid	N/D	N/D	N/D	N/D
Vigo	0.34	0	0.14	0
Zaragoza	N/D	N/D	N/D	N/D

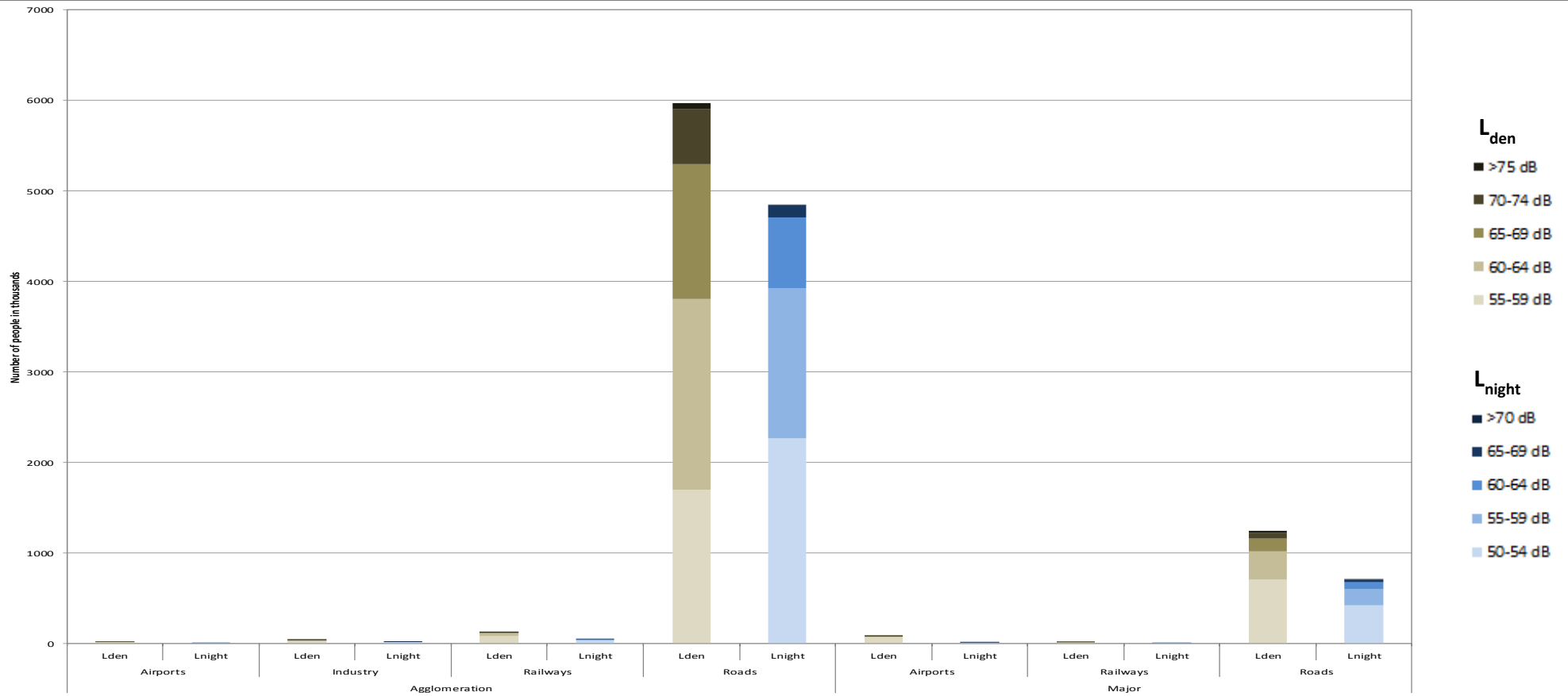
Roads (values in %)	L _{den}		L _{night}	
	First round	Second round	First round	Second round
Alicante	87	19	74	53
Baix Llobregat I	N/D	N/D	N/D	N/D
Barcelones I	N/D	N/D	N/D	N/D
Barcelones II	92	91	77	91
Bilbao	67	66	60	56
Córdoba	N/D	N/D	N/D	N/D
Gijón	N/D	N/D	N/D	N/D
Las Palmas de Gran Canaria	N/D	N/D	N/D	N/D
Madrid	50	46	41	36
Malaga	57	72	46	49

Murcia	25	49	15	25
Palma de Mallorca	N/D	N/D	N/D	N/D
Pamplona	70	72	43	34
Santa Cruz de Tenerife	N/D	N/D	N/D	N/D
Sevilla	N/D	N/D	N/D	N/D
Valencia	92	67	79	57
Valladolid	N/D	N/D	N/D	N/D
Vigo	56	88	45	84
Zaragoza	N/D	N/D	N/D	N/D

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 provided for industry, airports, roads and railways in 33 agglomerations.

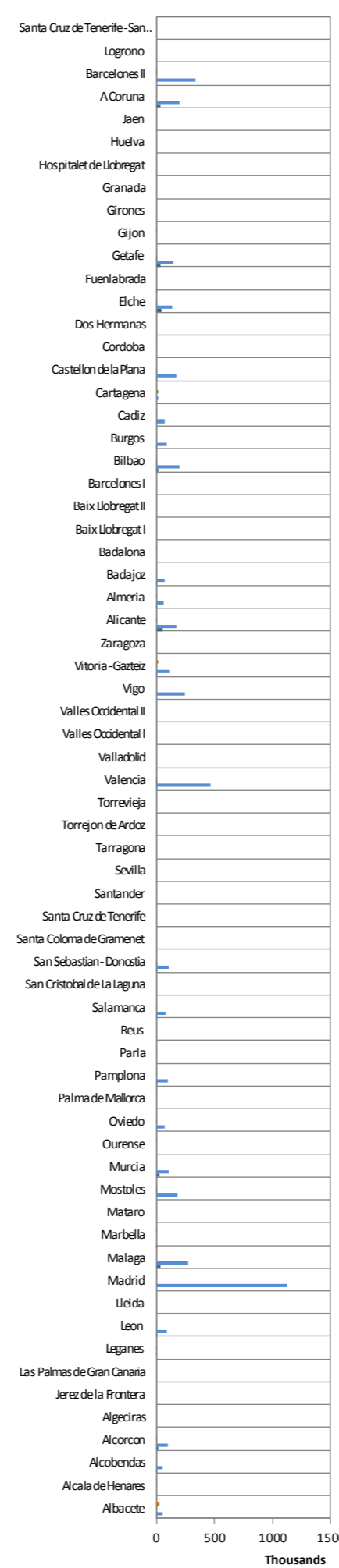
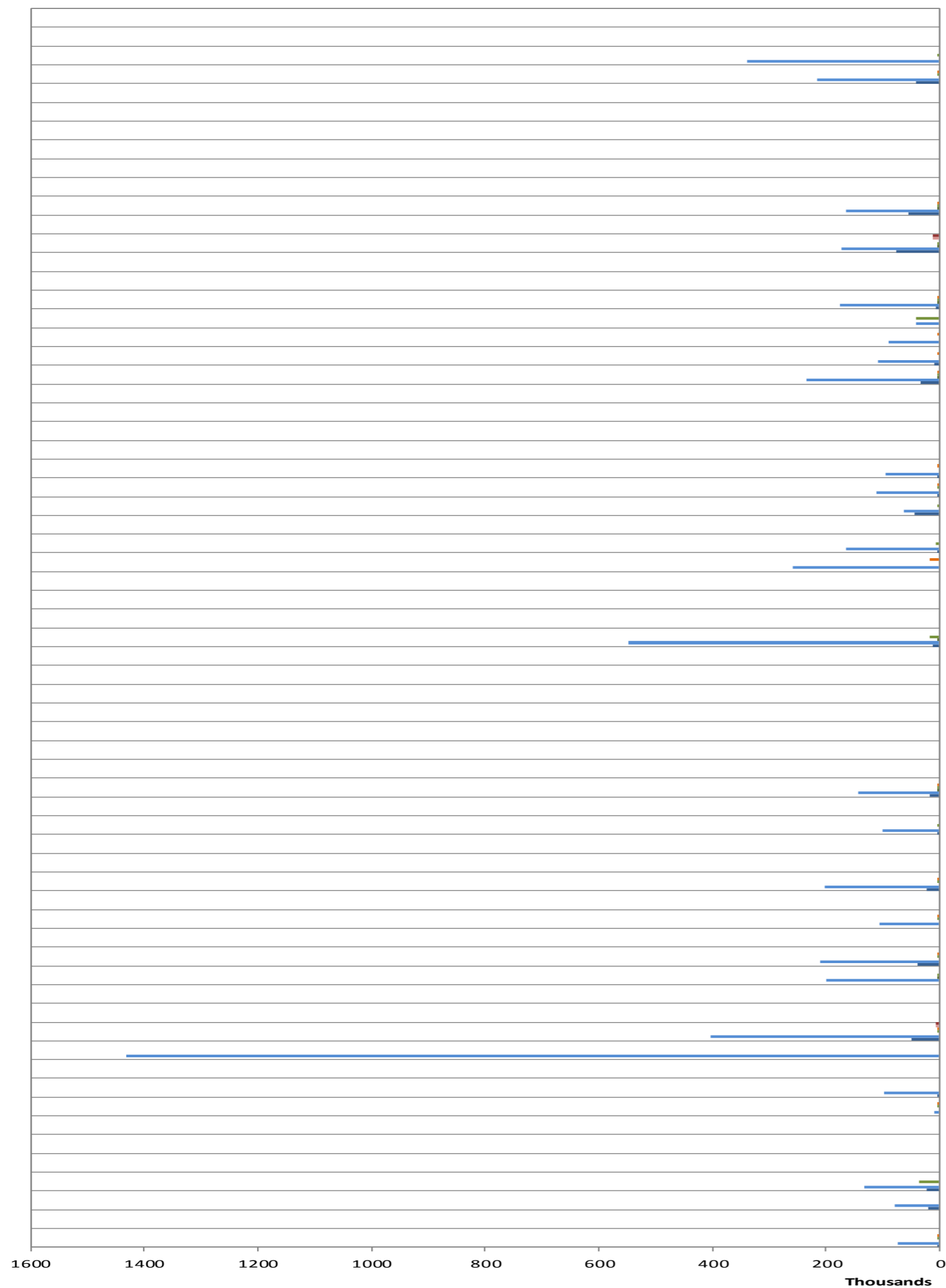
Data not applicable for airport noise in 20 agglomerations and for industrial noise in 4 agglomerations.

Data relating to END mandatory noise contour maps (2012)

	Major roads	Major railways	Major airports
Country area (km ²)	506212.01	506212.01	506212.01
Km of noise sources	18323.12	1368.56	N/A
Area of contour map in the 55-65 dB L _{den} band (in km ²)	628.00	2.16	3.21
Share of area of contour map in the 55-65 dB L _{den} band per km of noise source reported	0.03	0.00	N/D
Percentage of the country area occupied by contour maps in the 55-65 dB L _{den} band (in %)	0.12	0.00	0.00
Area of contour map with more than 65 dB L _{den} (in km ²)	62.00	0.70	0.72
Share of area of contour map with more than 65 dB L _{den} per km of noise source reported	0.00	0.00	N/D
Percentage of the country area occupied by contour maps with more than 65 dB L _{den} (in %)	0.01	0.00	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)

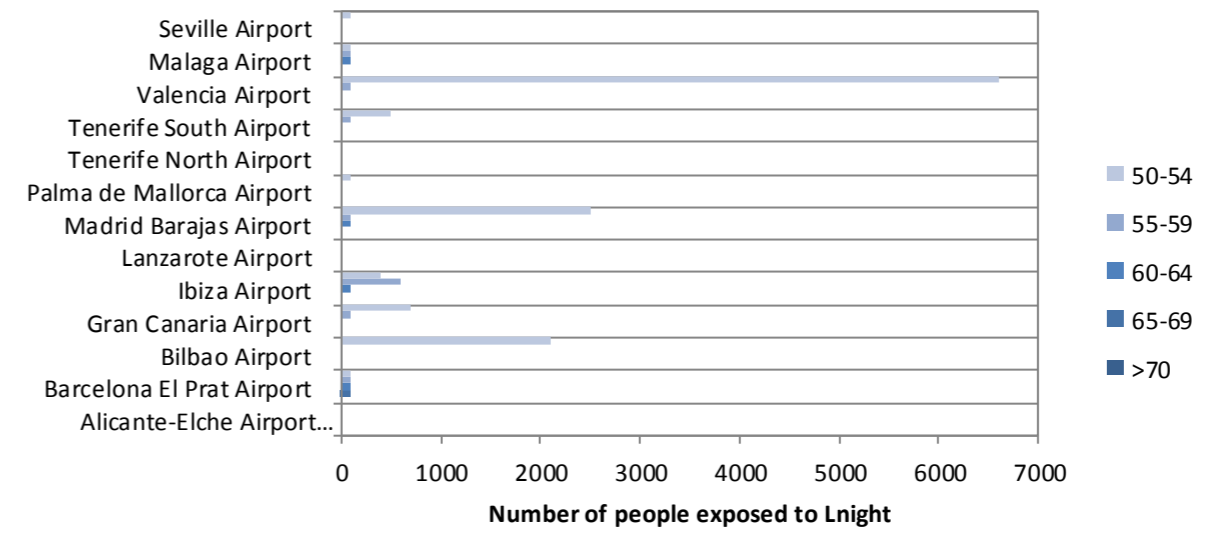
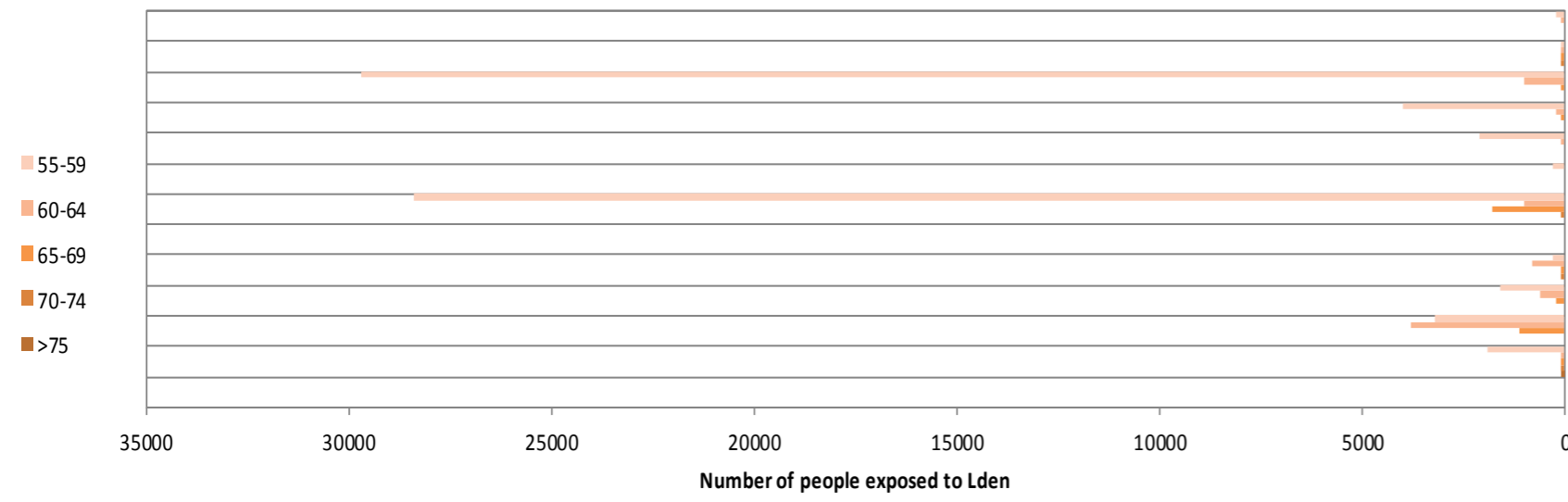


- Major Airports
- Airports
- Industry
- Railways
- Major Railways
- Roads
- Major Roads

Number of people exposed to Lden > 55 dB

Number of people exposed to Night > 50 dB

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/>.