

2005 Annual Member States reporting on ambient air quality assessment (‘The Questionnaire’)

Part 1: Main report



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Front page picture: Traffic (A1 Muiden The Netherlands) and Industry (Corus Steelworks, IJmuiden The Netherlands) are most frequently mentioned as reason of exceedance of the limit values (see form 11 and 13 of the questionnaire).

Maps in this report have been produced by the Czech Hydrometeorological institute (Český hydrometeorologický ústav).

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Supplementary: List of zones in EU Member States in relation to air quality thresholds, 2005

1.1 Summary

The EU air quality legislation requires the Member States to report on zones designated under the Framework directive (96/62/EC) on ambient air quality and to report annually on the levels in comparison to air quality objectives. The reports were provided in the form of a predefined questionnaire. This present 2005 report gives an overview and analysis of the submitted information. It is an update of the previous report on 2001-2004. Supplementary is also a 'List of zones' in the EU Member States in relation to air quality thresholds for the year 2005. The 'List of zones' is a summarized compilation of zone information and exceedance information (on health and vegetation air quality standards) in the Member States for the individual pollutants in the year 2005.

In the last few years the reporting requirements from the Member States have evolved, following the successive entering into force of the first three daughter directives 1999/30/EC, 2000/69/EC and 2002/3/EC and following the accession of new Member States to the EU. The year 2005 was the first year over which 25 EU Member States had to report on assessment under the first three daughter directives. Luxembourg is not included in this report because it did not submit a report. Bulgaria and Romania will be included in the 2006-status report. Iceland and Norway submitted voluntarily reports but have not been included in the analysis and statistics.

This report, with 2005 data, is the first year in which the report is written by the European Environment Agency's European Topic Centre on Air and Climate change (ETC/ACC). However, the choice of topics for analysis is in a broad sense the same as it has been in the first four reporting years. Topics for analysis are selected in deliberation of the EEA with the Commission representatives to provide a comprehensive, though by no means exhaustive overview of air quality information provided under the air quality directives reporting obligation.

Further details to this main report are given in *Overview of air quality reports by Member States under the European air quality directives – Part 2: Annexes*. The 2005 list of the exceedance status of the individual zones in the Member States has also been published separately at the EEA website: <http://air-climate.eionet.europa.eu/reports/#tp>.

Main findings of the present analysis are:

- *Zone designation*
Member States have taken mutually similar approaches in designating their air quality zones, but there are also significant differences. The delimitation of air quality zones in the most of the Member States corresponds to their administrative division and reflects delegation of air quality assessment and management to the local administration.
- The total number of zones reported ranged between 777 and 978 depending on the pollutant; in most Member States the number of zones depended to some extent on the pollutant and protection target. Poland has with 314-362 zones, i.e. depending on the pollutant 37%-47% of all EU zones. Numbers of zones per Member State and zone sizes vary widely, often reflecting country size, pollution levels, population densities and geographical conditions. For some Member States, the reported zones that were related to health protection did not, as required, cover their entire territory (for country-pollutant

details, see table 2 of the Part2: Annexes 2005 report). Another complicating factor is the 'dynamic' nature of the number of zones in some Member States. The total number of zones can vary from year to year and also from pollutant to pollutant between years. This complicates trend analysis over a number of years.

- In summary: the percentage of EU25 zones exceeding limit value, margin of tolerance or target value is low (< 4%) for the pollutants Pb, CO, benzene, SO₂ year, SO₂ day and SO₂ hour.
For the pollutants SO₂ winter, NO_x and NO₂ hour this percentage is of medium (< 6% of the zones in exceedance) importance while the biggest problems (> 6%) are with the pollutants PM₁₀ year (18%), NO₂ year (26%), O₃ vegetation (24%), O₃ health (34%) and PM₁₀ day (44%). See Figure 8 and Table 13.
- If the trend of the last years is considered a worsening of zone exceedance is noticed. Since 2001 the percentages of zones exceeding the limit value and/or margin of tolerance has increased considerable for PM₁₀ day, NO₂ year and PM₁₀ year (see Figure 16). For SO₂ day, SO₂ year and SO₂ winter EU25 zone exceedances have decreased (Figure 17). The trend for EU zones that are in exceedance for ozone (vegetation and health) shows also an increase and worsening situation. Statistics in this respect should be treated with caution as the trend is only 3 years and can be influenced by short term distortions of the long term trend (see Figure 18).

If we look at the main reasons (Figure 23 and Figure 24) for limit value exceedances the conclusions are as follows. For NO₂, most exceedances related to traffic (>70%). For PM₁₀ more than half the exceedances related directly to traffic and for SO₂ the main factor for exceedances is 'industry and power generation' (for the SO₂ daily LV, about 75%). The single important reason for O₃ exceedances is local traffic which accounts for at least 20% of the reasons. By and large this picture was also reflected in the station types where exceedances occurred.

Of the limit values for ecosystems or vegetation, the NO_x limit value was exceeded more widely (11% of the EU25 zones designated for this limit value) than the limit value for SO₂ (1%).

Most Member States reported only exceedance for zones as a whole, without voluntary information on the surface area in exceedance; it should be noted that the percentages of zones with exceedance are not a good measure for the surface area or population exposed to levels exceeding thresholds.

There are differences between Member States in the methodology for air quality assessment (see below), so differences in the extent to which exceedances are identified may still be expected.

– *Air quality assessment*

In 2005, 4409 monitoring stations were reported to be used for measuring air quality under the air quality directives (Table 21). This is down 7.7% compared to 2004 when 4777 stations were reported. There is also a shift in the station characteristics. The number of PM measuring stations went up with 50% from 2533 to 3795 stations in the EU25 as a whole in 2005 compared to 2004. The absolute number of stations that measure SO₂ (2554), NO₂ (3174), NO_x (591), lead (489), benzene (843) and CO (1114) all went down. O₃ measuring stations went up by 4% to 1848 stations in 2005. There were still

considerable differences between Member States in the structure of their networks, and there is potential for improvement of the information on the classification of stations. It was also found that the information on the classification of stations needs to be improved. There were important differences between Member States in the correction of PM₁₀ concentration measured with non-reference methods.

The reporting of certain data such as population needed for judging the fulfilment of assessment requirements is voluntary and several Member States did not send such data. Compliance with the minimum number of stations required by the directives could only be checked for the zones on which sufficient information was received. It was found that the problem of insufficient number of stations in zones is the greatest for PM₁₀ (30% of zones), lead (25%) and benzene (19%) (Figure 32). For NO₂, SO₂ (health) and CO the number of 'missing' stations is respectively 6%, 3% and 1%.

There were large differences in the use of models between Member States. The percentage of zones for which the compliance status was based on modelling varied between 3% (O₃ health) and 19% (lead and SO₂ winter LV for ecosystems),

– *Reporting process and implication for this overview*

The simple Excel tool has been a useful tool for reporting, but processing was sometimes problematic because the tool did not protect against errors. While all efforts have been made to eliminate errors, the original official submissions by the Member States are always to be used when using this information for legal compliance checking.

1. Introduction

This document gives a technical overview of the annual reports by Member States to the European Commission on the results of the assessment of their air quality in 2005. These reports have been submitted under the Air Quality Framework Directive¹, following Commission Decision 2004/461/EC², which specifies the information to be sent in detail and provides a set of forms to be filled in, hereafter called ‘the AQ questionnaire’.

This document is published as a ETC/ACC Technical Paper. This means that the paper has not been subjected to European Environment Agency (EEA) member country review. And that the content does not represent the formal views of the EEA.

The annual reporting under the FWD report consists of 3 parts. The main report, the annexes to the main report and the EU list of zones with exceedance status. Both this main report (Part 1), and a document composed of annexes (Part 2) are available at the EEA website: <http://air-climate.eionet.europa.eu/reports/#tp>. Part 2 has the same structure as the current report and gives additional details, such as data per Member State. A 2005 list of the exceedance status of the individual zones in the Member States is included as supplement in the main report.

Although this 2007 report, with 2005 data, is the first year in which the report is written by the European Topic Centre on Air and Climate change, the setup and contents are broadly speaking the same as the 2004 version of the report. This to facilitate comparison with the results of previous years. For a few aspects a yearly update is less useful and are thus not re-discussed.

Member State reports addressed in this document

This document deals with the reports by the EU25 Member States on the year 2005 submitted under the First Daughter Directive³, the Second Daughter Directive⁴ and the Third Daughter Directive⁵. The year 2005 is the second year of mandatory reporting under the Third Daughter Directive and is also the second mandatory reporting year for the EU10 Member States that joined EU in 2004. Hence this report gives a more complete picture of the EU than the previous one. However, also this report is not fully complete because Luxembourg did not submit its report. Another problematic aspect in analysing and processing the data was that Italy and The Netherlands submitted their questionnaire long after the submission date. In addition, the Italian questionnaire wasn't sent as one Member State questionnaire but as 20 separate regional questionnaires which complicates processing. Finally, Gibraltar submitted its questionnaire separately from the UK and long after the deadline so that data has not been processed in this 2007 report.

¹ Council Directive 96/62/EC on ambient air quality assessment and management.

² Commission Decision 2004/461/EC laying down a AQ questionnaire to be used for annual reporting on ambient air quality assessment under Council Directives 96/62/EC and 1999/30/EC and under Directives 2000/69/EC and 2002/3/EC of the European Parliament and of the Council.

³ Council Directive 1999/30/EC relating to limit values for sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter and lead in ambient air (amended by Commission Decision 2001/744/EC).

⁴ Directive 2000/69/EC relating to limit values of benzene and carbon monoxide in ambient air.

⁵ Directive 2002/3/EC relating to ozone in ambient air.

Reporting under the Exchange of Information Decision

In parallel to the reporting under the Framework Directive, which mainly focuses on compliance checking with obligations under the air quality directives, such as limit values, Member States are sending detailed information from their monitoring networks each year under the Exchange of Information Decision (EoI)⁶. These reports contain to a large extent individual 'raw' data (e.g. all hourly concentrations) and include extensive complementary information about the monitoring stations (metadata). The European Topic Centre on Air and Climate Change of the European Environment Agency publishes annually an assessment of these reports (<http://air-climate.eionet.europa.eu/reports/>). To avoid duplicate reporting by Member States, some of the data that are needed for evaluating the reports under the Framework Directive (particularly the metadata of stations) are only sent under EoI, and hence the current overview necessarily is partly based on EoI data.

Quality of the data received and implications for this overview

To facilitate the submission of the data, the Commission has made the AQ questionnaire available to the Member States in Excel format. This format does not reject erroneous data, and during the processing numerous small errors, e.g. spurious spaces, had to be removed before all reports could be joined in a database. There were also errors that required more insight for correction, such as inconsistent use of zone codes or use of codes that were not allowed. Another difficult type of error was not using the same codes for stations in the AQ questionnaire and EoI reports.

As far as reasonable, it was attempted to resolve these errors by expert judgement, and several remaining problems could be solved in bilateral contacts with the Member States. However, the contact persons, especially those of large Member States with regionally managed monitoring networks, were not able to solve all problems, and hence it is likely that there are remaining errors, which may be reflected in the overviews given here.

In view of the corrections that had to be made to make statistical processing possible, this technical report cannot be used for legal compliance checking. For that purpose the original AQ questionnaires as submitted by Member States have to be used.

Improving the reporting

Along with the proposal for revision of the Air Quality Framework Directive and Daughter Directives⁷, the Commission is currently preparing the implementing provisions for reporting to accompany with the new Directive, with the aim of modernising and streamlining the reporting. Reporting under the new air quality directive may in future years be merged with the reporting under the Exchange of Information Decision and the contents of the reports could evolve to more territory covering information on the air quality. It is anticipated that proposals for improving the reporting will be issued in the course of 2008.

Abbreviations used

Member States: Austria: AT; Belgium: BE; Cyprus: CY; Czech Republic: CZ; Denmark: DK; Estonia: EE; Finland: FI; France: FR; Germany: DE; Greece: EL; Hungary: HU; Ireland: IE; Italy: IT; Latvia: LV; Lithuania: LT; Luxembourg: LU; Malta: MT; Netherlands: NL; Poland: PL; Portugal: PT; Slovakia: SK; Slovenia: SI; Spain: ES; Sweden: SE; United Kingdom: UK.

⁶ Council Decision 97/101/EC establishing a reciprocal exchange of information and data from network and individual stations measuring ambient air pollution within the Member States (amended by Commission Decision 2001/752/EC).

⁷ http://europa.eu.int/comm/environment/air/cafe/pdf/com_2005_447_en.pdf

AQ questionnaire	Questionnaire on air quality set out by Commission Decision 2004/461/EC
CO	Carbon monoxide
Eol	Exchange of Information Decision: Council Decision 97/101/EC, amended by Commission Decision 2001/752/EC
EU15	The 15 EU Member States before the accession of new Member States in 2004
EU25	The 25 EU Member States after accession of 10 new Member States in 2004
LV	Limit value
MOT	Margin of Tolerance (see the legend to Tables 3 and 4)
MS	Member State
New MSs (or EU10)	The 10 new Member States that acceded the EU in 2004
NO ₂	Nitrogen dioxide
NO _x	Nitrogen oxides
Pb	Lead
PM ₁₀	Particulate matter composed of particles smaller than 10 micrometer in aerodynamic diameter
PM _{2.5}	Particulate matter composed of particles smaller than 2.5 micrometer in aerodynamic diameter
O ₃	Ozone
SO ₂	Sulphur dioxide
TV	Target value (O ₃)
LTO	Long Term Objective (O ₃)

2. How the Member States have designated their zones

Designated zones in the Member States to assess and manage air quality vary widely dependant on the chosen variable: size, population, measured individual pollutant or types of protection targets.

The total number of zones that Member States design to measure air quality is not strictly defined. Member States are free in defining their own zone structure and characteristics (population and area) which makes mutual comparison of final results between countries more challenging. In general, larger Member States have more zones than smaller Member States. The countries with more than 100 zones are Poland (362), Italy (144), Spain (140) and Germany (118).

Table 1: Number of zones per Member State in 2005, including the designation of the zones for individual pollutants or types of protection targets

Member State	All Zones	SO ₂		NO ₂		PM ₁₀	Lead	Benzene	CO	O ₃	Not Specified
		Health	Eco-Systems	Health	Vegetation						
AT	19	11	11	11	8	11	11	11	11	11	0
BE	17	12	12	11	11	10	13	8	8	9	0
CY	1	1	1	1	1	1	0	0	1	1	0
CZ	15	15	12	15	0	15	15	15	15	15	0
DE	118	76	87	80	80	77	67	78	78	63	11
DK	10	3	3	9	5	9	2	4	9	9	0
EE	4	4	4	4	4	2	0	0	3	4	0
EL	4	4	4	4	4	4	0	1	4	4	0
ES	140	139	139	139	139	139	139	139	139	139	1
FI	18	14	1	14	0	14	14	3	14	2	1
FR	87	78	71	83	71	79	28	31	30	57	2
HU	11	11	11	11	11	11	11	11	11	11	0
IE	4	4	4	4	4	4	4	4	4	4	0
IT	144	104	62	129	81	105	41	79	105	83	8
LT	3	3	3	3	3	3	3	3	3	3	0
LV	2	2	2	2	2	2	1	2	1	2	0
MT	2	1	1	0	0	1	0	1	1	2	0
NL	9	9	9	9	1	9	4	0	0	0	0
PL	362	362	314	362	314	362	362	362	362	362	0
PT	26	25	25	25	25	25	1	24	24	24	0
SE	6	6	6	3	3	6	2	6	3	6	0
SI	9	9	9	6	6	6	6	6	6	6	0
SK	10	10	10	10	10	10	10	10	9	8	0
UK	43	43	43	43	43	43	43	43	43	43	0
EU25	1064	946	844	978	826	948	777	841	884	868	23

Not all individual pollutants are measured in all designated zones in the EU25. From table 2 can be learned that of the total 1064 EU zones in 2005 92% measure nitrogen dioxide (NO₂), 89% PM₁₀, and 88% SO₂ from a health perspective.

Table 2 EU25 zone coverage of pollutants, 2005

All Zones	1064	100%
NO ₂ Health	978	92%
PM ₁₀	948	89%
SO ₂ Health	946	89%
CO	884	83%
O ₃	868	82%
SO ₂ Eco-Systems	844	79%
Benzene	841	79%
NO _x Vegetation	826	78%
Lead	777	73%
Not Specified	23	2%

The pollutants for which the least number of zones are defined, are benzene, NO_x vegetation and lead; still these pollutants are measured in more than 70% of all zones.

The limit values for the protection of human health apply throughout the territories of the Member States, so areas that do not belong to any zone related to health protection should not exist. For most, but not all Member States the total surface area of health related zones indeed added up to the total surface area of the country. The most striking examples of countries that do not comply are Cyprus, Estonia, France, Italy, Malta and Portugal. An important reason for this is likely errors and/or incomplete data (see Table 2 Part 2: Annexes).

The number of population per zone (Table 3) in a Member State is strongly determined by the population density in a country and the number of zones cq size of the zone-area. A densely populated country as The Netherlands will also have a relatively high average population per zone. The countries with the highest average population per zone in 2005 are Greece (2.741.005), The Netherlands (1.766.459) and Sweden (1.497.000).

Table 3 Zone population in 2005¹

MS	Largest	Smallest	Average
EL	3 551 370	794 330	2 741 005
NL	4 834 110	241 982	1 766 459
SE	2 736 000	453 000	1 497 000
UK	8 278 251	254 690	1 377 018
LV	1 569 638	729 924	1 149 781
LT	2 508 204	364 059	1 141 775
DE	9 920 000	34 308	1 129 980
FI	5 232 345	85 219	1 052 813
IE	2 388 515	178 271	979 334
BE	4 370 000	250	960 794
DK	4 130 550	161 161	946 057
HU	5 225 977	51 344	917 959
PT	9 833 408	72	766 033
CY	750 000	750 000	750 000
AT	1 754 244	130 634	740 982
FR	9 469 547	2 783	689 060
CZ	1 253 257	304 588	681 372
SK	798 596	178 240	538 918
IT	3 361 921	61	396 006
EE	623 106	46 032	347 900
ES	2 966 594	3 065	305 256
SI	550 496	28 060	231 406
MT	274 482	116 933	195 708
PL	2 016 000	21 958	105 899
EU25	9 920 000	61	497 077

Table 4 Zone area in km², 2005¹

MS	Largest	Smallest	Average
FI	337 069	766	74 819
SE	271 849	912	68 494
EL	69 747	129	33 007
LV	64 282	307	32 295
LT	64 743	157	21 767
IE	69 381	185	17 568
EE	32 176	42	10 884
CY	9 251	9 251	9 251
AT	21 677	198	8 783
DK	42 682	305	8 599
HU	83 994	228	8 457
FR	75 925	29	6 980
PT	88 639	51	6 936
DE	22 159	79	6 032
UK	38 269	58	5 644
CZ	11 016	230	5 263
SK	9 455	245	4 904
NL	13 486	174	3 884
BE	16 484	1	3 714
ES	93 500	1	3 617
SI	7 092	147	2 342
IT	23 093	1	1 810
PL	2 987	29	869
MT	276	39	158
EU25	337 069	1	5 130

¹) Not all Member States submitted zone population and zone area data as this was voluntary.

There seems to be a strong difference between countries in the size of the zone area measured in km². Average zone size in Poland is 869 km² and in Finland is 74.819 km². Member States with the largest average zone area in km² (Table 4) are Finland (74.819 km²), Sweden (68.494 km²) and Greece (33.007 km²). Zone size is smallest in Malta (158 km²), Poland and Italy (1810 km²). Average zone size for the EU25 as a whole is 5130 km².

One quarter (250) of the total of 1064 zones in the EU25 have been given the status of agglomeration zone, which has certain implications for the number of monitoring stations (Table 6). The agglomeration zones hold 34% of the total population but only 2,4% of the total area (Table 5). It should be mentioned that population and area data upload was not mandatory, so EU25 totals are not based on all the zones. For most non-agglomerations in Germany area and population data was not supplied.

Table 5 EU25 distribution of zones in population and area, 2005

	Population	Area
Agglomerations > 250.000	31.5%	2.0%
Agglomerations < 250.000	2.3%	0.4%
Non-Agglomerations	66.2%	97.7%
EU25	100%	100%

Nb: Not all Member States submitted zone population and zone area data as this was voluntary.

Distribution of zone classification varies between Member States (Table 6). In the EU25 as a whole about one quarter of the zones is classified as agglomeration whereas at the extremes 100% in Cyprus is agglomeration zone and 0% in Portugal (figure 1).

Member States	Total zones	Agglomeration	Non-agglomeration
AT	19	3	16
BE	17	5	12
CY	1	1	
CZ	15	3	12
DE	118	36	82
DK	10	4	6
EE	4	2	2
EL	4	2	2
ES	140	42	98
FI	18	1	17
FR	87	40	47
HU	11	1	10
IE	4	1	3
IT	144	54	90
LT	3	2	1
LV	2	1	1
MT	2	1	1
NL	9	6	3
PL	362	12	350
PT	26	4	22
SE	6	3	3
SI	9	2	7
SK	10	2	8
UK	43	28	15
EU25	1064	256 (24%)	808 (76%)

Table 6 Zone classification, 2005

MS	Total zones 2004	Total zones 2005
AT	19	19
BE	17	17
CY	1	1
CZ	15	15
DE	145	118
DK	10	10
EE	16	4
EL	4	4
ES	140	140
FI	18	18
FR	85	87
HU	11	11
IE	4	4
IT	137	144
LT	3	3
LV	2	2
MT	3	2
NL	9	9
PL	362	362
PT	26	26
SE	6	6
SI	9	9
SK	10	10
UK	43	43
EU25	1095	1064

Table 7 gives the total number of zones per Member State in 2004 and 2005. Five Member States reported a different number of zones in the course of two years. Germany, Estonia and Malta reported less zones. France and Italy on the other hand reported more zones than the year before.

An important conclusion of this ‘dynamic’ zone numbering over time is that this hampers an objective analysis over several years. The unit for measuring exceedances is the zone in the questionnaire and as such plays a central role in all conclusions. Some Member States even have a different number of zones per pollutant so this dynamic number of zones through time can also be pollutant specific. However, errors should be not excluded in this area as was also seen in table 2 with the zone coverage of the pollutants.

Table 7 Total number of zones per Member State in 2004 and 2005

The conclusions for the distribution of the population per zonetype (figure 1) are in line with expectations as we can assume a correlation between agglomerations and population densities using the population data provided in the questionnaire by the Member States. In Cyprus (100%), Malta (70%), Spain (50%) and Italy (44%) most of the population lives in the agglomeration type zones (figure 2). On the other hand the distribution of population in the countries Finland (5%), Slovakia (12%) and Belgium (15%) is dominated by the non-agglomeration zone type

Figure 1 Percentage of zone agglomerations

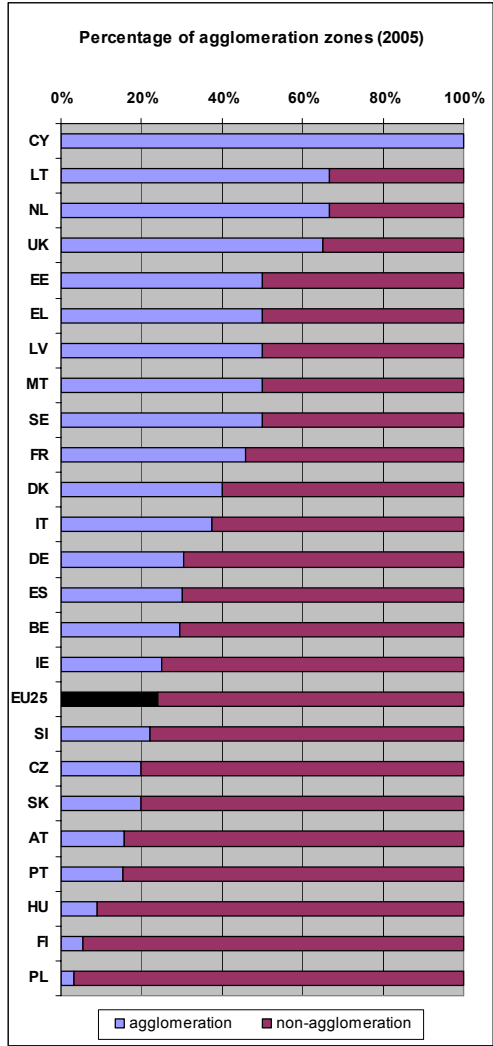
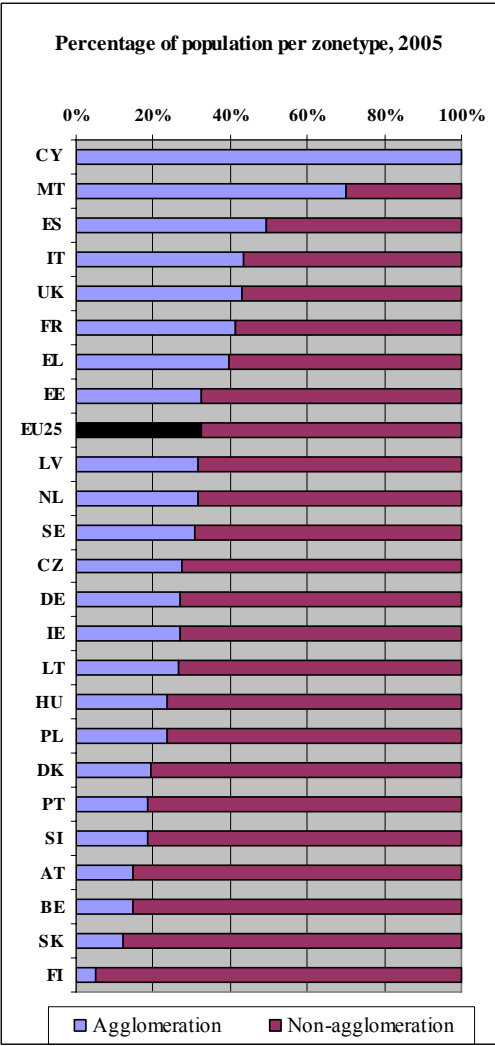


Figure 2 Distribution of population per zonetype



3. Zones and stations where air quality objectives were exceeded

Table 8 shows the values of the limit values, margins of tolerance, target values and long term objectives (LTO) per pollutant, for consecutive years.

Table 8 Stepwise reduction of the limit values, margin of tolerance, target values and long term objectives (LTO)

Pollutant	Type of protection	Averaging period	Limit value (µg/m ³ , except CO & O ₃) ^{1,2)}	Number of allowed exceedances	To be met by	2005	2006	2007	2008	2009	2010	2020
						Limit value + margin of tolerance (µg/m ³ except CO) ^{1,2)}						LTO ⁸
SO ₂	health	1 hour	350	24 hours/yr	1-1-2005	350						n.a.
SO ₂	health	24 hours	125	3 days/yr	1-1-2005							
SO ₂	vegetation	1 yr, ½ yr ³⁾	20		19-7-2001							
NO ₂	health	1 hour	200	18 hours/yr	1-1-2010	250	240	230	220	210	200	
NO ₂	health	1 year	40		1-1-2010	50	48	46	44	42	40	
NO _x	vegetation	1 year	30		19-7-2001							
PM ₁₀	health	24 hours	50	35 days/yr	1-1-2005	50						
PM ₁₀	health	1 year	40		1-1-2005	40						
PM ₁₀	health	1 year	20 ⁴⁾		01/01/10 ⁴⁾	30	28	26	24	22	20	
Lead	health	1 year	0.5		1-1-2005	0.5						
Lead ⁵⁾	health	1 year	0.5; 1.0 in 2005-2009		1-1-2010	1.5	1.4	1.3	1.2	1.1	0.5	
Benzene	health	1 year	5		1-1-2010	10	9	8	7	6	5	
CO	health	8 hours	10		1-1-2005	10						
O ₃ ⁶⁾	health	8 hours	120	25 days/yr	1-1-2010							120 (0 days allowed per yr)
O ₃ ⁷⁾	vegetation	1 hour averaged	18		1-1-2010							6

- 1) Numerical value of the limit value.
- 2) CO in mg/m³; O₃ health $\mu\text{g}/\text{m}^3$ and O₃ vegetation in mg/m³
- 3) Calendar year and winter (1 October to 31 March).
- 4) Indicative limit value.
- 5) Only valid for specific point sources, of which the Commission must be notified (according to annex IV of the first Daughter Directive); in these cases the intermediate limit value of 1.0 $\mu\text{g}/\text{m}^3$ must be met by 01/01/2005.
- 6) Target value, daily maximum of 8h running averaged concentrations
- 7) Target value, hourly averaged - growing season -
- 8) LTO = Long term objective for O₃ to be met in 2020

3.1 Numbers of zones in exceedance and comparisons of limit values

Pollutants of the First and Second Daughter Directive

Pollutants of the First and Second Daughter Directive

If measurements or model calculations show that a limit value or limit value plus margin of tolerance is exceeded somewhere in the zone, the whole zone is designated as being in exceedance of this threshold. Table 9 and Table 10 summarise the exceedance status of zones per limit value and per Member State. The full 2005 list of the exceedance status per limit value (and margin of tolerance), target value and long-term objective for ozone of each individual zone has been published separately at <http://air-climate.eionet.europa.eu/reports/#tp>. Previous overviews for 2001-2003 of these status

exceedance lists can be found at the DG Env website at:

http://ec.europa.eu/environment/air/zones_member_states.htm. Those reports include also a list of the exceedances status per limit value (and margin of tolerance) for each individual zone. Table 9 and Table 10 show per Member State the number of zones with exceedance of the limit value (plus the margin of tolerance)⁸. For SO₂, NO₂ and PM₁₀ both a short-term as well as a long-term limit value has been defined for the protection of health. For each of these pollutants the number of zones reporting for the short-term and long-term LV should be equal. As Table 9 and 10 show, this is not the case for some of the MS. It should be concluded that not for all zones information on the air quality status with respect to either the short-term or long-term limit value is given by the MS. The same conclusion is reached when comparing the number of zones in Table 1 at one hand and Table 9 and 10 at the other. Also here we see a mismatch in the numbers indicating that information is lacking. PM₁₀, O₃ and NO₂ are the pollutants with the highest exceedance rates.

Table 9¹ Summary of exceedance status of zones in EU Member States in 2005 with respect to the limit values and limit values plus margin tolerances for sulphur dioxide, nitrogen dioxide and nitrogen oxides (see legend below).

MS	SO ₂ health Hr		SO ₂ health Day		SO ₂ eco Yr		SO ₂ eco Wntr		NO ₂ Hr			NO ₂ Yr			NO _x	
	↑lv	↓lv	↑lv	↓lv	↑lv	↓lv	↑lv	↓lv	↑mot	lv-mot	↓lv	↑mot	lv-mot	↓lv	↑lv	↓lv
AT	0	11	0	11	0	8	0	8	0	1	10	6	2	3	1	7
BE	0	12	0	12	0	0	0	0	0	0	11	1	3	7	0	0
CY	0	1	0	1	0	1	0	1	0	0	1	0	0	1	0	1
CZ	0	15	0	15	1	14	4	11	1	0	14	1	2	12	3	12
DE	0	76	0	76	0	15	0	15	1	6	73	23	17	40	0	12
DK	0	3	0	3	0	3	0	3	0	0	9	1	1	7	0	5
EE	0	4	0	4	0	4	0	4	0	0	4	0	0	4	1	3
EL	0	2	0	2	0	0	0	0	1	0	1	1	0	1	0	0
ES	6	127	5	128	0	13	0	13	1	5	124	9	14	107	0	14
FI	0	14	0	14	0	1	0	1	0	0	14	0	1	13	0	1
FR	3	72	3	72	0	32	0	32	1	4	75	11	18	48	1	18
HU	0	11	0	11	0	1	0	1	1	1	9	1	3	7	0	1
IE	0	4	0	4	0	1	0	1	0	0	4	0	0	4	0	1
IT	3	95	4	94	1	42	1	39	2	13	100	43	20	53	10	15
LT	0	3	0	3	0	1	0	1	0	2	1	0	0	3	0	1
LV	0	2	0	2	0	1	0	1	0	0	2	0	0	2	0	1
MT	1	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0
NL	0	9	0	9	0	0	0	0	0	3	8	9	5	2	0	1
PL	0	219	1	361	0	314	0	0	0	0	219	2	8	352	0	314
PT	0	22	0	22	0	6	0	6	0	2	21	1	1	21	0	7
SE	0	6	0	6	0	6	0	6	0	0	6	0	2	4	0	6
SI	3	6	3	6	3	6	3	6	0	0	6	0	0	6	4	2
SK	1	9	0	9	0	3	0	3	0	0	9	0	0	9	0	3
UK	0	42	1	42	0	15	0	15	1	1	34	35	3	5	0	15
EU25	17	765	18	907	5	487	8	167	9	38	756	144	100	712	20	440

⁸ It should be noted that the total area or population of zones with exceedance is not given here because it is not a useful parameter to characterise exposure to exceedance: in many zones only a limited area, e.g. near a number of streets, may be in exceedance.

Table 10 Summary of exceedance status of zones in EU Member States in 2005 with respect to the limit values and limit values plus margin tolerances for particulate matter¹⁾, lead, benzene and carbon monoxide and the target values and long-term objectives for ozone (see legend below).

MS	PM ₁₀ Day		PM ₁₀ Yr		Lead Yr			Benzene Yr			CO Yr		Ozone Health			Ozone Vegetation		
	↓lv	↑lv	↓lv	↑lv	↑mot	lv-mot	↓lv	↑mot	lv-mot	↓lv	↑lv	↓lv	↑tv	lto-tv	↓lto	↑tv	lto-tv	↓lto
AT	11	0	1	10	0	0	11	0	0	11	0	11	11	0	0	8	0	0
BE	10	1	1	10	2	0	10	0	0	10	0	6	4	5	0	1	8	0
CY	1	0	1	0	0	0	1	0	0	1	0	1	1	0	0	1	0	0
CZ	15	0	7	8	0	0	15	0	1	14	0	15	15	0	0	14	1	0
DE	29	48	3	74	0	0	67	0	1	77	0	78	39	24	0	19	24	1
DK	2	4	1	5	0	0	2	0	0	1	0	4	0	4	0	0	1	6
EE	2	2	0	4	0	0	1	0	0	0	0	4	2	2	0	0	0	0
EL	3	1	3	1	0	0	0	0	1	0	0	3	3	0	1	3	0	1
ES	65	62	36	91	0	0	71	0	1	84	1	110	52	48	24	45	44	27
FI	1	13	0	14	0	0	14	0	0	3	0	14	0	2	0	0	2	0
FR	12	61	2	70	0	0	30	0	3	45	0	52	49	24	6	26	36	4
HU	11	0	5	6	0	0	11	0	0	11	0	11	7	4	0	1	0	0
IE	0	4	0	4	0	0	4	0	0	4	0	4	0	1	3	0	0	1
IT	70	29	38	61	0	0	36	0	6	73	1	102	69	7	9	42	3	1
LT	3	0	0	3	0	0	3	0	0	3	0	3	0	2	1	0	1	0
LV	1	1	1	1	0	0	1	0	0	2	0	1	0	1	1	0	0	1
MT	1	0	1	0	0	0	1	0	0	1	0	1	2	0	0	1	0	0
NL	9	0	8	8	0	0	3	0	0	2	0	9	0	9	0	0	6	3
PL	78	230	35	323	0	0	362	1	9	352	1	361	27	335	0	0	314	0
PT	9	14	6	17	0	0	1	0	0	13	0	16	12	8	2	3	0	2
SE	3	3	1	5	0	0	6	0	0	6	0	6	0	5	1	0	3	3
SI	5	1	2	4	0	0	3	0	0	2	0	4	5	0	1	5	0	1
SK	9	0	7	2	0	0	9	0	1	7	0	9	7	1	0	7	1	0
UK	29	14	4	39	0	0	43	0	2	41	0	42	0	37	6	0	16	27
EU25	379	488	163	760	2	0	705	1	25	763	3	867	305	519	55	176	460	78

- 1) The results for particulate matter are not fully comparable between the Member States, because some countries have reported results from non-reference measurement methods without ensuring equivalence with the results that would have been obtained with the reference method. For more details see Section 4.4.

Legend

↓lv	Concentrations are everywhere below (or equal to) the <i>limit value</i> . This indication refers to all limit values (irrespective of whether they had to be met in 2005).
↑lv	Concentrations are at one or more locations above the <i>limit value</i> . This indication refers to limit values that had to be met in 2005.
lv-mot	Concentrations are at one or more locations between the <i>limit value</i> and the <i>limit value plus the margin of tolerance</i> , but everywhere below the <i>limit value plus the margin of tolerance</i> . This indicator refers to limit values that did not yet had to be met in 2005.
↑mot	Concentrations are at one or more locations above the <i>limit value plus the margin of tolerance</i> . This indicator refers to limit values that did not yet had to be met in 2005. A plan or programme had to be prepared or implemented and sent to the Commission to ensure that this limit value will be attained in time.
↓lto	Concentrations are everywhere below (or equal to) the <i>long-term objective</i> .
lto-tv	Concentrations are at one or more locations between the <i>long-term objective</i> and the <i>target value</i> , but everywhere below the <i>target value</i> .
↑tv	Concentrations are at one or more locations above the <i>target value</i> . A plan or programme had to be prepared or implemented and sent to the Commission to attain this target value in time, save where not achievable through proportionate measures.

MS	SO ₂ hr	SO ₂ day	NO ₂ hr	NO ₂ yr	O ₃ health	PM ₁₀ day	PM ₁₀ yr	Lead	Benzene	CO
AT	0%	0%	9%	73%	58%	100%	9%	0%	0%	0%
BE	0%	0%	0%	36%	44%	91%	9%	0%	0%	0%
CY	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%
CZ	0%	0%	7%	21%	100%	100%	50%	0%	7%	0%
DE	0%	0%	9%	50%	62%	38%	4%	0%	1%	0%
DK	0%	0%	0%	22%	0%	33%	17%	0%	0%	0%
EE	0%	0%	0%	0%	50%	50%	0%	0%		0%
EL	0%	0%	50%	50%	75%	75%	75%		100%	0%
ES	5%	4%	5%	18%	42%	51%	28%	0%	1%	1%
FI	0%	0%	0%	7%	0%	7%	0%	0%	0%	0%
FR	4%	4%	7%	40%	65%	18%	3%	0%	7%	0%
HU	0%	0%	18%	36%	64%	100%	45%	0%	0%	0%
IE	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
IT	3%	4%	13%	56%	82%	74%	40%	0%	8%	1%
LT	0%	0%	67%	0%	0%	100%	0%	0%	0%	0%
LV	0%	0%	0%	0%	0%	50%	50%	0%	0%	0%
MT	100%	100%	0%	0%	100%	100%	100%	0%	0%	0%
NL	0%	0%	14%	100%	0%	100%	50%	0%	0%	0%
PL	0%	0%	0%	3%	7%	25%	10%	0%	3%	0%
PT	0%	0%	9%	9%	55%	39%	26%	0%	0%	0%
SE	0%	0%	0%	0%	88%	100%	78%	0%	13%	0%
SI	0%	0%	0%	33%	0%	50%	17%	0%	0%	0%
SK	33%	33%	0%	0%	83%	83%	33%	0%	0%	0%
UK	2%	2%	6%	88%	0%	67%	9%	0%	5%	0%
EU25	2%	2.0%	6%	25%	35%	44%	17%	0%	3%	0%

Table 11 Percentage of zones exceeding the limit value(or target value) for health (plus margin of tolerance if existing in 2005.

MS	SO ₂ yr	SO ₂ wntn	NO _x	O ₃ veg
AT	0%	0%	13%	100%
BE				11%
CY	0%	0%	0%	100%
CZ	7%	29%	14%	93%
DE	0%	0%	0%	43%
DK	0%	0%	0%	0%
EE	0%	0%	25%	
EL				75%
ES	0%	0%	0%	39%
FI	0%	0%	0%	0%
FR	0%	0%	5%	41%
HU	0%	0%		100%
IE	0%	0%	0%	0%
IT	2%	2%	42%	91%
LT	0%	0%	0%	
LV	0%	0%	0%	0%
MT				100%
NL				0%
PL	0%		0%	0%
PT			0%	60%
SE			0%	0%
SI			67%	83%
SK			0%	88%
UK			0%	0%
EU25	1.0%	4.6%	4%	25%

Table 12 Percentage of zones exceeding the limit value for vegetation (or target value) (plus margin of tolerance if existing in 2005.

The percentage of the zones in the EU exceeding the health-related limit value (plus margin of tolerance if applicable) or target value is the highest for PM₁₀ day, ozone health and NO₂ year in 2005. The following figures will show the EU wide zone exceedances maps for these pollutants (Figure 3, PM₁₀ day; Figure 7 O₃ health; Figure 6 NO₂ year).

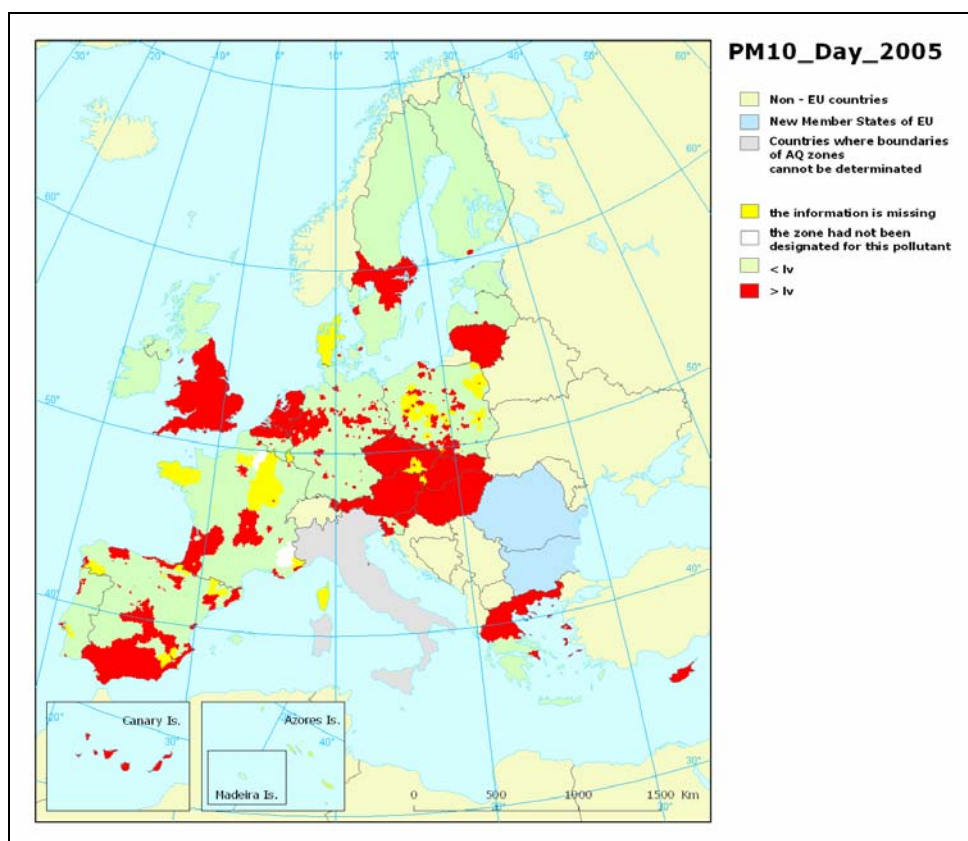


Figure 3 zone exceedances of the daily limit value PM_{10} day, 2005

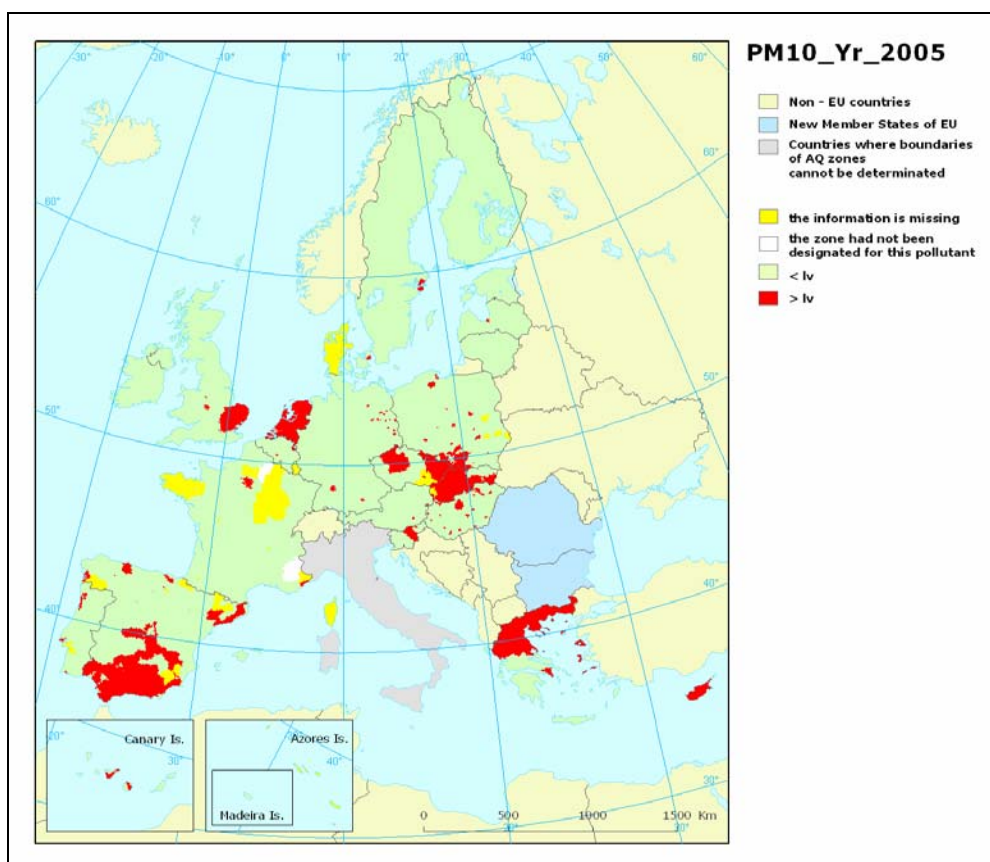


Figure 4 zone exceedances of the limit value PM_{10} year, 2005

Figures 3 and 4 show the zones in the EU25 that are in exceedance of the daily and annual limit value for PM₁₀ day and PM₁₀ year. The PM₁₀ daily limit value is the most difficult to attain, with 44% of the zones in exceedance of the limit value. 17% of the zones for the PM₁₀ yearly limit value are in exceedance. Differences between countries are probably not only due to differences in air quality but also in zone designation, assessment methodologies, station siting practices and the use of models. 2005 was the first year in which the limit values were in force for SO₂, PM₁₀, Pb and CO. For France, Italy and Spain the boundaries of the zones could not be determined. Some zones in Member States are not in compliance as data is missing where a national coverage is mandatory.

➤ *It should be noted that the number or percentage of zones in exceedance is only a crude indicator for the area in exceedance. In the first place, the exceedance area might be the entire zone area or just a few hundred square metres at a hotspot. In the second place, some Member States have made very large zones, so very few zones, for pollutants that are everywhere substantially below the air quality thresholds. Hence, the number or percentage of zones cannot be used to estimate the area in exceedance or to compare actual population exposure to air pollution between different Member States or even between regions within a Member State.*

For one Member State (Italy), the boundaries for the zones could not be determined because the GIS (Geographical Information Systems) information was not submitted. GIS data is submitted on a voluntary basis. For one or more zones in 4 member States the PM₁₀ exceedance information is missing (Denmark, Poland, Czech Republic and Luxembourg) where a national coverage is mandatory.

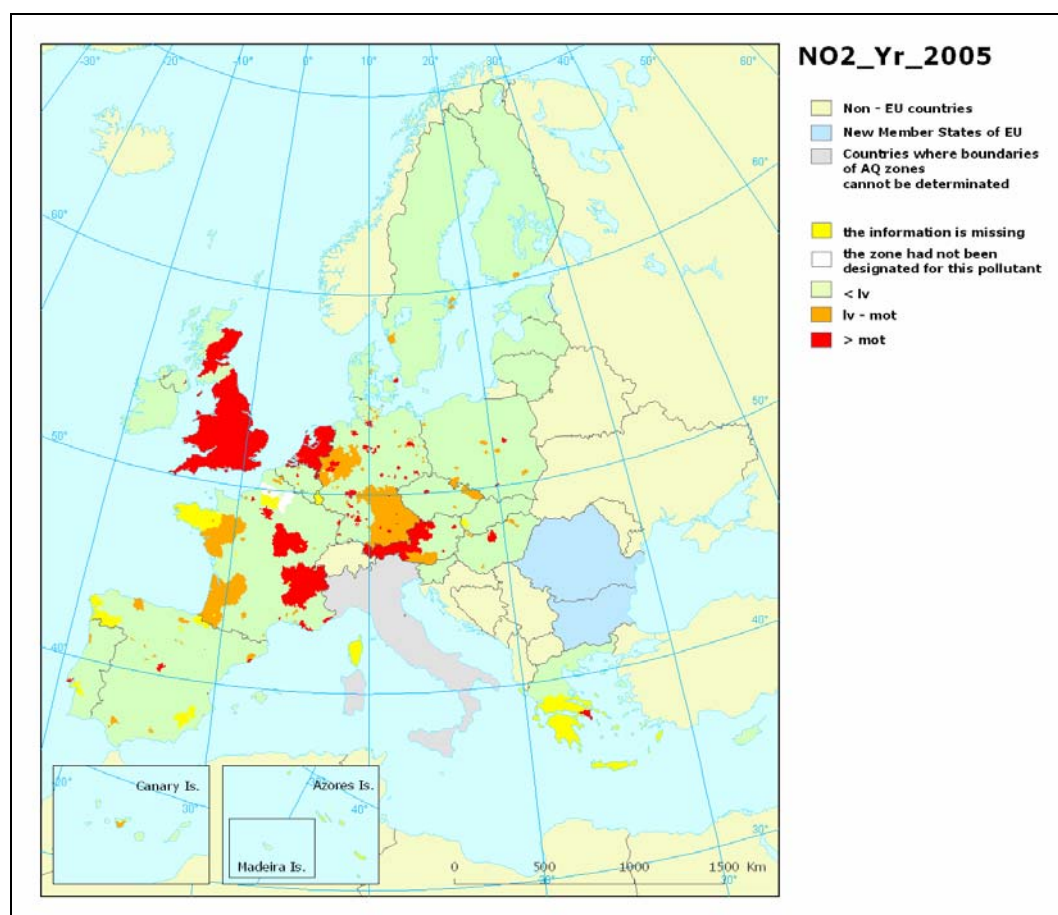


Figure 5 Zone exceedances of the annual limit value NO₂ year, 2005

More than 26% of the EU zones exceed the yearly (LV+MOT) for NO₂ and almost 6% of the zones reported above the hourly (LV+MOT) for NO₂ (Table 11, Figure 5 and Figure 6). Compared with 2004, all the percentages for PM₁₀ and NO₂ have increased slightly (see also Section 3.2).

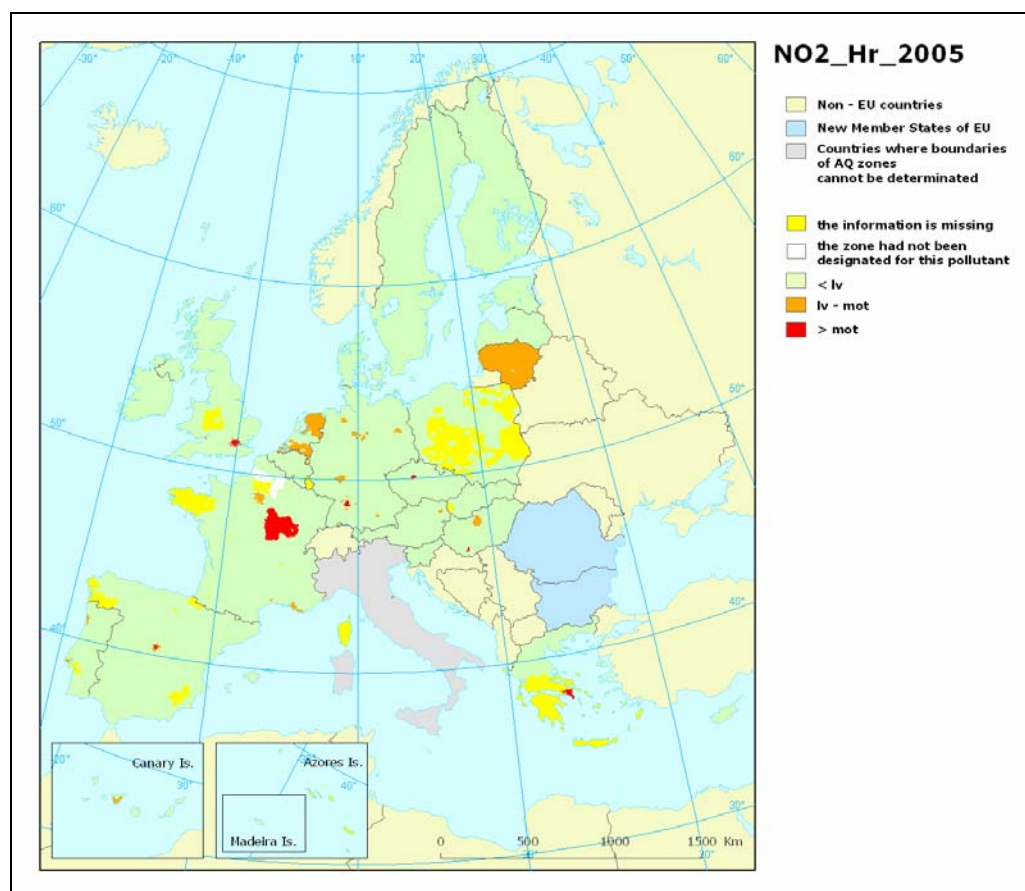


Figure 6 zone exceedances of the limit value NO₂ hour, 2005

In contrast to the above limit values, the limit values for ecosystems and vegetation had already to be met as from the entrance into force of the First Daughter Directive, i.e. 2001. In 2005 a limited number of zones exceeded these limit values: of the 460 zones for which the exceedance status for the NO_x limit value was reported⁹, 4.3% were in exceedance. Poland, reporting no exceedance in the 314 zones designated for NO_x, has a dominant influence on this percentage. For SO₂ the corresponding percentages were 1.9 % for the yearly limit value and 4.6 % for the winter limit value (Figure 8). The SO₂ percentages are roughly doubled, compared with 2004, and are mainly caused by zones the Czech Republic.

In 89 % of the zones, all levels reported were in 2005 below all limit values plus margins of tolerance of the First and Second Daughter Directive¹⁰. Stated conversely, in 11% of all zones, a plan or programme had to be developed for at least one pollutant under the First or Second Daughter Directive¹¹.

⁹ Many zones, including all agglomerations, do not have areas where the siting criteria of stations for the protection of ecosystems and vegetation apply.

¹⁰ For some of these zones the exceedance status was not reported for all relevant thresholds.

¹¹ It should also be noted here that some zones do not pertain to all pollutants.

For ozone, reports were sent for 879 zones on exceedance of health protection thresholds and for 714 zones regarding those for vegetation protection. The target value for health was exceeded in 35% of these zones and the target value for vegetation in 25%. These percentages are roughly the same as in 2004. The long-term objectives for health and vegetation was reported to be met in 10% and 11% of the zones respectively.

The map of zone exceedance for the ozone-health related target value map for the EU is shown in Figure 7.

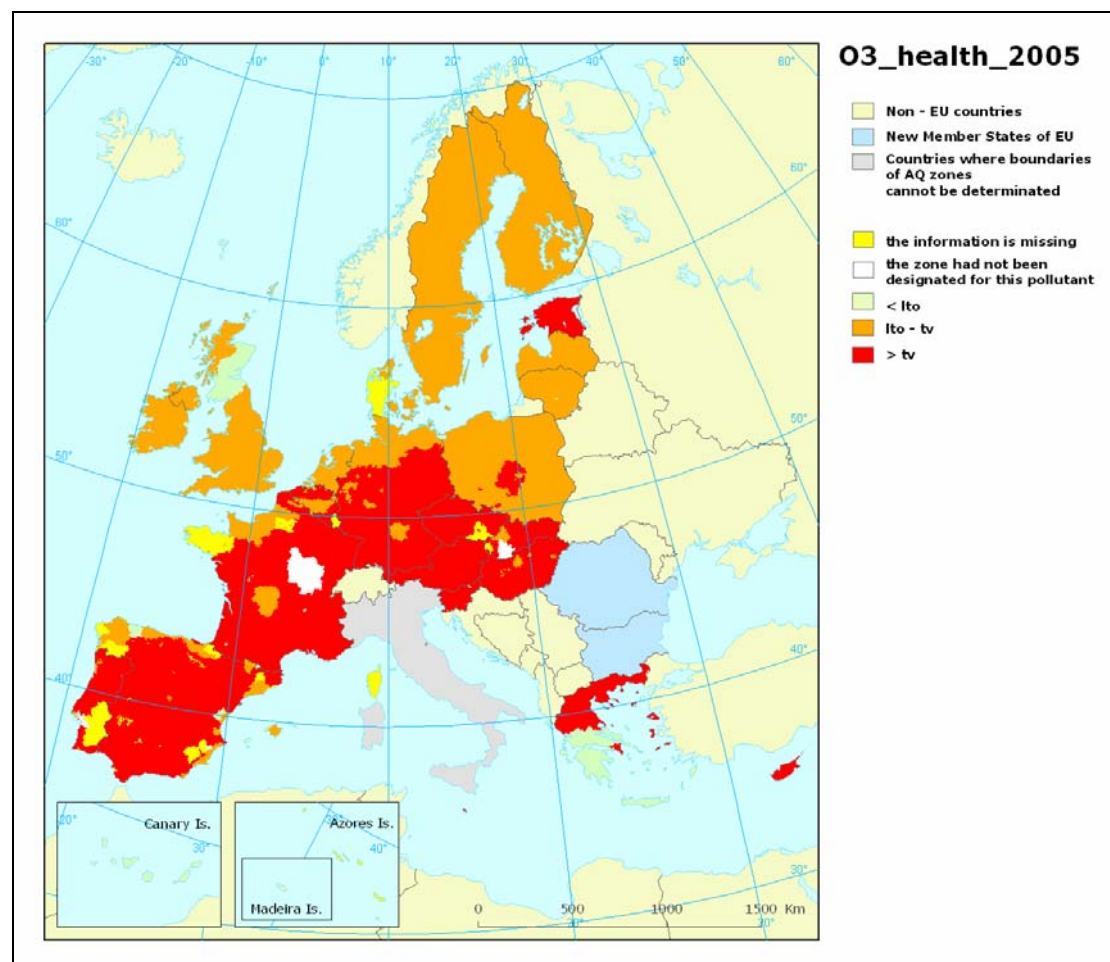


Figure 7 zone exceedances of the limit value O_3 health, 2005.

The EU wide maps for the other pollutants are presented in the Annex part of this report.

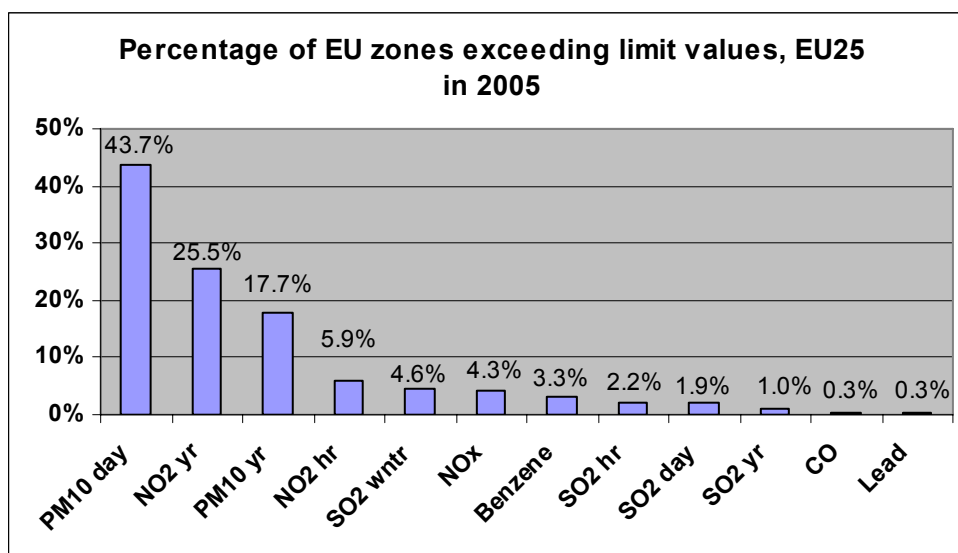


Figure 8 Percentage of zones in EU25 exceeding limit values in 2005,.

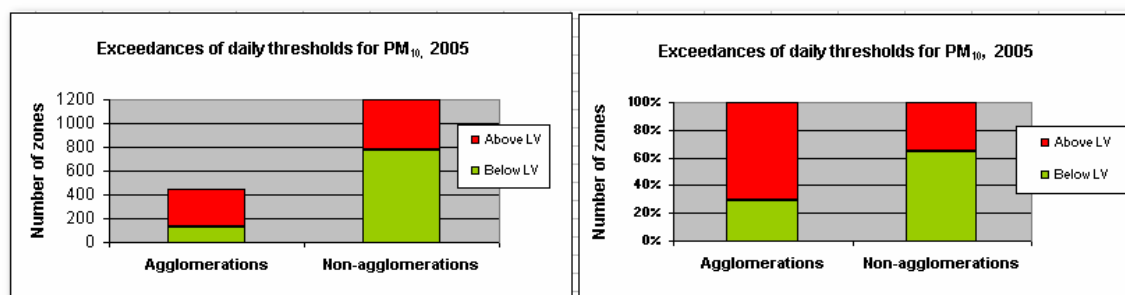


Figure 9 Comparison of exceedances (absolute and in terms of percentage) in agglomeration and non-agglomeration zones for the limit value of PM_{10} .

Figure 9 for the daily PM_{10} limit value illustrates that relatively speaking agglomeration zones are more in exceedance (> 60%) of health limit values than non-agglomeration zones (<40%). However, exceedances occur also extensively in non-agglomeration zones, indicating that PM_{10} is not only a problem for major cities. In an absolute sense, 419 non agglomeration zones report above the PM_{10} limit value out of a total of 1196 non agglomeration zones.

Similar pictures are given for ozone in Figure 10 and, in a relative sense, the limit value for ozone is slightly more frequently exceeded in agglomeration zones. In an absolute sense: there are 381 O_3 health non-agglomeration zones with exceedances against 188 agglomeration zones. Table 13 shows that exceedance of the ozone target value for health occurs relatively more in agglomeration zones (44%) than in non-agglomeration zones (30%).

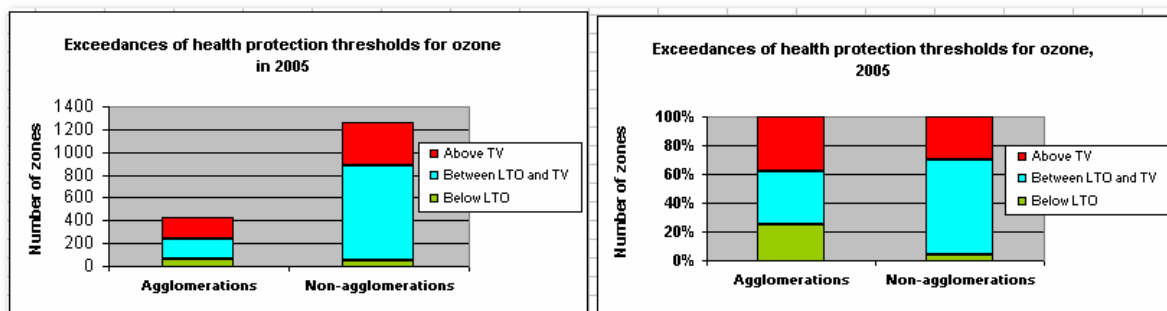


Figure 10 Comparison of exceedances in agglomeration and non-agglomeration zones for the thresholds for health protection for ozone in 2005.

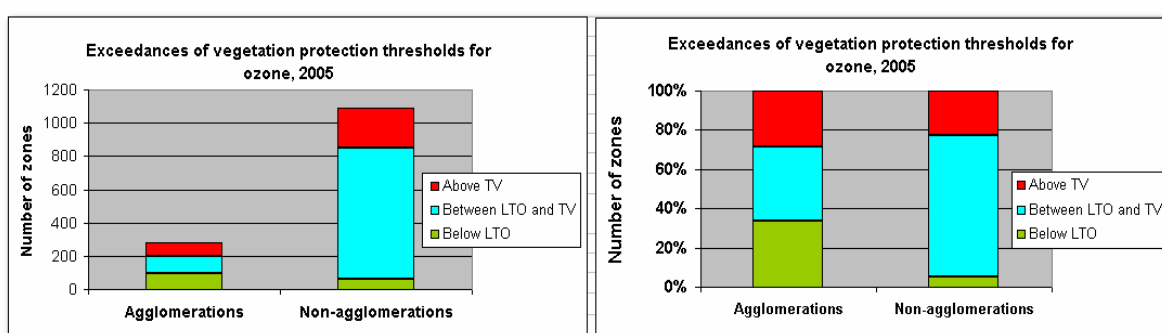


Figure 11 Comparison of exceedances (absolute and in terms of percentage) in agglomeration and non-agglomeration zones for the thresholds for vegetation protection for ozone in 2005.

Table 13 Percentage of agglomeration and non-agglomeration zones with exceedance of ozone thresholds in 2005

	Health protection			Vegetation protection		
	Agglom.	Non-agglom.	All	Agglom.	Non-agglom.	All
Above TV	44%	30%	34%	28%	22%	24%
Between LTO and TV	43%	66%	60%	38%	72%	65%
Below LTO	29%	4%	7%	34%	5%	11%
Total number of zones	432	1259	1691	281	1092	1373

Table 14 and Figure 12 show the percentage of zones per Member State for which exceedance of the information and the alert threshold for ozone was reported¹².

¹² It should be noted that the percentages depend on how the total number of zones for health protection in relation to ozone was determined. For this total, the list of zones mentioned in Form 9 (exceedance status with respect to ozone thresholds) was used. Due to inconsistencies in the reports, different and probably less reliable results (including percentages above 100%) were found when the percentage was determined using the number of zones designated for ozone health (Form 2) or the number of zones with ozone measurement stations (Form 4).

Table 14 Number of zones and percentage of zones where information threshold and the alert threshold for ozone was exceeded in 2005

MS	Information threshold	Alert threshold
AT	7 (36,8%)	1 (5,2%)
BE	9 (40,9%)	4 (18,1%)
CY	0	0
CZ	8	0
DE	48 (42,4%)	2 (1,7%)
DK	0	0
EE	1 (20%)	0
EL	1 (25%)	1 (20%)
ES	46 (31%)	3 (2%)
FI	0	0
FR	65 (43,6%)	9 (6%)
HU	3 (23%)	0
IE	0	0
IT	61 (42,6%)	15 (10,4%)
LT	0	0
LV	0	0
MT	0	0
NL	9 (47,3)	1 (5,2%)
PL	9 (83,3)	0
PT	19 (40,4)	7 (14,8%)
SE	0	0
SI	3 (60%)	0
SK	2 (18,1%)	1 (9%)
UK	5 (18,5%)	0
EU25	296 (36%)	44 (5,3%)

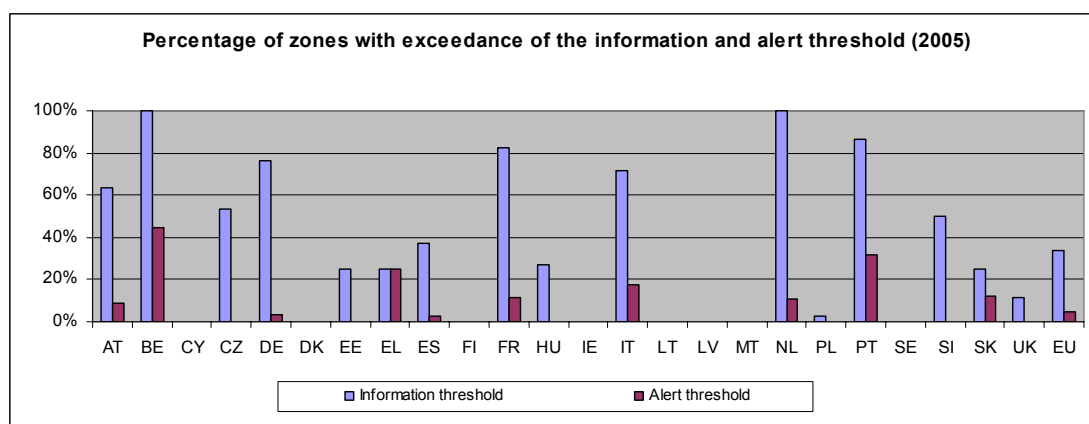


Figure 12 Number of zones and percentage of zones where the information threshold or the alert threshold for ozone was exceeded in 2005.

3.2 Comparison of zone exceedances with spatial air quality information.

The maps showing the zones in exceedance of the limit or target values (Figures 3-7) presented in the previous section may be compared with spatial information on air quality obtained from other sources. The ETC/ACC (Horalek et al., 2007) has prepared air quality maps starting with the observed concentrations as submitted under the Exchange of Information and combining these with supplementary information (e.g. results of air quality dispersion models, population maps, meteorological data) to obtain a detailed spatial distribution of air quality over Europe.

Figure 13 shows the interpolated annual mean PM₁₀ concentrations. This map was created by combining the measured PM₁₀ concentrations at rural and (sub)urban background stations taken from 'AirBase' (available from <http://air-climate.eionet.europa.eu/databases>) with supplementary data (results from the EMEP model, population data, meteorological data), see Horalek et al, (2007) for further details. For the red and purple coloured areas a concentration exceeding the limit value of 40 µg/m³ is estimated. The red area in the zone exceedance map (Figure 4) indicate exceedance of the PM₁₀ limit value over a larger area. The differences in base year (2005 in Fig 4, 2004 in Fig 13) may explain the difference to a limited extent: European-wide the PM₁₀ concentrations were in 2005 slightly higher than in 2004 (Mol et al., 2007). However, the major differences are caused by the difference in concept of both maps. Following the framework directive a zone is labelled as "in exceedance" when at least one station reports a concentration above the limit value. For pollutants like PM₁₀ or NO₂ this will frequently be a traffic- or industry-related station (see also section 3.5, Reasons of exceedance). The spatial representativeness of this type of hotspot station is generally too low to be resolved in the European maps. These maps are based on rural and (sub)urban background stations only; local hotspots are not shown. A second important difference is that the area of exceedance within a zone is not reflected in the zone exceedance map: in these maps (Fig 3-7) no distinction is made for zone where less than 1 or more than 99% of the area is in exceedance. Considering these conceptual differences in mapping, it can be concluded that there are no major discrepancies between the Figures 4 and 13.

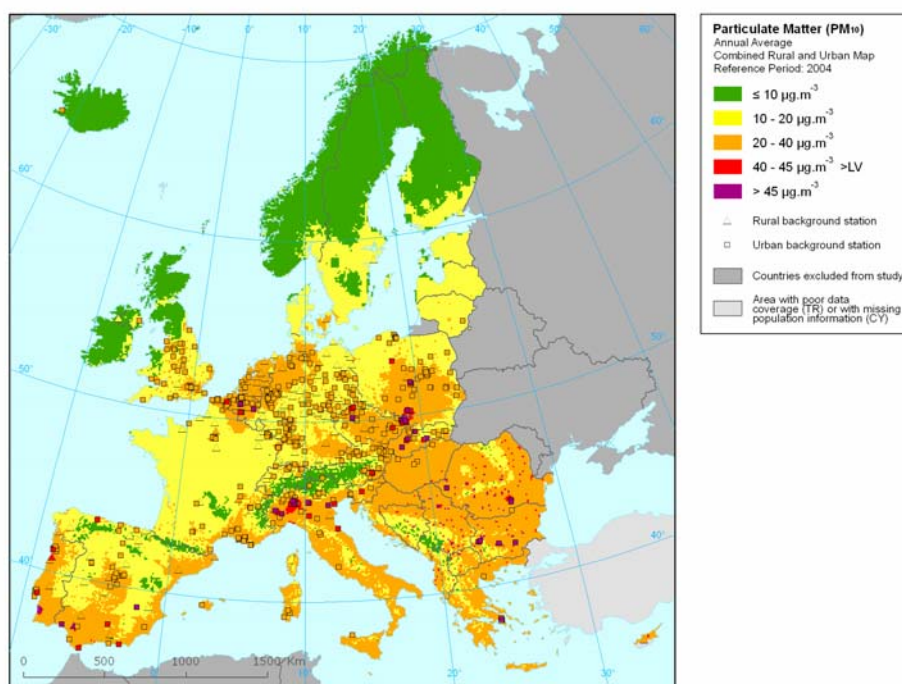


Figure 13 Annual mean PM₁₀ concentrations (µg/m³), 2004 (Source: Horalek et al., 2007).

In Figure 14, a map of the 36th maximum daily average value is presented. According to the definition of the daily limit value of PM₁₀, exceedances of a daily mean of 50 µg/m³ is accepted for 35 days per year, therefore, there is compliance with the LV as long as the 36th highest daily mean does not exceeds this 50 µg/m³. Comparing the annual and daily map (fig 3 and 4 at one hand and fig 13 and 14 at the other hand) both show that the daily limit value is more stringent than the annual limit value.

Figure 3 shows exceedance in Lithuania and middle Sweden; according to the interpolated map concentrations in these regions are well below the LV of 50 µg/m³ and even do not exceed 30 µg/m³. In Lithuania the exceedances of the PM₁₀ daily LV are observed at hotspot stations in the two agglomerations Vilnius and Kaunas but also in a number of smaller cities (Klaipeda, Mazeikiai, Siauliai, Panevezys) which are located in the zone covering the

remaining part of Lithuania. The zone Middle Sweden is in exceedance of the LV because a limited number of exceedances observed at an urban traffic station in Uppsala. These hotspots locations are not resolved in the interpolated map. A different situation may occur at southern coast of the Iberian Peninsula. The interpolated map shows relatively high concentrations here. It can not be excluded that natural events (Sahara dust) have a substantial contribution to the exceedance here. Following the first DD exceedance caused by natural events have not been included in the zone exceedance maps.

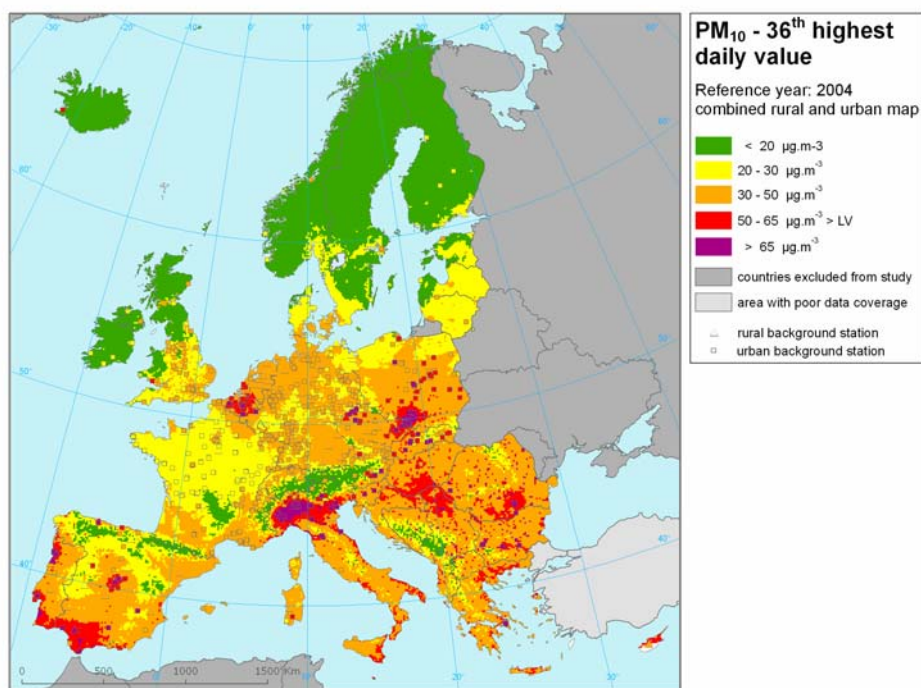


Figure 14 36th maximum daily mean concentration of PM10 ($\mu\text{g}/\text{m}^3$), 2004 (Source: Horalek et al., 2007).

The interpolated map of the 26th highest daily maximum 8-hour ozone value is given in Figure 15. The red/purple areas in this map correspond to areas where the health related target value of zone is exceeded. Comparison of this figure with the zone exceedance map given in Figure 7 shows a fair agreement, better than is the case of the PM₁₀ maps. This is not surprisingly as - in contrast to situation for PM₁₀ - in the ozone case both maps are dominated by concentrations observed background and not by the hot-spot stations. Due to the (chemical) interaction with freshly emitted NO_x, the ozone concentration at hotspot location is generally lower than in the background. Two major differences are observed: i) the exceedance in Estonia in Fig 7 is not seen in Fig 15. This might be caused by the differences in base year and ii) the reported compliance in southern Greece (Fig 7) is not observed in the interpolated map. In view of the widely observed exceedances in the whole Mediterranean area this is quite unexpected.

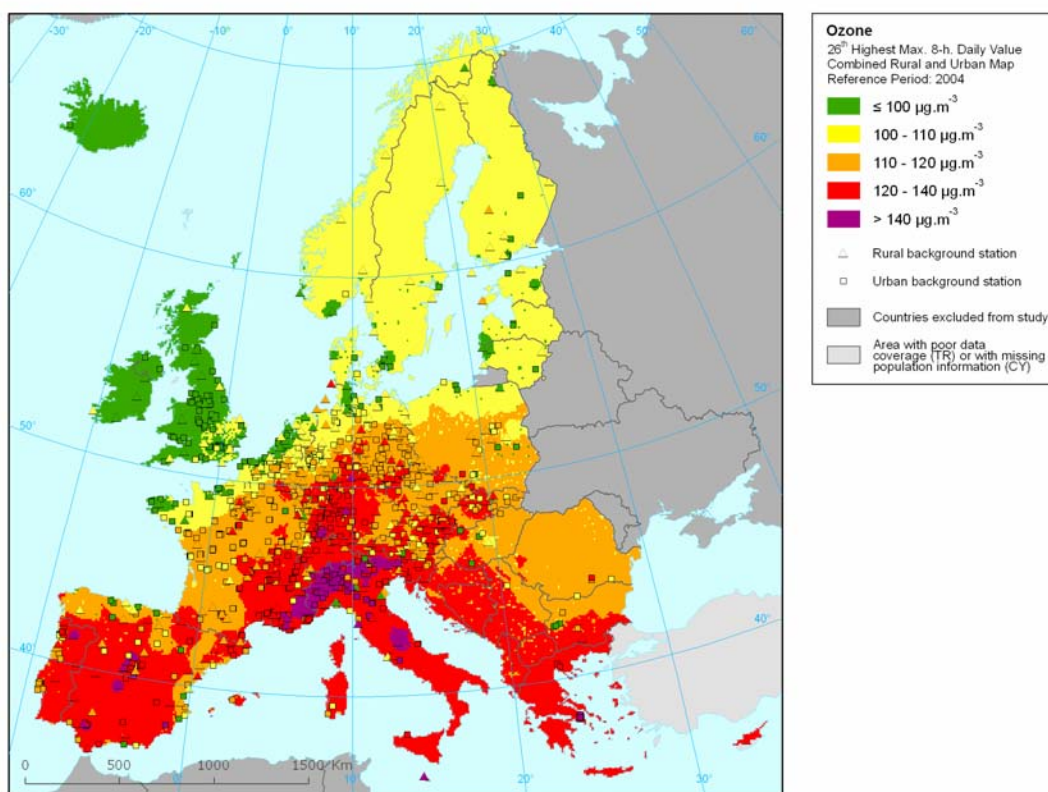


Figure 15 26th highest ozone daily maximum 8-hour value ($\mu\text{g}/\text{m}^3$), 2004 (Source: Horalek et al., 2007).

3.3 Changes in exceedances over time

Comparison for the first five reporting years regarding the percentage of zones in exceedance of the limit value plus, if existing, the margin of tolerance is given in two figures. Figure 16 gives the pollutants that have more than 10% of the zones in exceedance in 2005. This is the case for PM_{10} (50% of zones); NO_2 (26%); PM_{10} year (20%) and 11% of the NO_x zones. The trend since 2004 has been upward for all 4 pollutants with the most striking increase for PM_{10} day zones.

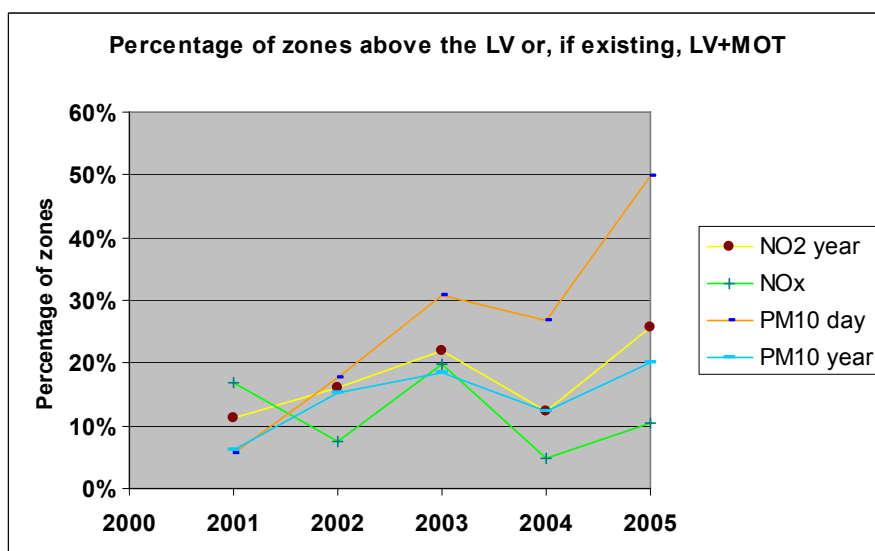


Figure 16 Trend 2001-2005 in the percentage of zones exceeding the limit values plus if existing margins of tolerance.

Nb: All data is based on the 13 Member States who supplied data for 5 consecutive year. In interpreting the trend take into account the dynamic requirements (or stepwise reduction) through time of margin of tolerance and limit values of pollutants. It should be noted that the number of Member States that reported has changed considerably in this period

Figure 17 shows the zones (limit value and, if existing, margin of tolerance) for pollutants that have less than 5 % of the zones in exceedance in 2005. This concerns the pollutants: SO₂ (both health and ecosystem related LV) and the hourly LV of NO₂. The tendency since 2001 is that zones in exceedance are stable (SO₂ hour and NO₂ hour) or declining (SO₂ day; SO₂ year and SO₂ winter). Since 2002 the percentage of zones in exceedance for these pollutants never exceeded 3%.

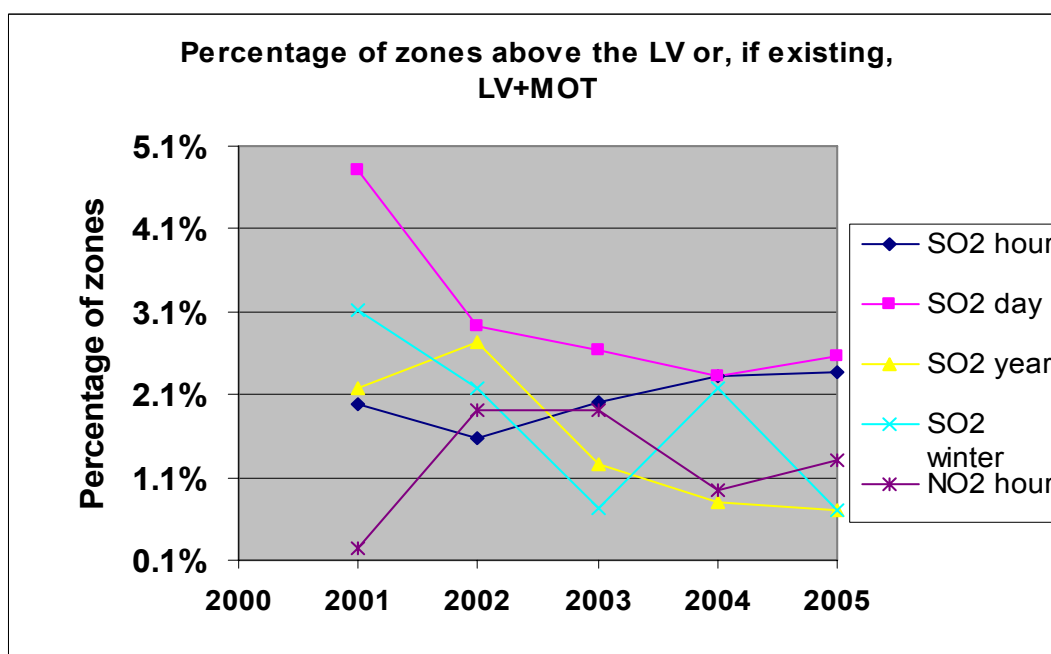


Figure 17 Trend 2001-2005 in the percentage of zones exceeding the limit values plus if existing margins of tolerance.

Nb: All data is based on the 13 Member States who supplied data for 5 consecutive year. In interpreting the trend take into account the dynamic requirements (or stepwise reduction) through time of margin of tolerance and limit values of pollutants. It should be noted that the number of Member States that reported has changed considerably in this period

Table 15 Absolute number of zones above the limit value for the pollutants that have the highest percentage of zones above limit value, which are PM₁₀ day; NO₂ year; PM₁₀ year and NO_x.

	NO ₂ year	NO _x	PM ₁₀ day	PM ₁₀ year
2001	178	16	127	55
2002	138	2	145	59
2003	155	7	179	81
2004	138	2	144	53
2005	164	2	183	66

For ozone only the last three reporting years (2003-2005) are available. Reporting started in 2003 on a voluntary basis by 13 Member States and that is the reason for comparing these Member States in the present three year trend. The conclusion is that the trend for the number of zones in exceedance for the ozone target values (health and vegetation) and for the long term objective (health and vegetation) is growing.

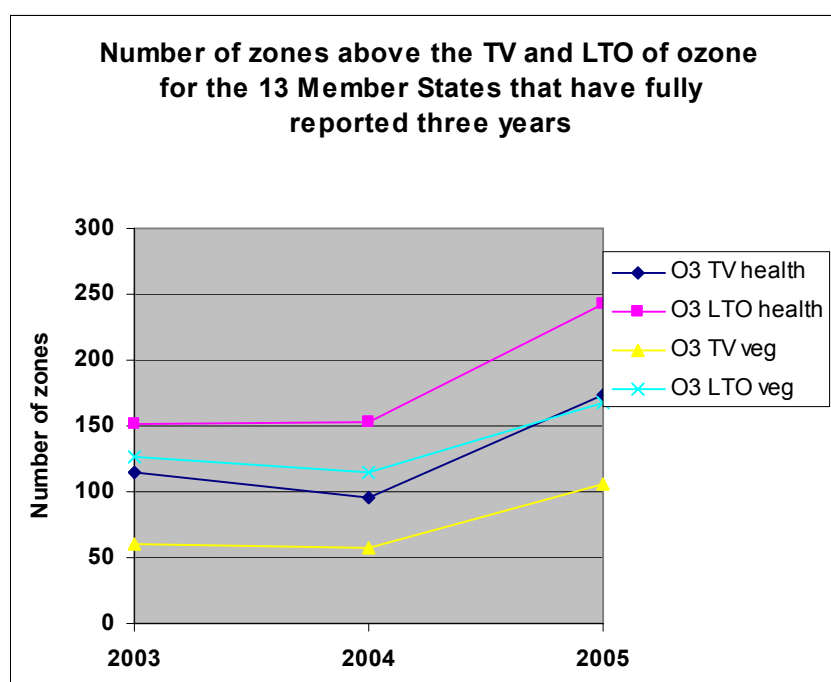


Figure 18 Change from 2003-2005 in the number of zones exceeding the TV and LTO for ozone values for the 13 Member States for which results were available for all three years.

MS	O ₃ health			O ₃ vegetation		
	↑tv	↑lto	All	↑tv	↑lto	All
AT	11	11	11	8	8	8
BE	4	9	9	1	9	9
CY	1	1	1	1	1	1
CZ	15	15	15	14	15	15
DE	39	63	63	19	43	44
DK	0	4	4	0	1	7
EE	2	4	4	0	0	0
EL	3	3	4	3	3	4
ES	52	100	124	45	89	116
FI	0	2	2	0	2	2
FR	49	73	79	26	62	66
HU	7	11	11	1	1	1
IE	0	1	4	0	0	1
IT	69	76	85	42	45	46
LT	0	2	3	0	0	0
LV	0	1	2	0	0	1
MT	2	2	2	1	1	1
NL	0	9	9	0	6	9
PL	27	362	362	0	314	314
PT	12	20	22	3	3	5
SE	0	5	6	0	3	6
SI	5	5	6	5	5	6
SK	7	8	8	7	8	8
UK	0	37	43	0	16	43
EU15	240	414	466	148	291	367
EU25	305	824	879	176	635	713

Table 16 Number of zones per Member State above the TV and LTO of ozone, 2005

3.4 Station classes where exceedances occurred

Member States have to report the classification of the monitoring stations, i.e. the types of area around the station (urban, suburban, rural) and the station types in relation to dominant emission sources (traffic, industrial, background) under the Exchange of Information Decision. Although the classification of stations has shortcomings (see also Section 4.3), it can be used to obtain a picture of the causes of exceedance, in addition to the reports on the reasons of exceedance (see 3.5). Figure 19 and Figure 20 show at which station classes exceedances of the limit value plus, if existing, margin of tolerance occurred. The SO₂ exceedances were found at various station types and area types. NO₂ exceedances occurred mainly at traffic sites in urban areas; the NO_x threshold for vegetation was more exceeded at background stations compared with the health thresholds, but most exceedances were at traffic stations or stations in urban areas, which should not be used for checking compliance with the limit value for vegetation. For PM₁₀, exceedances were mainly found at traffic and background sites in predominantly urban areas.

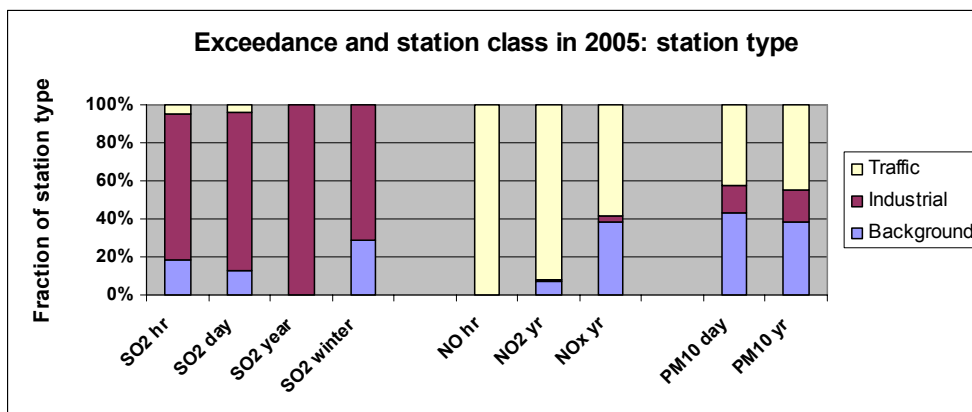


Figure 19 Station types where exceedances of the limit values plus, if existing, margins of tolerance were measured (2005).

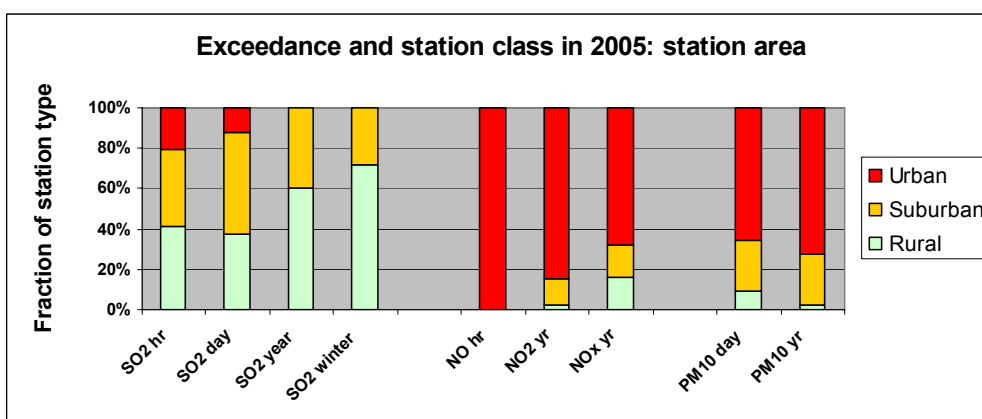


Figure 20 Area classes of the stations at which exceedances of the limit values plus, if existing, margins of tolerances were measured (2005).

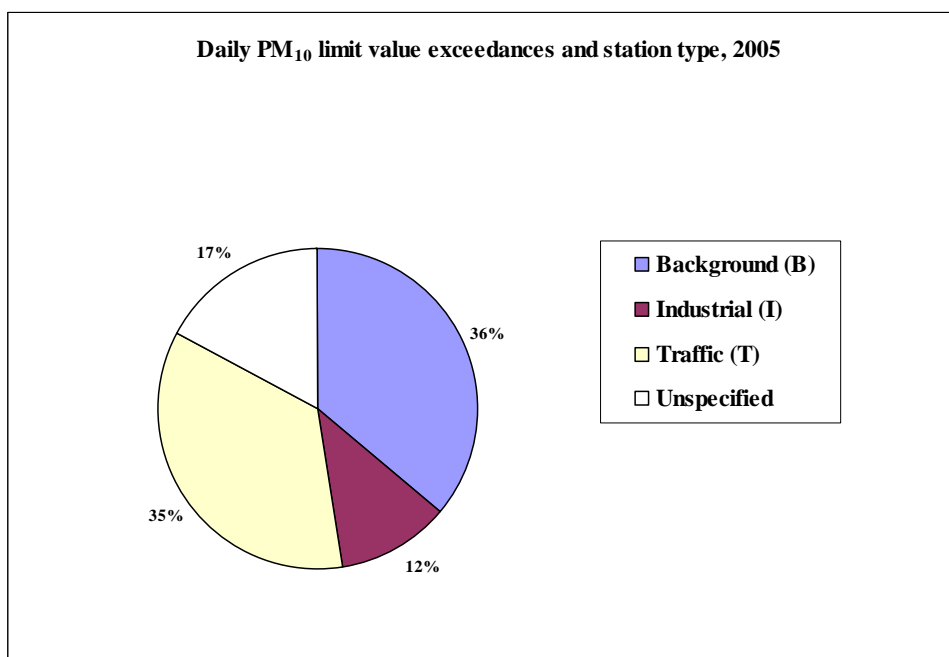


Figure 21 Station types where exceedances of the limit values for PM₁₀ were measured in 2005.

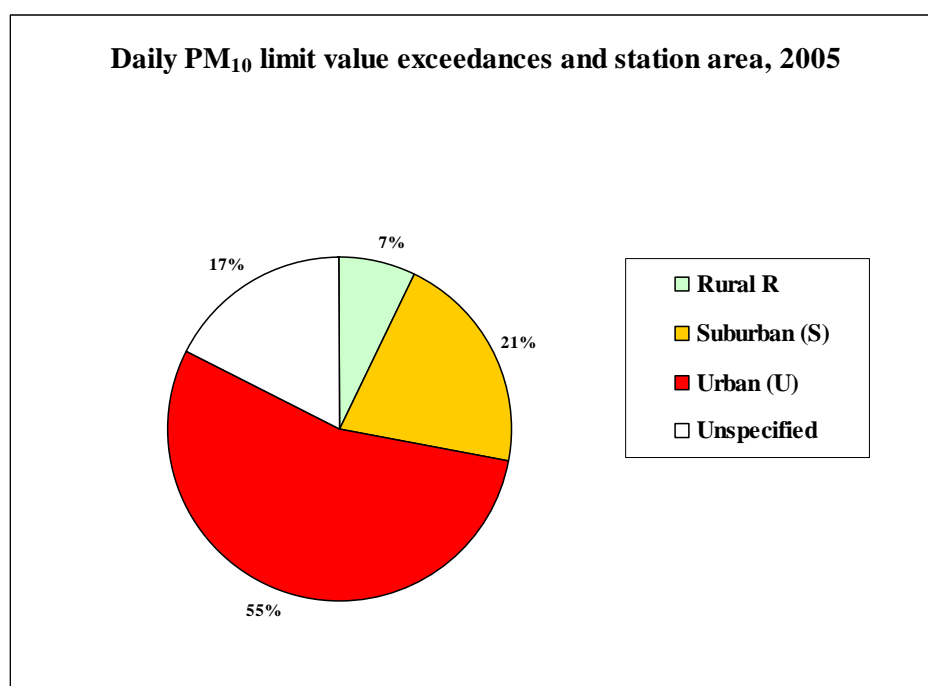


Figure 22 Area classes of the stations at which exceedances of the limit values for PM₁₀ were measured in 2005.

From Figure 21 and Figure 22 can be concluded that the PM₁₀ exceedances of the limit value were measured primarily at Traffic and Background (72 %) stations mainly in urban and suburban areas (76 %) which partly reflects the ratios in station classification.

3.5 Reasons of exceedance

Figure 23 gives an overview of the reasons of exceedance that Member States reported for each measured exceedance of the limit value plus, if existing, the margin of tolerance. The very few exceedances for benzene and CO have not been included in the figure. It should be noted that the reasons of exceedance were not always filled in. Typically for 80-100% of the exceedances of a limit value reasons were reported. Because often several reasons were given for an exceedance, the total number of reasons given tends to be substantially larger than the number of exceedances (up to a factor of two).

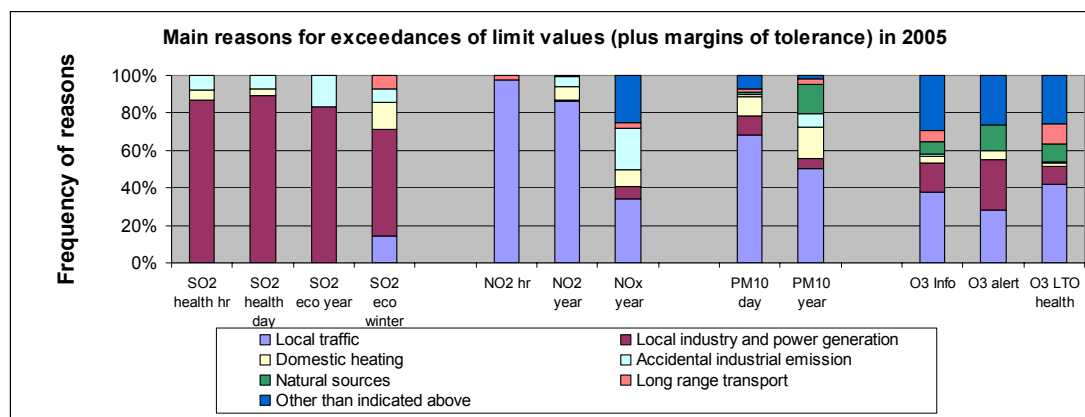


Figure 23 Frequency with which a reason for exceedance of a limit value (plus margin of tolerance) was indicated (2005). The detailed set of reasons reported by the Member States have been grouped here into seven reasons.

The profiles differ per pollutant. For SO₂ the vast majority of the exceedances is due to local industry and power generation. The few other cases are attributed to “Domestic heating”, “local traffic”, “accidental industrial emissions” and “Long range transport” (the latter was mostly indicated in case of exceedances of the SO₂ limit value for the winter period - 7.1%). For NO₂ (> 80 %) and also NO_x, (14 %) local traffic is the major cause of exceedances although for NO_x all 7 reasons are mentioned, except “Natural sources”.

For PM₁₀, local traffic (PM₁₀ day – 51.6%) was indicated to be an important reason for exceedance, though less dominant than for NO₂. A substantial number of exceedances were not related to local traffic. Of these, “local industry and power generation”, “domestic heating” and, for the annual mean, “natural sources” were of importance. Interestingly, only few exceedances were (partially or entirely) ascribed to long range transport of air pollution, in spite of the fact that in many parts of Europe the large scale background is substantial.

For all limit value exceedances together, reasons pertaining to local sources comprised over 80% of all reasons mentioned; this suggests that very many exceedances can, at least partly, be addressed by local measures.

Member States also reported the reasons for exceedance of the information and alert threshold and the long term objective for the protection of health of ozone. Those reasons are summarised in figure 21. In many cases (over two-third of all exceedances) the reason was not filled in. Of the reasons reported, local traffic has the largest share overall, except for the alert threshold where the main reason is ‘Local industry and power generation’. This is at first sight remarkable, because often nearby traffic generally tends to decrease the ozone peaks. However, in most cases local traffic was mentioned as one of several reasons for exceedance.

The reasons in the fairly large group ‘Other than indicated above’ were mainly ‘Unfavourable meteorological conditions’ and ‘Local urban sources’.

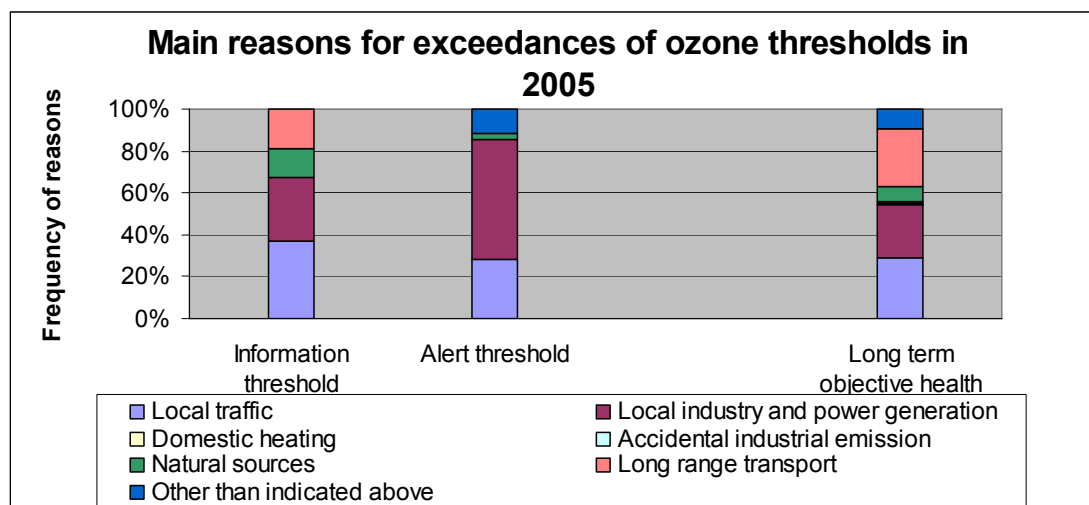


Figure 24 Frequency with which a reason for exceedance was indicated for an ozone threshold (2005)..

3.6 Multi exceedance zones of health related pollutants

Table 17 shows the exceedances of zones for the individual health related pollutants in the EU25. Lead pollution is not shown as the only two (Belgium) zones in exceedance were caused by so-called SS (Specific Source) areas. Judged from the data it is clear that the most significant health related air quality problems are caused by PM₁₀, O₃, and NO₂ exceedances.

	Benzene	CO	NO ₂	O ₃ health	PM ₁₀	SO ₂	Total
EU25	1	3	144	304	379	20	851

Table 17 Number of zones with exceedances for individual health related pollutants, 2005

Nb: The maximum number of health exceedances per zone could theoretical be 6, namely SO₂, PM₁₀, O₃ health, NO₂, Benzene, CO.

Frequently a zone is designated for one or more pollutants, If in a zone an exceedance is observed, these exceedances relate frequently to two or more pollutants simultaneously. Multi-pollutant exceedances differentiated by zone classification type shows a trend that multi-pollutant exceedances occur more in agglomerations.. In the EU25 there are 557 zones that have at least one pollutant that is above the limit value and/or margin of tolerance. Of this total 64.2 % is of the non-agglomeration type and 35.7% of the agglomeration type.

		1 Poll.	2 Poll.	3 Poll.	4 Poll.	Total
EU25	Agglo	79	77	42	1	199
	Non-agglo	239	108	11		358
	Total	318	185	53	1	557

Table 18 Number of zones with multi-pollutant exceedances , 2005

Nb: The maximum number of health exceedances per zone could theoretical be 6, namely SO₂, PM₁₀, O₃ Health, NO₂, Benzene, CO.

Multi pollutant exceedances (at least 2 pollutants in exceedance in the same zone) occurred in 239 zones throughout the European Union. Roughly speaking more than one fifth (22%) of all the zones in the EU25 (1064) have multi pollutant exceedances. Table 19 shows the number of people that live in zones that are affected by multi-pollutant exceedances. In the EU25 as a whole 356 million people live in zones where at least one air quality health pollutant is in exceedance of which 207 million (or 58%) live in non-agglomerations and 149 million (42%) in agglomerations.

		1 Poll.	2 Poll.	3 Poll.	4 Poll.
EU25	Agglo	33 627 141	61 239 918	53 062 558	1 087 888
	Non-agglo	101 018 611	98 835 836	7 150 789	
	Total	134 645 752	160 075 754	60 213 347	1 087 888

Table 19 Population in zones with multi-pollutant exceedances , 2005

Nb: The maximum number of health exceedances per zone could theoretical be 6, namely SO₂, PM₁₀, O₃ Health, NO₂, Benzene, CO.

Figure 22 and figure 23 show the multi pollutant exceedances differentiated by zone classification type. On the one hand the absolute number of zones per number of pollutant exceedances, on the other hand the portion of classification type per number of pollutants group.

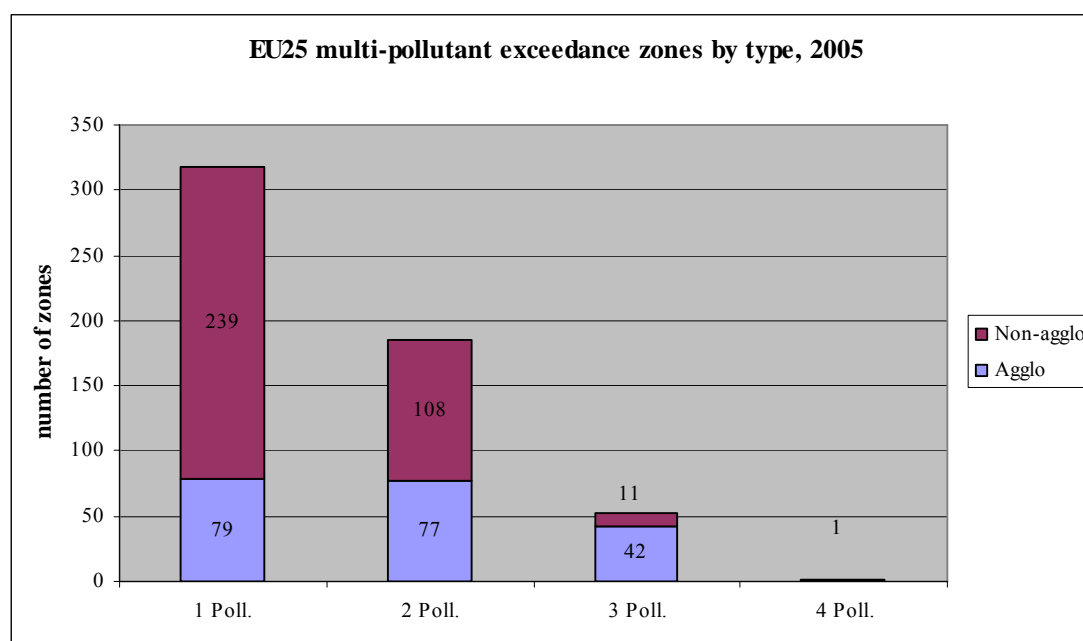


Figure 25 number of multi pollutant exceedance zones by zone classification 2005

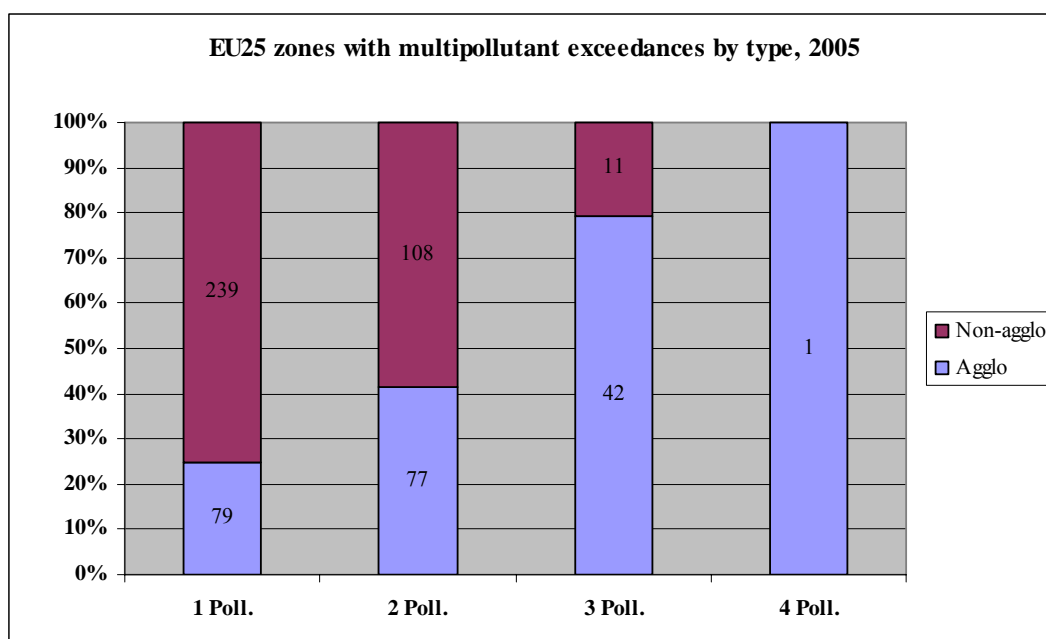


Figure 26 Distribution of multi pollutant exceedance zones by zone classification 2005

Finally Table 20 shows the multi exceedances per Member State and the corresponding number of zones where the exceedances occur.

MS	2 Poll.	3 Poll.	4 Poll.	5 Poll.	6 Poll.	Total
AT	11	1	2			14
BE	4	1				5
CY			1			1
CZ		6	4	3	1	14
DE	29	8	3	1		41
DK		1				1
EL			2		1	3
ES	39	19	9	3	1	71
FR	18	6	5	1		30
HU	2	5	1			8
IT	29	22	19	9	2	81
LV	1					1
MT	1			1		2
NL	1	8				9
PL	34	6	1			41
PT	7	3				10
SE	1					1
SI	1	2	5	1		9
SK	2	2	5			9
UK	25	2	1	1		29
EU25	205	92	58	20	5	380

Table 20 Multi exceedances¹ per Member State and number of zones, 2005

¹ The maximum number of health exceedances per zone could theoretical be 14, namely SO₂ hr/day, SO₂ eco yr/wintermean, PM₁₀ day/yr, O₃ Health/vegetation, NO₂ hr/yr, NO_x yr, Lead, Benzene, CO.

4. Measurements and calculations of the air quality

Depending on the level of air quality, Member States can use measurement stations, mathematical models and other methods for the assessment of their air quality. As required by the air quality legislation the monitoring networks are the backbone of the assessment system.

4.1 Stations used for the assessment of air quality

The information on the type and surroundings of the stations described below was not reported in the AQ questionnaire, but under the EoI Decision. To retrieve this, the “EoI station code” was needed to link the station data in the two reports. However, this code was lacking for a substantial number of stations reported under the first two daughter directives; in spite of a substantial effort the link could not be made for a 406 stations (7.8%), and hence information on the station type or the surroundings was not available for these stations.

Figure 27 shows that the number of stations is very different per pollutant. This is obviously related to the station density requirements, which reflect the likelihood of exceedance of limit values and ozone thresholds. On top of this, there also seems to be a historic lag, causing ‘old’ pollutants (SO₂, NO₂/NO_x) to be measured more extensively than the newer ones (PM₁₀ and benzene). This is particularly true for PM_{2.5}. See also 4.4, discussing the compliance with the station density requirements.

Many stations are used for more than one pollutant, *e.g.* about half (46.7% or 1914 stations) the stations measure both NO₂ and PM₁₀; at five stations, all the pollutants of the first three daughter directives are measured together.

MS	SO ₂	NO ₂	NO _x	Lead ¹	PM ₁₀	PM _{2.5}	Benzene	CO	O ₃	NO ₂ (3rd DD)	NO _x (3rd DD)	All Stations DD1+2+3
AT	65	91	7	10	67	4	14	24	114	87	87	169
BE	68	66		30 (10)	49	11	33	19	39	36		196
CY	2	2	2	2	2	1	1	1	2	2	2	2
CZ	116	120	23	25	141	27	26	32	61	55	55	157
DE	191	328	16	98	317	25	130	146	282	263	188	452
DK	3	12	12	12	11	2	1	6	8	8	8	13
EE	7	7	7	1	4			7	7	7	7	7
EL	9	19			10	2	1	10	21	16	16	28
ES	372	386	58	60	328	64	60	184	327	299	238	500
FI	1	16			25	4		2	15	9	9	41
FR	372	516	146	33	365	64	149	103	460	313	160	780
HU	24	24			21	3	12	21	17	16	16	24
IE	11	10	6	10	14	1	5	5	8	4	4	24
IT	331	481	100	34	286	28	126	327	213	202	143	599
LT	11	12	9	7	12		4	7	11	11	8	15
LV	6	6		3	2		4	1	5	5		8
MT	2	2	2	1	2		1	2	3	2	2	3
NL	31	39	39	3	34		3	17	37	35	35	51
PL	754	814	102	103	420	6	189	82	51			1030
PT	30	44	7	1	36	11	7	25	31	31	3	53
SE	22	37	5		29	7	18	3	14	9	2	48
SI	20	9	9	2	11	3	2	4	11	8	8	23
SK	32	28	33	26	32	3	15	12	23	13	13	40
UK	76	111	9	28	71	4	45	79	88	80	80	195
					0							
EU25	2556	3180	592	489	2289	270	846	1119	1848	1511	1084	4409

Table 21 Number of stations per pollutant per Member State in 2005.

- 1) For lead the number of stations in the immediate vicinity of a special source as referred to in Annex IV or the First Daughter Directive is given in brackets.
- 2) Poland reported stations used under the Third Daughter Directive, but did not indicated it to be used for any pollutant; it is assumed here that they were used for ozone.

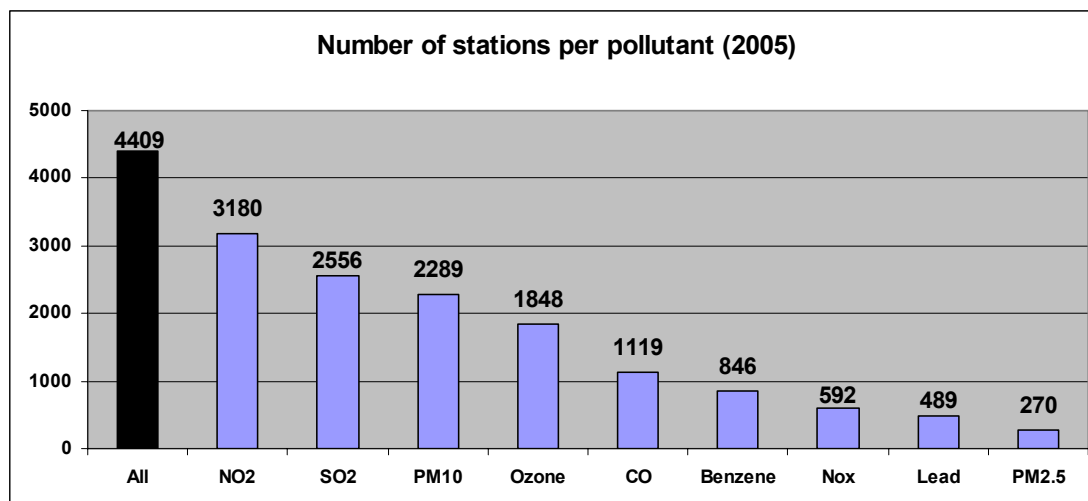


Figure 27 Total number of stations per pollutant in the EU in 2005.

Multi-pollutant stations

Table 22 gives the percentages of stations that measure pairs of pollutants as reported under Daughter Directives. The percentages are given as percentage of the total of each pollutant. For example, at 100% of the stations that measure PM_{2.5} also PM₁₀ is measured. The lowest correlations exist between the pairs of pollutants, NO_x, lead, benzene and CO. The highest where SO₂, NO₂, PM₁₀ and O₃ are involved.

SO ₂	SO ₂									
NO ₂	71%	NO ₂								
NO _x	72%	92%	NO _x							
Lead	51%	61%	18%	Lead						
Benzene	56%	78%	14%	19%	Benzene					
CO	69%	97%	18%	16%	32%	CO				
PM ₁₀	66%	84%	16%	17%	22%	37%	PM ₁₀			
PM _{2.5}	67%	87%	24%	20%	32%	43%	100%	PM _{2.5}		
O ₃	69%	92%	23%	13%	18%	36%	70%	11%	O ₃	

Table 22 Total number of stations per pollutant in the EU in 2005.

Before the air quality daughter directives came into force, Member States had different approaches in siting their stations. Since then, some convergence has taken place, but differences have remained. Figure 28 illustrates this for the ratio of (sub)urban background and traffic stations, which varies strongly. In Poland and Latvia more than 80% of the stations is classified as urban background stations whereas in Lithuania (75%) , Finland (71%) and Spain (67%) the traffic classified stations cover more than two thirds of all national stations. The proposal for the new air quality directive reduces this to a variation between 2:1 and 1:2.

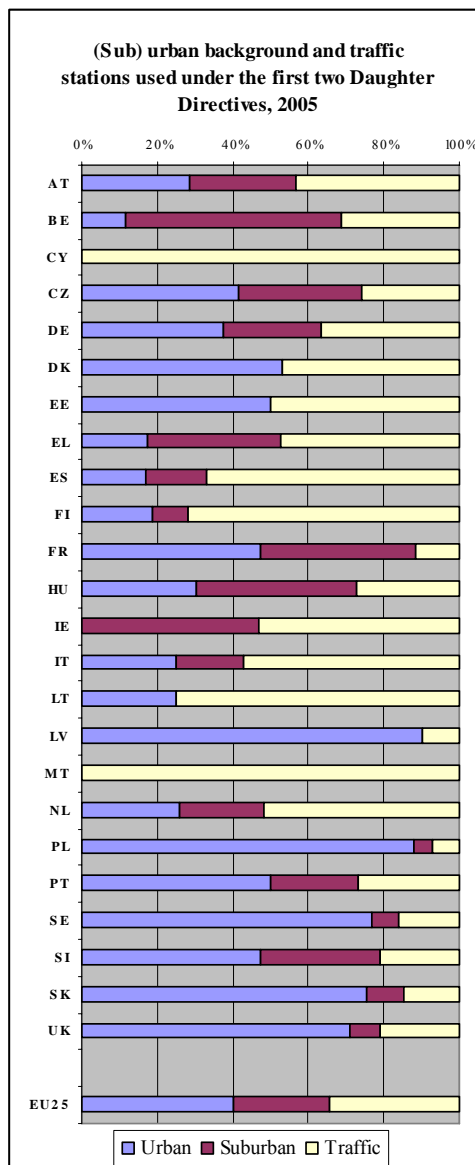


Figure 28 Ratio of (sub)urban background stations and traffic stations per Member States in 2005

4.2 Purposes of stations

All stations should be used for the assessment of the air quality in relation to the limit values for health protection, but for the assessment in relation to the limit values for ecosystems (SO_2) and vegetation (NO_x), only stations should be used at sufficient distance from sources and representative of an area of at least 1000 km^2 . As this excludes urban, industrial and traffic stations, the number is substantially lower: 5.3 % is used for ecosystem protection (SO_2) and also 5.1 % for vegetation (NO_x). The function of the stations was only filled in for 61,9 % of the total EU25 stations. Germany, Poland and Slovenia didn't supply station function data (see Table 23). It also seems that several Member States that did fill it in were not very careful, because the total number of stations in the EU designated for checking compliance with the limit value of NO_x (clearly only to be used for vegetation protection)

doesn't match the number of stations designated elsewhere in the AQ questionnaire form for vegetation protection.

MS	Health	Ecosystems (SO ₂)	Vegetation (NO _x)
AT	97	5	7
BE	159	0	0
CY	2	1	1
CZ	153	39	23
DE	n.a	n.a	n.a
DK	9	1	1
EE	7	4	4
EL	28	0	0
ES	450	23	24
FI	28	0	0
FR	548	22	25
HU	24	1	0
IE	20	3	5
IT	591	25	32
LT	15	3	3
LV	8	2	2
MT	2	0	0
NL	51	1	1
PL	n.a	n.a	n.a
PT	46	5	7
SE	27	0	0
SI	n.a	n.a	n.a
SK	27	5	0
UK	188	9	9
EU25	2480	149	144

Table 23 Number of stations per Member State in relation to the protection targets, 2005

4.3 Ozone stations

Member States were required to submit information on stations types used under the Third Daughter Directive relating to target values for ozone¹³. Table 24 and Figure 29 give an overview of numbers and station types per Member State. 45.3% of the stations have the typology urban and 26.5% suburban. On an individual Member State basis there are striking differences. Lithuania (73%), Latvia (80%) and Denmark (100%) have primarily urban stations (of the stations labelled with a station type) whereas in The Netherlands (54%) and Sweden (57%) the rural station type is dominant.

¹³ The Third Daughter Directive defines station types for ozone that slightly deviate from the classification under the Exchange of Information Decision. Hence Member States report these in the AQ questionnaire. In the current report, an overview of stations is only given for ozone, because for the other pollutants overviews of the stations are regularly reported under the Exchange of Information Decision.

MS	Urban	Suburban	Rural	Rural background	Other	Not indicated	Total
AT	17	42	39	16	0	0	114
BE	13	12	10	0	4	0	39
CY	1	0	0	1	0	0	2
CZ	26	11	0	24	0	0	61
DE	113	93	33	43	0	0	282
DK	6	0	0	0	0	0	8
EE	4	0	3	0	0	0	7
EL	11	9	1	0	0	0	21
ES	166	89	19	53	0	0	327
FI	2	2	5	6	0	0	15
FR	241	140	61	0	22	0	464
HU	11	4	0	2	0	0	17
IE	1	1	0	0	0	0	8
IT	107	66	25	6	2	5	216
LT	8	0	0	3	0	0	11
LV	4	0	0	1	0	0	5
MT	0	1	0	0	2	0	3
NL	14	4	21	0	0	0	39
PL	12	3	0	12	0	52	79
PT	14	9	0	0	0	0	31
SE	6	0	8	0	0	0	14
SI	5	3	1	2	0	0	11
SK	12	3	3	5	0	0	23
UK	60	8	15	5	0	0	88
EU25	854	500	244	179	30	57	1885

Table 24 Number of ozone measuring stations per Member State per station type in 2004.

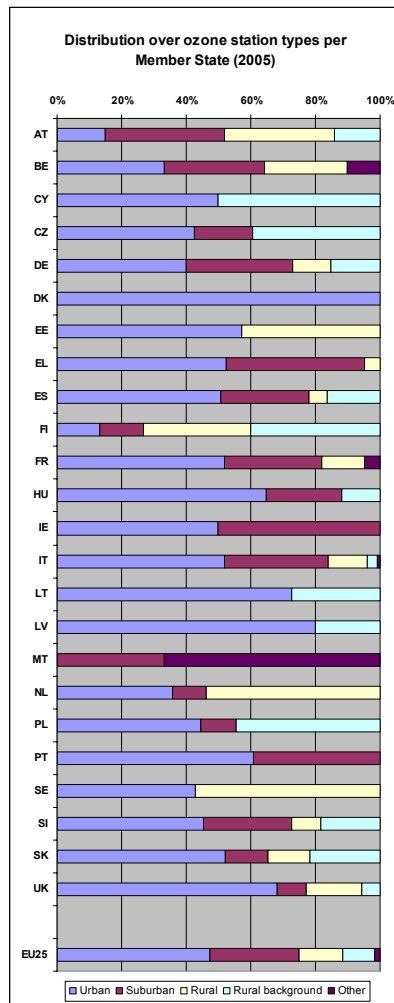


Figure 29 Comparison of the way Member States have distributed their ozone stations over different types of locations in 2005.

Nb: Stations for which the type was not reported have not been included.

In contrast to the first two daughter directives, the third one requires Member States to report the station type (See Table 25). As the station type is also reported under the EoI Decision (with a slightly different typology), a consistency check could be made. This revealed that there are serious problems with the classification of the stations. Harmonisation of the classification systems would bring obvious advantages. The classification of 71% (which is up from 66% in 2004) of the stations was reported in a consistent way. For the other stations, either the station types in the EoI report and the AQ questionnaire were conflicting (16%), or the station type was incompletely reported (14%). See the Annex (part two) of this report for a more detailed insight in a 2004-2005 comparison of the station classification.

	Number of stations 2005	% of stations 2005
Classifications are consistent	1309	71%
Classifications are inconsistent	289	16%
Classification insufficiently reported	252	14%

Table 25 Comparison of station classification reported under the Third Daughter Directive with the classification reported under the EoI Decision for 2005.

4.4 Measurement methods for particulate matter

Several measurement methods are in use for PM₁₀ and PM_{2.5}. The First Daughter Directive specifies the gravimetric method (collection on a filter and gravimetric mass determination) as the reference method and it allows other methods to be used, provided that equivalence with the reference method can be demonstrated. To achieve this equivalence, Member States may apply a correction factor (or correction equation). Figure... shows that, in terms of the number of monitoring sites, for PM₁₀ the beta-absorption method is more common (49%) than the oscillating microbalance method (TEOM – 29%) in 2005, while in the newer and much smaller PM_{2.5} network oscillating microbalance method (37%) is used at more sites than beta-absorption (27%). Gravimetry, the reference method, has a slightly larger share (6% more) for PM_{2.5} than for PM₁₀. In a few cases a less commonly used method (TSP-measurement with correction, optical techniques) was used.

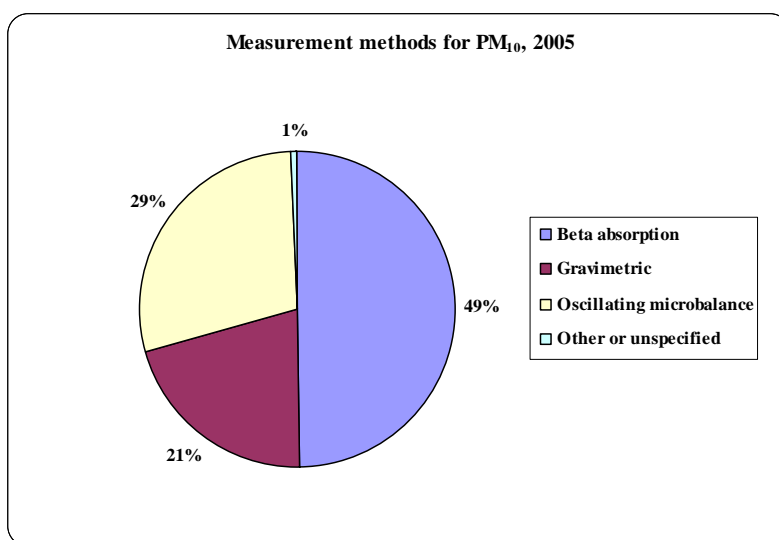


Figure 30 Measurement methods for PM10 (at 2321 sites) in 2005.

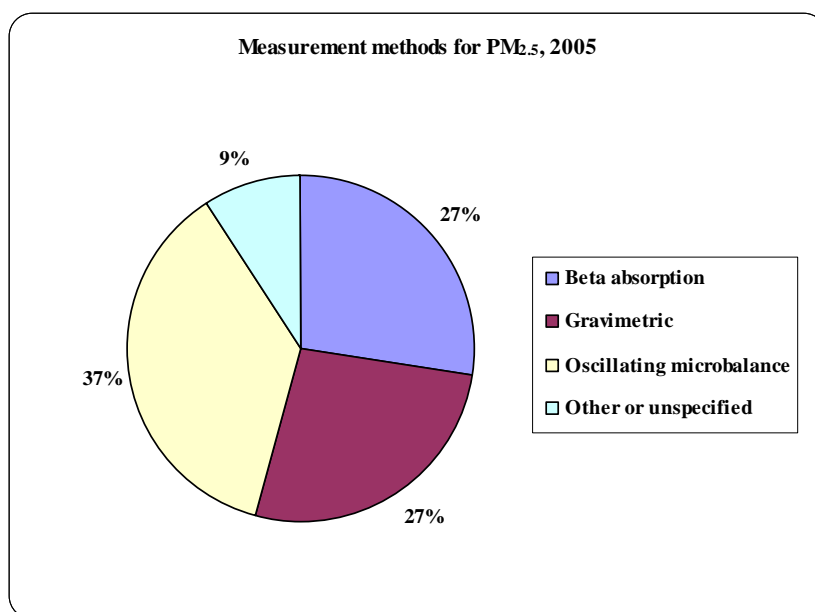


Figure 31 Measurement methods for PM_{2.5} (at 270 sites) in 2005.

Within Member States there is sometimes a clear preference for a particulate matter measuring method. For PM₁₀ measuring for example, the ‘Beta absorption method’ is the only method used in Estonia, Greece, Latvia, Lithuania, The Netherlands and Portugal. The ‘Oscillating microbalance method’ on the other hand is the outstanding method used in Cyprus (100%), Slovenia (91%), UK (89%), France (81%) and Slovakia (75%). The reference ‘Gravimetric method’ is in only in three countries above 50%, in Denmark (77%), Ireland (57%) and Sweden (55%). The general conclusions for PM_{2.5} are that the same differences occur between countries and there isn’t a real similarity within countries between PM₁₀ and PM_{2.5} measuring methods. It has to be noted that the absolute number of stations that measure PM_{2.5}, 270 is limited and influences final results.

Table 26 Measurement methods used for PM₁₀ and PM_{2.5} 2005 ¹⁾.

MS	PM ₁₀				PM _{2.5}			
	Beta absorption	Gravimetric	Oscillating microbalance	Other or unspecified	Beta absorption	Gravimetric	Oscillating microbalance	Other or unspecified
AT	17	25	25	0	0	4	0	0
BE	28	0	14	7	5	0	5	1
CY	0	0	2	0	0	0	0	1
CZ	84	57	0	0	24	3	0	0
DE	199	94	64	1	8	12	5	0
DK	0	10	3	0	0	0	2	0
EE	4	0	0	0	0	0	0	0
EL	10	0	0	0	2	0	0	0
ES	179	80	55	1	12	37	7	8
FI	9	0	16	0	3	0	1	0
FR	70	1	294	0	0	0	64	0
HU	20	0	1	0	3	0	0	0
IE	0	8	1	5	0	0	1	0
IT	210	36	40	1	4	7	2	15
LT	12	0	0	0	0	0	0	0
LV	2	0	0	0	0	0	0	0
MT	1	0	1	0	0	0	0	0
NL	34	0	0	0	0	0	0	0
PL	229	149	43	0	0	6	0	0
PT	36	0	0	0	11	0	0	0
SE	1	16	12	0	0	0	7	0
SI	0	1	10	0	0	3	0	0
SK	5	3	24	0	2	0	1	0
UK	1	7	63	0	0	0	4	0
EU25	1151	487	668	15	74	72	99	25

¹⁾ The total number of methods can be larger than the number of stations because at some stations more than one method were used, particularly for PM₁₀.

4.5 Measurements of ozone precursors

VOC measurements

The Third Daughter Directive requires Member States to measure ozone precursors, for trend analysis, for checking the efficiency of emission reduction strategies and the consistency of emission inventories and to help attribute emission sources of pollution concentrations. An additional aim is to support the understanding of ozone formation and precursor dispersion processes, as well as the application of photochemical models. Member States must take these considerations into account when choosing the number and siting of stations; there should be at least one station per Member State.

VOC	AT	BE	CZ	DE	DK	EL	ES	FI	FR	HU	IE	IT	LT	LV	MT	NL	PL	PT	SE	SI	SK	UK	EU25
Ethane				7				2	7							1			1		1	2	21
Ethylene				7				2	7							1			1		1	2	21
Acetylene				7				2	7							1			1		1	2	21
Propane				7				2	7							1			1		1	2	21
Propene				7				2	7							1			1		1	2	21
n-Butane		14		7				2	7							1			1		1	2	35
i-Butane		14		7				2	7										1		1	2	34
1-Butene				7				2	7							1			1		1	2	21
trans-2-Butene		14		7				2	7							1			1			2	34
cis-2-Butene		14		7				2	7							1			1			2	34
1,3-Butadiene		12		7				2	8							1			1			5	36
n-Pentane	4	18		7				3	7							1			1		1	2	44
i-Pentane	4	14		7				2	7										1		1	2	38
1-Pentene	4	14						2	6							1			1		1		29
2-Pentene	4	2							4										1			2	13
Isoprene		2		7				2	7		1								1		1	2	23
n-Hexane	4	18		7				2	7							9			1		1	2	51
i-Hexane	4	12						2	2										1			2	23
n-Heptane	4	18		7				2	7							9			1			2	50
n-Octane	4	18							6							9			1				38
i-Octane	4	14							6										1				25
Benzene	4	23	26	7	1	1	54	4	69	7	1	121	4	4	1	9	4	1	1	2	7	5	356
Toluene	4	23	26	7	1	1	15	2	67	7	1	55			1	9	2	1	1	2	1	5	231
Ethyl benzene	4	23	26	7		1	4	2	54	7	1	24				9	2	1	1	2		5	173
m+p-Xylene	4	23	22	7		1	5	2	63	7	1	32			1	9	4	1	1	2		5	190
o-Xylene	4	23	26	7		1	10	2	63	7	1	31				9	3	1	1	2	1	5	197
1,2,4-Trimeth.benzene	4	2							7		1					8			1			2	25
1,2,3-Trimeth.benzene	4	2							7		1					8			1				23
1,3,5-Trimeth.benzene	4	2							7		1					8			1			2	25
Formaldehyde				7					2									1					10
Total non-methane hydrocarbons							7		4			22				8							41

Table 27 Number of stations per Member State where recommended VOC's were measured in 2005

In 2005, 16 Member States sent results of VOC measurements. Two of these only sent benzene data, labelled as precursor measurements. At 356 VOC stations benzene was measured; 121 stations of these only measured benzene and were also used under the Second Daughter Directive. Eight Member States sent not only data on VOC's recommended in the Third Daughter Directive, but also on some other VOCs.

Reporting by the Member States of the reactive VOC's is very limited compared to the less reactive aromatic compounds.

4.6 Zones where the number of stations was too low

Stations related to health protection

The first two daughter directives list the minimum number of stations per zone for air quality assessment in relation to diffuse sources and in relation to health protection limit values. This minimum number depends on exceedance of the upper or lower assessment threshold (the assessment regime) specified in the directives, the population of the zone and the agglomeration status. These requirements apply on whether supplementary assessment had been carried out. Member States must also assess the air quality in the vicinity of point sources, but the directives do not specify the number of stations. Member States are responsible for having an adequate air quality assessment system in all of their zones; it is

important to note that this may require more stations than the minimum that was checked here.

For the zones where no supplementary assessment had been carried out and on which Member States had, voluntarily, reported sufficient data, it could be checked whether the number of stations complied with the minimum number. Figure 32 shows the result, considering only the zones that could be checked and for which measurement was mandatory. The number of zones with too few stations was largest for PM₁₀ : this was found for 114 zones. The analysis also showed that in many zones the number of stations was considerably higher than the minimum used here.

For PM_{2.5} (not in the figure), each Member States must carry out measurements, choosing the number of stations “as representative of concentrations of PM_{2.5} within that Member State”, with no minimum number prescribed. Five EU25 Member States (Estonia, Latvia, Lithuania, Malta and The Netherlands) did not report on any PM_{2.5} station in 2005.

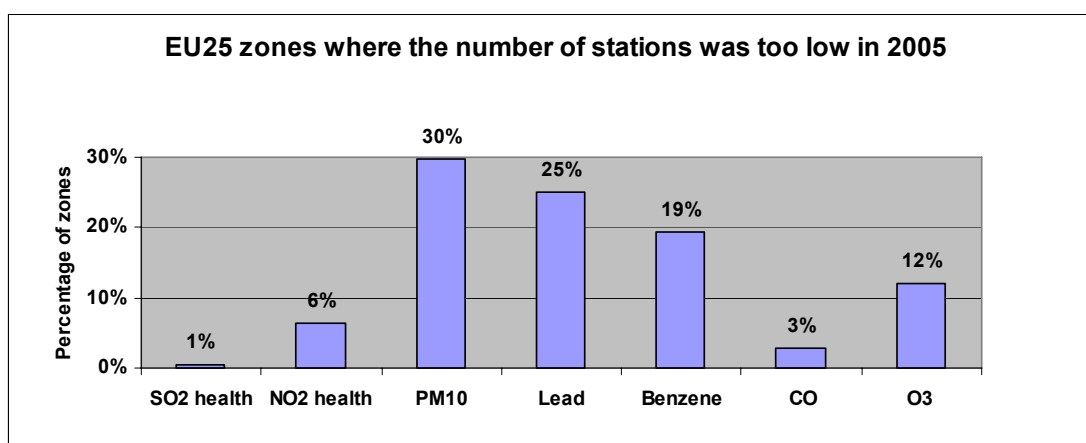


Figure 32 Compliance with the minimum number of stations required.

Nb: Only zones were considered for which the compliance could be checked and in which measurement was mandatory. If the number of stations was less than the minimum number required, the zone was counted as “not enough stations”.

Stations related to ecosystem and vegetation protection.

For zones exceeding the assessment thresholds for ecosystems and vegetation it is difficult to do a precise check, because the assessment thresholds are defined per zone, while the minimum number of stations is defined as one station per 20000 or 40000 km² when respectively the upper or lower assessment threshold is exceeded. Most zones are smaller than these sizes. All large zone were found to have enough stations. Several Member States with a large territory did not report having any stations for ecosystems or vegetation.

4.7 Inconsistencies between zones with exceedance and stations with exceedance

Inconsistencies in lists of zones exceeding the limit value plus the MOT and the lists of individual measurements in exceedance could be noticed; this concerned zones in 11 Member States. In Form 8 zones with exceedances should be reported on the basis of fixed measurements or modelling, and at least one corresponding station in that zone should report exceedance in Form 11. An analogous situation exists for the target values and long term

objective for health of ozone, for which Form 9 lists the zones in exceedance and Form 13 and 14 the stations that measured exceedances. It is likely that many of the inconsistencies are due to incorrect reporting of the measurements (e.g. reporting exceedances of the limit value instead of the LV+MOT).

Table 28 lists the number of zones per Member State in which a station is reported in Form 11, 13 or 14 to be in exceedance, but which are not listed as exceeding the LV(+MOT) in Form 8 or 9 respectively. The most striking reporting inconsistencies exist for ozone and PM₁₀.

MS	SO2				NO2			PM10		Lead	Benzene	CO	Ozone		
	Health 1hr	Health 24hr	Ecosys 1yr	Ecosys winter	Health 1hr	Health year	Veg year	Day	Year				TV health	TV veg	LTO health
AT							1		1					3	11
BE	12	2						1	1				5		4
CY									1						1
CZ									7					1	15
DE								10	3				24	28	39
DK									1				6		
EE	4						1						2	4	2
EL									3					1	2
ES	2							2	35				1		55
FR							1		2				8	13	54
HU									5				3		7
IT					1	2	18		9				5	1	60
LT		3												3	
LV									1						
MT									1						1
NL					1	5			1					6	
PL									34		1				7
PT									6						13
SE								3	1				10		
SI	1							1	2				1	1	5
SK	10								7						7
UK									1						
EU25	29	5	0	0	2	7	21	17	122	0	1	0	65	61	283

Table 28 Number of stations listed in form 11 (O₃ form 13/14) in exceedance without corresponding zones in form 8 (O₃ form 9), 2005

Table 29 shows the number of zones in exceedance without corresponding stations. From the table can be learned that the number of zones in exceedance is dominated by the ozone long term objective (305) and PM₁₀ day zones (67) that don't have reported corresponding stations in those zones. Inconsistencies are most frequently observed for Poland.

MS	SO2				NO2			PM10		Lead	Benzene	CO	Ozone		
	Health 1hr	Health 24hr	Ecosys 1yr	Ecosys winter	Health 1hr	Health year	Veg year	Day	Year				TV health	TV veg	LTO health
AT								1							
BE										2				1	
EL					1										
ES						1		1							4
FR								1					3	1	3
HU					1			3							
IT	1	1					3	1	2				2	5	
MT													1		
PL								59			1		20		297
PT													1	3	
SE															1
EU25	1	1	0	0	2	4	1	67	0	2	1	0	27	10	305

Table 29 Number of zones listed in Form 8 as in exceedance (not with 'm') without corresponding station in Form 11, 2005 (or Nr of zones listed in Form 9 as in exceedance (not with 'm') without corresponding station in Form 13 and 14).

4.8 Modelling and Supplementary Assessment

The Daughter Directive encourages Member States to assess their air quality not only with measurements, which gives the concentrations only at the locations of the monitoring stations, but also with other methods *e.g.* model calculations. The Commission is currently discussing with Member States the possibilities for reporting territory covering maps of the air quality, and hence this type of assessment is expected to become more important.

Table 30 shows for how many zones the reports indicated that the exceedance status had been determined by modelling (instead of measuring). Clearly this was the case in a minority of zones, with the highest percentage for lead (with levels in many zones far below the limit value), SO₂ winter (19.4%) and SO₂ year (14.4%). Compared to 2004 the percentage of exceedance in zones based on modelling has stayed constant broadly speaking.

Member States could also report whether Supplementary Assessment, i.e. assessment based on information from sources other than measurement, such as emission inventories, indicative measurement methods and air quality modelling, was applied. The number of zones for which this was reported, is for some limit values lower than the number of zones for which the exceedance status was determined by modelling. This unexpected result – modelling implies Supplementary Assessment – may be point at lack of clarity in the concept of Supplementary Assessment. Compared to 2004, the percentages of zones with Supplementary Assessment have gone up considerably for all pollutants (see Table 30). The main reason for this is the fact that in 2005 9 countries reported supplementary assessment whereas in 2004 this was 5 countries. Of the new reporting countries the Czech Republic and the United Kingdom reported for all the zones (CZ 15 and UK 43) in form 10 (above/below upper/lower assessment threshold levels) that supplementary assessment was carried out. The breakdown of supplementary assessment over the individual Member States is given in the Annex in table 28.

Number of zones	SO ₂				NO ₂		NO _x	PM ₁₀		Lead	Benzene	CO	O ₃	
	Health		Eco		Health		Veg	Day	Yr	Yr	Yr	Yr	Health	Veg
	Hr	Day	Yr	Winter	Hr	Yr	Yr							
... In total	782	925	492	175	803	956	460	867	923	710	790	876	879	714
... with exceedance status based on modelling 1)	95 (12,1%)	81 (8,8%)	71 (14,4%)	34 (19,4%)	83 (10,3%)	101 (10,6%)	13 (2,8%)	81 (9,3%)	74 (8%)	137 (19,3%)	99 (12,5%)	84 (9,6%)	29 (3,3%)	26 (3,6%)
... reported in form 10	462				496			478		308	332	405	123	
... where SA was applied	77 (16,8%)				83 (16,7%)			79 (16,5%)		80 (25,9%)	85 (25,6%)	77 (19%)	74 (60,1%)	

Table 30: Number of EU zones where the exceedance status was determined by modelling or where Supplementary Assessment (SA) was carried out (2005). The percentage of zones is given in brackets.

¹⁾ In Forms 8 and 9 of the AQ questionnaire, Member States indicated whether the exceedance status had been established by measurement or modelling.

²⁾ Form 10 of the AQ questionnaire, a voluntary reporting table, included a column on SA. It was not filled in by all Member States.

Supplementary Assessment	2004	2005
SO ₂	1.2%	16.6%
NO ₂ /NO _x	1.4%	16.7%
PM ₁₀	2.5%	16.5%
Lead	4.8%	25.9%
Benzene	7.4%	25.6%
CO	4.7%	19.0%
O ₃	27.0%	60.1%

Table 31 Number of EU zones where Supplementary Assessment (SA) was carried out in 2004 and 2005.

Exceedance status based on modelling			2004	2005
SO2	Health	Hr	13.0%	12.1%
		Day	8.0%	8.8%
	Eco	Yr	21.0%	14.4%
		Winter	19.0%	19.4%
NO2	Health	Hr	10.0%	10.3%
NOx		Yr	12.0%	10.6%
	Veg	Yr	19.0%	2.8%
	Day		10.0%	9.3%
PM10	Yr		9.0%	8.0%
Lead	Yr		15.0%	19.3%
Benzene	Yr		13.0%	12.5%
CO	Yr		14.0%	9.6%
O3	Health		2.1%	3.3%
	Veg		2.2%	3.6%

Table 32 Number of zones where the exceedances status were based on modelling, 2005

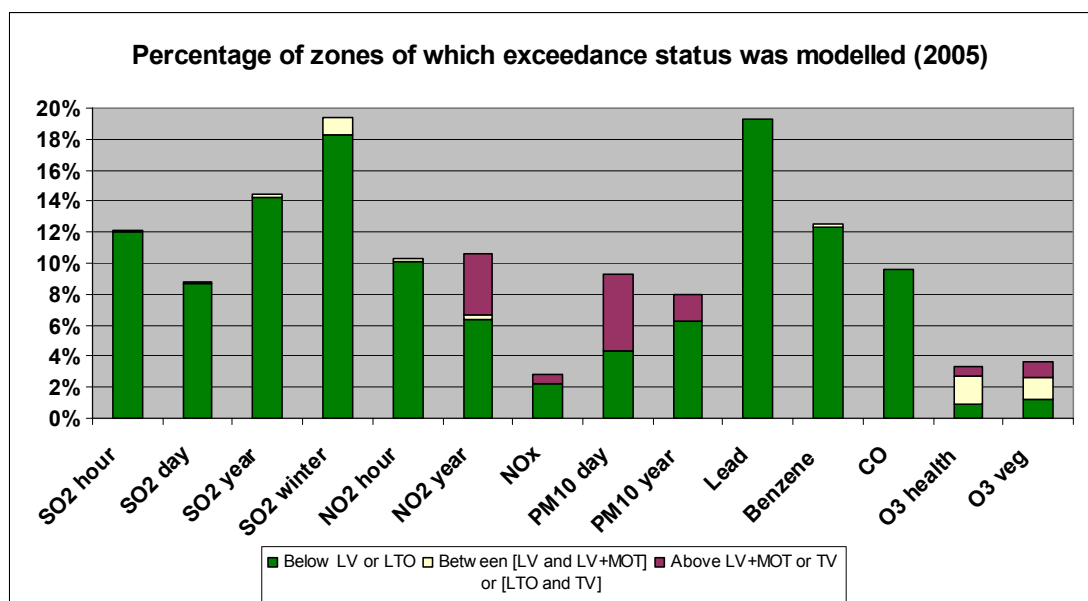


Figure 33 .Percentage of zones in which the exceedance status was determined on the basis of modelling in 2005.

Nb: The figure makes a distinction with respect to the exceedance status that was determined by the model assessment. For O₃ the LTO and TV apply, for the other pollutants the LV and ,if appropriate, LV+MOT.

5. Miscellaneous elements of the reports

5.1 Exceedances of the ‘old’ limit values

In 2005 the limit values of the ‘old’ Directives 82/884/EC (lead) and 85/203/EEC (nitrogen dioxide) were still in force, and exceedances had to be reported in the AQ questionnaire. Form 26 mentions the exceedances of the above ‘old’ Directives and two Member States (Germany – 3 stations; UK – 1 station) reported stations with exceedances of NO₂.

5.2 Statistics of PM_{2.5} measurements

In order to gather data for evaluating a possible PM_{2.5} threshold, the First Daughter Directive requires that “each Member State shall choose the number and the siting of the stations at which PM_{2.5} is to be measured as representative of concentrations of PM_{2.5}” and to report the results of those measurements. Six Member States (EE, LT, LU, LV, MT, NL) did not report such data. The other Member States sent PM_{2.5} data for in total 221 stations¹⁴; almost all of these stations were also reported for PM₁₀.

Figure 34 illustrates the range of PM_{2.5} concentrations, distinguishing traffic stations, industrial stations and background stations (based on the classification reported under the Exchange of Information Decision, as far as the stations could be identified). The levels are not clearly different. It should be noted that this overlap of ranges does not imply that levels are not increased near industry or traffic; it is more likely that the variability in background levels dominates the ranges.

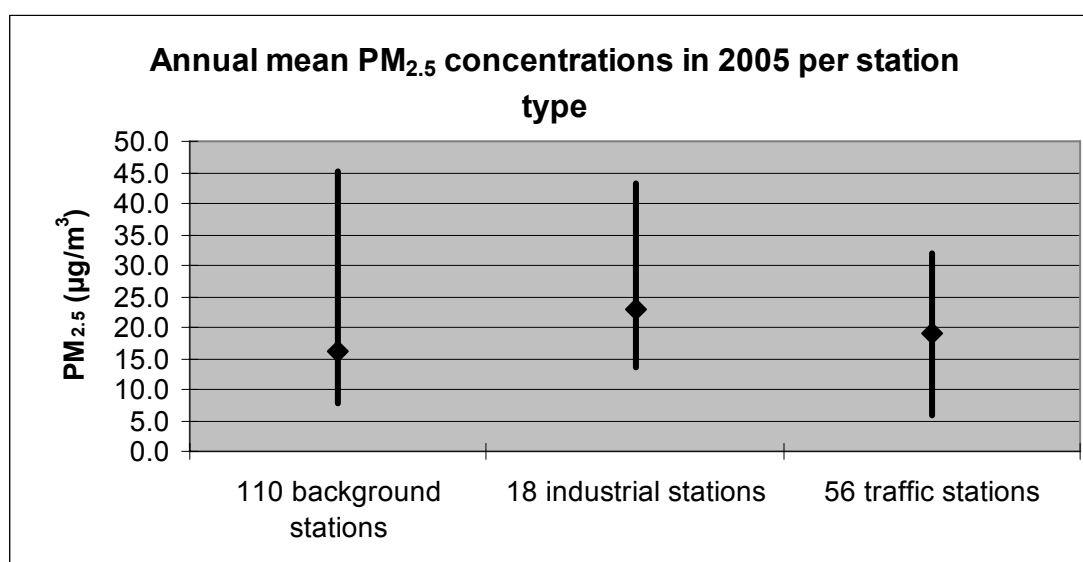


Figure 34 Annual mean (and maximum / minimum value) PM_{2.5} concentrations in 2005 per station type.

¹⁴ This number is lower than the number of stations reported to be designated for PM_{2.5} given in Table 21, because several Member States did not report PM_{2.5} data for all designated stations.

5.3 Annual statistics of ozone

Table 33 summarises the annual statistics that Member States reported under the AQ questionnaire.

Table 33 Statistics of ozone for the AOT thresholds and the annual average for all stations in the EU in 2004.

	Lowest ¹⁾	Average	Highest	Nr of stations
AOTvegetation (ug/m3.h)	0	15280	109604	1086
AOT forest (ug/m3.h)	0	21636	108635	1051
Annual average (ug/m3)	-1	81	2193	1205

1) The lowest values are probably in error.

EU25 ozone measuring stations for the AOT threshold and the annual average in 2005 (for which a link with the Eol station and area type could be made)												
ozone threshold & station class	Rural				Suburban				Urban			
	Background	Industrial	Traffic	Total	Background	Industrial	Traffic	Total	Background	Industrial	Traffic	Total
AOTvegetation (ug/m3.h)	204	34	6	244	148	54	36	238	181	19	92	292
AOT forest (ug/m3.h)	201	34	6	241	141	53	34	228	180	19	90	289
Annual average (ug/m3)	208	34	7	249	163	65	40	268	223	22	117	362
Annual O ₃ average of AOT thresholds and the annual average for all stations by station class in 2005												
ozone threshold & station class	Rural				Suburban				Urban			
	Background	Industrial	Traffic	Total	Background	Industrial	Traffic	Total	Background	Industrial	Traffic	Total
AOTvegetation (ug/m3.h)	15 833	16 243	18 193	15 948	15 032	14 830	11 596	14 382	11 069	11 962	6 422	9 663
AOT forest (ug/m3.h)	25 505	25 558	29 606	25 615	22 377	22 032	18 021	21 516	16 646	18 666	9 535	14 565
Annual average (ug/m3)	59	63	52	59	49	51	44	49	46	54	39	44

Table 34 Annual statistics of ozone, AOT thresholds, annual average and station class

Table 33 gives the breakdown in numbers of stations and annual averages of the AOT vegetation and forest thresholds by station class. One would expect to see the lowest concentrations of O₃ in urban areas followed by respectively suburban and rural areas. At the source, through e.g traffic, concentration of NO₂ would be high and O₃ relatively low. Table 34 supports the above mentioned expectations apart from rural traffic stations where concentrations seem to be higher than rural background and/or rural industrial stations. Most likely the limited number of stations (6) where the annual average is based on gives a distorted picture.

5.4 Concentrations of SO₂ averaged over 10 minutes

In order to prepare for a possible new air quality threshold for SO₂ concentrations averaged over 10 minutes, Member States had to record these data where practicable and report the results to the Commission. According to the Directive this is only needed until 31 December 2003. Nevertheless, four Member States reported such data, covering 33 stations (down from five Member States and 57 stations in 2004). Results for individual Member States are presented in the annex to this report.

5.5 Information related to derogation situations

Specific sources of lead

None of the Member States indicated for 2005 exceedances of the limit value plus margin of tolerance of lead (LV+MOT) due to 'specific sources', i.e. sources in an area in the immediate vicinity of specific sources designated according to Annex IV of the First Daughter Directive. Form 3 (see Table 21) states stations in the immediate vicinity of 'specific sources' and Belgium reports 10 such stations. From form 8d it can be determined that Belgium had two stations reporting levels between the limit value and LV+MOT for 'specific sources' (SS) of Lead exceedances and France one station.

Correction for natural sources for SO₂

None of the Member States indicated exceedances due to natural SO₂ sources in 2005.

Correction for natural events for PM₁₀

The First Daughter Directive gives Member States in Article 5(4) the possibility of subtracting the contribution from natural events from the PM₁₀ concentrations before comparing these with the limit values. This has been done in 2005 for some stations by Greece, Spain, Italy, Portugal and Cyprus. For all stations the natural events were described as 'transport of natural particles from dry regions outside the Member State'.

Table 35 shows the effect of the correction on the number of stations with exceedance. The corrections brought 11 stations (or 7 % of the total 148) below the daily limit value; for the annual limit value the compliance status was brought down under exceedance status with 3 stations (or 3.6 % of the total 83).

MS	Number of stations with exceedance of PM ₁₀ :			
	Daily limit value		Annual limit value	
	before correction	After correction	before correction	After correction
CY	1	1	1	1
EL	6	6		
ES	128	117	81	78
IT	11	11	1	1
PT	2	2		

Table 35 Influence of the correction for natural events on the number of stations exceeding the limit values for PM₁₀ in 2004.

Nb: The numbers indicate the number of stations to which the correction was applied, not the total number of stations with exceedance in the Member States mentioned.

Correction for winter sanding for PM₁₀

The First Daughter Directive also gives Member States the possibility of subtracting the contribution due to winter sanding of roads before comparing PM₁₀ concentrations with the limit values. For two stations in Latvia and two stations in Italy such corrections for the daily limit value were reported for 2005, and for two stations in Latvia for the annual limit value. The corrections brought none of the reported stations below the allowed 35 daily exceedances of the limit value; the corrections of the annual mean concentrations did also not bring these levels below the annual limit value.

MS	Number of exceedance reporting cases of PM ₁₀ daily and estimated annual mean concentration due to WINTER SANDING:			
	Daily limit value		Annual limit value	
	before correction	After correction	before correction	After correction
LV	123 (1)	53 (1)	48 (1)	41 (1)
LT	362 (12)	216 (12)		
IT	50 (1)	14 (1)	38 (1)	38 (1)
FI	91 (2)	27 (2)		

Table 36 Contribution of winter sanding to exceedance of the PM₁₀ limit value 24h and annual mean, 2005.

Nb: Between parentheses is the number of stations on which the number of exceedance cases is based.

5.6 Consultations on transboundary pollution

There were only two mentions of consultations in 2005 under Article 8(6) of the Framework Directive with other Member States on significant air pollution originating in other Member States. Poland reported consultations with Germany. The Netherlands reported consultations with Belgium. However, no agenda and/or minutes have been added to this report of the consultations.

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List of zones in EU Member States in relation to air quality thresholds

**laid down in Council Directives 96/62/EC, 1999/30/EC, 2000/69/EC
and 2002/3/EC**

Year 2005

**ETC/ACC Technical paper 2007/4
June, 2007**



Content of this document

This document lists how the air quality in 2005 in zones in Member States related to air quality thresholds laid down in the EU air quality directives. The list is based on the information submitted by the Member States to the European Commission.

Legislative background

Council Directive 96/62/EC (the Air Quality Framework Directive) requires Member States to divide their territory in zones (Article 2) and to assess the air quality in these zones. Under Article 11.1(b) Member States must annually submit lists of zones in which the levels of one or more pollutants are respectively:

- higher than the limit value plus the margin of tolerance,
- between the limit value and the limit value plus the margin of tolerance,
- below the limit value.

In the case of ozone, Member States should submit lists of zones in which the level of ozone are:

- higher than the target value
- between the target value and the long term objective value
- below the long term objective

Council Decision 2004/461/EC specifies the questionnaire that Member States have to use for submitting this and other information on the air quality.

Council Directive 1999/30/EC (the First Daughter Directive) sets limit values and margins of tolerance for the substances sulphur dioxide (SO₂), nitrogen dioxide (NO₂), oxides of nitrogen (NO_x), particulate matter (PM₁₀) and lead. Council Directive 2000/69/EC (the Second Daughter Directive) sets such thresholds for benzene and carbon monoxide (CO). The third Daughter Directive (2002/3/EC), deals with ground-level ozone, was adopted early in 2002 and sets target values and long term objective values. Under these three directives, air quality data on 2005 had to be reported by the EU25 Member States. However, Luxembourg didn't submit any data so there is data-availability for only 24 Member States. Norway and Iceland voluntarily submitted the questionnaire but this information is not included in this summary of EU Member States.

Article 11.2(a) of the Framework Directive requires the European Commission to publish annually a list of the agglomeration and non-agglomeration zones in relation to air quality thresholds.

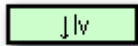
Legend to the list

The list shows the exceedance status for all zones in the EU25 Member States, excluding Luxembourg. This list is preceded by two summary tables, which give the total number of zones per exceedance status per Member State.

The list gives for each zone the zone name, the agglomeration status (ag: agglomeration; n: not an agglomeration), the area of the zone in km² and the population (number of inhabitants). Where this information has not been submitted, the cell has been left empty.

The compliance status of a zone is indicated as follows:

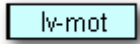
- Concerning SO₂; NO₂; NO_x; PM₁₀; Lead; Benzene and CO:



Concentrations are everywhere below (or equal to) the *limit value*. This indication refers to all limit values (irrespective of whether they had to be met in 2005).



Concentrations are at one or more locations above the *limit value* that had to be met in 2005.



Concentrations are at one or more locations between the *limit value* and the *limit value plus the margin of tolerance*, but everywhere below the *limit value plus the margin of tolerance*. This limit value did not yet have to be met in 2005.

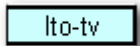


Concentrations are at one or more locations above the *limit value plus the margin of tolerance*. This indicator refers to limit values that did not yet have to be met in 2005. A plan or programme had to be prepared or implemented and sent to the Commission to ensure that this limit value will be attained in time.

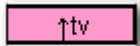
- Concerning ozone concentrations



Concentrations are everywhere below (or equal to) the *long term objective value*.



Concentrations are at one or more locations between the *long term objective value* and the *target value*, but everywhere below the *long term objective value plus the target value*.



Concentrations are at one or more locations above the *target value* that had to be met in 2005.

In addition to this, there are two more indications in the list:



A dash indicates that the zone had not been designated for this pollutant or this type of limit value.



An empty cell indicates that the information is missing.

^{SS} = an area in the immediate vicinity of a specific source (SS - Lead)

The names of the 25 EU Member States have been abbreviated as follows:

AT: Austria; BE: Belgium; CY: Cyprus; CZ: Czech Republic; DE: Germany; DK: Denmark; EE: Estonia; EL: Greece; ES: Spain; FI: Finland; FR: France; HU: Hungary; IE: Ireland; IT: Italy; LT: Lithuania; LU: Luxembourg; LV: Latvia; MT: Malta; NL: Netherlands; PL: Poland; PT: Portugal; SE: Sweden; SI: Slovenia; SK: Slovakia; UK: United Kingdom.

The list refers to the following limit values:

Abbreviation in the list	Limit value			Had the limit value to be met in 2005?	Had the limit value a margin of tolerance?
	Pollutant	Protection target	Averaging time		
SO ₂ health Hr	Sulphur dioxide	Health	Hour	Yes	No
SO ₂ health Day	Sulphur dioxide	Health	Day	Yes	No
SO ₂ eco Yr	Sulphur dioxide	Ecosystems	Year	Yes	No
SO ₂ eco Wntr	Sulphur dioxide	Ecosystems	Winter	Yes	No
NO ₂ Hr	Nitrogen dioxide	Health	Hour	No (2010)	Yes
NO ₂ Yr	Nitrogen dioxide	Health	Year	No (2010)	Yes
NO _x Yr	Nitrogen dioxide	Vegetation	Year	Yes	No
PM ₁₀ Day	Particulate Matter	Health	Day	Yes	No
PM ₁₀ Yr	Particulate Matter	Health	Year	Yes	No
Lead Yr	Lead	Health	Year	Yes	No
Lead Yr ¹	Lead	Health	Year	No (2010)	Yes
Benzene Yr	Benzene	Health	Year	No (2010)	Yes
CO 8hr	Carbon monoxide	Health	8 hours	Yes	No
O ₃ Day	Ozone	Health	Day	-	-
O ₃ 3month	Ozone	Vegetation	3 Month	-	-

- 1) Only valid for specific point sources (SS = Specific Sources), of which the Commission must be notified (according to annex IV of the first Daughter Directive); in these cases the intermediate limit value of 1.0 µg/m³ must be met by 01/01/2010.

Maps of zones

Maps of zones in Member States, as far as available to the Commission, are given in a separate annex, which can be found next to the current document on the Commission's internet site.

Caveat

Not all information has been submitted to the Commission in the correct format. For some zones, interpretation of the data was needed and hence it cannot be excluded that the compliance status is incorrectly indicated. For some zones, the corresponding information on exceedances could not be identified in the report to the Commission, possibly due to a mismatch of zone codes submitted in different forms of the questionnaire.

Summary of exceedance status of zones in EU Member States in 2005 with respect to the limit values and limit values plus margin of tolerances for Sulphur dioxide, Nitrogen dioxide and nitrogen oxides.

MS	SO ₂ health Hr		SO ₂ health Day		SO ₂ eco Yr		SO ₂ eco Wntr		NO ₂ Hr			NO ₂ Yr			NO _x	
	↑lv	↓lv	↑lv	↓lv	↑lv	↓lv	↑lv	↓lv	↑mot	lv-mot	↓lv	↑mot	lv-mot	↓lv	↑lv	↓lv
AT	0	11	0	11	0	8	0	8	0	1	10	6	2	3	1	7
BE	0	12	0	12	0	0	0	0	0	0	11	1	3	7	0	0
CY	0	1	0	1	0	1	0	1	0	0	1	0	0	1	0	1
CZ	0	15	0	15	1	14	4	11	1	0	14	1	2	12	3	12
DE	0	76	0	76	0	15	0	15	1	6	73	23	17	40	0	12
DK	0	3	0	3	0	3	0	3	0	0	9	1	1	7	0	5
EE	0	4	0	4	0	4	0	4	0	0	4	0	0	4	1	3
EL	0	2	0	2	0	0	0	0	1	0	1	1	0	1	0	0
ES	6	127	5	128	0	13	0	13	1	5	124	9	14	107	0	14
FI	0	14	0	14	0	1	0	1	0	0	14	0	1	13	0	1
FR	3	72	3	72	0	32	0	32	1	4	75	11	18	48	1	18
HU	0	11	0	11	0	1	0	1	1	1	9	1	3	7	0	1
IE	0	4	0	4	0	1	0	1	0	0	4	0	0	4	0	1
IT	3	95	4	94	1	42	1	39	2	13	100	43	20	53	10	15
LT	0	3	0	3	0	1	0	1	0	2	1	0	0	3	0	1
LU	n.a.	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
LV	0	2	0	2	0	1	0	1	0	0	2	0	0	2	0	1
MT	1	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0
NL	0	9	0	9	0	0	0	0	0	3	8	9	5	2	0	1
PL	0	219	1	361	0	314	0	0	0	0	219	2	8	352	0	314
PT	0	22	0	22	0	6	0	6	0	2	21	1	1	21	0	7
SE	0	6	0	6	0	6	0	6	0	0	6	0	2	4	0	6
SI	3	6	3	6	3	6	3	6	0	0	6	0	0	6	4	2
SK	1	9	0	9	0	3	0	3	0	0	9	0	0	9	0	3
UK	0	42	1	42	0	15	0	15	1	1	34	35	3	5	0	15
EU25	17	765	18	907	5	487	8	167	9	38	756	144	100	712	20	440

Summary of exceedance status of zones in EU Member States in 2005 with respect to the limit values and limit values plus margin of tolerances for particulate matter, lead, benzene and carbon monoxide.

MS	PM ₁₀ Day		PM ₁₀ Yr		Lead Yr			Benzene Yr			CO Yr		Ozone Health			Ozone Vegetation		
	↑lv	↓lv	↑lv	↓lv	↑mot	lv-mot	↓lv	↑mot	lv-mot	↓lv	↑lv	↓lv	↑tv	lto-tv	↓lto	↑tv	lto-tv	↓lto
AT	11	0	1	10	0	0	11	0	0	11	0	11	11	0	0	8	0	0
BE	10	1	1	10	2	0	10	0	0	10	0	6	4	5	0	1	8	0
CY	1	0	1	0	0	0	1	0	0	1	0	1	1	0	0	1	0	0
CZ	15	0	7	8	0	0	15	0	1	14	0	15	15	0	0	14	1	0
DE	29	48	3	74	0	0	67	0	1	77	0	78	39	24	0	19	24	1
DK	2	4	1	5	0	0	2	0	0	1	0	4	0	4	0	0	1	6
EE	2	2	0	4	0	0	1	0	0	0	0	4	2	2	0	0	0	0
EL	3	1	3	1	0	0	0	0	1	0	0	3	3	0	1	3	0	1
ES	65	62	36	91	0	0	71	0	1	84	1	110	52	48	24	45	44	27
FI	1	13	0	14	0	0	14	0	0	3	0	14	0	2	0	0	2	0
FR	12	61	2	70	0	0	30	0	3	45	0	52	49	24	6	26	36	4
HU	11	0	5	6	0	0	11	0	0	11	0	11	7	4	0	1	0	0
IE	0	4	0	4	0	0	4	0	0	4	0	4	0	1	3	0	0	1
IT	70	29	38	61	0	0	36	0	6	73	1	102	69	7	9	42	3	1
LT	3	0	0	3	0	0	3	0	0	3	0	3	0	2	1	0	1	0
LU	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
LV	1	1	1	1	0	0	1	0	0	2	0	1	0	1	1	0	0	1
MT	1	0	1	0	0	0	1	0	0	1	0	1	2	0	0	1	0	0
NL	9	0	8	8	0	0	3	0	0	2	0	9	0	9	0	0	6	3
PL	78	230	35	323	0	0	362	1	9	352	1	361	27	335	0	0	314	0
PT	9	14	6	17	0	0	1	0	0	13	0	16	12	8	2	3	0	2
SE	3	3	1	5	0	0	6	0	0	6	0	6	0	5	1	0	3	3
SI	5	1	2	4	0	0	3	0	0	2	0	4	5	0	1	5	0	1
SK	9	0	7	2	0	0	9	0	1	7	0	9	7	1	0	7	1	0
UK	29	14	4	39	0	0	43	0	2	41	0	42	0	37	6	0	16	27
EU25	379	488	163	760	2	0	705	1	25	763	3	867	305	519	55	176	460	78

List of zones in EU Member States in relation to air quality thresholds for 2005.

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
AT	Burgenland	nonag	3962	279000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	-	-
AT	Kärnten	nonag	9538	561000	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	-	-
AT	Niederösterreich	nonag	19185	1550000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	-	-
AT	Oberösterreich ohne AG Linz	nonag	11717	1113000	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	-	-
AT	AG Linz	ag	264	269000	↓lv	↓lv			↓lv	lv-mot	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
AT	Salzburg	nonag	7156	521000	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	-	-
AT	Steiermark ohne AG Graz	nonag	16203	931000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	-	-
AT	AG Graz	ag	198	255000	↓lv	↓lv			↓lv	↑mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
AT	Tirol	nonag	12641	675000	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	-	-
AT	Vorarlberg	nonag	2600	352000	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	-	-
AT	Wien	ag	415	1563000	↓lv	↓lv			lv-mot	↑mot	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
AT	Nordostösterreich ohne AG Wien	nonag	21677	1754244	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
AT	Südostösterreich ohne AG Graz	nonag	10573	837146	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
AT	Oberösterreich und nördliches Salzburg ohne AG Linz	nonag	13456	1442452	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
AT	Pinzgau, Pongau und Steiermark nördlich des Alpenhauptkamms	nonag	8442	257825	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
AT	Nordtirol	nonag	10623	625552	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
AT	Vorarlberg	nonag	2600	352000	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
AT	Kärnten und Osttirol	nonag	11557	609808	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
AT	Lungau und oberes Murtal	nonag	4079	130634	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
BE	PORT OF ANTWERP	nonag	252	50000	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv		lto-tv	lto-tv
BE	ANTWERP	ag	170	530000	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
BE	PORT OF GHENT	nonag	117	45000	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv		lto-tv	lto-tv
BE	GHENT	ag	136	250000	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
BE	CITIES>50000 inhabitants	nonag	786	750000	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv		↑tv	lto-tv
BE	FLANDERS	nonag	12126	4370000	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
BE	HOBOKEN	nonag	4	22000	-	-	-	-	-	-	-	-	-	↑mot	-	-	-	-
BE	BERSE	nonag	1	250	-	-	-	-	-	-	-	-	-	↑mot	-	-	-	-
BE	LOMMEL	nonag	103	31000	↓lv	↓lv			-	-	-	-	-	-	-	-	-	-
BE	BRUSSELS	ag	161	950000	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
BE	LIEGE	ag	220	410074	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	-	-
BE	ENGIS	nonag	45	14460	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv		-	-	-	-
BE	CHARLEROI	ag	141	247615	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv	↓lv	↓lv	↓lv	-	-
BE	WALLONIE	nonag	15545	2667367	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	-	-	-	-
BE	WALLONIEII	nonag	16484	2669018	-	-	-	-	-	-	-	-	-	-	↓lv		-	-
BE	ARDENNE	nonag	7275	637744	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
BE	WALLONIE III	nonag	9569	2688963	-	-	-	-	-	-	-	-	-	-	-	-	lto-tv	lto-tv
CY	CYPRUS - National Network for Ambient Air Quality Monitoring in Cyprus	ag	9251	750000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
CZ	Praha	ag	496	1170571	↓lv	↓lv	↓lv	↓lv	↑mot	↑mot	↑lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	lto-tv
CZ	Středočeská	nonag	11016	1144071	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Jihočeská	nonag	10072	625712	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Plzeňská	nonag	7570	549618	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Karlovarská	nonag	3319	304588	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Ústecká	nonag	5343	822133	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Liberecká	nonag	3163	427563	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Královéhradecká	nonag	4767	547296	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Pardubická	nonag	4525	505285	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Vysočina	nonag	6926	510114	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Jihomoravská	nonag	6839	762511	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv							
CZ	Brno	ag	230	367729	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Olomoucká	nonag	5145	639423	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Zlínská	nonag	3965	590706	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
CZ	Moravskoslezská	ag	5573	1253257	↓lv	↓lv	↓lv	↑lv	↓lv	lv-mot	↓lv	↑lv	↑lv	↓lv	lv-mot	↓lv	↑tv	↑tv
DE	Land Brandenburg Ozon	nonag		2567704	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
DE	Orte erhöhter verkehrsbedingter Schadstoffbelastung im Land Brandenburg ab 2005	nonag		643289	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv	↓lv	↓lv	↓lv	-	-
DE	Kleinstädtischer und ländlicher Raum im Land Brandenburg ab 2005	nonag		1924415	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Naturpark Märkische Schweiz	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Spreewald	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Ballungsraum Berlin	ag		3396990	↓lv	↓lv			lv-mot	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
DE	Ballungsraum Stuttgart	ag		1457567	↓lv	↓lv			↑mot	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
DE	Ballungsraum Karlsruhe	ag		323156	↓lv	↓lv			↓lv	↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	
DE	Ballungsraum Mannheim/Heidelberg	ag		544250	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
DE	Ballungsraum Freiburg	ag		219286	↓lv	↓lv			↓lv	↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	
DE	Regierungsbezirk Stuttgart (ohne Ballungsraum)	nonag			↓lv	↓lv	↓lv	↓lv	-	-		-	-	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Regierungsbezirk Stuttgart ohne Ballungsraum mit NO2-Werten < GW	nonag			-	-	-	-	↓lv	↓lv		-	-	-	-	-	-	-
DE	Regierungsbezirk Karlsruhe (ohne Ballungsräume)	nonag			↓lv	↓lv	↓lv	↓lv	-	-		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Regierungsbezirk Karlsruhe (ohne Ballungsräume) mit NO2-Werten < GW	nonag			-	-	-	-	↓lv	↓lv		-	-	-	-	-	-	-
DE	Regierungsbezirk Freiburg (ohne Ballungsraum)	nonag			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Regierungsbezirk Tübingen	nonag			↓lv	↓lv	↓lv	↓lv	-	-		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Regierungsbezirk Tübingen mit NO2-Werten < GW	nonag			-	-	-	-	↓lv	↓lv		-	-	-	-	-	-	-

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
DE	Gebiet (ohne Ballungsräume) mit NO ₂ -Werten > GW	nonag			-	-	-	-	↓lv	lv-mot		-	-	-	-	-	-	-
DE	Gebiet (ohne Ballungsräume) mit NO ₂ -Werten > GW+TM	nonag			-	-	-	-	lv-mot	↑mot		-	-	-	-	-	-	-
DE	Regierungsbezirk Stuttgart (ohne Ballungsraum) mit PM10-Werten < GW	nonag			-	-	-	-	-	-	-	↓lv	↓lv	-	-	-	-	-
DE	Gebiet (ohne Ballungsräume) mit PM10-Werten > GW	nonag			-	-	-	-	-	-	-	↑lv	↓lv	-	-	-	-	-
DE	Ballungsraum München	ag		1250000	↓lv	↓lv			lv-mot	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	lto-tv
DE	Ballungsraum Augsburg	ag		260000	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Ballungsraum Nürnberg/Fürth/Erlangen	ag		700000	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Restgebiet Bayern 1 > GW+TM	nonag		280000	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Restgebiet Bayern 2	nonag		9920000	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Oberbayern ohne Ballungsraum München	nonag		2950000	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	lto-tv
DE	Niederbayern	nonag		1200000	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
DE	Oberpfalz	nonag		1100000	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
DE	Unterfranken	nonag		1350000	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	lto-tv
DE	Mittelfranken ohne Ballungsraum Nürnberg/Fürth/Erlangen	nonag		1000000	-	-	-	-	-	-	-	-	-	-	-	-	lto-tv	
DE	Oberfranken	nonag		1100000	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
DE	Schwaben ohne Ballungsraum Augsburg	nonag		1500000	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	
DE	Ballungsraum Goettingen	ag	117	122187	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
DE	Ballungsraum Hannover-Braunschweig	ag	1762	1551253	↓lv	↓lv			lv-mot	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
DE	Ballungsraum Niedersachsen-Bremen	ag	806	770016	↓lv	↓lv			lv-mot	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Ballungsraum Osnabrueck	ag	290	246385	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
DE	Bremen (Bremerhaven)	nonag	79	117281	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Niedersachsen-Mitte	nonag	22159	2444936	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Niedersachsen-Nord	nonag	12936	1809405	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Niedersachsen-Sued	nonag	10104	1602659	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Nationalpark Wattenmeer	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Nationalpark Harz	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Ballungsraum I (Rhein-Main)	ag		2314149	↓lv	↓lv			lv-mot	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
DE	Ballungsraum II (Kassel)	ag		298890	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Gebiet I (Südhessen)	nonag		664378	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Gebiet II (Lahn-Dill-Gebiet)	nonag		518222	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Gebiet III (Mittel- und Nordhessen)	nonag		2295979	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Ballungsraum Hamburg	ag		2081162	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr		Yr	Day				Yr	Yr
DE	Ballungsraum Rostock	ag		226300	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Mittlere Städte im Land Mecklenburg-Vorpommern	nonag		525900	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Ländlicher Raum im Land Mecklenburg-Vorpommern	nonag		961000	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Ländlicher Hintergrund im Land Mecklenburg-Vorpommern	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Mecklenburg-Vorpommern (ohne Ballungsraum Rostock)	nonag		1486900	-	-	-	-	-	-	-	-	-	-	-	-	lto-tv	lto-tv
DE	urbane Bereiche und ländlicher Raum im Land Nordrhein-Westfalen	nonag		8566238	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
DE	Wuppertal	ag		818601	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
DE	Münster	ag		269577	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Köln	ag		2000040	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Hagen	ag		308568	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Essen	ag		1897717	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Duisburg	ag		1312546	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Dortmund	ag		956922	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	lv-mot	↓lv	lto-tv	lto-tv
DE	Düsseldorf	ag		961796	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Bielefeld	ag		328142	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Aachen	ag		387066	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
DE	Stolberg	ag		58932	-	-	-	-	-	-	-	-	-	↓lv	-	-	-	-
DE	Mönchengladbach	ag		262111	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Braubach	nonag			-	-	-	-	-	-	-	-	-	↓lv	-	-	-	-
DE	Krautscheid/Seifen	nonag			-	-	-	-	-	-	-	-	-	↓lv	-	-	-	-
DE	ländliche Gebiete im Land Rheinland-Pfalz	nonag			-	-	-	-	-	-	-	-	-	↓lv	-	-	-	-
DE	Koblenz/Neuwied	nonag		175105	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Trier	nonag		100163	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Mainz	nonag		186061	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	-	↓lv	↓lv	-	-
DE	Worms/Fankenthal/Ludwigshafen	nonag		292149	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	-	↓lv	↓lv	-	-
DE	Oberheingraben	nonag		1096947	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Nord-West Gebiet im Land Rheinland-Pfalz	nonag		2209418	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Rheinland-Pfalz	nonag		4061105	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
DE	Ballungsraum Kiel	ag		303919	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
DE	urbane Bereiche und ländlicher Raum im Land Schleswig-Holstein	nonag		1882218	↓lv	↓lv			-	-	-	↓lv	↓lv	↓lv	-	-	lto-tv	lto-tv
DE	Ballungsraum Lübeck	ag		266477	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
DE	Städte 10-100000 Einwohner ohne Itzehoe im Land Schleswig-Holstein	nonag		690199	-	-	-	-	↓lv	lv-mot		-	-	-	↓lv	↓lv	-	-

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
DE	Itzehoe	nonag		34308	-	-	-	-	↓lv	↑mot		-	-	-	↓lv	↓lv	-	-
DE	ländlicher Raum im Land Schleswig-Holstein	nonag		1157711	-	-	-	-	↓lv	↓lv		-	-	-	↓lv	↓lv	-	-
DE	ländlicher Raum im Land Schleswig-Holstein	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Ballungsraum Saarbrücken (BSB)	ag		290000	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Gebiet Dillingen-Saarlouis (UDS)	nonag			↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Rest-Saarland (RS)	nonag			↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Saarland	nonag			-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
DE	Leipzig	ag		516365	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
DE	Dresden	ag		633496	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
DE	Chemnitz	ag		259246	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
DE	Leipziger Umland	nonag		434043	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Untere Elbe / Lausitz	nonag		651999	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Erzgebirge / Vogtland	nonag		1282355	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Nordwestsachsen	nonag		174240	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Oberlausitzer Heide- und Teichlandschaft	nonag		247942	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Mittelgebirgskamm	nonag		226170	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
DE	Ozongebiet Sachsen (ohne Ballungsräume)	nonag		3016749	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
DE	Waldgebiet Oberes Erzgebirge	nonag		226170	-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Waldgebiete Nordsachsen	nonag		422182	-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Magdeburg	ag		260771	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	↑tv	
DE	Halle	ag		238497	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	-	↓lv	↓lv	↑tv	lto-tv
DE	Altmark	nonag		230363	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Börde	nonag		329838	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Harz	nonag		404823	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	-	↓lv	↓lv	↑tv	↑tv
DE	Anhalt-Bitterfeld-Wittenberg	nonag		507831	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	-	↓lv	↓lv	-	-
DE	Saale-Unstrut	nonag		522314	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Mansfelder Land	nonag		101754	-	-	-	-	-	-	-	-	-	↓lv	-	-	-	-
DE	Sachsen-Anhalt-Rest	nonag		2392683	-	-	-	-	-	-	-	-	-	↓lv	-	-	-	-
DE	Sachsen-Anhalt-Nord	nonag		560201	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	lto-tv
DE	Sachsen-Anhalt-Südost	nonag		1030145	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
DE	Naturpark Drömling	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Naturpark Harz	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DE	Gebiet Thüringen 1	nonag		409528	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	-	↓lv	↓lv	-	-
DE	Gebiet Thüringen 2	nonag		735082	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Gebiet Thüringen 3	nonag		1200517	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	-	-
DE	Gebiet Thüringen-Gesamt	nonag		2345127	-	-	-	-	-	-	-	-	-	↓lv	-	-	↑tv	↑tv
DE	Gebiet Thüringen Ökosystem/Vegetation	nonag			-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
DK	Copenhagen	ag	630	1199470	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↓lto	↓lto

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	HIth	Veg
DK	Odense	ag	305	183912	-	-	-	-	↓lv	↓lv	-	↑lv	↓lv	-		↓lv	lto-tv	↓lto
DK	Århus	ag	470	284846	-	-	-	-	↓lv	lv-mot	-	↓lv	↓lv	-		↓lv	↓lto	↓lto
DK	Aalborg	ag	560	161161	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	-		↓lv		↓lto
DK	Zealand	nonag	9322	1195394	-	-	-	-	↓lv	↓lv	↓lv	↓lv	↓lv	-		↓lv	lto-tv	lto-tv
DK	Funen	nonag	3230	288062	-	-	-	-	↓lv	↓lv	↓lv	↓lv	↓lv	-			lto-tv	↓lto
DK	SW Jutland	nonag	11901	750684	-	-	-	-	↓lv	↓lv	↓lv			-				
DK	E. Jutland	nonag	11261	933499	-	-	-	-	↓lv	↓lv	↓lv			-				
DK	N. Jutland	nonag	5634	332992	-	-	-	-	↓lv	↓lv	↓lv			-			lto-tv	↓lto
DK	Country	nonag	42682	4130550	↓lv	↓lv	↓lv	↓lv	-	-	-	-	-	↓lv	-	-	-	-
EE	Tallinn	ag	158	408000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv		↓lv	lto-tv	
EE	Kohtla-Järve	ag	42	46032	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	-		↓lv	lto-tv	
EE	Põhja-Eesti	nonag	11162	314460	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-		↓lv	↑tv	
EE	Lõuna-Eesti	nonag	32176	623106	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	↓lv	↑tv	
EL	Βόρεια Ελλάδα	nonag	60203	3312018	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	-		↓lv	↑tv	↑tv
EL	Νότια Ελλάδα	nonag	69747	3306302								↓lv	↓lv	-			↓lto	↓lto
EL	Οικισμός Αθήνα	ag	1948	3551370	↓lv	↓lv			↑mot	↑mot		↑lv	↑lv	-	lv-mot	↓lv	↑tv	↑tv
EL	Οικισμός Θεσσαλονίκη	ag	129	794330								↑lv	↑lv	-		↓lv	↑tv	↑tv
ES	ZONA INDUSTRIAL DE HUELVA	nonag	711	168247	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
ES	ZONA INDUSTRIAL DE BAHÍA DE ALGECIRAS	nonag	584	200006	↑lv	↑lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	lto-tv
ES	ZONA INDUSTRIAL DE PUENTE NUEVO	nonag	448	3065	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv		
ES	ZONA INDUSTRIAL DE BAILÉN	nonag	118	17414	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv		
ES	ANDALUCIA-NÚCLEOS DE 50.000 A 250.000 HABITANTES	nonag	1778	732292	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	CÓRDOBA	ag	141	309961	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
ES	ANDALUCIA-ZONAS RURALES	nonag	80839	2966594	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	ZONA INDUSTRIAL DE CARBONERAS	nonag	696	21718	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
ES	BAHÍA DE CÁDIZ	ag	399	338537	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↑tv
ES	GRANADA Y ÁREA METROPOLITANA	ag	559	408117	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
ES	MÁLAGA Y COSTA DEL SOL	ag	1239	974231	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
ES	SEVILLA Y ÁREA METROPOLITANA	ag	1390	1116796	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	COMUNIDAD DE ARAGÓN PIRINEOS	nonag	16932	199800	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv		↓lv	↑tv	↑tv
ES	VALLE DEL EBRO	nonag	10489	177125	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv		↓lv	↑tv	↑tv
ES	BAJO ARAGÓN	nonag	4417	57959	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↑tv	↑tv
ES	CORDILLERA IBÉRICA	nonag	15726	142530	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↑tv	↑tv
ES	ZARAGOZA	ag	166	626801	↓lv	↓lv			↓lv	↑mot		↑lv	↑lv			↓lv	lto-tv	↓lto

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
ES	ASTURIAS OCCIDENTAL	nonag	4597	104289	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv			↓lv	↓lto	
ES	ASTURIAS CENTRAL	nonag	3052	619995	↓lv	↑lv			↓lv	lv-mot		↑lv	↑lv			↓lv	lto-tv	
ES	ASTURIAS ORIENTAL	nonag	2773	80222	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv			↓lv	lto-tv	lto-tv
ES	GIJÓN	ag	8	270875	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv			↓lv	lto-tv	
ES	PALMA	ag	74	363150	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	SIERRA DE TRAMUNTANA	nonag	740	50911	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	lto-tv
ES	MENORCA-MAÓ-ES CASTELL	nonag	47	36282	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	lto-tv
ES	RESTO MENORCA	nonag	650	50415	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	lto-tv
ES	EIVISSA	ag	11	42797	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	lto-tv
ES	RESTO EIVISSA-FORMENTERA	nonag	643	75816	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	lto-tv
ES	RESTO MALLORCA	nonag	2827	363760	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↑tv
ES	LAS PALMAS DE GRAN CANARIA	ag	101	376953	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv		↓lv	↓lv	↓lto	↓lto
ES	ZONA CENTRO DE LA ISLA DE GRAN CANARIA	ag	615	336761	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv		↓lv	↓lv	↓lto	↓lto
ES	SUDOESTE DE LA ISLA DE GRAN CANARIA	nonag	845	76646	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv		↓lv	↓lv	↓lto	↓lto
ES	FUERTEVENTURA Y LANZAROTE	nonag	2506	196768	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv		↓lv	↓lv	↓lto	↓lto
ES	SANTA CRUZ DE TENERIFE-LA LAGUNA	ag	253	356760	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv		↓lv	↓lv	↓lto	↓lto
ES	NORTE DE LA ISLA DE TENERIFE	nonag	759	249600	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv		↓lv	↓lv	↓lto	↓lto
ES	SUR DE LA ISLA DE TENERIFE	nonag	1023	206479	↑lv	↓lv			lv-mot	lv-mot		↑lv	↑lv		↓lv	↓lv	↓lto	↓lto
ES	LA GOMERA, EL HIERRO Y LA PALMA	nonag	1347	115573	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv		↓lv	↓lv	↓lto	↓lto
ES	BAHÍA DE SANTANDER	ag	50	233019	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	COMARCA DE TORRELAVEGA	nonag	186	80773	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
ES	CANTABRIA ZONA LITORAL	nonag	1463	185638	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
ES	CANTABRIA ZONA INTERIOR	nonag	3493	62879	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
ES	COMARCA DE PUERTOLLANO	nonag	3305	72513	↑lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	CASTILLA LA MANCHA-ZONAS INDUSTRIALES Y DENSAMENTE POBLADAS	nonag	9534	608754	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv		↓lv	↑tv	↑tv
ES	LA MANCHA	nonag	21025	827681	↓lv	↓lv			↓lv	↓lv	↓lv	↑lv	↑lv	↓lv		↓lv	↑tv	↑tv
ES	CASTILLA LA MANCHA-SIERRAS Y ZONAS RURALES.	nonag	45560	573206	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv				↑tv	↑tv
ES	BURGOS	ag	22	161984	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv			↓lv	↑tv	lto-tv
ES	LEÓN Y SAN ÁNDRES DEL	ag	19	163296	↓lv	↓lv			↓lv	↑mot		↑lv	↑lv			↓lv	lto-tv	↓lto

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr		Yr	Day				Yr	Yr
	RABANEDO																	
ES	SALAMANCA Y SANTA MARTA DE TORMES	ag	19	168341	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv		↓lv	↓lv	lto-tv	↑tv
ES	VALLADOLID-LAGUNA DE DUERO	ag	47	360000	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv		↓lv	↓lv	↑tv	↑tv
ES	ARANDA DE DUERO	nonag	8	29641	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv			↓lv	lto-tv	lto-tv
ES	MIRANDA DE EBRO	nonag	5	35397	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv			↓lv	lto-tv	↓lto
ES	ANLLARES	nonag	530	11209	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv					
ES	PONFERRADA	nonag	10	61469	↑lv	↑lv			↓lv	↓lv		↓lv	↓lv			↓lv	↑tv	lto-tv
ES	LA ROBLA	nonag	2	3862	↑lv	↑lv			↓lv	↓lv		↑lv	↓lv				lto-tv	lto-tv
ES	VELILLA DEL RÍO CARRIÓN Y GUARDO	nonag	4	10665	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv				lto-tv	lto-tv
ES	ÁREA DE PALENCIA	nonag	25	90646	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv		↓lv	↓lv	↑tv	↑tv
ES	RESTO DEL TERRITORIO II	nonag	93500	1400000	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv				↑tv	↑tv
ES	ÁREA DE NÚCLEOS MEDIANOS	nonag	25	230000	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv		↓lv	↓lv	↑tv	↑tv
ES	ÁREA DE BARCELONA	ag	341	2801467	↓lv	↓lv			↓lv	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	VALLÈS-BAIX LLOBREGAT	ag	1177	1269403	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	PENEDÈS - GARRAF	nonag	1418	394757	↓lv	↓lv			↓lv	↓lv		↓lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	CAMP DE TARRAGONA	nonag	994	379955	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	lv-mot	↓lv	lto-tv	lto-tv
ES	CATALUNYA CENTRAL	nonag	2764	261682	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	PLANA DE VIC	nonag	806	134687	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	MARESME	nonag	501	469918	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv		
ES	COMARQUES DE GIRONA	nonag	3672	357321	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	EMPORDÀ	nonag	1346	228921	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	ALT LLOBREGAT	nonag	2090	62986	↓lv	↓lv			↓lv	↓lv				↓lv	↓lv	↓lv		
ES	PIRINEU ORIENTAL	nonag	2794	61536	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	PIRINEU OCCIDENTAL	nonag	2918	24761	↓lv	↓lv			↓lv	↓lv				↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	PREPIRINEU	nonag	2414	21319	↓lv	↓lv			↓lv	↓lv				↓lv	↓lv	↓lv	↑tv	↑tv
ES	TERRES DE Ponent	nonag	4710	333072	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	TERRES DE L'EBRE	nonag	3951	190402	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	CERVOL-ELS PORTS. ÀREA COSTERA	nonag	1213	71818	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	CERVOL-ELS PORTS. ÀREA INTERIOR	nonag	1964	16408	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	MIJARES-PENAGOLOSA . ÀREA COSTERA	nonag	1006	174349	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↑tv
ES	MIJARES-PENAGOLOSA. ÀREA INTERIOR	nonag	1221	9649	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
ES	PALANCIA-JAVALAMBRE. ÀREA COSTERA	nonag	436	119911	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	PALANCIA-JAVALAMBRE. ÀREA INTERIOR	nonag	966	22564	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
ES	TURIA. ÀREA COSTERA	nonag	1087	240299	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	TURIA. ÀREA INTERIOR	nonag	2152	44140	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↓lto

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr		Yr	Day				Yr	Yr
ES	JUCAR-CABRIEL. ÁREA COSTERA	nonag	1250	290400	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	JUCAR-CABRIEL. ÁREA INTERIOR	nonag	3950	77251	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	BÉTICA-SERPIS. ÁREA COSTERA	nonag	1777	176501	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	BÉTICA-SERPIS. ÁREA INTERIOR	nonag	2228	232787	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	SEGURA-VINALOPÓ. ÁREA COSTERA	nonag	2177	706326	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↑tv
ES	SEGURA-VINALOPO. ÁREA INTERIOR	nonag	798	152650	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
ES	CASTELLÓ	ag	109	147667	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	L'HORTA	ag	393	1217889	↓lv	↓lv			lv-mot	↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	ALACANT	ag	201	284580	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	ELX	ag	1	215137	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
ES	CÁCERES	ag	9	79306	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv		↓lv	↓lv	↑tv	↑tv
ES	BADAJOS	ag	14	132832	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv		↓lv	↓lv	lto-tv	lto-tv
ES	NÚCLEOS DE POBLACIÓN DE MÁS DE 20.000 HABITANTES	nonag	1967	173164	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv		↓lv	↓lv		
ES	EXTREMADURA RURAL	nonag	39689	688079	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	↑tv	lto-tv
ES	A CORUÑA	ag	8	243349	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv				↓lto	↓lto
ES	FERROL	ag	6	77155	↓lv	↓lv												
ES	SANTIAGO	ag	4	92919	↓lv	↓lv			lv-mot	↑mot							↓lto	↓lto
ES	LUGO	ag	5	92271	↓lv	↓lv			↓lv	↓lv							↓lto	↓lto
ES	OURENSE	ag	6	108358	↓lv	↓lv			↓lv	lv-mot							↓lto	↓lto
ES	PONTEVEDRA	ag	4	79372	↓lv	↓lv			↓lv	↓lv							↓lto	↓lto
ES	VIGO	ag	6	293725	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv				↓lto	↓lto
ES	GALICIA ZONA A (FERROL TERRA-ORTEGAL)	nonag	999	102324	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv				lto-tv	lto-tv
ES	GALICIA ZONA C (TERRA CHÁ)	nonag	10023	287326	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv			↓lv	lto-tv	lto-tv
ES	GALICIA ZONA D (VALDEORRAS)	nonag	840	28984								↓lv	↓lv					
ES	GALICIA ZONA E (A LÍMIA-MIÑO)	nonag	7458	314743														
ES	GALICIA ZONA F (SUR DAS RÍAS BAIXAS)	nonag	1892	375244	↓lv	↓lv						↑lv	↑lv				lto-tv	lto-tv
ES	GALICIA ZONA G (FRANJA FISTERRA-SANTIAGO)	nonag	3880	322176								↓lv	↓lv					
ES	GALICIA ZONA H (A MARINHA)	nonag	172	17206	↓lv	↓lv						↓lv	↓lv					
ES	B2 (FRANJA ÓRDES-EUME II)	nonag	4137	300774	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv				lto-tv	lto-tv
ES	GALICIA ZONA I-ARTEIXO	nonag	94	26272	↑lv	↑lv			↓lv	↓lv		↓lv	↓lv					

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr		Yr	Day				Yr	Yr
ES	MADRID	ag	216	2957058	↓lv	↓lv	-	-	↑mot	↑mot	-	↑lv	↑lv	↓lv	↓lv	-	lto-tv	lto-tv
ES	COMUNIDAD DE MADRID AEROPUERTO-CORREDOR DEL HENARES	ag	357	624189	↓lv	↓lv			lv-mot	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	COMUNIDAD DE MADRID SUR	ag	410	1087888	↓lv	↓lv			lv-mot	↑mot		↑lv	↑lv	↓lv	↓lv	↑lv	↑tv	↑tv
ES	COMUNIDAD DE MADRID AUTOPISTA A-6	ag	481	369248	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	COMUNIDAD DE MADRID SIERRA NORTE	nonag	2893	238210	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	COMUNIDAD DE MADRID OESTE	nonag	1694	212665	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	COMUNIDAD DE MADRID SUDESTE	nonag	1970	276584	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
ES	COMUNIDAD DE MURCIA NORTE	nonag	7169	62651														
ES	COMUNIDAD DE MURCIA CENTRO	nonag	1272	208838	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv				↑tv	↑tv
ES	COMUNIDAD DE MURCIA LITORAL	nonag	2198	146187	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv				lto-tv	↑tv
ES	VALLE DE ESCOMBRERAS	nonag	60	5221	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv		↓lv		lto-tv	lto-tv
ES	MAR MENOR	nonag	243	62651														
ES	CARTAGENA	ag	94	182733	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv		↓lv		lto-tv	lto-tv
ES	CIUDAD DE MURCIA	ag	276	522096	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv		↓lv	↓lv	↑tv	↑tv
ES	MONTAÑA DE LA COMUNIDAD DE NAVARRA	nonag	3208	40940														
ES	ZONA MEDIA DE LA COMUNIDAD DE NAVARRA	nonag	2577	52954	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv				lto-tv	↓lto
ES	RIBERA DE LA COMUNIDAD DE NAVARRA	nonag	4496	178648	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv			↓lv	↑tv	↑tv
ES	COMARCA DE PAMPLONA	ag	116	270515	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
ES	ENCARTACIONES - ALTO NERVION	nonag	969	70264	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv			↓lv	lto-tv	lto-tv
ES	BAJO NERVION	ag	378	880095	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv			↓lv	lto-tv	lto-tv
ES	KOSTALDEA	nonag	992	178703	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv			↓lv	↑tv	lto-tv
ES	DONOSTIALDEA	ag	348	373767	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv			↓lv	lto-tv	↓lto
ES	ALTO IBAIZABAL - ALTO DEBA	nonag	943	195710	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv			↓lv	lto-tv	↓lto
ES	GOIHERRI	nonag	918	147149	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv			↓lv	lto-tv	lto-tv
ES	LLANADA ALAVESA	nonag	1306	237958	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv			↓lv	lto-tv	lto-tv
ES	PAIS VASCO RIBERA	nonag	1377	17542	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv			↓lv	↑tv	↑tv
ES	ALTO VALLE DEL EBRO	nonag	422	35897														
ES	BAJO VALLE DEL EBRO	nonag	945	74353	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv			↓lv	lto-tv	lto-tv
ES	SIERRAS Y SOMONTANOS RIOJANOS	nonag	3577	39613	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv			↓lv	↑tv	lto-tv
ES	LOGROÑO	ag	80	151221	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv		↓lv	↓lv	↑tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr		Day	Yr				Yr	8hr
FI	Uudenmaan ympäristö-keskus poislukien pääkaupunkiseutu	nonag	8830	464335	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Lounais-Suomen ympäristökeskus	nonag	19557	687034	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Hämeen ympäristökeskus	nonag	11963	367485	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Pirkanmaan ympäristökeskus	nonag	15701	486547	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Kaakkois-Suomen ympäristökeskus	nonag	12830	320674	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Etelä-Savon ympäristökeskus	nonag	18768	160473	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Pohjois-Savon ympäristökeskus	nonag	20367	250052	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Pohjois-Karjalan ympäristökeskus	nonag	21584	168339	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Keski-Suomen ympäristökeskus	nonag	19762	267931	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Länsi-Suomen ympäristökeskus	nonag	26357	420888	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Pohjois-Pohjanmaan ympäristökeskus	nonag	37144	378205	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Kainuun ympäristökeskus	nonag	24452	85219	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Lapin ympäristökeskus	nonag	98987	185791	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv		↓lv	-	-
FI	Pääkaupunkiseutu (YTV-alue)	ag	766	989372	↓lv	↓lv	-	-	↓lv	lv-mot	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
FI	Koko Suomi	nonag	337069	5232345	-	-	↓lv	↓lv	-	-	↓lv	-	-	-	-	-	-	-
FI	Etelä-Suomi poislukien pääkaupunkiseutu	nonag	133769	3175367	-	-	-	-	-	-	-	-	-	-	↓lv		-	-
FI	Pohjois-Suomi	nonag	202535	1067606	-	-	-	-	-	-	-	-	-	-	↓lv		-	-
FI	Muu Suomi poislukien pääkaupunkiseutu	nonag	336304	4242973	-	-	-	-	-	-	-	-	-	-	-	-	lto-tv	lto-tv
FR	Unité urbaine de Metz	ag	326	322526	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv		↓lv	↑tv	
FR	Zone industrielle sidérurgique lorraine	nonag	256	195963	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv		↓lv	↑tv	
FR	Zone Industrielle Fos-Berre	nonag	598	292679	↑lv	↑lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
FR	Agglomération de Marseille	ag	1028	1165933	↓lv	↓lv			lv-mot	↑mot		↑lv	↓lv	↓lv	lv-mot	↓lv	↑tv	↑tv
FR	Agglomération de Toulon	ag	738	519118	↓lv	↓lv			lv-mot	↑mot		↑lv	↓lv	-	↓lv	↓lv	↑tv	↑tv
FR	Agglomération d'Avignon	ag	506	253931	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	-	↓lv	↓lv	↑tv	↑tv
FR	Département des Bouches-du- Rhône	nonag	3310	320430	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↑tv	↑tv
FR	Département du Var	nonag	5347	409287	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↑tv	↑tv
FR	Département du Vaucluse	nonag	3214	290028	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	↑tv	↑tv
FR	Agglomération de Paris	ag	2739	9469547	↓lv	↓lv			lv-mot	↑mot		↑lv	↑lv	↓lv	lv-mot	↓lv	↑tv	lto-tv
FR	Région Ile-de-France hors agglomération de Paris	nonag	9334	1191007	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
FR	Estuaire	nonag	661	308819	↑lv	↑lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
FR	agglomération de Valenciennes	ag	581	373288	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	-	-	↓lv	lto-tv	lto-tv
FR	Agglomération de Clermont- Ferrand	ag	184	267987	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
FR	Auvergne	nonag	25828	1039219	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
FR	Montpellier	ag	141	287981	↓lv	↓lv			lv-mot	↑mot		↓lv	↓lv	-	↓lv	↓lv	↑tv	↑tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
FR	Nîmes	ag	221	148889	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	-	↓lv	↓lv	↑tv	↑tv
FR	Perpignan	ag	181	162678	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv		↑tv	↑tv
FR	Reste Région	nonag	27376	1696809	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv		↑tv	↑tv
FR	LA Rochelle /Rochefort	ag	52	192100										-	-	-	-	-
FR	Poitiers/Chatellerault	ag	48	179600										-	-	-	-	-
FR	Région Poitou-Charentes	nonag	25809	1650400	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	-	-	↑tv	lto-tv
FR	Dunkerque PPA	ag	273	212790	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	-	↓lv	lto-tv	↓lto
FR	Lille	ag	425	958849	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
FR	Nord Pas-de-Calais	nonag	10264	1623199	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	-	-	↑tv	lto-tv
FR	zone PPA Toulouse	ag	1139	801505	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
FR	Région Midi-Pyrénées hors zone PPA	nonag	44310	1750182	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	↓lv	↑tv	lto-tv
FR	Agglomérations de Reims et Troyes	ag	245	338773	↓lv	↓lv			↓lv	↓lv				↓lv	↓lv	↓lv	↑tv	lto-tv
FR	Région Champagne Ardenne sans Reims et Troyes	nonag	25360	1003590	↓lv	↓lv			↓lv	↓lv				-	-	-	↑tv	lto-tv
FR	Grenoble	ag	426	455336	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
FR	Zone d'agglomération de Strabourg (CUS + Hoerd))	ag	330	456732	↓lv	↓lv			↓lv	↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
FR	Zone d'agglomération de Mulhouse + Chalampé	ag	325	244042	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv		↓lv	↓lv	↑tv	↑tv
FR	Zone territoriale Alsace	nonag	7625	1033371	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv		↓lv		↑tv	↑tv
FR	Franche-Comté	nonag	15855	825663	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	-	↓lv	↓lv	↑tv	lto-tv
FR	Communauté d'Agglomération du Grand Besançon	nonag	200	170295	↓lv	↓lv	-	-	↓lv	lv-mot	-	↓lv	↓lv		↓lv	↓lv	↑tv	lto-tv
FR	Montbéliard / Belfort	nonag	357	213224	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	-	↓lv		↑tv	↑tv
FR	Amiens Métropole	nonag	111	161000	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot		↓lv	↓lv	↓lv		↓lv	lto-tv	lto-tv
FR	Communauté d'agglo de Saint Quentin	nonag	57	69300	-	-	-	-	↓lv	↓lv		↓lv	↓lv	-	-	-	lto-tv	lto-tv
FR	Communauté d'agglo de Creil	nonag	131	97500	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	-	-	-	lto-tv	lto-tv
FR	Compiègne	nonag	134	69900	-	-	-	-	↓lv	↓lv		↓lv	↓lv	-	-	-	lto-tv	lto-tv
FR	Beauvais	nonag	70	59000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		-	-	-	-	-	lto-tv	lto-tv
FR	Chauny	nonag	61	19400	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	-	-	-	-	-	-
FR	Reste du département de la Somme	nonag	6017	368500	-	-	-	-	-	-	-	↓lv	↓lv	-	-	-	lto-tv	lto-tv
FR	Reste du département de l'Aisne	nonag	7223	401300	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	lto-tv
FR	Reste du département de l'Oise	nonag	5524	539900														
FR	RENNES	ag	558	375600	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	-		↓lv	lto-tv	lto-tv
FR	BREST	ag	218	221600	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	-		↓lv	lto-tv	
FR	LORIENT-VANNES	ag	986	293900	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	-	-	lto-tv	
FR	BRETAGNE	nonag	25446	2015100										-	-	-		
FR	Lyon	ag	987	1354843	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
FR	Région Rhône Alpes	nonag	41991	3480891	↓lv	↓lv			↓lv	↑mot	↓lv	↓lv	↓lv	-	↓lv	↓lv	↑tv	↑tv
FR	Calvados	nonag	5590	658385	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
FR	Manche	nonag	6011	481471	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	↓lv	lto-tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr		Yr	Day				Yr	Yr
FR	Orne	nonag	6139	292937	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	-	lto-tv	lto-tv
FR	Zone urbaine de FORBACH	ag	139	99700	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	↑tv	
FR	Zone industrielle Carling - Saint-Avoid - L'Hôpital	nonag	80	26627	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv		lv-mot	↓lv	↑tv	
FR	Zone territoriale LORRAINE	nonag		1428753	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	-	-	↑tv	
FR	Nantes + périmètre PPA	ag	1680	740000	↓lv	↓lv			↓lv	lv-mot	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
FR	Région pays de Loire	nonag	30610	2318500	↓lv	↓lv			↓lv	lv-mot	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
FR	Zone littorale urbanisée des Alpes Maritimes	ag	1500	963087	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot		↑lv	↑lv	-	↓lv	↓lv	↑tv	↑tv
FR	Alpes Maritimes	nonag	2100	48239	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv					↓lv		↑tv	↑tv
FR	Alpes de Haute Provence et Hautes Alpes	nonag	12660	260980	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	-	-	↓lv	-	↑tv	↑tv
FR	Rouen	ag	325	398823	↓lv	↓lv			↓lv	↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
FR	Haute-Normandie + Honfleur et Trouville	nonag	11777	1129242	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
FR	Agglomération de Dijon	ag	172	244466								↑lv		-	-	-	-	-
FR	Départ Côte d'Or + Nièvre + Yonne	nonag	22887	820708	-	-	-	-	↑mot	↑mot				-	-	-	-	-
FR	BETHUNE	ag	879	777925	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	-	↓lv	lto-tv	lto-tv
FR	Saint Etienne	ag	292	354337										-	-	-	-	-
FR	Nancy	ag	314	331363	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	-	-	↓lv	↑tv	lto-tv
FR	BORDEAUX	ag	1086	772308	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot		↓lv	↓lv		↓lv	↓lv	↑tv	↑tv
FR	LACQ	nonag	164	19508	↑lv	↑lv								-	-	-	-	-
FR	AQUITAINE	nonag	40059	2116543	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot		↑lv	↓lv	-	-	↓lv	↑tv	↑tv
FR	Saône et Loire	nonag	8565	544893	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-
FR	Tours	ag	429	298089	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
FR	Orléans	ag	335	266706	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
FR	Région Centre	nonag	39472	1875980	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	-	-	-	↑tv	lto-tv
FR	Agglomération de Limoges	ag	468	191024	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv		lto-tv	
FR	Limousin hors agglomération de Limoges	nonag	16474	519768	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	-	-	lto-tv	↑tv
FR	Agglomération Pointoise	ag	175	119492					↓lv					-	-	-	↓lto	
FR	Archipel Guadeloupe hors agglomération Pointoise	nonag	1527	303004	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FR	réunion	nonag	2500	706000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
FR	Conurbation foyalaïse	ag	189	170187	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↑lv	↓lv	-	↓lv	↓lv	↓lto	↓lto
FR	Département Martinique	nonag	993	211240										-	-	-		
FR	Commune Urbaine - Agglomération multicommunale de Cayenne - Ville Centre Cayenne	ag	29	50594	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	-	↓lto	↓lto
FR	Commune Urbaine - Ville Isolée Kourou	ag	2297	19107			-	-			-			-	-	-		
FR	Commune Urbaine - Ville Isolée Sinnamary	ag	1329	2783			-	-			-			-	-	-		

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
FR	reste du département Guyane	nonag	75925	31931			-	-			-			-	-	-		
HU	Budapest region	ag	2401	2399747	↓lv	↓lv			lv-mot	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	
HU	Győr-Mosonmagyaróvár	nonag	629	184379	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
HU	Komárom-Tatabánya-Esztergom	nonag	736	225085	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
HU	Székesfehérvár-Veszprém	nonag	617	216812	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
HU	Dunaújváros region	nonag	228	65125	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
HU	Pécs region	nonag	333	196598	↓lv	↓lv			↑mot	lv-mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
HU	Visonta region	nonag	318	51344	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
HU	Sajó valley	nonag	1106	362373	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
HU	Debrecen region	nonag	462	204722	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
HU	Other areas of the country, except the allotted cities	nonag	83994	5225977	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
HU	Allotted cities	nonag	2206	965387	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
IE	Zone A	ag	485	1050834	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	
IE	Zone B	nonag	185	178271	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	
IE	Zone C	nonag	222	299716	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	
IE	Zone D	nonag	69381	2388515	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
IT	Pescara	AG	1224	294000	↓lv	↓lv			↓lv	↑mot		↑lv	↑lv	-	lv-mot	↓lv	↑tv	
IT	Chieti	NONA G	2587	389000	↓lv	↓lv			↓lv	lv-mot		-	-	-	↓lv	↓lv	↑tv	
IT	Area urbana di Aosta	nonag	14	34403	↓lv	↓lv			lv-mot	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Fondovalle	nonag	311	84779	↓lv	↓lv			↓lv	↓lv	↓lv	-	-	-		↓lv	↑tv	↑tv
IT	Vallate laterali / alta montagna	nonag	2936	3687	-	-	-	-	↓lv	↓lv	↓lv	-	-	-	-	-	↑tv	lto-tv
IT	Area metropolitana di Perugia	nonag	416	149125	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Conca Ternana	nonag	196	105018	↓lv	↓lv	↑lv	↑lv	↓lv	lv-mot	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Ambito 1	nonag	629	207906	↓lv	↓lv			↓lv	↑mot		↑lv	↑lv	-	↓lv	↓lv	lto-tv	
IT	Ambito 2	nonag	590	278921	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
IT	Ambito 3	nonag	312	121955	-	-	-	-	-	-	-			-	-	-	-	-
IT	Ambito 4	nonag	505	256627	-	-	-	-	↓lv	↑mot		↑lv	↓lv	-	↓lv	↓lv	-	-
IT	Roma	AG	1282	2460000	↓lv	↓lv	-	-	lv-mot	↑mot	↑lv	↑lv	↑lv		lv-mot	↓lv	↑tv	↑tv
IT	Frosinone	AG	47	45000	↓lv	↓lv			lv-mot	↑mot		↑lv	↑lv	-	lv-mot	↓lv	-	-
IT	Z2	NONA G	2932	1063000	↓lv	↓lv			↑mot	↑mot		↓lv	↓lv	-	↓lv	↓lv	-	-
IT	Z3	NONA G	6771	1076000	↓lv	↓lv	-	-	↓lv	↑mot	↑lv	↓lv	↓lv	-	-	-	-	-
IT	Z4	NONA G	6145	333000	↓lv	↓lv	-	-	↓lv	↓lv	↓lv	-	-	-	-	-	-	-
IT	Z10	NONA G	14895	2517000	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
IT	Zona di Risanamento - Area Napoli e Caserta	ag	998	2974294	↓lv	↓lv			lv-mot	↑mot		↑lv	↑lv	-	↓lv	↓lv	↑tv	
IT	Zona di Risanamento - Area salernitana	ag	356	429.966	-	-	-	-	↓lv	↑mot		↓lv	↓lv	-	↓lv	↓lv	↑tv	
IT	Zona di Risanamento - Area avellinese	ag	39	63.711	-	-	-	-	↓lv	lv-mot		↑lv	↓lv	-	↓lv	↓lv	-	-

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
IT	Zona di risanamento - Area beneventana	ag	130	61.486	-	-	-	-	↓lv	lv-mot		↑lv	↓lv	-		↓lv	-	-
IT	Zona di Osservazione	ag	1273	610.346	-	-	-	-	↓lv	↑mot		↑lv	↓lv	-	↓lv	↓lv	-	-
IT	zona industriale Rossano Corigliano	nonag	345	71662	↓lv	↓lv			-	-	-	-	-	-	-	-	-	-
IT	zona urbana Crotone	nonag	180	59998	-	-	-	-	↓lv	↓lv				-		↓lv	↓lto	
IT	zona Altomonte Firmo Saracena	nonag	188	11881	-	-	-	-	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↑tv	
IT	Area urbana di Potenza	ag	1	69060	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-		↓lv	↓lto	
IT	Area Industriale melfese	nonag	1	104979	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	-		↓lv	↓lto	
IT	Zona A	nonag	817	259942	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Zona B	nonag	5390	217917	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	-	-	-	↑tv	↑tv
IT	Zona di mantenimento A-B	ag	560	1806390	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↑tv
IT	Zona di risanamento comunale	nonag	108	358598	↓lv	↓lv	-	-	lv-mot	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Zona di risanamento Livornese, Pisana e del Cuoio	ag	88	365868	↓lv	↓lv	-	-	↓lv	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Zona di risanamento della Piana Lucchese	nonag	89	125454	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Zona di risanamento dell'Area metropolitana di Firenze-Prato-Pistoia e Comprensorio Empolese	ag	188	941959	↓lv	↓lv	-	-	↑mot	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Palermo, Villabate, Bagheria, Monreale, Altofonte (A1)	ag	228	761852	↓lv	↓lv	↓lv	↓lv	lv-mot	↑mot	↓lv	↑lv	↑lv	↓lv	lv-mot	↓lv	↑tv	↑tv
IT	Termini Imerese (A2)	ag	78	26290	↓lv	↓lv			↓lv	↓lv	-	-	-	-	-	-	-	-
IT	Partinico, Isola delle Femmine, Capaci e Carini (A3)	ag	197	72603														
IT	Caltanissetta, San Cataldo (A4)	ag	493	84055	-	-	-	-	↓lv	↓lv				-		↓lv	↓lto	
IT	Gela, Butera, Niscemi (R1)	ag	671	105359	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	-	↓lv	↓lv	↓lto	
IT	Siracusa, Priolo, Melilli, Augusta, Floridia, Solarino (R2)	ag	546	206455	↑lv	↑lv	↓lv		↓lv	lv-mot	↑lv	↑lv	↑lv	-	lv-mot	↓lv	↑tv	↑tv
IT	Agrigento, Porto Empedocle, Canicatti (A5)	ag	360	100435										-	-	-		
IT	Gualtieri Sicaminò, Milazzo, Pace del Mela, San Filippo del Mela, Santa Lucia del Mela, San Pier Niceto, Condò (R3)	ag	185	53139	↑lv	↑lv	↓lv	↓lv	-	-	-	-	-	-	↓lv	-	-	-
IT	Messina (A6)	ag	211	236621	-	-	-	-	↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	↓lto	
IT	Catania, Misterbianco, Motta Santa Anastasia (A7)	ag	252	360161	↓lv	↓lv	↓lv	↓lv	lv-mot	↑mot	↑lv	↑lv	↑lv	-	↓lv	↓lv	↓lto	↓lto
IT	Ragusa (A8)	ag	442	68346														
IT	Trapani (A9)	ag	272	67456														
IT	Sicilia escluso A1→A9 e R1→R3	nonag	21774	2826219	↓lv	↓lv												
IT	Cagliari	ag	243	291324														
IT	Sassari	nonag	546	120729										-		-		
IT	Area industriale Sarroch	nonag	68	5243	↑lv	↑lv			↓lv	↓lv		↓lv	↓lv		↓lv	↓lv	↑tv	

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
IT	Area industriale Portoscuso	nonag	39	5392	↓lv	↑lv			↓lv	↓lv		↓lv	↓lv				↓lto	
IT	Area industriale Porto Torres	nonag	103	21064										-	-	-		
IT	Zona di mantenimento	nonag	23093	1195898	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	-	-	lto-tv	
IT	A (aree urbane)	ag	7133	1874530	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	-	↓lv	↓lv	↑tv	↑tv
IT	B1 (aree industriali)	nonag	346	120996	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	-	↓lv	↓lv	↑tv	
IT	B2 (aree urbano-industriali)	ag	883	351615	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	-	↓lv	↓lv	↑tv	
IT	C (aree di mantenimento)	nonag	10994	1636346	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↑tv	
IT	Torino 01	NONA G	1832	654738	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Torino 02	NONA G	4630	290635	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Torino agglomerato	ag	367	1297402	↓lv	↓lv	↓lv	↓lv	lv-mot	↑mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Vercelli 01	NONA G	587	93905	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Vercelli 02	NONA G	1496	83122	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Novara 01	NONA G	791	297863	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Novara 02	NONA G	549	57491	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Cuneo 01	NONA G	1074	267178	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Cuneo 02	NONA G	5822	304649	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Asti 01	NONA G	709	160577	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Asti 02	NONA G	802	53628	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Alessandria 01	NONA G	1162	305413	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Alessandria 02	NONA G	2400	125933	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Biella 01	NONA G	419	138014	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Biella 02	NONA G	495	49605	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Verbania 01	NONA G	433	115066	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Verbania 02	NONA G	1829	46514	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	Unica (Milano/Como/Sempione)	ag	1057	3361921			-	-	lv-mot	↑mot	-	↑lv	↑lv	-		↓lv	↑tv	
IT	Bergamo	ag	195	298120	↓lv	↓lv	-	-	lv-mot	↑mot	-	↑lv	↑lv	-		↓lv	lto-tv	
IT	Brescia	ag	398	368642	↓lv	↓lv	-	-	↓lv	lv-mot	-	↑lv	↑lv	-	↓lv	↓lv	↑tv	
IT	Cremona	ag	70	72129	↓lv	↓lv	-	-	↓lv	lv-mot	-	↑lv	↑lv	-		↓lv	-	-
IT	Mantova	ag	64	49064	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	-		↓lv	↑tv	
IT	Sondrio	ag	21	22045	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	-		↓lv	-	-

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
IT	Lecco	ag	45	45324	↓lv	↓lv	-	-	↓lv	↑mot	-	↑lv	↓lv	-		↓lv	-	-
IT	Varese	ag	55	84187	↓lv	↓lv	-	-	↓lv		-	↑lv	↓lv	-		↓lv	↑tv	
IT	Lodi	ag	42	41990	↓lv	↓lv	-	-	↓lv	lv-mot	-	↑lv	↑lv	-	↓lv	↓lv	-	-
IT	Pavia	ag	63	74065	↓lv	↓lv	-	-	lv-mot	↑mot	-	↑lv	↑lv	-			↑tv	
IT	Zona risanamento A	nonag	5408	2420527	↓lv	↓lv	-	-			-	↑lv	↑lv	-		↓lv	↑tv	↑tv
IT	Zona risanamento B	nonag	7511	557352	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	-	-	-	↑tv	↑tv
IT	Zona mantenimento	nonag	13520	1591433	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↑lv	-		↓lv	↑tv	↑tv
IT	Comune di Genova	ag	244	610307	↓lv	↓lv	-	-	↓lv	↑mot	-	↑lv	↑lv	-	lv-mot	↑lv		
IT	Aree urbane con fonti emittenti miste - Savonese -	nonag	138	74930	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	-	↓lv	↓lv	-	-
IT	Aree urbane con fonti emittenti miste -La Spezia -	nonag	51	91391	↓lv	↓lv	-	-	↓lv	↑mot	-	↓lv	↓lv	-	↓lv	↓lv	-	-
IT	Aree urbane in cui prevale la fonte traffico	nonag	566	349964	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	-	↓lv	↓lv	-	-
IT	Aree urbane in cui prevale la fonte produttiva-Bormida-	nonag	122	21327	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	-	↓lv	↓lv	-	-
IT	Aree urbane in cui prevale la fonte produttiva-Busalla-	nonag	17	5943	↓lv	↓lv	-	-	↓lv	↑mot	-	↑lv	↑lv	-	↓lv	↓lv	-	-
IT	Zona di mantenimento con pressione antropica non trascurabile	nonag	313	140017	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	-	↓lv	↓lv	-	-
IT	Zona di mantenimento con bassa pressione antropica	nonag	3969	277904	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	-	-
IT	Zona A per l'ozono	ag	382	685237	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
IT	Zona B per l'ozono	nonag	5416	886546	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
IT	Comune di Udine	nonag	57	96402	↓lv	↓lv	-	-	↓lv	↑mot	-	↓lv	↓lv	-	↓lv	↓lv	↑tv	-
IT	Comune di Trieste	nonag	98	223515	↓lv	↓lv	-	-	lv-mot	↑mot	-	↓lv	↓lv	-		↓lv	↑tv	-
IT	Area Centrale ENEL Monfalcone	nonag	21	27743	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	-		↓lv	↑tv	-
IT	Zona di mantenimento ai fini ecosistemi	nonag	193	2593	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	-	-	-	↑tv	-
IT	Zona di mantenimento ai fini della salute umana	nonag	4802	169060	↓lv	↓lv	-	-	↓lv	lv-mot	-	↓lv	↓lv	-		↓lv	↑tv	-
IT	Zona A Provincia di Piacenza	nonag	1325	232557	↓lv	↓lv			↓lv	↓lv	-	-	-	-	-	-	-	-
IT	Zona B Provincia di Piacenza	nonag	1265	30752							-	-	-	-	-	-	-	-
IT	Agglomerato R1 Piacenza	ag	734	187491	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	-		↓lv	↑tv	-
IT	Zona A Provincia di Parma	nonag	1567	342005	-	-	-	-				-	-	-	-	-	-	-
IT	Zona B Provincia di Parma	nonag	1882	42984	-	-	-	-				-	-	-	-	-	-	-
IT	Agglomerato R2 Parma	ag	749	242621	↓lv	↓lv			↓lv	lv-mot		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
IT	Zona A Provincia di Reggio Emilia	nonag	1321	409638	-	-	-	-	↓lv	lv-mot		-	-	-		↓lv	-	-
IT	Zona B Provincia di Reggio Emilia	nonag	969	43401	-	-	-	-	↓lv	↓lv		-	-	-		↓lv	-	-
IT	Agglomerato R3 Reggio Emilia	ag	599	262039	↓lv	↓lv			↓lv	↑mot		↓lv	↓lv	-		↓lv	↑tv	-
IT	Zona A Provincia di Modena	nonag	1474	565698	-	-	-	-	↓lv	↑mot		-	-	-		↓lv	-	-
IT	Zona B Provincia di Modena	nonag	1215	62482	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot		-	-	-	-	-	-	-
IT	Agglomerato R4 Modena	Ag	648	326494	-	-	-	-	↓lv	↑mot		↑lv	↑lv	-	↓lv	↓lv	↑tv	-
IT	Agglomerato R5 Fiorano Modenese	Ag	194	108547	-	-	-	-	lv-mot	↑mot		-	-	-	↓lv	↓lv	-	-
IT	Zona A Provincia di Bologna	nonag	2311	819258														
IT	Zona B Provincia di Bologna	nonag	1391	91334	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	-	-	-	-	-	-
IT	Agglomerato R6 Bologna	ag	738	550630	-	-	-	-	↓lv	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	-
IT	Agglomerato R7 Imola	ag	205	64021	-	-	-	-	↓lv	lv-mot		↑lv	↓lv	-		↓lv	-	-
IT	Zona A Provincia di Ferrara	nonag	1494	245612	-	-	-	-	↓lv	lv-mot		-	-	-		↓lv	-	-
IT	Zona B Provincia di Ferrara	nonag	1139	97092	-	-	-	-	↓lv	↓lv	↓lv	↓lv	↓lv	-	-	-	↑tv	↑tv
IT	Agglomerato R8 Ferrara	ag	404	130461	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	-		↓lv	-	-
IT	Zona A Provincia di Ravenna	nonag	1535	335212								-	-	-			-	-
IT	Zona B Provincia di Ravenna	nonag	323	15667	-	-	-	-	-	-	-	-	-	-	-		-	-
IT	Agglomerato R9 Ravenna	ag	653	138204	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv		↓lv	↓lv	↑tv	
IT	Agglomerato R10 Faenza	ag	248	61581	↓lv	↓lv			↓lv	lv-mot		↑lv	↑lv	-		↓lv	-	-
IT	Zona A Provincia di Forlì-Cesena	nonag	769	295031														
IT	Zona B Provincia di Forlì-Cesena	nonag	1608	61296														
IT	Agglomerato R11 Forlì/Cesena	ag	590	233186					↓lv	↓lv		↑lv	↓lv	-	↓lv	↓lv	↑tv	-
IT	Zona A Provincia di Rimini	nonag	377	257823														
IT	Zona B Provincia di Rimini	nonag	157	12707														

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
IT	Agglomerato R13 Rimini	ag	290	229438	-	-	-	-	↓lv	↓lv		↑lv	↑lv	-		↓lv	↑tv	-
IT	Montagne	nonag	6562	123343	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
IT	pendici e valli laterali	nonag	445	47962	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	-	-
IT	valli principali	nonag	195	69918	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	-	-
IT	città ed autostrada	ag	198	199132	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv		
IT	NORD	nonag	5915	193233	-	-	-	-	-	-	-	-	-	-	-	-	lto-tv	lto-tv
IT	SUD	nonag	1485	247122	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
IT	rilievi	nonag	6768		-	-	-	-	-	-	↓lv	-	-	-	-	-	-	-
IT	fondovalle	nonag	632		-	-	-	-	-	-	↑lv	-	-	-	-	-	-	-
IT	A	ag	1727	1153959	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↑lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	B	nonag	831	339658	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
IT	C2	nonag	178	66505	↓lv	↓lv	↓lv		↓lv	↓lv				-		↓lv	lto-tv	-
IT	C3	nonag	15533	2924591	↓lv	↓lv	↓lv			↓lv		-	-	-		↓lv	↓lto	-
LT	Vilnius	ag	400	553061	↓lv	↓lv			lv-mot	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
LT	Kaunas	ag	157	364059	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↓lto	
LT	Lietuva	nonag	64743	2508204	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
LV	Riga	ag	307	729924	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	-	↓lv	↓lv	↓lto	
LV	Latvia	nonag	64282	1569638	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv		lto-tv	↓lto
MT	Maltese Agglomeration	ag	39	274482	↑lv	↑lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
MT	Maltese Zone	nonag	276	116933	-	-	-	-	-	-	-	-	-	-	-	-	↑tv	↑tv
NL	Noord	nonag	13486	2804377	↓lv	↓lv			lv-mot	↑mot	↓lv	↑lv	↑lv	↓lv	-	↓lv	lto-tv	lto-tv
NL	Midden	nonag	10371	4834110	↓lv	↓lv			↓lv	↑mot	-	↑lv	↑lv	↓lv	-	↓lv	lto-tv	lto-tv
NL	Zuid	nonag	8571	3258128	↓lv	↓lv			lv-mot	↑mot	-	↑lv	↑lv	↓lv	-	↓lv	lto-tv	lto-tv
NL	Amsterdam/Haarlem	ag	830	1530779	↓lv	↓lv			↓lv	↑mot	-	↑lv	↑lv	-	-	↓lv	lto-tv	↓lto
NL	Utrecht	ag	236	447817	↓lv	↓lv			↓lv	↑mot	-	↑lv	↑lv	-	↓lv	↓lv	lto-tv	↓lto
NL	Den Haag/Leiden	ag	421	1075402	↓lv	↓lv			↓lv	↑mot	-	↑lv	↑lv	-	-	↓lv	lto-tv	lto-tv
NL	Rotterdam/Dordrecht	ag	586	1280286	↓lv	↓lv			lv-mot	↑mot	-	↑lv	↑lv		↓lv	↓lv	lto-tv	lto-tv
NL	Eindhoven	ag	276	425247	↓lv	↓lv			↓lv	↑mot	-	↑lv	↑lv	-	-	↓lv	lto-tv	↓lto
NL	Heerlen/Kerkrade	ag	174	241982	↓lv	↓lv			↓lv	↑mot	-	↑lv	↓lv	-	-	↓lv	lto-tv	lto-tv
PL	Aglomeracja Wroclawska	ag	293	636095	↓lv	↓lv	-	-	↓lv	lv-mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
PL	Powiat bolesławiecki	nonag	1303	88318		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat dzierzoniowski	nonag	479	105366	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat głogowski	nonag	443	87675	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat górowski	nonag	738	36630		↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat jaworski	nonag	581	52279		↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat jeleniogórski	nonag	628	63945	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kamiennogórski	nonag	396	46699		↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kłodzki	nonag	1643	167618	↓lv	↓lv	↓lv		↓lv	lv-mot	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat legnicki	nonag	745	52996	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lubański	nonag	428	57176	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lubiński	nonag	712	105952		↓lv	↓lv			↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lwówecki	nonag	710	48413		↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Jelenia Góra	nonag	108	87394	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Legnica	nonag	56	105969	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x		PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	Yr	8hr	Hlth	Veg
PL	Powiat milicki	nonag	715	36894		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat oleśnicki	nonag	1050	103192		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat olawski	nonag	524	71087		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat polkowicki	nonag	780	61024		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat strzebiński	nonag	622	44310		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat średzki	nonag	704	49153		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat świdnicki	nonag	743	160688		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat trzebnicki	nonag	1026	77166		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wałbrzyski	nonag	514	186104	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wołowski	nonag	675	47575		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wrocławski	nonag	1116	100164		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ząbkowicki	nonag	802	69644		↓lv	↓lv			lv-mot	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat zgorzelecki	nonag	838	94981	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat złotoryjski	nonag	575	45939		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Aglomeracja Bydgoska	ag	174	366891	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	lv-mot	↓lv	↓lv	lto-tv	
PL	Powiat aleksandrowski	nonag	476	55174	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat brodnicki	nonag	1039	75019	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat bydgoski	nonag	1395	94395	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat chełmiński	nonag	528	51538	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat golubsko-dobrzyński	nonag	613	45103	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat grudziądzki	nonag	728	38478	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat inowrocławski	nonag	1225	165823	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lipnowski	nonag	1016	66147	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Grudziądz	nonag	59	99473	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Toruń	nonag	116	207828	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Włocławek	nonag	85	119922	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↑lv	↓lv	↓lv	↓lv	↑lv	lto-tv	
PL	Powiat mogileński	nonag	676	46972	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nakielski	nonag	1120	84682	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat radziejowski	nonag	607	42343	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat rypiński	nonag	587	44344	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sepołęński	nonag	791	40874	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat świecki	nonag	1473	97117	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat toruński	nonag	1230	88417	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat tucholski	nonag	1075	47194	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wąbrzeski	nonag	501	34950	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat włocławski	nonag	1472	85564	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat żniński	nonag	985	69732	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Aglomeracja Lubelska	ag	148	355998	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat bialski	nonag	2754	114449		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat biłgorajski	nonag	1678	104648		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat chełmski	nonag	1780	73880		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat hrubieszowski	nonag	1269	69476		↓lv	↓lv			↓lv	↓lv	↓lv			↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat janowski	nonag	875	48156		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat krasnostawski	nonag	1138	76797		↓lv	↓lv			↓lv	↓lv	↓lv			↓lv	↓lv	↓lv	lto-tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
PL	Powiat kraśnicki	nonag	1005	100260		↓lv	↓lv			↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lubartowski	nonag	1290	90878		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lubelski	nonag	1679	138964		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat łęczyński	nonag	634	57273		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat łukowski	nonag	1394	108779		↓lv	↓lv			↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Biała Podlaska	nonag	49	58047		↓lv	-	-		↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Chełm	nonag	35	68611		↓lv	-	-		↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Zamość	nonag	30	66747		↓lv	-	-		↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat opolski	nonag	804	63104		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat parczewski	nonag	953	36820		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat puławski	nonag	933	117331		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat radzyński	nonag	965	61750		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat rycki	nonag	616	60085		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat świdnicki	nonag	469	72301		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat tomaszowski	nonag	1487	89441		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat włodawski	nonag	1256	40534		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat zamojski	nonag	1872	110827		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gorzowski	nonag	1213	63830	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat krośnieński	nonag	1390	56701	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Gorzów Wielkopolski	nonag	86	125780	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Zielona Góra	nonag	58	118730	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat międzyszyrecki	nonag	1388	58538	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nowosolski	nonag	771	86799	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat słubicki	nonag	1000	47091	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat strzelecko-drezdenecki	nonag	1248	50372	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sulęciński	nonag	1177	35449	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat świebodziński	nonag	937	56311	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wschowski	nonag	625	38768	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat zielonogórski	nonag	1571	88377	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat zagański	nonag	1131	82819	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat żarski	nonag	1393	99221	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Aglomeracja Łódzka	ag	424	958764	↓lv	↓lv	-	-	↓lv	lv-mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	
PL	Powiat bełchatowski	nonag	969	112323		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat brzeziński	nonag	359	30787		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat kutnowski	nonag	886	107135		↓lv	↓lv			lv-mot	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat łaski	nonag	617	51300		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat łęczycki	nonag	774	54757		↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat łowicki	nonag	987	83584		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat łódzki wschodni	nonag	499	62801		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat m. Piotrków Trybunalski	nonag	67	80923		↓lv	-	-		↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Skierniewice	nonag	33	48688		↓lv	-	-		↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	
PL	Powiat opoczyński	nonag	1039	79606		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat pabianicki	nonag	491	119909		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat pajęczański	nonag	804	54342		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
PL	Powiat piotrkowski	nonag	1429	90259	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat poddębicki	nonag	881	43144		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat radomszczański	nonag	1443	120328		↓lv	↓lv			↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat rawski	nonag	647	49979		↓lv	↓lv			lv-mot	↓lv		↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat sieradzki	nonag	1491	122560		↓lv	↓lv			↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat skierniewicki	nonag	756	38433		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat tomaszowski	nonag	1026	122175		↓lv	↓lv			↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat wieluński	nonag	928	78891		↓lv	↓lv			↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat wieruszowski	nonag	576	42592		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat zduńskowolski	nonag	369	67984		↓lv	↓lv			↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat zgierski	nonag	854	159746		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Aglomeracja Krakowska	ag	327	740737	↓lv	↓lv	-	-	↓lv	↑mot	-	↑lv	↑lv	↓lv	lv-mot	↓lv	lto-tv	
PL	Powiat bocheński	nonag	631	98563	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat brzeski	nonag	590	90106	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat chrzanowski	nonag	371	130666	↓lv	↑lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat dąbrowski	nonag	527	58934	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gorlicki	nonag	967	108420	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat krakowski	nonag	1230	237238	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat limanowski	nonag	952	119575	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Nowy Sącz	nonag	57	84465	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Tarnów	nonag	72	121091	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat miechowski	nonag	677	52514	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat myślenicki	nonag	673	114005	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nowosądecki	nonag	1550	194594	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nowotarski	nonag	1475	180666	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat olkuski	nonag	622	123526	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat oświęcimski	nonag	394	154616	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat proszowicki	nonag	415	44804	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat suski	nonag	686	81552	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	lv-mot	↓lv	lto-tv	lto-tv
PL	Powiat tarnowski	nonag	1334	181972	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat tatrzański	nonag	472	66212	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wadowicki	nonag	658	155529	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wielicki	nonag	428	101143	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Aglomeracja Warszawska	ag	494	1615369	↓lv	↓lv	-	-	↓lv	↑mot	-	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat białobrzeski	nonag	639	34233	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ciechanowski	nonag	1063	93921	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat garwoliński	nonag	1284	108793	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gostyniński	nonag	616	49393	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat grodziski	nonag	367	73226	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat grójecki	nonag	1383	108522	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kozienicki	nonag	917	66411	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat legionowski	nonag	393	89559	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lipski	nonag	748	40270	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat łosicki	nonag	772	34684	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
PL	Powiat m. Ostrołęka	nonag	29	55659	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Plock	nonag	88	130609	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Radom	nonag	112	230836	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Siedlce	nonag	32	76820	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat makowski	nonag	1065	49363	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat miński	nonag	1187	153033	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat mławski	nonag	1171	75871	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nowodworski	nonag	688	74565	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ostrołęcki	nonag	2099	84976	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ostrowski	nonag	1225	78657	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat otwocki	nonag	615	112783	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat piaseczyński	nonag	507	111455	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat plocki	nonag	1799	107471	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat płoński	nonag	1384	90639	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat pruszkowski	nonag	246	137804	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat przasnyski	nonag	1218	55225	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat przysuski	nonag	801	46774	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat pułtuski	nonag	830	51673	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat radomski	nonag	1530	144233	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat siedlecki	nonag	1603	81693	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sierpecki	nonag	853	55983	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sochaczewski	nonag	731	84936	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	lto-tv	lto-tv
PL	Powiat sokołowski	nonag	1131	60663	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sztydlowiecki	nonag	469	42859	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat warszawski zachodni	nonag	533	90006	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat węgrowski	nonag	1219	70794	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wołomiński	nonag	955	185770	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wyszkowski	nonag	876	72170	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat zwoleński	nonag	571	38342	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat żuromiński	nonag	805	42079	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat żyrardowski	nonag	533	76473	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat brzeski	nonag	877	93993		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat głubczycki	nonag	673	53234		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kędzierzyński-kozielski	nonag	625	108599	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↑mot	↓lv	↑tv	lto-tv
PL	Powiat kluczborski	nonag	852	72193		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat krapkowicki	nonag	442	72531	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Opole	nonag	96	128591	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat namysłowski	nonag	748	44532		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nyski	nonag	1224	149264		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat oleski	nonag	974	70974		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat opolski	nonag	1587	138860		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat prudnicki	nonag	571	62308		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat strzelecki	nonag	744	85426		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat bieszczadzki	nonag	1138	22337	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x		PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	Yr	8hr	Hlth	Veg
PL	Powiat brzozowski	nonag	540	65716	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat dębicki	nonag	776	132124	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat jarosławski	nonag	1029	122122	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat jasielski	nonag	831	115518	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kolbuszowski	nonag	774	61495	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat krośnieński	nonag	924	109081	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat leski	nonag	835	26680	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat leżajski	nonag	583	69221	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lubaczowski	nonag	1308	57737	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat łańcucki	nonag	452	77541	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Krosno	nonag	43	48025	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Przemysł	nonag	44	67547	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Rzeszów	nonag	54	159088	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Tarnobrzeg	nonag	86	50310	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat mielecki	nonag	880	135299	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nizański	nonag	786	67594	↓lv	↓lv	↓lv		↓lv	lv-mot	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat przemyski	nonag	1214	72274	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat przeworski	nonag	698	79740	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ropczycko-sędziszowski	nonag	549	71564	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat rzeszowski	nonag	1219	168903	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sanocki	nonag	1225	95738	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat stalowowolski	nonag	833	114908	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat strzyżowski	nonag	503	62633	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat tarnobrzęski	nonag	520	55826	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Aglomeracja Białostocka	ag	90	286365	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat augustowski	nonag	1658	60920	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat białostocki	nonag	2987	139854		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat bielski	nonag	1385	62605		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat grajewski	nonag	967	51569	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat hajnowski	nonag	1624	52223	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kolneński	nonag	940	41093		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat łomżyński	nonag	1354	51199		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Łomża	nonag	33	65265	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Suwałki	nonag	65	69054	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat moniecki	nonag	1384	45226		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sejneński	nonag	856	21958		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat siemiatycki	nonag	1460	51452		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sokółski	nonag	2054	77411		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat suwalski	nonag	1308	35753		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wysokomazowiecki	nonag	1282	61618		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat zambrowski	nonag	733	46314		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Aglomeracja Trójmiejska	ag	415	755528	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat bytowski	nonag	2193	75246	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat chojnicki	nonag	1364	90635	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x		PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	Yr	8hr	Hlth	Veg
PL	Powiat człuchowski	nonag	1574	57048	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gdański	nonag	793	81676	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kartuski	nonag	1120	105376	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kościerski	nonag	1166	65989	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kwidzyński	nonag	835	80273	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lęborski	nonag	707	63561	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Słupsk	nonag	43	99247	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat malborski	nonag	494	62968	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nowodworski	nonag	653	35729	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat pucki	nonag	575	72292	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat słupski	nonag	2304	92046	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat starogardzki	nonag	1345	120931	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sztumski	nonag	731	41964	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat tczewski	nonag	698	112187	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wejherowski	nonag	1283	176224	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Częstochowa	nonag	160	248000	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Aglomeracja Górnośląska	ag	1217	2016000	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	lv-mot	↓lv	↓lv	lto-tv	
PL	Aglomeracja Rybnicko-Jastrzębska	ag	298	300700	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	lv-mot	↓lv	↓lv	lto-tv	
PL	Powiat będziński	nonag	354	151300		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat bielski	nonag	457	149400		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	lto-tv	lto-tv
PL	Powiat bieruńsko-lędzki	nonag	157	55800		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat cieszyński	nonag	732	170400	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat częstochowski	nonag	1519	133900	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑tv	lto-tv
PL	Powiat gliwicki	nonag	663	115600		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kłobucki	nonag	889	84800	↓lv	↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lubliniecki	nonag	822	76800		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Bielsko-Biała	nonag	125	176900	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↑lv	↓lv	lv-mot	↓lv	↓lv	lto-tv	
PL	Powiat mikołowski	nonag	232	90700		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat myszkowski	nonag	479	72100	↓lv	↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat pszczyński	nonag	473	104100		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat raciborski	nonag	544	112600		↓lv	↓lv			↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat rybnicki	nonag	225	73400		↓lv	↓lv			↓lv	↓lv	↑lv	↑lv	↓lv	lv-mot	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat tarnogórski	nonag	643	138600		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wodzisławski	nonag	287	155100	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat zawierciański	nonag	1003	124900	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat żywiecki	nonag	1040	149400	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat buski	nonag	967	74457		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat jędrzejowski	nonag	1258	89716	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kazimierski	nonag	422	36179		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kielecki	nonag	2248	197467	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat konecki	nonag	1140	84716		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Kielce	nonag	109	209455	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat opatowski	nonag	912	57123		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ostrowiecki	nonag	616	116904		↓lv	↓lv			↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x		PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	Yr	8hr	Hlth	Veg
PL	Powiat pińczowski	nonag	610	42450		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sandomierski	nonag	676	82279		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat skarżyski	nonag	395	80879		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat starachowicki	nonag	524	95149		↓lv	↓lv			↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat staszowski	nonag	925	74460		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat włoszczowski	nonag	906	47459		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat bartoszycki	nonag	1309	62023		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat braniewski	nonag	1205	44299	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat działdowski	nonag	953	65298		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat elbląski	nonag	1431	56429	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat elcki	nonag	1112	84077		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat giżycki	nonag	2017	56926		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gołdapski	nonag	755	27179	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat iławski	nonag	1385	89734		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kętrzyński	nonag	1213	67110		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat lidzbarski	nonag	924	43299	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Elbląg	nonag	80	127732	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Olsztyn	nonag	88	173350	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat mrągowski	nonag	1065	50339	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nidzicki	nonag	961	34039	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nowomiejski	nonag	695	43438	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat olecki	nonag	1776	34269	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat olsztyński	nonag	2840	112102	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ostródzki	nonag	1765	105683	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat piski	nonag	1776	57616	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat szczycieński	nonag	1933	69536		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat węgorzewski	nonag	693	23907	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Aglomeracja Poznańska	ag	261	571985	↓lv	↓lv	-	-	↓lv	↓lv	-	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat chodzieski	nonag	680	47503		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat czarnkowsko-trzcianecki	nonag	1808	87725		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gnieźnieński	nonag	1254	141773		↓lv	↓lv			↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gostyński	nonag	810	76484		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat grodziski	nonag	644	48846		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat jarociński	nonag	588	71136		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kaliski	nonag	1160	80783		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kępiński	nonag	608	55599		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kolski	nonag	1011	91168		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat koniński	nonag	1579	121740		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kościański	nonag	723	78375		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat krotoszyński	nonag	714	77796		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat leszczyński	nonag	805	48774		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Kalisz	nonag	70	107673		↓lv	-	-		↓lv	-	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Konin	nonag	82	83377	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Leszno	nonag	32	63310		↓lv	-	-		↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr		Yr	Yr	Day	Yr	Yr	Yr	8hr	H1h	Veg
PL	Powiat międzychodzki	nonag	737	36717		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat nowotomyski	nonag	1012	71705		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat obornicki	nonag	713	55974		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ostrowski	nonag	1161	160154		↓lv	↓lv			↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat ostrzeszowski	nonag	772	54686		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat pilski	nonag	1268	138529	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat pleszewski	nonag	712	62219		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat poznański	nonag	1900	259418		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat rawicki	nonag	553	59653		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat słupecki	nonag	838	60096		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat szamotulski	nonag	1120	86067		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat średzki	nonag	623	55010		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat śremski	nonag	575	58599		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat turecki	nonag	929	85126		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wągrowiecki	nonag	1041	68252		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wolsztyński	nonag	680	55043		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat wrzesiński	nonag	704	74251		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat złotowski	nonag	1661	70474		↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Aglomeracja Szczecińska	ag	301	411900	↓lv	↓lv	-	-	↓lv	lv-mot	-	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat białogardzki	nonag	845	48300	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat choszczeński	nonag	1328	50300	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat drawski	nonag	1765	58500	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat goleniowski	nonag	1617	78100	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gryficki	nonag	1018	60900	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat gryfiński	nonag	1870	82900	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kamieński	nonag	1007	47900	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat kołobrzeski	nonag	726	75900	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat koszaliński	nonag	1669	63700	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat łobeski	nonag	1066	38400	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat m. Koszalin	nonag	83	107700	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat m. Świnoujście	nonag	195	41200	↓lv	↓lv	-	-	↓lv	↓lv	-	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	
PL	Powiat myśliborski	nonag	1181	67300	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat policki	nonag	664	62500	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat pyrzycki	nonag	726	40100	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat sławieński	nonag	1044	57800	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat stargardzki	nonag	1519	119900	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat szczecinecki	nonag	1765	77300	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat świdwiński	nonag	1093	49200	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PL	Powiat walecki	nonag	1414	54900	↓lv	↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
PT	Braga	nonag	84	114259	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	lto-tv	
PT	Vale do Ave	ag	399	322444	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	-	↓lv	↓lv	lto-tv	
PT	Vale do Sousa	nonag	192	127981	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	-	↓lv	↓lv	↑tv	
PT	Porto Litoral	ag	714	1253224	↓lv	↓lv			lv-mot	lv-mot		↑lv	↑lv	-	↓lv	↓lv	lto-tv	
PT	Norte Litoral	nonag	5030	1011201	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	↑tv	↑tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr		Yr	Day				Yr	Yr
PT	Norte Interior	nonag	14830	643606	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv	↓lv	↑tv	
PT	Aveiro/Ílhavo	nonag	120	72.169	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	-		↓lv	lto-tv	
PT	Coimbra	nonag	63	86751	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-		↓lv	↑tv	
PT	Zona de Influência de Estarreja	nonag	631	135485	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	-			↑tv	
PT	Centro Litoral	nonag	5424	660132	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-			↑tv	
PT	Centro Interior	nonag	17395	767113	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-			↑tv	
PT	Área Metropolitana de Lisboa Norte	ag	482	1740288	↓lv	↓lv			lv-mot	↑mot		↑lv	↑lv	-	↓lv	↓lv	lto-tv	
PT	Área Metropolitana de Lisboa Sul	ag	217	422436	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	-	↓lv	↓lv	lto-tv	
PT	Setúbal	nonag	51	85289	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	-	↓lv	↓lv	↑tv	
PT	Vale do Tejo e Oeste	nonag	9645	910014					↓lv	↓lv	↓lv	↓lv	↓lv	-			↑tv	↑tv
PT	Península de Setúbal/ Álcacer do Sal	nonag	2698	147280										-	-	-	-	-
PT	Alentejo Litoral	nonag	3799	84007	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-			↑tv	
PT	Alentejo Interior	nonag	21903	450843	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-				↓lto
PT	Portimão/Lagoa	nonag	152	165350	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	-	↓lv	↓lv	lto-tv	
PT	Albufeira/Loulé	nonag	135	196444	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	↑tv	
PT	Faro/Olhão	nonag	152	99483	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-	↓lv	↓lv	lto-tv	↓lto
PT	Algarve	nonag	4502	186249	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	-	↓lv		↑tv	↑tv
PT	Funchal	nonag	102	149527	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-		↓lv	↓lto	
PT	Madeira/ Porto Santo	nonag	641	86188	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	-		↓lv	↓lto	
PT	Açores	nonag	2329	237795										-				
PT	Portugal	nonag	88639	9833408	-	-	-	-	-	-	-	-	-	↓lv	-	-	-	-
SE	Zone North	nonag	271849	1435000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
SE	Zone Middle	nonag	59601	2041000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
SE	Zone South	nonag	73804	2736000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
SE	Stockholm	ag	2903	1604000	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	↓lto
SE	Göteborg	ag	1892	713000	↓lv	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
SE	Malmö	ag	912	453000	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
SI	Panonsko	nonag	3360	316728	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv				↑tv	↑tv
SI	Alpsko in Panonsko	nonag	4574	440871	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↑lv			↓lv	↑tv	↑tv
SI	Velenjska kotlina	nonag	197	45200	↑lv	↑lv	↑lv	↑lv	-	-	-	-	-	-	-	-	-	-
SI	Zasavje	nonag	264	45360	↑lv	↑lv	↑lv	↑lv	-	-	-	-	-	-	-	-	-	-
SI	Spodnjesavsko	nonag	345	28060	↑lv	↑lv	↑lv	↑lv	-	-	-	-	-	-	-	-	-	-
SI	Alpsko - Dinarsko	nonag	7092	550496	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv			↑tv	↑tv
SI	Sredozemsko	nonag	4825	270824	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv			↓lv	↑tv	↑tv
SI	Maribor	ag	147	114890	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lto	↓lto
SI	Ljubljana	ag	275	270227	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
SK	BRATISLAVA	ag	368	425459	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
SK	Bratislavský kraj	nonag	1685	178240														
SK	KOŠICE	ag	245	234871	↓lv	↓lv			↓lv	↓lv		↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
SK	Košický kraj	nonag	6508	537076	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
SK	Trnavský kraj	nonag	4148	554172	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
SK	Banskobystrický kraj	nonag	9455	657119	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv		↓lv	↑tv	↑tv

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr		Yr	Day				Yr	Yr
SK	Nitriansky kraj	nonag	6343	708498	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	lv-mot	↓lv	-	-
SK	Trenčiansky kraj	nonag	4502	600386	↓lv	↓lv			↓lv	↓lv		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
SK	Prešovský kraj	nonag	8993	798596	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	↑tv	↑tv
SK	Žilinský kraj	nonag	6788	694763	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	↑tv	↑tv
UK	Greater London Urban Area	ag	1628	8278251	↓lv	↓lv			↑mot	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	West Midlands Urban Area	ag	594	2284093	↓lv	↓lv			↓lv	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Greater Manchester Urban Area	ag	557	2244931	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	West Yorkshire Urban Area	ag	363	1499465	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Tyneside	ag	217	879996	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Liverpool Urban Area	ag	184	816216	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Sheffield Urban Area	ag	165	640720	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Nottingham Urban Area	ag	169	666358	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Bristol Urban Area	ag	142	551066	↓lv	↓lv			lv-mot	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Brighton/Worthing/Littlehampton	ag	97	461181	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	Leicester Urban Area	ag	102	441213	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Portsmouth Urban Area	ag	91	442252	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	Teesside Urban Area	ag	111	365323	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	The Potteries	ag	91	362403	↓lv	↓lv			↓lv	↑mot		↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Bournemouth Urban Area	ag	113	383713	↓lv	↓lv			↓lv	lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	Reading/Wokingham Urban Area	ag	97	369804	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	Coventry/Bedworth	ag	76	336452	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Kingston upon Hull	ag	80	301416	↓lv	↓lv				↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Southampton Urban Area	ag	77	304400	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	Birkenhead Urban Area	ag	88	319675	↓lv	↓lv				lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Southend Urban Area	ag	64	269415	↓lv	↓lv			↓lv	↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	Blackpool Urban Area	ag	63	261088	↓lv	↓lv				↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Preston Urban Area	ag	58	264601	↓lv	↓lv				lv-mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Glasgow Urban Area	ag	366	1168270	↓lv	↓lv			↓lv	↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
UK	Edinburgh Urban Area	ag	117	452194	↓lv	↓lv			↓lv	↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
UK	Cardiff Urban Area	ag	72	327706	↓lv	↓lv				↑mot		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Swansea Urban Area	ag	84	270506	↓lv	↓lv			↓lv	↓lv		↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	Belfast Metropolitan Urban Area	ag	193	580276	↓lv	↓lv				↑mot		↑lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
UK	Eastern	nonag	19113	4850132	↑lv	↑lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↑lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	South West	nonag	23506	3980991	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	South East	nonag	18645	6016677	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	East Midlands	nonag	15491	3084598	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	North West & Merseyside	nonag	13149	2826622	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Yorkshire & Humberside	nonag	14787	2514947	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	lv-mot	↓lv	lto-tv	lto-tv
UK	West Midlands	nonag	12192	2271650	↓lv	↓lv	↓lv	↓lv		↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	North East	nonag	8282	1269803	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto
UK	Central Scotland	nonag	9305	1813314	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↓lv	↓lv	↓lv	lv-mot	↓lv	↓lto	↓lto
UK	North East Scotland	nonag	18587	1001499	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
UK	Highland	nonag	38269	380062	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto

MS	Zone name	Aggl	Area	Popul.	SO ₂ health		SO ₂ eco		NO ₂		NO _x	PM ₁₀		Lead	Ben.	CO	O ₃	
					Hr	Day	Yr	Wntr	Hr	Yr	Yr	Day	Yr	Yr	Yr	8hr	Hlth	Veg
UK	Scottish Borders	nonag	11145	254690	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lto	↓lto
UK	South Wales	nonag	12221	1578773	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	North Wales	nonag	8368	720022	↓lv	↓lv	↓lv	↓lv	↓lv	↑mot	↓lv	↑lv	↓lv	↓lv	↓lv	↓lv	lto-tv	lto-tv
UK	Northern Ireland	nonag	13579	1104991	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	↓lv	lto-tv	↓lto