Road user charges for heavy goods vehicles (HGV)

Tables with external costs of air pollution

ISSN 1725-2237



Road user charges for heavy goods vehicles (HGV)

Tables with external costs of air pollution

Cover design: EEA

Cover photo: © istockphoto.com/Rouzes

Layout: EEA/Pia Schmidt

Legal notice

The contents of this publication do not necessarily reflect the official opinions of the European Commission or other institutions of the European Union. Neither the European Environment Agency nor any person or company acting on behalf of the Agency is responsible for the use that may be made of the information contained in this report.

Copyright notice

© EEA, Copenhagen, 2013

Reproduction is authorised, provided the source is acknowledged, save where otherwise stated.

Information about the European Union is available on the Internet. It can be accessed through the Europa server (www.europa.eu).

Luxembourg: Publications Office of the European Union, 2013

ISBN 978-92-9213-350-4 ISSN 1725-2237 doi:10.2800/70164

European Environment Agency Kongens Nytorv 6 1050 Copenhagen K Denmark

Tel.: + 45 33 36 71 00 Fax: + 45 33 36 71 99 Web: eea.europa.eu

Enquiries: eea.europa.eu/enquiries

Content

Acknowledgements	4
Summary	
1 Introduction	
2 Method for the estimation of external costs	
3 Unit costs for air pollutants from transport	11
Annex 1 Health impacts of air pollution and their valuation	
Annex 2 Emissions and atmospheric transport: data and models	
References	20
Glossary	22
Tables with external costs of HGV in EEA member countries	23

Acknowledgements

The EEA gratefully acknowledges the integrated assessment modelling prepared by the National Environmental Research Institute in Denmark under Aarhus University (Brandt et al., 2010) including the vehicle emission data made available by senior adviser Morten Winther.

The EEA wishes to extend thanks to Sylvia Medina, French Institute for Public Health Surveillance and coordinator of the EU FP7 APHEKOM project on air pollution and health in Europe and to Frank de Leeuw, RIVM and the European Topic Centre on Air Pollution and Climate Change, for permission to reproduce figures and maps in this report.

Comments and valuable suggestions were provided by Valentin Foltescu, Martin Adams, Aphrodite Mourelatou, Stefan Speck and John O'Doherty at the EEA. The report author is Mikael Skou Andersen.

Summary

In this report, the European Environment Agency (EEA) presents updated estimates of the **external costs** (¹) of air pollution for different categories of heavy goods vehicles (HGVs). This report on road transport is a continuation of previous reporting from EEA on estimates for the external costs of air pollution from industrial facilities (EEA, 2011).

The amended Eurovignette Directive (2011/76/EU) relating to the charging of HGVs for use of major European motorways prescribes that from 2013, Member States may include air pollution costs in any charging structure for roads under the Trans-European Network (TEN-T) and for comparable domestic motorways.

Diesel engine exhaust has recently been classified as carcinogenic to humans (IARC, 2012) and price signals can help regulatory efforts laid down in other European directives to **improve the health and well-being** of European citizens, who currently are believed to suffer more than 100 million sick-days and 350 000 premature deaths annually due to air pollution (AEA Technology Environment, 2005). As the biggest road transport emitter of air pollution, HGVs are responsible for up to 40–50 per cent of road transport NO $_{\rm X}$ emissions in EEA member countries (cf. NERI, 2011:537).

An external-cost charge on HGVs will be passed on as a cost to purchasers of transport services. It will make costs of air pollution visible in freight rates. In so doing, it will provide a signal in the market that could impact freight transport modes and choice of transport corridors by HGVs. In this way a more level playing field could be created, as transporters cannot obtain competitive advantages from air pollution costs that are not accounted for.

The tables published here provide the basis for the inclusion of a vehicle-specific air pollution component in road user charges. Air pollution costs have been calculated on the basis of the **formula prescribed in the directive**, taking into account the fact that road transport emissions are mixed in a low volume of air. Following Article 9 in the Eurovignette Directive, additional revenues from external-cost charges must be used by Member States to benefit the transport sector and promote **sustainable mobility**.

Making use of scientific developments subsequent to the 2007 *Handbook of external costs* (Maibach et al., 2008), the EEA is able to provide an **updated estimate** of the external costs of air pollution from road transport.

The tables in this report indicate for each country and **for the relevant vehicle categories**, estimates of the external costs of air pollution in 2010 prices. The high level of detail gives member countries an informed basis to group the vehicle categories for administrative purposes. The tables also include estimates for three non-EU member countries of the EEA, of which one (Switzerland) pioneered the first HGV road user charge in Europe.

The adoption of road user charges depends on a **decision by each individual country**. Several countries already charge power plants and industry for their emissions. Levies or taxes on NO_{χ} and/or SO_2 from stationary polluters are in place in the Czech Republic, Denmark, Estonia, France, Hungary, Italy, Latvia, Lithuania, Norway, Poland, Slovakia, Spain and Sweden. Some countries, such as Poland, also levy taxes on transport-related emissions sources (see OECD/EEA database, OECD, 2011).

Figure S.1 provides an overview of table values for one illustrative vehicle category, indicating how the **external costs of HGVs differ among countries**. Higher external costs per kilometre are observed in landlocked countries with high population densities, whereas lower costs are observed in countries with

⁽¹) 'External costs' refers to situations where the effect of production or consumption of goods and services imposes costs or benefits on others that are not reflected in the prices charged for the goods and services being provided (OECD Glossary, 2002).

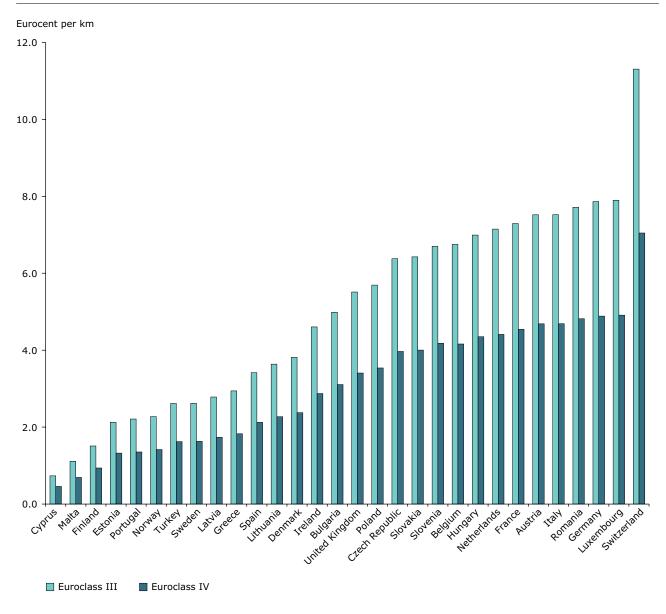


Figure S.1 Air pollution externalities of 12-14 ton HGV on highway

low population densities or countries where some emission dilution over maritime areas can take place. High costs also occur in mountainous areas, where air pollution will frequently be trapped and cause extended exposure.

EU Member States are not obliged to charge the full costs of air pollution that follow on from the formula detailed in the directive. Furthermore, Annex IIIb of the Eurovignette Directive establishes **maximum limits** for the charging of air pollution costs, and the estimates published here exceed these limits in some cases (NB: for road sections in mountainous areas charges may exceed the maximum ceiling).

1 Introduction

The Council of Ministers and the European Parliament in 2011 passed amendments to the Eurovignette Directive relating to road user charges for heavy goods vehicles (HGVs) (²). The amendments require that user charges for motorways shall reflect the environmental burdens caused by HGVs.

The initial Eurovignette Directive harmonised the standards to be applied in charging HGVs for the use of road infrastructures only. However, the directive did not initially include charges based on the level of pollution caused by different types of HGV.

The amended Eurovignette Directive harmonises charging for environmental burdens. It addresses air pollution, but also provides leeway for road user charges to take account of noise pollution and congestion in specific road sections. The latter aspects are often highly local and could unfortunately not be covered in this report, whereas air pollution costs are mainly regional and need to be addressed from a wider European perspective (3).

When imposing an external-cost charge to reflect environmental burdens, the market mechanism will help to identify the appropriate trade-off between emissions and pollution prevention. When costs are factored into market transactions, there will be incentives to use cleaner vehicles and adapt freight transport choices, as the Swiss experience has shown.

The environmental burden from HGVs depends on many different factors, including engine type, tonnage, number of axles, and driving patterns. It also depends on population density and the site-specific exposure that results from atmospheric conditions. The external-cost charges need to reflect these circumstances as well as possible, so as to provide the right incentives to use cleaner vehicles and to adapt the choice of route.

Member countries that have introduced road charging are making use of advanced electronic systems for payment and compliance that can allow traffic to flow freely (see Figure 1.1). These systems can also accommodate charging for environmental burdens

The amended Eurovignette Directive obliges Member States that levy road user infrastructure charges to at least make these dependent on the 'Euro emission class' (a measure that ranks the emissions levels of vehicles) of HGVs. Because this approach only provides a rough approximation of air pollution costs, the directive also provides a formula for a more precise external cost calculation (see Chapter 2). When basing air pollution charges on this more precise formula, Member States are allowed to recycle the additional revenues to benefit the transport sector and promote sustainable mobility (see Article 7f.4 in the Eurovignette Directive).

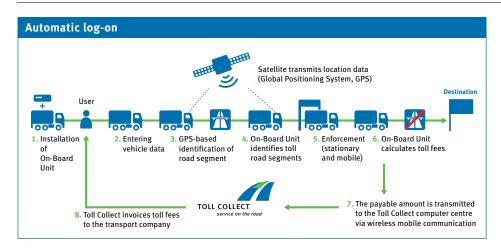
In the present technical report, the EEA offers a set of detailed tables where external costs are split according to the relevant vehicle categories and are specified for each country. The table values are derived from modelling and are underpinned by a monetary valuation technique that reflects the local-and country-specific costs of air pollutants.

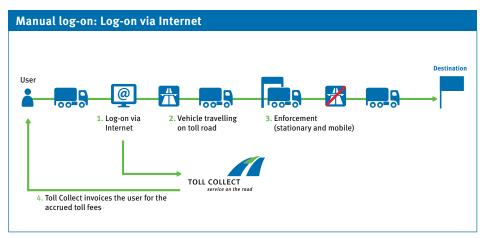
When setting the external-cost charge, Member States are allowed to group vehicle categories for practical and administrative purposes. Member States may choose to include all or a percentage of the external costs of HGV road transport in the external-cost charge, subject also to the maximum ceilings defined (see Article 7c in the Eurovignette Directive).

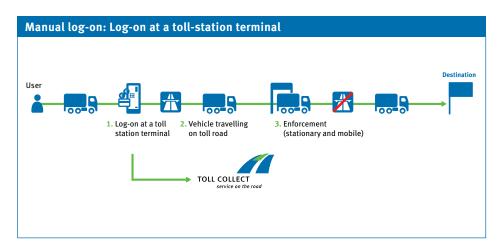
⁽²) Directive 2011/76/EU of the European Parliament and of the Council of 27 September 2011 amending Directive 1999/62/EC on the charging of heavy goods vehicles for the use of certain infrastructures.

⁽³⁾ With regard to noise, estimates are available in Maibach et al. (2008), table 22.

Figure 1.1 Electronic road user charging







Note: With the use of advanced electronic systems, traffic can flow freely while being subject to road user charges that — in addition to the infrastructure costs — levy for the external costs of air pollution.

Source: Toll Collect, 2012.

2 Method for the estimation of external costs

Annex IIIa of the Eurovignette Directive specifies the calculation formula for arriving at the external-cost charge related to air pollution as follows.

 $PCV_{ii} = \sum_{k} EF_{ik} \times PC_{ik}$ where:

- PCV_{ij} air pollution cost of vehicle class i on road type j (EUR/vehicle-kilometre);
- EF_{ik} emission factor of pollutant k and vehicle class i (gram/kilometre);
- PC_{jk} monetary cost of pollutant k for type of road j (EUR/gram).

The emission factors (a rating applied to different vehicle classes according to the amount of emissions they produce) are the same as those used by Member States to draft national emission inventories provided for in Directive 2001/81/EC on national emission ceilings for certain atmospheric pollutants (requiring use of the *EMEP/EEA air pollutant emission inventory guidebook*). The monetary costs of pollutants are calculated with a methodology similar to the one adopted for the Clean Air for Europe (CAFE) programme, as applied in its assessment of the Thematic Strategy of Air Pollution (AEA Technology Environment, 2005).

This type of calculation is known as impact pathway analysis, and is basically a sequence of four steps. These four steps consider:

- emissions;
- dispersion of emissions, resulting in changes in exposure;
- physical impacts of exposure (health effects mainly);
- prices for impacts according to established unit values;

Impact pathway analysis has identified the most important impacts of emissions. It has also derived exposure-response functions from available evidence on the relevant effects for health and environment (see details in Annex 1). It makes use of atmospheric modelling to trace patterns of dispersion, chemical transformation, and transport of emissions, so as to estimate the marginal annual

amount of pollution that is caused by an emission source, in this case HGV transport (see details in Annex 2). Supported by data stored in geographical information systems, it then adds up the effects of changes in the concentrations of pollutants. In the final step, the analysis attaches a price to the physical-effect end points, using standard values derived from economic analysis. Scientists from different disciplines have collaborated with economists to integrate existing knowledge for an assessment of the external costs. See Figure 2.1 for an illustration of impact pathway analysis.

This method of analysis was developed in the 1990s with EU-funded ExternE research, and has been further explored in other EU-funded projects, notably NEEDS (New energy externalities development for sustainability) and EXIOPOL (A new environmental accounting framework using externality data and input-output tools for policy analysis). Results are available on the project websites (NEEDS, 2011; EXIOPOL, 2011). If the knowledge base changes, for instance regarding the health impact endpoints to be included, the results may undergo changes.

Source (specification of site and technology) → emission (e.g. kg/yr of particulates) Dispersion (e.g. atmospheric dispersion model) → increase in concentration at receptor sites (e.g. µg/m³ of particulates in all affected regions) Dose-response function (or concentration-response function) → impact (e.g. cases of asthma due to ambient concentration of particulates) Monetary valuation → cost (e.g. cost of asthma)

Figure 2.1 Impact pathway approach to analysis of air pollution costs

Note: Sequence of impact pathway analysis. Transport emissions take place closer to the ground and mix in a lower volume of air than high-stack sources, which the models can also describe.

Source: European Commission, 2003.

3 Unit costs for air pollutants from transport

In order to take advantage of new developments since the preparation in 2007 of the Commission's 'Handbook of external costs' (Maibach et al., 2008) the EEA, under the framework contract for environmental economics, has requested an updated estimate of the external costs of air pollution from road transport.

Previous estimates, such as in EEA (2011), have been based on uniform source modelling of air pollution dispersion, and have therefore not included separate calculations for the various emission-producing sectors. However, the updated estimates now specifically address road transport emissions.

Road transport pollutants are emitted close to the surface of the earth, and hence display a different pattern of dispersion than pollutants emitted from 'high-stack' sources (the tall chimneys used by heavy industry and electricity generation). Road transport emissions are also mixed in a lower volume of air, which results in higher concentrations of pollutants near the surface. Research has substantiated how pollutants from road transport exhausts result in greater exposure than pollutants from high-stack sources, and hence should be attributed separate unit estimates of external costs.

The chemical transformation of emissions and the formation of secondary pollutants involve non-linear processes. For this reason, it is preferable to base estimates on one uniform modelling exercise that can keep track of the inter-linkages between pollutants. In particular, the inter-linkages between NO $_{\rm X}$ emissions, the formation of secondary nitrate particles and the reactions with ozone are complex phenomena that require detailed specification. The EEA update of unit values (as listed in Table 3.1) has been derived from one consistent modelling exercise for relevant pollutants.

The monetary values applied for the health effects of pollutants (as well as the exposure-response functions for the relationships between pollution concentrations and health effects) remain comparable to those that were applied with the European Commission's CAFE methodology

(see Table A1.1). Hence any differences in unit costs that may arise for pollutants in comparison with previous externality estimates can be explained by scientific improvements in the underlying atmospheric modelling. The remaining key parameters and assumptions are constant, with some minor modifications, although they have been updated to 2010 prices.

Table 3.1 presents for each country the resulting unit values for the external costs of specific air pollutants, namely NO_{χ} and $PM_{2.5}$ (exhaust and non-exhaust). These unit values have been used as a basis for the annex tables, converting them into external costs per kilometre and vehicle category.

The Eurovignette Directive applies to highways but also distinguishes between suburban roads (within cities) and interurban roads (between cities). Because air pollution emissions depend on the average speed of the vehicle and its driving pattern, the tables have three resulting columns for average speeds of 35, 55 and 80 km per hour. These are suburban roads (35 km/h), interurban roads (55 km/h) and highways (80 km/h) respectively. Values for suburban and interurban road sections can sometimes be taken into account, for example where highways traverse urban zones or are suffering from congestion.

The Eurovignette Directive allows for the possibility to exempt HGVs of less than 12 tonnes from road user charges, provided that Member States can justify such exemptions (see Article 7.5 in Eurovignette Directive). Figures published include all vehicle categories so as to allow an informed choice to be made for possible exemptions.

The country tables show that NO_X emissions contribute relatively more to per kilometre-externalities than primary particles $PM_{2.5}$. This is because NO_X is a regional pollutant that can travel — and thus cause exposure of many citizens — over considerable geographic distances (several hundred kilometres). Primary particles $PM_{2.5}$, on the other hand, are local pollutants with shorter

atmospheric transport and with resulting exposure in closer proximity to the emission sources.

Still, in urban and suburban zones with high population densities $PM_{2.5}$ may result in high external costs per kilometre, due to more people being affected. Hence, when emitted from suburban road sections, $PM_{2.5}$ may contribute as much as — or even more — than NO_{χ} to the external costs per kilometre of HGVs. For this reason, when

calculating road-use externalities in large urban zones, a separate additional charge component related to $PM_{2.5}$ can be relevant.

The EEA has estimated additional PM_{2.5} charges on the standard per-kilometre costs to reflect higher population densities for urban zones with more than 500 000 inhabitants. Table 3.2 lists the relevant urban zones, cf. Eurostat Urban Audit data. The resulting urban zone annex tables are

Table 3.1 Marginal air pollution costs in EUR/tonne of pollutant for road transport

	Pollutant	PM _{2.5} (exhaust)	NO _x	PM _{2.5} (non-exhaust)
	Source model	EVA	EVA	EVA
	Valuation approach	See Table A1.1	See Table A1.1	See Table A1.1
	Unit	EUR 2010	EUR 2010	EUR 2010
	Population density	National average	National average	National average
AT	Austria	46.656	17.963	46.656
BE	Belgium	82.991	14.714	82.991
BG	Bulgaria	30.941	11.910	30.941
СН	Switzerland	70.860	26.994	70.860
CY	Cyprus	3.263	1.795	3.263
CZ	Czech Republic	50.388	14.871	50.388
DE	Germany	62.981	18.304	62.981
DK	Denmark	25.182	9.060	25.182
EE	Estonia	15.351	5.002	15.351
EL	Greece	23.620	6.844	23.620
ES	Spain	25.992	7.996	25.992
FI	Finland	12.605	3.491	12.605
FR	France	47.489	17.343	47.489
HU	Hungary	52.613	16.392	52.613
ΙE	Ireland	27.070	11.050	27.070
IT	Italy	48.584	17.907	48.584
LT	Lithuania	20.513	8.760	20.513
LU	Luxembourg	20.513	18.438	20.513
LV	Latvia	17.932	6.623	17.932
MT	Malta	7.085	2.645	7.085
NL	Netherlands	86.140	15.644	86.140
NO	Norway	13.755	5.442	13.755
PL	Poland	46.547	13.217	46.547
PT	Portugal	37.078	4.481	37.078
RO	Romania	40.816	18.673	40.816
SE	Sweden	18.021	6.191	18.021
SI	Slovenia	37.238	16.154	37.238
SK	Slovakia	44.665	15.192	44.665
TR	Turkey	23.325	6.006	23.325
UK	United Kingdom	61.544	12.231	61.544

Source: Brandt et al., 2010.

available electronically from the EEA website and may also support assessments to demonstrate where environmental damage is higher than that generated on the average road network, as mentioned under section 1 of Annex IIIa in the Eurovignette Directive.

Table 3.2 Larger Urban Zones (LUZs) with more than 500 000 inhabitants for which road sections may have PM_{2.5} externalities above national levels

Aarhus	Glasgow	Palermo
Amsterdam	Gothenburg	Palmas
Antwerp	Grenoble	Paris
Athens	Hague	Porto
Augsburg	Hamburg	Poznan
Barcelona	Hannover	Prague
Bari	Helsinki	Rennes
Belfast	Karslruhe	Riga
Berlin	Katowice	Rome
Bielefeld	Krakow	Rotterdam
Bilbao	Las Palmas	Rouen
Birmingham	Leeds-Bradford	Ruhr
Bologna	Leicester	Saarbrücken
Bonn	Leipzig	Sczezin
Bordeaux	Liege	Seville
Bratislava	Linz	Sheffield
Bristol	Lisbon	Sofia
Brno	Liverpool	Stockholm
Brussels	Ljubljana	Strasbourg
Bucharest	Lodz	Stuttgart
Budapest	London	Tallinn
Bydgoszcz	Lublin	Thessaloniki
Cardiff	Lyon	Toulouse
Catania	Madrid	Turin
Cologne	Malaga	Tyne and Wear
Copenhagen	Malmö	Utrecht
Coventry	Manchester	Valencia
Dresden	Milan	Venice
Dublin	Munich	Verona
Düsseldorf	Nantes	Vienna
Edinburgh	Naples	Vigo
Florence	Nottingham	Vilnius
Frankfurt a.M.	Nuremberg	Warsaw
Freiburg	Oslo	Wroclaw
Gdansk	Ostrava	Zaragoza
Genoa	Padua	Zurich
-		

Source: Eurostat Urban Audit, 2007–2009.

Annex 1 Health impacts of air pollution and their valuation

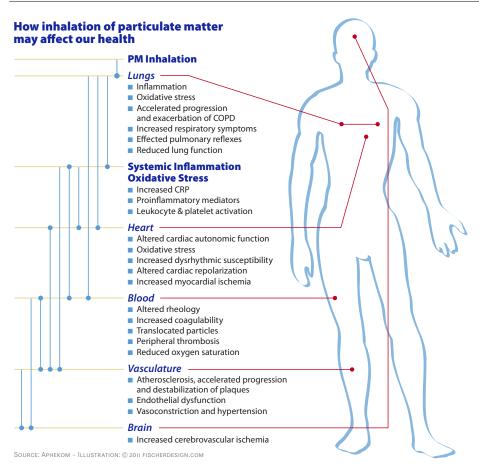
Mortality

Emissions of air pollutants have generally declined in recent decades in Europe. Yet improved understanding of the health implications of air pollutants has encouraged policymakers to reduce emissions still further. According to expert estimates, about 350 000 premature deaths annually across the EU-25 are attributable to air pollution from primary

and secondary particulate matter (PM) and related ozone formation (4).

Average life expectancy would be improved if air pollution levels were reduced to the level recommended by the World Health Organization (WHO). Even in Brussels, the 'capital' of the European Union, air pollution reduces life expectancy by an average of 7 months per

Figure A1.1 How inhalation of particulate matter may affect our health



Source: Based on Pope and Dockery, 2006, cf. Aphekom project.

⁽⁴⁾ Estimate derived from the cost-benefit analysis carried out as part of the Clean Air for Europe programme (AEA, 2005). A more recent analysis by the European Topic Centre on Air and Climate Change puts this figure at 492 000 for EEA-32 (excl. Turkey) and west-Balkans (de Leeuw, F. and Horalek, J., 2009).

individual (Aphecom, 2011). The burden of reduced life expectancy is not equally distributed: in the main, it is older people and vulnerable individuals who suffer the most from air pollution, but the average lung cancer death, for instance, causes a loss of life expectancy of between 9 and 10 years and may also affect middle-aged people (Bach et al. 2006:82).

Figure A1.1 provides an overview of the potential health implications of inhaling particulate matter. Epidemiological research demonstrates that there is an increase in average mortality when individuals are chronically exposed over several years to increased levels of particulate matter. It is mainly cardiovascular disease and lung cancer that are related to long-term exposure to elevated levels of particulate matter, and these account for the majority of the premature deaths predicted.

The monetary estimate of the external costs associated with premature deaths is based on the largest available cohort study relating to air pollution mortality that has been carried out (Pope et al., 2002). PM concentrations are indicators of complex mixtures of pollutants and are used as proxies for the particulate characteristics responsible for the effects of PM exposure (see also EEA SOER, 2010:97).

Morbidity

Exposure to increased levels of air pollution has been shown to result in greater morbidity. This can be manifested in different ways, for example in an increase in the number of working days lost to sickness or in increased reports of discomfort due to headaches. For actual days of work lost there is an associated decline in productivity.

There is continued scientific scrutiny into the extent to which new cases of asthma can be triggered by air pollution. But it is beyond doubt that confirmed asthmatics will need more doses of medicine when levels of air pollution are exacerbated. Only the latter effect is included in the estimate of external costs.

The prevalence of chronic diseases in the general population has also been shown to increase with higher long-term exposure to air pollution. Chronic bronchitis — also known as chronic obstructive pulmonary disease (COPD) — is a serious and life-threatening disease, with significant implications for the personal welfare and earnings of those affected (see Figure A1.2).

Finally, there is a higher rate of acute hospitalisations, particularly for asthmatics and older people, during episodes of smog or highly elevated pollutant concentrations. There are also more visits to clinics.

The calculations of external costs relating to HGV road transport are conservative in that only a selection of impacts are included, based on the expert assessment carried out with the European Commission's CAFE review (AEA, 2005). Future changes in the knowledge base may have implications for our estimates.

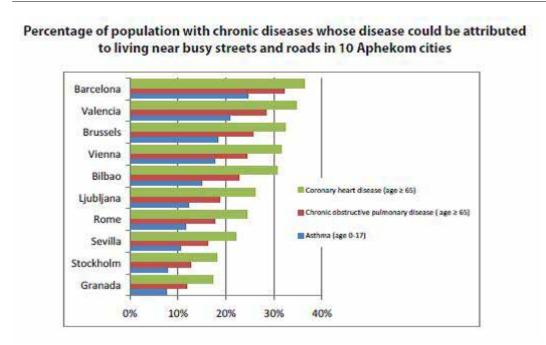
Valuation

In order to account for the external costs of air pollution, a monetary value needs to be attributed to excess mortality. This has been done by adopting methods and figures conventionally applied in transport economics, where such calculations are used for economic assessments of road improvement projects that reduce fatalities.

The valuation of a statistical life expresses the risk premium that individuals will be willing to pay to avoid a statistical fatality. If individuals are willing to pay EUR 140 for a road improvement project or safety device that can lower the fatality rate with 1/10 000, then the value of a statistical life is by implication EUR 1.4 million (140: 1/10 000). The sacrifice for risk reductions has been explored in numerous economic studies, for instance relating to what people pay for airbags in their cars. Traffic fatalities on average befall middle-aged people, leading to a loss of life expectancy of about 30 years. The value of a lost life year is by implication about EUR 50 000 (1.4 million: 30 = EUR 47 000). More advanced studies, specifically exploring the sacrifice people are willing to make to avoid loss of life expectancy due to air pollution, have reached similar estimates (Alberini, Hunt and Markandya, 2006).

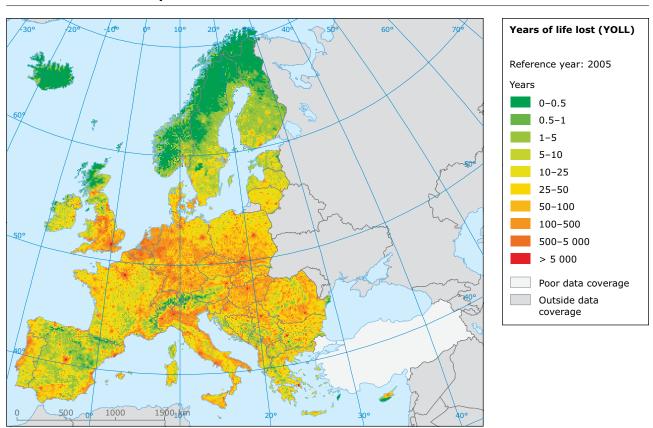
The above estimates represent an average for the enlarged European Union, but the willingness to pay for reductions in risk obviously differs across income levels. However, in the case of air pollution costs, adjustment according to per capita income differences among EU Member States is not regarded as appropriate, because long-range transport implies that emissions from one Member State will affect numerous other Member States and their citizens. Map A1.1 provides an overview of premature mortality predicted to occur in Europe as a result of air pollutants.

Figure A1.2 Air pollution and morbidity effects



Source: Aphekom, 2011.

Map A1.1 Estimated years of life lost (YOLL) attributable to long-term PM_{2.5} exposure for reference year 2005



Source: EEA, 2010.

Table A1.1 lists the specific valuation estimates applied in the modelling of externality costs for mortality and morbidity effects. In the Clean Air for Europe cost-benefit assessment, a principal value of EUR 1.4m (in year 2000 values) was applied for preventing a fatality. Because air pollution is believed to affect mainly older people, and because some surveys indicate a lower risk aversion for this group, the value was adjusted to about EUR_{2000} 1 million following advice from an expert panel convened by the European Commission (2001). For the valuation of a life year, the results from a survey relating specifically to air pollution risk reductions were applied (Alberini, Hunt and Markandya, 2006), implying a value of EUR₂₀₀₀ 52 000 per year of life lost (YOLL).

With the more conservative metric of estimating lost life years, rather than 'full' statistical lives, there is no adjustment for age. Most of the excess mortality is due to chronic exposure to air pollution over many years and the life year metric is based on life tables that can account for the number of lost life years in a statistical cohort. Following the guidelines of the Organisation for Economic Co-operation and Development (OECD, 2006), the predicted acute deaths, mainly from ozone, are valued here with the adjusted value for preventing a fatality (VSL, Value of a Statistical Life). The unit values referred to in this paragraph are in year-2000 prices, but have been indexed to 2010 prices for the purposes of the externality tables, as indicated in Table A1.1.

Table A1.1 Priority health impacts, exposure-response functions and economic valuation

Health effects (species)	Exposure-response coefficient	Valuation, Euros (2010-prices)
	Morbidity	
Chronic Bronchitis (PM)	4.4E-5 cases/µgm-3 (adults)	232,000 per case
Restricted activity days (PM)	9.0E-2 days/ μgm ⁻³ (adults)	101 per day
Minor Restricted activity days (O ₃)	1.15E-2*SOMO35 cases/μgm ⁻³ (adults-above65)	46 per day
	Hospital admissions	•
Respiratory (PM)	1.17E-5 cases/ µgm ⁻³	
Respiratory (O ₃)	1.25E-5*SOMO35 cases/µgm-3 (>65 years)	2,450 per case
Cardiac (PM)	7.23E-6 cases/ μgm ⁻³	
A	sthma children (7.6 % < 16 years)	
Bronchodilator use (PM)	1.52E-1 cases/ μgm ⁻³	- 1.2 per case
Bronchodilator use (O ₃)	8.5E-3 *SOMO35 cases/µgm ⁻³	1.2 per case
Lower respiratory symptoms (PM)	3.1E-1 days/ μgm ⁻³	- 46 per day
Lower respiratory symptoms (O ₃)	1.09E-1*SOMO35 cases/μgm ⁻³	40 per day
A	Asthma adults (6.4 % > 15 years)	
Bronchodilator use (PM)	3.05E-2 cases/ μgm ⁻³	- 1.2 per case
Bronchodilator use (O ₃)	2.0E-4 *SOMO35 cases/μgm ⁻³	1.2 per case
Lower respiratory symptoms (PM)	1.01E-1 days/ μgm ⁻³	46 per day
	Mortality	
Acute mortality (O ₃)	3.27E-6*SOMO35 cases/ μgm ⁻³	- 1,198,000 per case
Chronic mortality (PM)	1.091E-3 YOLL/ μgm ⁻³ (>30 years)	63,550 per YOLL
Infant mortality (PM _{2.5})	6.67E-6 cases/ µgm ⁻³ (< 9 months)	1,833,000 per case

Annex 2 Emissions and atmospheric transport: data and models

Actual 'real-world' vehicle emissions differ considerably both from limit values laid down for vehicles in legislation, and from vehicle approval test conditions. Emissions in real traffic situations depend on several factors: cumulated mileage driven, maintenance levels for engine and exhaust, as well as actual driving behaviour.

Emission factors (the rating applied to different vehicle classes according to the amount of emissions they produce) are derived from repeated emissions measurements, reflecting the diversity of driving patterns and a sufficient range and number of test vehicles. Fuel use and emissions have been simulated for operationally hot engines, taking into account emission standards and the increase in emissions that accompanies catalyst wear. Also taken into consideration are the emission effects of cold start and evaporation. Emissions arising from tyre and brake wear (as well as from road abrasion) are estimated in accordance with the COPERT IV methodology, and are consistent with UNECE (United Nations Economic Commission for Europe) reporting, cf. EMEP/EEA Air Pollutant Emission Inventory Guidebook (EEA, 2009).

The COPERT IV fleet classification has been used to group vehicles into vehicle classes, subclasses and layers. The layer classification is a further division of vehicle subclasses into groups of vehicles with the same average fuel use and emission behaviour, according to emission legislation levels.

Air pollutants are transported over considerable distances from the point of emission, and interact with substances in the atmosphere. A modelling framework has been used to account for the production of secondary pollutants, which are produced by the interaction between pre-existing atmospheric substances and the primary air pollutants that are emitted by vehicles, identifying the marginal contribution of road transport. The EEA has used the EVA (Economic Valuation of Air pollution) modelling framework as a basis for estimating the external costs from heavy goods vehicles. This framework is based on a comprehensive, state-of-the-art, regional-scale air pollution model.

The overall concept of the EVA model is based on the impact pathway chain, and consists of the following elements:

- a comprehensive, state-of-the-art, long-range Eulerian Atmospheric Chemistry-Transport Model DEHM, version 5.1 (Christensen, 1997; Frohn et al., 2002);
- detailed emission inventories, based on European Monitoring and Evaluation Programme (EMEP) data for Europe (September 2010 version) and Global Emission Inventory Activity/ Emission Database for Global Atmospheric Research (GEIA/EDGAR) data for the northern hemisphere;
- gridded population data;
- state-of-the-art exposure-response functions (Table A1.1);
- monetary valuation of the impacts from air pollution on human health applicable for European conditions.

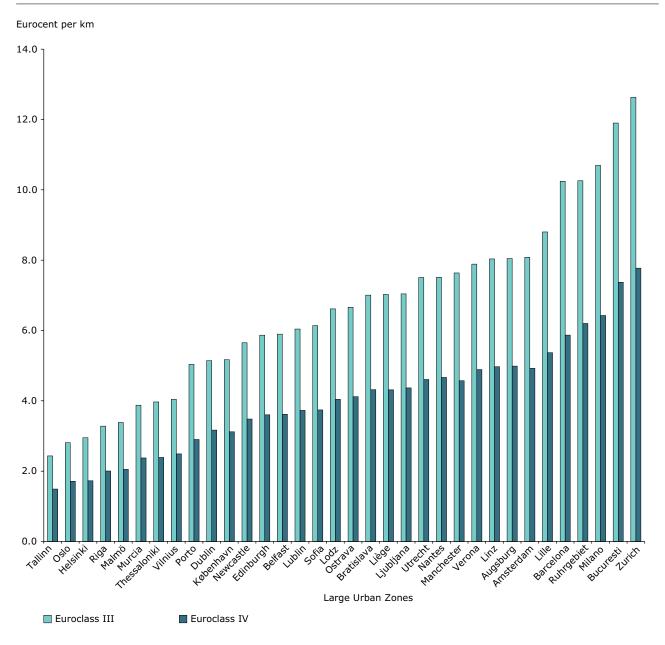
The DEHM is a three-dimensional model covering most of the northern hemisphere with a 96 x 96 horizontal grid, using a polar stereographic projection. The model includes a two-way nesting capability for obtaining higher resolutions over Europe (Frohn et al., 2002). The vertical grid is defined using the sigma-coordinate system with 20 vertical layers. The model describes concentration fields of 58 chemical species including emissions of NO_X, SO₂, VOCs, CO and NH₃ and nine classes of particulate matter (PM_{2.5}, PM₁₀, TSP, sea salt > 2.5 μ m, primary emitted smoke, fresh black carbon, aged black carbon and organic carbon). The model includes a total of 122 chemical reactions.

The MM5v3 meteorological model (Grell et al., 1994) provides meteorological fields for the DEHM model on an hourly basis, with data from an average meteorological year. Wet deposition, included in the loss term, is expressed as the product of scavenging coefficients and the concentration. Dry deposition is estimated separately for gases and particles, and depends on the land cover. Background emissions, based on EMEP data for year 2000, include ships and previous wildfires.

Quantifying the contribution of specific emission sources to the atmospheric concentration levels of pollutants is a challenge, especially if the emissions of interest are relatively small. Numerical 'noise' in atmospheric models can be of a similar order of magnitude as the 'signal' from the emissions of interest. A careful 'tagging method' — that reduces

the influence of numerical 'noise' — has been employed to assess how specific emission sources influence air pollution levels, without assuming linearity of the non-linear atmospheric chemistry. This method is more adequate than taking the simple difference between two concentration fields, which is sometimes used in decision-support tools.

Figure A2.1 Air pollution externalities of 12-14 ton HGV on highway



References

AEA Technology Environment, 2005, Damages per tonne emission of $PM_{2.5}$, NH_3 , SO_2 , NO_X and VOCs from each EU25 member state (excl. Cyprus) and surrounding seas, Service contract for carrying out cost-benefit analysis of air quality related issues in particular the Clean Air for Europe (CAFÉ) programme.

Alberini, A., Hunt, A. and Markandya, A., 2006, Willingness to pay to reduce mortality risks: Evidence from a three-country contingent valuation study, *Environmental and Resource Economics* (33) 251–264.

Aphecom, 2011, Summary report of the Aphecom project 2008-2011, EU-funded research project, (http://aphekom.org/c/document_library/get_file?uuid=5532fafa-921f-4ab1-9ed9-c0148f7da36a&groupId=10347) accessed 24 November 2011.

Bach, H., Illerup, J.B., Møller, F., Birr-Pedersen, K., Brandt, J., Ellermann, T., Frohn, L.M., Hansen, K.M., Palmgren, F., Nielsen, J.S. and Winther, M., 2006, Vurdering af de samfundsøkonomiske konsekvenser af Kommissionens temastrategi for luftforurening (Socio-economic assessment of the Commission's thematic strategy for air pollution), Faglig rapport fra DMU 586. Roskilde: Danmarks Miljøundersøgelser.

Brandt, J., Silver, J. D., Gross, A. and Christensen, J. H., 2010, *Marginal damage cost per unit of air pollution emissions*, Roskilde: National Environmental Research Institute. 23 p. Specific agreement 3555/B2010/EEA.54131 implementing framework contract ref. no. EEA/IEA/09/002.

CAFE, 2011, Clean Air for Europe (CAFE) Programme (http://europa.eu/legislation_ summaries/environment/air_pollution/128026_ en.htm) accessed 24 November 2011.

Christensen, J., 1997, The Danish Eulerian Hemispheric Model — A three-dimensional air pollution model used for the Arctic, *Atmospheric Environment* (31:24) 4 169–4 191. de Leeuw, F. and Horalek, J., 2009, Assessment of the health impacts of exposure to PM_{2.5} at European level, ETC/ACC Technical Paper 2009/1, European Topic Centre on Air and Climate Change (http://acm.eionet.europa.eu/reports/ETCACC_TP_2009_1_European_PM2.5_HIA) accessed 24 November 2011.

Denby, BR, Horálek, J., de Smet, P., de Leeuw, F., 2011, *Mapping annual PM*_{2.5} concentrations in Europe: application of pseudo PM_{2.5} station data, ETC/ACM Technical Paper 2011/5, European Topic Centre on Air and Climate Change (http://acm.eionet.europa.eu/reports/docs/reports/ETCACM_TP_2011_5_ spatialPM2.5mapping.pdf) accessed 8 February 2012.

EC, 1999, Directive 1999/62/EC of the European Parliament and of the Council of 17 June 1999 on the charging of heavy goods vehicles for the use of certain infrastructures (OJ L 187, 20.7.1999, pp. 42–50) (http://eur-lex.europa.eu/LexUriServ/LexUriServ. do?uri=CELEX:31999L0062:EN:NOT) accessed 24 November 2011.

EC, 2001, Directive 2001/81/EC of the European Parliament and of the Council of 23 October 2001 on national emission ceilings for certain atmospheric pollutants (OJ L 309/22 27.11.2001) (http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2001: 309:0022:0030:EN:PDF).

EC, 2011, Directive 2011/76/EU of the European Parliament and of the Council of 27 September 2011 amending Directive 1999/62/EC on the charging of heavy goods vehicles for the use of certain infrastructures (OJ L 269, 14/10/2011 P. 0001 – 0016) (http://eur-lex.europa.eu/LexUriServ/LexUriServ. do?uri=OJ:L:2011:269:0001:01:EN:HTML) accessed 23 November 2011.

European Commission 2001, Recommended interim values for the value of preventing a fatality in DG Environment Cost Benefit analysis, Bruxelles: (http://ec.europa.eu/environment/enveco/others/pdf/recommended_interim_values.pdf) accessed 10 July 2012.

European Commission 2003, External costs: research results on socio-environmental damages due to electricity and transport, Luxembourg: DG Research.

EEA, 2009, EMEP/EEA air pollutant emission inventory guidebook — 2009, EEA Technical report No 9/2009, European Environment Agency, European Monitoring and Evaluation Programme (http://www.eea.europa.eu/publications/emepeea-emission-inventory-guidebook-2009) accessed 24 November 2011.

EEA, 2010, The European environment: State and outlook 2010 synthesis, Copenhagen.

EEA, 2011, Revealing the costs of air pollution from industrial facilities in Europe, EEA Technical Report no. 15/2011, Copenhagen (http://www.eea.europa.eu/publications/cost-of-air-pollution).

EXIOPOL, 2011, A new environmental accounting framework using externality data and input-output tools for policy analysis, EU-funded research project, (http://www.feem-project.net/exiopol/index.php) accessed 24 November 2011.

Friedrich, R. and P. Bickel. 2001. *Environmental External Costs of Transport*, Münich, Springer.

Frohn, L.M., Christensen, J.H. and Brandt, J., 2002, Development of a high resolution integrated nested air pollution model — the numerical approach, *Journal of Computational Physics* (179) 68–94.

Grell, G.A., Dudhia, J. and Stauffer, D.R., 1994, *A description of the fifth-generation Penn state/NCAR mesoscale model (MM5)*, NCAR Technical Note NCAR/TN-398+STR, Boulder, National Centre for Atmospheric Research.

IARC (International Agency for Research on Cancer), 2012, Diesel engine exhaust carcinogenic, *Press release* 213, Lyon: IARC/WHO.

Leksell, I. and Rabl, A., 2001, Air pollution and mortality: Quantification and valuation of life lost, *Risk Analysis* (21:5) 843–857.

Maibach, M., Schreyer, C., Sutter, D., van Essen, H.P., Boon, B.H., Smokers, R., Schroten, A., Doll, C., Pawlowska, B. and Bak, M., 2008, *Handbook on estimation of external costs in the transport sector*, Version 1.1., Delft: CE Delft.

NEEDS, 2011, New Energy Externalities Development for Sustainability, EU-funded research project (http://www.needs-project.org/) accessed 24 November 2011.

NERI, 2011, Annual Danish informative inventory report to UNECE, Technical report 821, Roskilde: National Environmental Research Institute, Aarhus University.

OECD, 2006, Cost-benefit analysis and the environment: recent developments, Paris, Organisation for Economic Co-operation and Development.

OECD, 2011, OECD/EEA database on instruments used for environmental policy and natural resources management, Organisation for Economic Co-operation and Development, European Environment Agency (http://www2.oecd.org/ecoinst/queries/) accessed 23 November 2011.

Pope, C.A., Burnett, R.T., Thun, M.J., Calle, E.E., Krewski, D., Ito, K. and Thurston, G.D., 2002, Lung cancer, cardiopulmonary mortality and long-term exposure to fine particulate air pollution, *Journal of American Medical Association* (287:9) 1 132–1 141.

Pope, C.A. and Dockery, D.W., 2006, Health effects of fine particulate air pollution: lines that connect, *Journal of the air and waste management association* (56:6) 709–742.

Rabl A. and Peuportier, B., 1995, Impact pathway analysis: A tool for improving environmental decision processes, *Environmental Impact Assessment Review* (15) 421–442.

Glossary

Externalities

refers to situations when the effect of production or consumption of goods and services imposes costs or benefits on others which are not reflected in the prices charged for the goods and services being provided (OECD Glossary of Statistical Terms, 2002).

External-cost charge

means a charge levied for the purpose of recovering the costs incurred in a Member State caused by the release of particulate matter and of ozone precursors, such as nitrogen oxide, in the course of the operation of a vehicle (2011/76/EU).

Impact pathway

simply relates to the sequence of events linking an environmental burden to an impact (cf. Friedrich and Bickel, 2001:5). Emissions can be quantified and followed through to impact assessment and monetary valuation.

Impact pathway analysis

the principal steps are (cf. Rabl and Peuportier, 1995:422):

- characterisation of pressures and quantification of their environmental burdens (emissions),
- modelling of transport and dispersion patterns so as to account for the resulting marginal pollutant concentration changes in receptors at local and regional scale
- for the priority pathways, forecasting of the expected physical impacts on basis of exposure-response functions derived from state-of-the-art epidemiological or other scientific literature (exposure-response),
- monetary valuation of impact end-points according to benefit transfer procedures and estimation of the marginal social cost for the quantified emissions changes (valuation).

Internalisation of costs

means the principle that all costs associated with the protection of the environment should be included in the polluting undertakings' production costs (EC 2008/C82).

Morbidity

is an incidence of ill health.

Mortality

is incidence of death in a population.

Polluter

means someone who directly or indirectly damages the environment or who creates conditions leading to such damage (L194/1975) (5).

Polluter pays principle

means that the costs of measures to deal with pollution should be borne by the polluter who causes the pollution, unless the person responsible for the pollution cannot be identified or cannot be held liable under Community or national legislation or may not be made to bear the costs of remediation. Pollution in this context is the damage caused by the polluter by directly or indirectly damaging the environment, or by creating conditions leading to such damage, to physical surroundings or natural resources (EC 2008/C82).

YOLL

years of life lost in a population. YOLL's are calculated on basis of life tables featuring demographic data for a population cohorte. One life table uses observed survival probabilities and one life table is a scenario representing mortality risk changes from air pollution. The difference between the two life tables is interpreted as the years of life lost (YOLL) owing to the population exposure to air pollution (cf. Leksell and Rabl, 2001).

⁽⁵⁾ Council Recommendation of 3 March 1975 regarding cost allocation and action by public authorities on environmental matters (OJ L 194, 25.7.1975, p. 1).

Tables with external costs of HGV in EEA member countries

Unit co	osts of air pollutants	PM ₂₅	N	NO _x	PM ₂₅	N	NO _x
		EUR/kg	EUR/kg	EUR/kg	cent/gram	cent/gram	cent/gram
AT	Austria	46.656	59.022	17.963	4.666	5.902	1.796
BE	Belgium	82.991	48.345	14.714	8.299	4.834	1.471
BG	Bulgaria	30.941	39.132	11.910	3.094	3.913	1.191
СН	Switzerland	70.860	88.693	26.994	7.086	8.869	2.699
CY	Cyprus	3.263	5.897	1.795	0.326	0.590	0.179
CZ	Czech Republic	50.388	48.863	14.871	5.039	4.886	1.487
DE	Germany	62.981	60.142	18.304	6.298	6.014	1.830
DK	Denmark	25.182	29.769	9.060	2.518	2.977	0.906
EE	Estonia	15.351	16.434	5.002	1.535	1.643	0.500
EL	Greece	23.620	22.486	6.844	2.362	2.249	0.684
ES	Spain	25.992	26.271	7.996	2.599	2.627	0.800
FI	Finland	12.605	11.469	3.491	1.261	1.147	0.349
FR	France	47.489	56.983	17.343	4.749	5.698	1.734
HU	Hungary	52.613	53.859	16.392	5.261	5.386	1.639
IE	Ireland	27.070	36.308	11.050	2.707	3.631	1.105
IT	Italy	48.584	58.838	17.907	4.858	5.884	1.791
LT	Lithuania	20.513	28.783	8.760	2.051	2.878	0.876
LU	Luxembourg	61.534	60.581	18.438	6.153	6.058	1.844
LV	Latvia	17.932	21.760	6.623	1.793	2.176	0.662
MT	Malta	7.085	8.692	2.645	0.708	0.869	0.265
NL	Netherlands	86.140	51.402	15.644	8.614	5.140	1.564
NO	Norway	13.755	17.881	5.442	1.375	1.788	0.544
PL	Poland	46.547	43.428	13.217	4.655	4.343	1.322
PT	Portugal	37.078	14.725	4.481	3.708	1.472	0.448
RO	Romania	40.816	61.353	18.673	4.082	6.135	1.867
SE	Sweden	18.021	20.342	6.191	1.802	2.034	0.619
SI	Slovenia	37.238	53.076	16.154	3.724	5.308	1.615
SK	Slovakia	44.665	49.917	15.192	4.466	4.992	1.519
TR	Turkey	23.325	19.733	6.006	2.333	1.973	0.601
UK	United Kingdom	61.544	40.188	12.231	6.154	4.019	1.223

Source: From: Brandt, J, Silver, JD, Gross, A & Christensen, JH, 2010, Marginal damage cost per unit of air pollution emissions, Roskilde: National Environmental Research Institute. 23 p. Specific agreement 3555/B2010/EEA.54131 implementing framework contract ref. no. EEA/IEA/09/002.

								ons (gran			
Sub	Subsector	Tech 2	First	Last	PM (urban)	PM (inter)	PM (highway)	PM (non-	NO_x (urban)	NO _x (inter)	NO _x (highway)
sector	Subsector	reen 2	year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	55 km/h	80 km/h
ID											
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0		0.400	0.400	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5-7.5t	Euro I	1994	1996	0.379	0.278	0.100	0.060	3.084	3.162	3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.008	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0		0.391	0.273	0.248	0.060	8.414	7.702	8.114
15	Diesel RT 7.5–12t	Euro I	1994	1996	0.231	0.161	0.148	0.060	4.989	4.616	4.790
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II Euro III	1997 2002	2001	0.100 0.105	0.081	0.090	0.060	5.284 4.188	4.799 3.656	4.879 3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15	Diesel RT 7.5-12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	0 1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16	Diesel RT 12-14 t	Euro IV	2007	2009	0.021	0.014	0.012	0.060	2.935	2.499	2.421
17 17	Diesel RT 14-20t Diesel RT 14-20t	Conventional Euro I	0 1994		0.573	0.394	0.352	0.060	7.173	10.076 5.985	9.710 5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.232	0.203	0.060	7.724	6.335	6.058
17	Diesel RT 14-20t	Euro III	2002	2006	0.151	0.105	0.094	0.060	6.315	4.989	4.624
17	Diesel RT 14-20t	Euro IV	2007	2009	0.030	0.020	0.017	0.060	3.734	3.017	2.858
17 18	Diesel RT 14–20t Diesel RT 20–26t	Euro V Conventional	2010	2014 1993	0.030	0.020 0.407	0.017	0.060	2.240 13.189	1.786 10.579	1.681 9.899
18	Diesel RT 20–26t	Euro I	1994		0.439	0.288	0.253	0.060	9.261	7.445	6.985
18	Diesel RT 20-26t	Euro II	1997	2001	0.183	0.136	0.152	0.060	9.856	7.830	7.311
18	Diesel RT 20–26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro IV Euro V	2007	2009	0.036	0.023	0.020	0.060	4.769 2.840	3.800 2.250	3.546 2.096
19	Diesel RT 26–28t	Conventional	0		0.613	0.431	0.384	0.060	13.891	11.154	10.394
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19 19	Diesel RT 26-28t	Euro III	1997 2002	2001	0.195 0.203	0.145 0.136	0.162	0.060	10.281	8.136 6.265	7.563 5.829
19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2009	0.203	0.136	0.116	0.060	8.026 4.920	3.903	3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0		0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194 11.628	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2001	0.220	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28–32t	Euro V	2010		0.041	0.027	0.022	0.060	3.374	2.698	2.413
21	Diesel RT >32t Diesel RT >32t	Conventional Euro I	0 1994		0.681	0.481	0.432	0.060	16.129 11.428	12.809 9.055	11.740 8.322
21	Diesel RT >32t	Euro III	2002		0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	5.853	4.616	4.240
24	Diesel TT/AT 28-34t		1004		0.596	0.421	0.376	0.060	14.461	11.377	9.952
24 24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		1994 1997		0.449	0.309 0.143	0.274	0.060	10.252	8.006 8.195	6.997 7.100
24	Diesel TT/AT 28-34t		2002		0.188	0.129	0.114	0.060	8.434	6.399	5.523
24	Diesel TT/AT 28-34t		2007		0.035	0.022	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t Diesel TT/AT 34-40t		2010		0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t		0 1994		0.539	0.485 0.357	0.431	0.060	16.667 11.743	12.937 9.110	7.904
25	Diesel TT/AT 34-40t		1997		0.243	0.166	0.202	0.060	12.255	9.433	8.176
25	Diesel TT/AT 34-40t		2002		0.225	0.149	0.130	0.060	9.759	7.458	6.473
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2007 2010	2009	0.041	0.026 0.026	0.022	0.060	6.018 3.557	4.600 2.700	4.105 2.410
26	Diesel TT/AT 40–50t		2010		0.760	0.026	0.022	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t	Euro I	1994		0.589	0.398	0.350	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t		1997		0.273	0.189	0.227	0.060	13.610	10.454	
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		2002	2006	0.242	0.162	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010		0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subu	rban	Inter	urban	Hia	hway	Suburban	Interurban Highw		
PM	NO _x	PM	NO _x	PM	NO _x	SUM	SUM	Highway SUM	
• • • •			llutant per vehic		σχ		ecific external co		
4.6656	1.79633	4.666	1.796	4.666	1.796	cent/km	cent/km	cent/km	
4.0050	1.79033	4.000	1.790	4.000	1.790	cent/km	Cent/kiii	Cent/Kill	
2.146	8.083	2.146	13.472	2.146	13.472	10.2	15.6	15.6	
2.048 0.960	7.952 5.540	1.578 0.781	7.815 5.680	1.477 0.746	8.792 6.385	6.5	9.4 6.5	7.1	
0.960	5.907	0.781	5.859	0.746	6.409	6.5	6.4	7.1	
0.594	4.621	0.499	4.314	0.471	4.643	5.2	4.8	5.1	
0.340	2.804	0.319	2.745	0.313	3.028	3.1	3.1	3.3	
0.340	1.655	0.320	1.592	0.313	1.756	2.0	1.9	2.1	
2.105	15.115	1.554	13.836	1.436	14.575	17.2	15.4	16.0	
1.358 0.744	8.963 9.492	1.031 0.656	8.293 8.620	0.970	8.604 8.765	10.3	9.3	9.6 9.5	
0.771	7.524	0.613	6.567	0.580	6.440	8.3	7.2	7.0	
0.372	4.571	0.341	4.095	0.332	4.156	4.9	4.4	4.5	
0.374	2.700	0.342	2.420	0.333	2.389	3.1	2.8	2.7	
2.245	16.954	1.672	14.930	1.544	15.169	19.2	16.6	16.7	
1.449	10.135	1.107	8.955	1.039	8.945	11.6	10.1	10.0	
0.787 0.787	10.795 8.824	0.687 0.640	9.339 7.237	0.747 0.615	9.119 6.904	9.6	7.9	9.9 7.5	
0.379	5.272	0.346	4.489	0.337	4.350	5.7	4.8	4.7	
2.954	21.593	2.119	18.101	1.923	17.442	24.5	20.2	19.4	
1.852	12.885	1.362	10.751	1.238	10.362	14.7	12.1	11.6	
0.921	13.875	0.799	11.380	0.805	10.882	14.8	12.2	11.7	
0.985	11.344	0.768 0.371	8.962 5.420	0.716 0.358	8.306	<u>12.3</u> 7.1	9.7 5.8	9.0 5.5	
0.419	6.707 4.024	0.371	3.208	0.358	5.134 3.020	4.4	3.6	3.4	
2.977	23.692	2.181	19.002	1.996	17.782	26.7	21.2	19.8	
2.327	16.635	1.622	13.374	1.459	12.548	19.0	15.0	14.0	
1.134	17.705	0.916	14.065	0.988	13.134	18.8	15.0	14.1	
1.165	14.250	0.869	11.142	0.800	10.347	15.4	12.0	11.1	
0.450 0.453	8.567 5.102	0.389	6.825 4.041	0.372	6.370 3.766	9.0 5.6	7.2 4.4	6.7 4.1	
3.142	24.953	2.291	20.036	2.070	18.671	28.1	22.3	20.7	
2.418	17.557	1.712	14.030	1.534	13.073	20.0	15.7	14.6	
1.188	18.469	0.958	14.615	1.035	13.586	19.7	15.6	14.6	
1.226	14.417	0.913	11.253	0.821	10.470	15.6	12.2	11.3	
0.454	8.839	0.392	7.012	0.374	6.530	9.3	7.4	6.9	
0.457 3.445	5.219 28.195	0.394 2.515	4.113 23.114	0.375 2.266	3.831 21.502	5.7 31.6	4.5 25.6	4.2 23.8	
2.632	20.109	1.888	16.321	1.706	15.215	22.7	18.2	16.9	
1.334	20.888	1.042	17.051	1.188	15.382	22.2	18.1	16.6	
1.291	16.546	0.969	13.101	0.886	11.957	17.8	14.1	12.8	
0.468	10.198	0.402	8.245	0.382	7.497	10.7	8.6	7.9	
0.471	6.061	0.404	4.847	0.384	4.334	6.5	5.3	4.7	
2.723	28.972 20.528	2.524 1.906	23.009 16.266	2.297 1.711	21.090 14.949	<u>32.4</u> 23.3	25.5 18.2	23.4 16.7	
1.312	17.133	0.966	13.446	0.880	12.129	18.4	14.4	13.0	
0.472	10.514	0.402	8.291	0.384	7.617	11.0	8.7	8.0	
3.059	25.977	2.242	20.436	2.033	17.876	29.0	22.7	19.9	
2.374	18.415	1.723	14.381	1.558	12.569	20.8	16.1	14.1	
1.234	18.778	0.947	14.721 11.494	1.093	12.754 9.920	20.0	15.7	13.8	
1.158 0.443	15.150 9.323	0.882	7.115	0.814	9.920 6.354	9.8	7.5	6.7	
0.445	5.529	0.386	4.170	0.369	3.708	6.0	4.6	4.1	
3.533	29.939	2.543	23.239	2.291	20.133	33.5	25.8	22.4	
2.793	21.094	1.947	16.365	1.735	14.199	23.9	18.3	15.9	
1.414	22.014	1.055	16.945	1.222	14.687	23.4	18.0	15.9	
1.329	17.531	0.977	13.397	0.886	11.628 7.373	18.9	14.4	12.5 7.8	
0.471	10.811 6.390	0.401	8.264 4.851	0.382	4.329	6.9	8.7 5.3	4.7	
3.824	33.661	2.770	26.156	2.494	22.586	37.5	28.9	25.1	
3.026	23.550	2.137	18.259	1.912	15.780	26.6	20.4	17.7	
1.553	24.448	1.160	18.780	1.340	16.184	26.0	19.9	17.5	
1.408	19.414	1.035	14.864	0.937	12.904	20.8	15.9	13.8	
0.481	12.099	0.407	9.235	0.387	8.188	12.6	9.6	8.6	
0.485 1.836	7.115 29.438	0.409 1.356	5.388 22.421	0.389 1.564	4.790 19.148	7.6 31.3	5.8 23.8	5.2 20.7	
0.508	14.669	0.424	11.097	0.401	9.695	15.2	11.5	10.1	

							Emissi	ions (gram	/km)		
					РМ	PM	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban)	(inter)	(highway)	(non- exhaust)	(urban)	(inter)	(highway)
ID			yeai	year	35 km/h	55 km/h	80 km/h	extidusty	35 km/h	55 km/h	80 km/h
13	Gasoline >3.5t	Conventional	0	9999	0.400	0.400	0.400	0.060	4.500	7.500	7.500
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	0 1994	1993 1996	0.379	0.278 0.107	0.257	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.008	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2006	0.105	0.071	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5-12t Diesel RT 12-14 t	Euro V Conventional	2010	2014 1993	0.020	0.013	0.011	0.060	1.503 9.438	1.347 8.311	1.330 8.445
16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
16	Diesel RT 12–14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III Euro IV	2002	2006	0.109	0.077 0.014	0.072	0.060	4.913 2.935	4.029 2.499	3.844 2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro II Euro III	1997 2002	2001	0.137	0.111	0.112	0.060	7.724 6.315	6.335 4.989	6.058 4.624
17	Diesel RT 14-20t	Euro IV	2007	2009	0.030	0.020	0.017	0.060	3.734	3.017	2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18 18	Diesel RT 20-26t Diesel RT 20-26t	Conventional Euro I	0 1994	1993 1996	0.578	0.407 0.288	0.368	0.060	13.189 9.261	10.579 7.445	9.899 6.985
18	Diesel RT 20–26t	Euro II	1997	2001	0.183	0.136	0.152	0.060	9.856	7.830	7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro IV Euro V	2007 2010	2009	0.036	0.023	0.020	0.060	4.769 2.840	3.800 2.250	3.546 2.096
19	Diesel RT 26-28t	Conventional	0	1993	0.613	0.431	0.384	0.060	13.891	11.154	10.394
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro II Euro III	1997 2002	2001 2006	0.195	0.145 0.136	0.162 0.116	0.060	10.281 8.026	8.136 6.265	7.563 5.829
19	Diesel RT 26-28t	Euro IV	2007	2009	0.037	0.024	0.020	0.060	4.920	3.903	3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t Diesel RT 28-32t	Conventional Euro I	0 1994	1993 1996	0.678	0.479	0.426	0.060	15.696 11.194	12.868 9.086	11.970 8.470
20	Diesel RT 28-32t	Euro II	1997	2001	0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t Diesel RT 28-32t	Euro IV Euro V	2007 2010	2009	0.040	0.026 0.027	0.022	0.060	5.677 3.374	4.590 2.698	4.173 2.413
21	Diesel RT >32t	Conventional	0		0.681	0.481	0.432	0.060	16.129	12.809	11.740
21	Diesel RT >32t	Euro I	1994		0.524	0.349	0.307	0.060	11.428	9.055	8.322
21 21	Diesel RT >32t Diesel RT >32t	Euro III Euro IV	2002	2006	0.221	0.147 0.026	0.129	0.060	9.538 5.853	7.485 4.616	6.752 4.240
24	Diesel TT/AT 28-34t		0	1993	0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		1997 2002	2001	0.204	0.143	0.174	0.060	10.453 8.434	8.195 6.399	7.100 5.523
24	Diesel TT/AT 28-34t		2007	2009	0.035	0.022	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		0 1994	1993 1996	0.697 0.539	0.485 0.357	0.431	0.060	16.667 11.743	12.937 9.110	7.904
25	Diesel TT/AT 34-40t		1997	2001	0.243	0.166	0.202	0.060	12.255	9.433	8.176
25	Diesel TT/AT 34-40t		2002	2006	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2007 2010	2009	0.041	0.026 0.026	0.022	0.060	6.018 3.557	4.600 2.700	4.105 2.410
26	Diesel TT/AT 40-50t		0	1993	0.760	0.534	0.022	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t	Euro I	1994	1996	0.589	0.398	0.350	0.060	13.110	10.164	8.785
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		1997 2002	2001	0.273	0.189	0.227	0.060	13.610	10.454 8.275	9.009 7.184
26	Diesel TT/AT 40–50t		2002	2009	0.242	0.162	0.141	0.060	6.735	5.141	4.558
26	Diesel TT/AT 40-50t	Euro V	2010	2014	0.044	0.028	0.023	0.060	3.961	3.000	2.667
27 27	Diesel TT/AT 50-60t Diesel TT/AT 50-60t		1997 2007	2001	0.333	0.231	0.275	0.060	16.388 8.166	12.481 6.177	10.660 5.397
	DIESEL 11/AL 30-00[LUIU IV	2007	2009	0.049	0.031	0.020	0.000	0.100	0.1//	3.39/

Subu	rban	Inter	urban	Hig	hway	Suburban	Interurban	Highway
РМ	NO _x	PM	NO _x	PM	NO _x	SUM	SUM	SUM
			llutant per vehic				ecific external c	
8.299	1.471	8.299	1.471	8.299	1.471	cent/km	cent/km	cent/km
3.818	6.621	3.818	11.035	3.818	11.035	10.4	14.9	14.9
3.642	6.513	2.806	6.401	2.628	7.201	10.2	9.2	9.8
1.708 1.015	4.538 4.838	1.390 0.949	4.653 4.799	1.327 0.984	5.230 5.250	6.2 5.9	6.0 5.7	6.6 6.2
1.057	3.785	0.888	3.533	0.838	3.803	4.8	4.4	4.6
0.604	2.297	0.568	2.248	0.557	2.480	2.9	2.8	3.0
0.605	1.356	0.569	1.304	0.557	1.439	2.0	1.9	2.0
3.745	12.381	2.765	11.333	2.554	11.938	16.1	14.1	14.5
2.416 1.324	7.341 7.775	1.833 1.167	6.793 7.061	1.725 1.245	7.048 7.179	9.8	8.6 8.2	8.8 8.4
1.372	6.163	1.091	5.379	1.032	5.275	7.5	6.5	6.3
0.662	3.744	0.606	3.354	0.590	3.404	4.4	4.0	4.0
0.665	2.212	0.608	1.983	0.592	1.957	2.9	2.6	2.5
3.993	13.887	2.974	12.229	2.747	12.425	17.9	15.2	15.2
2.577 1.401	8.302 8.842	1.969 1.223	7.335 7.650	1.847 1.329	7.327 7.469	10.9	9.3 8.9	9.2 8.8
1.400	7.228	1.139	5.927	1.094	5.655	8.6	7.1	6.7
0.674	4.318	0.616	3.677	0.600	3.563	5.0	4.3	4.2
5.254	17.687	3.769	14.826	3.420	14.286	22.9	18.6	17.7
3.294	10.554	2.423	8.806	2.202	8.488	13.8	11.2	10.7
1.638 1.752	9.292	1.422 1.366	9.322 7.341	1.431 1.274	8.913 6.803	13.0 11.0	10.7 8.7	10.3 8.1
0.746	5.494	0.660	4.439	0.636	4.206	6.2	5.1	4.8
0.749	3.296	0.662	2.628	0.638	2.473	4.0	3.3	3.1
5.296	19.406	3.879	15.565	3.550	14.565	24.7	19.4	18.1
4.140	13.626	2.885	10.955	2.595	10.278	17.8	13.8	12.9
2.018	14.502 11.672	1.629 1.546	11.521 9.126	1.758 1.424	10.758 8.476	16.5 13.7	13.1	9.9
0.801	7.017	0.691	5.591	0.662	5.218	7.8	6.3	5.9
0.805	4.179	0.694	3.310	0.664	3.084	5.0	4.0	3.7
5.589	20.439	4.075	16.412	3.683	15.294	26.0	20.5	19.0
4.302	14.381	3.046	11.492	2.728	10.708	18.7	14.5	13.4
2.113 2.181	15.128 11.809	1.704 1.625	9.218	1.840 1.461	11.128 8.576	17.2 14.0	13.7 10.8	13.0
0.807	7.240	0.698	5.743	0.665	5.349	8.0	6.4	6.0
0.812	4.275	0.701	3.369	0.667	3.138	5.1	4.1	3.8
6.129	23.095	4.473	18.933	4.031	17.613	29.2	23.4	21.6
4.681 2.374	16.471 17.109	3.358 1.854	13.369 13.967	3.035 2.113	12.463 12.600	21.2 19.5	16.7 15.8	15.5 14.7
2.296	13.553	1.723	10.731	1.576	9.794	15.8	12.5	11.4
0.832	8.353	0.715	6.753	0.680	6.141	9.2	7.5	6.8
0.838	4.965	0.719	3.970	0.683	3.550	5.8	4.7	4.2
6.153	23.731	4.489	18.847	4.087	17.275	29.9	23.3	21.4
4.843 2.334	16.814 14.034	3.391 1.718	13.323 11.013	3.043 1.566	12.245 9.935	21.7 16.4	16.7 12.7	15.3 11.5
0.840	8.612	0.716	6.791	0.683	6.239	9.5	7.5	6.9
5.440	21.278	3.989	16.739	3.617	14.643	26.7	20.7	18.3
4.223	15.084	3.065	11.779	2.771	10.295	19.3	14.8	13.1
2.195	15.381	1.685	12.058	1.945	10.447	17.6	13.7	12.4
2.059 0.788	7.636	1.569 0.685	9.415 5.828	1.448 0.655	8.126 5.204	14.5 8.4	6.5	9.6 5.9
0.792	4.529	0.687	3.415	0.657	3.037	5.3	4.1	3.7
6.285	24.523	4.524	19.035	4.074	16.491	30.8	23.6	20.6
4.968	17.278	3.463	13.404	3.086	11.630	22.2	16.9	14.7
2.515 2.364	18.032 14.359	1.876 1.737	13.880 10.974	2.173 1.575	12.030 9.524	20.5 16.7	15.8 12.7	14.2 11.1
0.839	8.855	0.713	6.769	0.679	6.039	9.7	7.5	6.7
0.844	5.234	0.716	3.973	0.682	3.546	6.1	4.7	4.2
6.802	27.572	4.928	21.425	4.436	18.500	34.4	26.4	22.9
5.382	19.290	3.802	14.956	3.401	12.926	24.7	18.8	16.3
2.763 2.505	20.026 15.902	2.063 1.840	15.382 12.175	2.383 1.667	13.256 10.570	22.8 18.4	17.4 14.0	15.6 12.2
0.856	9.910	0.724	7.564	0.689	6.707	10.8	8.3	7.4
0.862	5.828	0.727	4.414	0.692	3.924	6.7	5.1	4.6
	24.112	2.413	18.365	2.783	15.684	27.4	20.8	18.5
3.265 0.904	12.016	0.754	9.089	0.714	7.941	12.9	9.8	8.7

14 Diesel RT 3.5-7.5t Conventional 0 1993 0.379 0.278 0.257 0.060 4.427 4.351 4.151												
Second S		O Locate						PM	PM	NO _x		
13 Gasoline > 3.5		Subsector	Tecn 2						•			
13				year	year	35 km/n	55 KM/N	80 km/n	exilaust)	35 KM/N	55 KM/N	80 KM/N
												7.500
14 Diesel RT 3.5-7.51 Euro III 1997 2001 0.062 0.054 0.059 0.060 3.288 3.262 3.261 3.261 4.161 4												4.894
Hear No. 3-7-55. Euro IV 2002 2006 2.067 0.047 0.041 0.060 2.573 2.401 1.528 1.61												3.555
15 Diesel RT 3-5-75 Euror V 2010 2014 0.013 0.009 0.007 0.060 0.922 0.886 0.95												2.585
Diesel RT 7.5-12												1.686
Diesel RT 7.5-121 Euro I 1994 1996 0.231 0.161 0.148 0.000 4.989 4.616 4.77												0.978
Diesel RT 7.5-12E Euro III 1997 2001 0.100 0.081 0.090 0.060 5.284 4.799 4.8.												8.114 4.790
Diesel RT 7.5-12t Euro IV 2007 2009 0.020 0.013 0.011 0.060 2.544 2.280 2.31												4.879
15 Diesel RT 12-14 t Conventional 0.1993 0.421 0.029 0.013 0.011 0.060 1.503 1.347 1.33 1.34 1.35 1.34 1.												3.585
												2.313
16			-									1.330 8.445
16 DieseR RT 12-14 t Euro II 1997 2001 0.109 0.087 0.100 0.060 6.009 5.199 3.89 16 DieseR RT 12-14 t Euro IV 2007 2009 0.021 0.014 0.012 0.060 2.935 2.499 3.81 17 DieseR RT 14-20t Euro I 1994 1996 0.337 0.332 0.250 0.060 7.173 5.985 5.77 17 DieseR RT 14-20t Euro I 1994 1996 0.337 0.332 0.250 0.060 7.173 5.985 5.77 17 DieseR RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 0.60 7.173 5.985 5.77 17 DieseR RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 4.999 4.65 17 DieseR RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 4.999 4.65 18 DieseR RT 14-20t Euro IV 2017 2009 0.030 0.020 0.017 0.060 5.315 4.999 4.65 18 DieseR RT 14-20t Euro IV 2010 2014 0.030 0.020 0.017 0.060 5.315 4.999 4.65 18 DieseR RT 20-26t Euro IV 2010 2014 0.030 0.020 0.017 0.060 5.240 1.786 1.65 18 DieseR RT 20-26t Euro II 1994 1996 0.439 0.288 0.253 0.060 0.261 7.445 6.99 18 DieseR RT 20-26t Euro II 1999 2001 0.183 0.136 0.152 0.060 9.261 7.445 6.99 18 DieseR RT 20-26t Euro II 2002 2006 0.130 0.126 0.112 0.060 9.365 7.830 7.33 18 DieseR RT 20-26t Euro II 2002 2006 0.193 0.125 0.112 0.060 9.365 7.830 7.33 18 DieseR RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 4.769 3.800 3.200 3.600												4.980
Diesel RT 12-10 Conventional 0 1993 0.573 0.394 0.012 0.060 2.935 2.499 2.471	16			1997	2001		0.087					5.076
Diesel RT 14-20t Conventional 0 1993 0.573 0.394 0.352 0.060 12.021 10.076 9.7 To Diesel RT 14-20t Euro II 1994 1996 0.337 0.322 0.205 0.060 7.173 5.985 5.7 To Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 6.0 To Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.88 To Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.88 To Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.88 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.88 Diesel RT 20-26t Euro II 1994 1996 0.439 0.288 0.253 0.060 0.521 7.445 6.9 To Diesel RT 20-26t Euro II 1994 1996 0.439 0.288 0.253 0.060 9.856 7.830 7.33 B Diesel RT 20-26t Euro III 2002 2006 0.190 0.126 0.112 0.060 7.933 6.202 5.74 B Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 4.759 3.000 3.55 B Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 4.759 3.000 3.55 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.024 0.020 0.060 2.840 2.250 2.00 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.264 0.020 0.060 0.284 0.255 2.00 Diesel RT 26-28t Euro II 1997 2001 0.195 0.145 0.162 0.060 0.9774 7.811 7.2 Diesel RT 26-28t Euro II 1997 2001 0.195 0.145 0.162 0.060 0.9714 7.811 7.2 Diesel RT 26-28t Euro II 1997 2001 0.195 0.145 0.162 0.060 0.9714 7.811 7.2 Diesel RT 26-28t Euro II 1997 2001 0.037 0.024 0.020 0.060 0.295 0.295 2.290 2.10 Diesel RT 26-28t Euro II 1997 2001 0.037 0.024 0.020 0.060 0.9714 7.811 7.2 Diesel RT 26-28t Euro II 1997 2001 0.045 0.037 0.024 0.020 0.060 0.975 7.74												3.844
Diesel RT 14-20t Euro II 1994 1996 0.337 0.232 0.205 0.060 7.173 5.985 5.70			_									2.421
Diesel RT 14-20t Euro III 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 6.017												5.769
Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.81												6.058
Diesel RT 12-26t		Diesel RT 14-20t			2006						4.989	4.624
Diesel RT 20-26t Euro II 1997 2010 0.183 0.288 0.253 0.060 9.261 7.445 6.99 18 Diesel RT 20-26t Euro II 1997 2001 0.183 0.136 0.152 0.060 9.261 7.445 6.99 18 Diesel RT 20-26t Euro III 2002 2006 0.190 0.126 0.112 0.060 9.261 7.445 6.99 18 Diesel RT 20-26t Euro III 2002 2006 0.190 0.126 0.112 0.060 7.933 6.202 5.71 18 Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 4.769 3.800 3.55 18 Diesel RT 20-26t Euro IV 2010 2014 0.037 0.024 0.020 0.060 2.840 2.250 2.03 18 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.024 0.020 0.060 0.891 1.1154 10.33 19 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.269 0.060 0.9774 7.811 7.25 19 Diesel RT 26-28t Euro II 1997 2001 0.195 0.145 0.165 0.060 0.281 8.136 7.55 19 Diesel RT 26-28t Euro III 2002 2006 0.203 0.136 0.116 0.060 8.026 6.265 5.85 19 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.65 19 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.65 19 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.65 19 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.65 19 Diesel RT 28-32t Euro II 1994 1996 0.548 0.479 0.426 0.060 1.5696 12.868 11.94 0.068 0.069												2.858
Diesel RT 20-26t												1.681
Diesel RT 20-26t												6.985
18												7.311
Diesel RT 20-26t	18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
Diesel RT 26-28t												3.546
Diesel RT 26-28t												2.096
Diesel RT 26-28t Euro II 1997 2001 0.195 0.145 0.162 0.060 10.281 8.136 7.55												7.278
Diesel RT 26-28t												7.563
Diesel RT 26-28t Euro V 2010 2014 0.038 0.024 0.020 0.060 2.905 2.290 2.12												5.829
Diesel RT 28-32t Euro II 1994 1996 0.504 0.345 0.306 0.060 15.696 12.868 11.91												3.635
Diesel RT 28-32t												2.133
Diesel RT 28-32t												8.470
Diesel RT 28-32t			-									8.563
Diesel RT 28-32t Euro V 2010 2014 0.041 0.027 0.022 0.060 3.374 2.698 2.42 2.42 Diesel RT > 32t Conventional 0 1993 0.681 0.481 0.432 0.060 16.129 12.809 11.74 1.74 1.74 1.74 1.74 1.74 1.74 1.75												6.656
Diesel RT > 32t Conventional O 1993 O.681 O.481 O.432 O.660 16.129 12.809 11.72												4.173
Diesel RT > 32t												
Diesel RT > 32t												8.322
24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.95 24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.99 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.10 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 8.434 6.399 5.55 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 3.078 2.321 2.00 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.20 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312		Diesel RT >32t	Euro III	2002							7.485	6.752
24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.99 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.10 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.00 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 11.743 9.110 7.90 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312			-									4.240
Diese TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.106												9.952
Diese TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.52		· · · · · · · · · · · · · · · · · · ·										7.100
24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.55 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.06 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.20 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.90 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.17 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022		•	-									5.523
Diesel TT/AT 34-40t Conventional O 1993 O.697 O.485 O.431 O.060 16.667 12.937 11.207 12.50 Diesel TT/AT 34-40t Euro I 1994 1996 O.539 O.357 O.312 O.060 11.743 9.110 7.907 7.908		· · · · · · · · · · · · · · · · · · ·										3.537
25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.90 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.17 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.47 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.10 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.57 26 Diesel TT/AT 40-50t Euro II 1994 1996 0.589 0.398 0.350		·										2.064
Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.17 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.47 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.10 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.70 26 Diesel TT/AT 40-50t Euro III 1997 2001 0.273 0.189 0.227 0.060												11.208
25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.47 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.10 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.41 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.78 26 Diesel TT/AT 40-50t Euro III 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.00 26 Diesel TT/AT 40-50t Euro IV 2007 2009 0.042 0.162 0.141												7.904 8.176
25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.10 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.41 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.57 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.74 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.00 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.16 26 Diesel TT/AT 40-50t Euro IV 2007 2009 0.043 0.027 0.023												6.473
26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.55 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.78 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.00 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.18 26 Diesel TT/AT 40-50t Euro IV 2007 2009 0.043 0.027 0.023 0.060 6.735 5.141 4.59 26 Diesel TT/AT 40-50t Euro V 2010 2014 0.044 0.028 0.023 0.060 3.961 3.000 2.60 27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275	25											4.105
26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.78 26 Diesel TT/AT 40-50t Euro III 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.00 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.18 26 Diesel TT/AT 40-50t Euro IV 2007 2009 0.043 0.027 0.023 0.060 6.735 5.141 4.59 26 Diesel TT/AT 40-50t Euro V 2010 2014 0.044 0.028 0.023 0.060 3.961 3.000 2.60 27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.60		· · · · · · · · · · · · · · · · · · ·										2.410
26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.00 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.18 26 Diesel TT/AT 40-50t Euro IV 2007 2009 0.043 0.027 0.023 0.060 6.735 5.141 4.59 26 Diesel TT/AT 40-50t Euro V 2010 2014 0.044 0.028 0.023 0.060 3.961 3.000 2.60 27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.60												12.573
26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.18 26 Diesel TT/AT 40-50t Euro IV 2007 2009 0.043 0.027 0.023 0.060 6.735 5.141 4.59 26 Diesel TT/AT 40-50t Euro V 2010 2014 0.044 0.028 0.023 0.060 3.961 3.000 2.60 27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.60												8.785 9.009
26 Diesel TT/AT 40-50t Euro IV 2007 2009 0.043 0.027 0.023 0.060 6.735 5.141 4.55 26 Diesel TT/AT 40-50t Euro V 2010 2014 0.044 0.028 0.023 0.060 3.961 3.000 2.66 27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.66												7.184
26 Diesel TT/AT 40-50t Euro V 2010 2014 0.044 0.028 0.023 0.060 3.961 3.000 2.66 27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.66												4.558
	26	Diesel TT/AT 40-50t	Euro V		2014	0.044	0.028	0.023	0.060	3.961	3.000	2.667
27 Diesei II/AI 50-but Euro IV 2007 2009 0.049 0.031 0.026 0.060 8.166 6.177 5.39												10.660
* Heavy Duty Vehicles		•	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.1/7	5.397

^{*} Heavy Duty Vehicles

Sub	ourban	Inte	erurban	н	ighway	Suburban	Interurban	Highwa	
РМ	NO _x	PM ent/gram per ¡	NO_x pollutant per vehi	РМ	NO _x	SUM	SUM ecific external c	SUM	
3.094	1.191	3.094	1.191	3.094	1.191	cent/km	cent/km	cent/km	
1.423	5.359	1.423	8.932	1.423	8.932	6.8	10.4	10.4	
1.358	5.272	1.046	5.181	0.980	5.829	6.6	6.2	6.8	
0.637	3.673	0.518	3.766	0.495	4.233	4.3	4.3	4.7	
0.378	3.916 3.064	0.354	3.885 2.860	0.367	4.249 3.078	3.5	4.2 3.2	4.6 3.4	
0.225	1.859	0.212	1.820	0.208	2.008	2.1	2.0	2.2	
0.226	1.097	0.212	1.055	0.208	1.164	1.3	1.3	1.4	
1.396	10.021	1.031	9.173	0.952	9.663	11.4	10.2	10.6	
0.901	5.942 6.293	0.683 0.435	5.498 5.715	0.643 0.464	5.705 5.811	6.8	6.2	6.3	
0.494	4.988	0.433	4.354	0.385	4.270	5.5	4.8	4.7	
0.247	3.030	0.226	2.715	0.220	2.755	3.3	2.9	3.0	
0.248	1.790	0.227	1.605	0.221	1.584	2.0	1.8	1.8	
1.489	11.241	1.109	9.899	1.024	10.057	12.7	11.0	11.1	
0.961 0.522	6.720 7.157	0.734 0.456	5.937 6.192	0.689 0.495	5.931 6.046	7.7	6.7 6.6	6.6	
0.522	5.851	0.425	4.798	0.408	4.578	6.4	5.2	5.0	
0.251	3.495	0.230	2.977	0.224	2.884	3.7	3.2	3.1	
1.959	14.316	1.405	12.001	1.275	11.564	16.3	13.4	12.8	
1.228	8.543	0.903	7.128	0.821	6.870	9.8	8.0	7.7	
0.611	9.199 7.521	0.530 0.509	7.545 5.942	0.534 0.475	7.215 5.507	9.8 8.2	8.1 6.5	7.7 6.0	
0.278	4.447	0.246	3.593	0.237	3.404	4.7	3.8	3.6	
0.279	2.668	0.247	2.127	0.238	2.002	2.9	2.4	2.2	
1.975	15.708	1.446	12.599	1.324	11.789	17.7	14.0	13.1	
1.543 0.752	11.029	1.076	8.867	0.967	8.319	12.6 12.5	9.9 9.9	9.3 9.4	
0.732	11.738 9.448	0.607 0.576	9.325 7.387	0.655 0.531	8.708 6.860	10.2	8.0	7.4	
0.299	5.680	0.258	4.525	0.247	4.223	6.0	4.8	4.5	
0.300	3.383	0.259	2.679	0.248	2.497	3.7	2.9	2.7	
2.084	16.544	1.519	13.284	1.373	12.379	18.6	14.8	13.8	
1.604 0.788	11.640 12.245	1.136 0.635	9.302 9.690	1.017 0.686	8.668 9.007	13.2 13.0	10.4	9.7 9.7	
0.788	9.558	0.606	7.461	0.545	6.942	10.4	8.1	7.5	
0.301	5.860	0.260	4.649	0.248	4.329	6.2	4.9	4.6	
0.303	3.460	0.261	2.727	0.249	2.540	3.8	3.0	2.8	
2.285	18.693 13.332	1.668 1.252	15.325	1.503 1.131	14.256	21.0 15.1	17.0 12.1	15.8 11.2	
1.745 0.885	13.849	0.691	10.821 11.305	0.788	10.088 10.199	14.7	12.1	11.0	
0.856	10.970	0.642	8.686	0.587	7.927	11.8	9.3	8.5	
0.310	6.761	0.267	5.466	0.254	4.970	7.1	5.7	5.2	
0.312	4.019	0.268	3.214	0.255	2.874	4.3	3.5	3.1	
2.294 1.806	19.209 13.610	1.674 1.264	15.255 10.784	1.524 1.135	13.983 9.911	21.5 15.4	16.9 12.0	15.5 11.0	
0.870	11.359	0.641	8.915	0.584	8.042	12.2	9.6	8.6	
0.313	6.971	0.267	5.497	0.255	5.050	7.3	5.8	5.3	
2.028	17.223	1.487	13.549	1.348	11.852	19.3	15.0	13.2	
1.575 0.818	12.209 12.450	1.143 0.628	9.534 9.760	1.033 0.725	8.333 8.456	13.8	10.7 10.4	9.4	
0.768	10.045	0.585	7.621	0.723	6.577	10.8	8.2	7.1	
0.294	6.181	0.255	4.717	0.244	4.212	6.5	5.0	4.5	
0.295	3.666	0.256	2.764	0.245	2.459	4.0	3.0	2.7	
2.343	19.850	1.687	15.407	1.519	13.348	22.2	17.1	14.9	
1.852 0.938	13.985 14.595	1.291 0.699	10.850 11.234	1.151 0.810	9.414 9.738	15.8 15.5	12.1 11.9	10.6 10.5	
0.881	11.623	0.648	8.882	0.587	7.709	12.5	9.5	8.3	
0.313	7.168	0.266	5.479	0.253	4.889	7.5	5.7	5.1	
0.315	4.237	0.267	3.216	0.254	2.870	4.6	3.5	3.1	
2.536	22.317 15.614	1.837 1.417	17.342 12.106	1.654 1.268	14.974 10.462	24.9 17.6	19.2 13.5	16.6 11.7	
1.030	16.209	0.769	12.451	0.888	10.730	17.2	13.2	11.6	
0.934	12.872	0.686	9.855	0.622	8.556	13.8	10.5	9.2	
0.319	8.021	0.270	6.123	0.257	5.429	8.3	6.4	5.7	
0.321	4.717	0.271	3.573	0.258	3.176	5.0	3.8	3.4	
1.217 0.337	19.517 9.726	0.900 0.281	14.865 7.357	1.038 0.266	12.695 6.428	20.7 10.1	7.6	13.7 6.7	
0.557	9.720	0.201	7.557	0.200	0.720		7.0	0.7	

29

							Emissi	ons (gram	ı/km)		
Cook	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	ou killyll
13	Gasoline >3.5t	Conventional	0	9999	0.400	0.400	0.400	0.060	4.500	7.500	7.500
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1993 1996	0.379	0.278 0.107	0.257	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14	Diesel RT 3.5-7.5t	Euro III	2002	2006	0.067	0.047	0.041	0.060	2.573	2.401	2.585
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro IV Euro V	2007 2010	2009	0.013	0.008	0.007	0.060	1.561 0.922	1.528 0.886	1.686 0.978
15	Diesel RT 7.5–12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15	Diesel RT 7.5-12t	Euro I	1994	1996	0.231	0.161	0.148	0.060	4.989	4.616	4.790
15 15	Diesel RT 7.5-12t Diesel RT 7.5-12t	Euro II Euro III	1997 2002	2001	0.100	0.081	0.090	0.060	5.284 4.188	4.799 3.656	4.879 3.585
15	Diesel RT 7.5–12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15	Diesel RT 7.5-12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	0 1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16	Diesel RT 12-14 t	Euro IV	2007	2009	0.021	0.014	0.012	0.060	2.935	2.499	2.421
17 17	Diesel RT 14-20t Diesel RT 14-20t	Conventional Euro I	0 1994	1993 1996	0.573 0.337	0.394 0.232	0.352 0.205	0.060	7.173	10.076 5.985	9.710 5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17	Diesel RT 14-20t	Euro III	2002	2006	0.151	0.105	0.094	0.060	6.315	4.989	4.624
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro IV Euro V	2007 2010	2009	0.030	0.020	0.017	0.060	3.734 2.240	3.017 1.786	2.858 1.681
18	Diesel RT 20–26t	Conventional	0	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18	Diesel RT 20-26t	Euro I	1994	1996	0.439	0.288	0.253	0.060	9.261	7.445	6.985
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro III	1997 2002	2001	0.183	0.136 0.126	0.152	0.060	9.856 7.933	7.830 6.202	7.311 5.760
18	Diesel RT 20–26t	Euro IV	2002	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18	Diesel RT 20-26t	Euro V	2010	2014	0.037	0.024	0.020	0.060	2.840	2.250	2.096
19 19	Diesel RT 26–28t Diesel RT 26–28t	Conventional Euro I	0 1994	1993 1996	0.613	0.431	0.384	0.060	13.891 9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.438	0.145	0.162	0.060	10.281	8.136	7.563
19	Diesel RT 26-28t	Euro III	2002	2006	0.203	0.136	0.116	0.060	8.026	6.265	5.829
19	Diesel RT 26–28t	Euro IV	2007 2010	2009	0.037	0.024 0.024	0.020	0.060	4.920	3.903	3.635
19 20	Diesel RT 26-28t Diesel RT 28-32t	Euro V Conventional	2010	1993	0.038	0.024	0.020	0.060	2.905 15.696	2.290 12.868	2.133 11.970
20	Diesel RT 28-32t	Euro I	1994	1996	0.504	0.345	0.306	0.060	11.194	9.086	8.470
20	Diesel RT 28-32t	Euro II	1997	2001	0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t Diesel RT 28-32t	Euro III Euro IV	2002	2006	0.217	0.148	0.130	0.060	9.211 5.677	7.293 4.590	6.656 4.173
20	Diesel RT 28-32t	Euro V	2010	2014	0.041	0.027	0.022	0.060	3.374	2.698	2.413
21	Diesel RT >32t	Conventional	0		0.681	0.481	0.432	0.060	16.129	12.809	11.740
21 21	Diesel RT >32t Diesel RT >32t	Euro III	1994 2002	1996 2006	0.524	0.349 0.147	0.307	0.060	9.538	9.055 7.485	8.322 6.752
21	Diesel RT >32t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	5.853	4.616	4.240
24	Diesel TT/AT 28-34t		0	1993	0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		1994 1997	1996 2001	0.449	0.309	0.274	0.060	10.252	8.006 8.195	6.997 7.100
24	Diesel TT/AT 28-34t	-	2002	2001	0.204	0.143	0.114	0.060	8.434	6.399	5.523
24	Diesel TT/AT 28-34t	Euro IV	2007	2009	0.035	0.022	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		0 1994	1993 1996	0.697 0.539	0.485 0.357	0.431	0.060	16.667 11.743	12.937 9.110	7.904
25	Diesel TT/AT 34-40t		1997	2001	0.243	0.166	0.202	0.060	12.255	9.433	8.176
25	Diesel TT/AT 34-40t		2002	2006	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2007 2010	2009	0.041	0.026 0.026	0.022	0.060	6.018 3.557	4.600 2.700	4.105 2.410
26	Diesel TT/AT 40-50t		0	1993	0.760	0.534	0.475	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t		1994	1996	0.589	0.398	0.350	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40–50t		1997 2002	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III	2002	2006	0.242	0.162	0.141	0.060	10.808	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t	Euro V	2010	2014	0.044	0.028	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t		1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	rban	High	wav	Suburban	Interurban	Highway
РМ	NO _x	PM	NO _x	PM	NO _x	SUM	SUM	SUM
		nt/gram per poll			^	country spe	ecific external c	
7.086	2.699	7.086	2.699	7.086	2.699	cent/km	cent/km	cent/km
3.260	12.147	3.260	20.245	3.260	20.245	15.4	23.5	23.5
3.110 1.459	11.949 8.325	2.396 1.187	11.744 8.536	2.244 1.133	13.212 9.595	9.8	9.7	15.5 10.7
0.866	8.876	0.810	8.805	0.840	9.631	9.7	9.6	10.7
0.903	6.945	0.758	6.482	0.716	6.977	7.8	7.2	7.7
0.516 0.517	4.213	0.485	4.124 2.392	0.475 0.476	4.550 2.639	4.7 3.0	4.6	5.0
3.198	2.487 22.713	0.485 2.361	20.791	2.181	21.902	25.9	2.9	3.1 24.1
2.063	13.468	1.565	12.462	1.473	12.930	15.5	14.0	14.4
1.131	14.264	0.997	12.954	1.063	13.171	15.4	14.0	14.2
1.171 0.565	11.306 6.868	0.931 0.518	9.868 6.154	0.881	9.678 6.245	<u>12.5</u> 7.4	6.7	10.6 6.7
0.568	4.058	0.519	3.637	0.505	3.590	4.6	4.2	4.1
3.409	25.478	2.540	22.435	2.346	22.795	28.9	25.0	25.1
2.201 1.196	15.231 16.221	1.681 1.044	13.457 14.034	1.577 1.134	13.442 13.703	17.4 17.4	15.1 15.1	15.0 14.8
1.196	13.261	0.972	10.875	0.934	10.375	14.5	11.8	11.3
0.576	7.922	0.526	6.746	0.512	6.536	8.5	7.3	7.0
4.486	32.449	3.218	27.200	2.920	26.210	36.9	30.4	29.1
2.813 1.399	19.363 20.851	2.069 1.214	16.156 17.101	1.880	15.572 16.352	22.2	18.2 18.3	17.5 17.6
1.496	17.047	1.166	13.467	1.088	12.482	18.5	14.6	13.6
0.637	10.079	0.563	8.145	0.543	7.715	10.7	8.7	8.3
0.640	6.047	0.565	4.821	0.544	4.538	6.7	5.4	5.1
4.522 3.535	35.603 24.998	3.312 2.463	28.555 20.097	3.031 2.216	26.721 18.856	40.1 28.5	31.9 22.6	29.8 21.1
1.723	26.605	1.391	21.136	1.501	19.736	28.3	22.5	21.2
1.769	21.413	1.320	16.743	1.216	15.549	23.2	18.1	16.8
0.684	12.874 7.667	0.590 0.592	10.256 6.073	0.566 0.567	9.572 5.659	13.6 8.4	10.8 6.7	6.2
4.772	37.497	3.479	30.108	3.145	28.057	42.3	33.6	31.2
3.673	26.383	2.601	21.083	2.330	19.645	30.1	23.7	22.0
1.804	27.753	1.455	21.962	1.571	20.415	29.6	23.4	22.0
1.862 0.689	21.664 13.282	1.387 0.596	16.911 10.536	1.247 0.568	15.734 9.813	23.5 14.0	18.3 11.1	17.0 10.4
0.693	7.842	0.598	6.180	0.570	5.757	8.5	6.8	6.3
5.233	42.369	3.819	34.734	3.442	32.312	47.6	38.6	35.8
3.997 2.027	30.217 31.388	2.867 1.583	24.526 25.623	2.591 1.805	22.864 23.116	34.2	27.4 27.2	25.5 24.9
1.960	24.864	1.471	19.686	1.345	17.968	26.8	21.2	19.3
0.710	15.324	0.611	12.390	0.581	11.265	16.0	13.0	11.8
0.715	9.109	0.614	7.284	0.583	6.513	9.8	7.9	7.1
5.254 4.135	43.537 30.848	3.833 2.895	34.576 24.443	3.489 2.599	31.692 22.464	48.8 35.0	38.4 27.3	35.2 25.1
1.993	25.746	1.467	20.205	1.337	18.226	27.7	21.7	19.6
0.717	15.799	0.611	12.459	0.583	11.446	16.5	13.1	12.0
4.645 3.606	39.036 27.673	3.406 2.617	30.710 21.610	3.088 2.366	26.863 18.887	43.7 31.3	34.1 24.2	30.0 21.3
1.874	28.218	1.439	22.121	1.660	19.166	30.1	23.6	20.8
1.758	22.767	1.339	17.272	1.236	14.908	24.5	18.6	16.1
0.672	14.009	0.584	10.692	0.559	9.548	14.7	11.3	10.1
0.676 5.366	8.309 44.990	0.587 3.863	6.266 34.921	0.561 3.479	5.572 30.254	9.0 50.4	6.9 38.8	6.1 33.7
4.242	31.698	2.957	24.592	2.635	21.337	35.9	27.5	24.0
2.147	33.081	1.602	25.463	1.856	22.070	35.2	27.1	23.9
2.018 0.716	26.344 16.246	1.483 0.609	20.132 12.418	1.345 0.580	17.473 11.080	<u>28.4</u> 17.0	21.6 13.0	18.8 11.7
0.716	9.603	0.611	7.289	0.580	6.506	10.3	7.9	7.1
5.808	50.583	4.207	39.306	3.788	33.940	56.4	43.5	37.7
4.596	35.389	3.246	27.437	2.904	23.713	40.0	30.7	26.6
2.359	36.739 29.174	1.761 1.571	28.220 22.337	2.035 1.423	24.320 19.392	39.1 31.3	30.0 23.9	26.4
0.731	18.181	0.618	13.877	0.588	12.304	18.9	14.5	12.9
0.736	10.692	0.621	8.097	0.591	7.198	11.4	8.7	7.8
2.788	44.236	2.060	33.692	2.376	28.774	47.0	35.8	31.2
0.772	22.044	0.644	16.675	0.610	14.569	22.8	17.3	15.2

	Emissions (gram/km)										
Sub	Subsector	Tech 2	First	Last	PM (urban)	PM (inter)	PM (highway)	PM (non-	NO_x (urban)	NO _x (inter)	NO _x (highway)
sector			year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	55 km/h	80 km/h
ID	Caralina v 2 Ft	Campantianal		0000	0.400	0.400	0.400	0.060		7.500	7.500
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0		0.400	0.400 0.278	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5-7.5t	Euro I	1994	1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14	Diesel RT 3.5–7.5t	Euro III	1997		0.062	0.054 0.047	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro IV	2002 2007		0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010		0.013	0.009	0.007	0.060	0.922	0.886	0.978
15 15	Diesel RT 7.5-12t	Conventional	0 1994		0.391	0.273 0.161	0.248	0.060	8.414 4.989	7.702 4.616	8.114 4.790
15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994		0.231	0.181	0.090	0.060	5.284	4.799	4.790
15	Diesel RT 7.5-12t	Euro III	2002		0.105	0.071	0.064	0.060	4.188	3.656	3.585
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro IV Euro V	2007 2010		0.020	0.013 0.013	0.011	0.060	2.544 1.503	2.280 1.347	2.313 1.330
16	Diesel RT 12–14 t	Conventional	2010		0.020	0.013	0.011	0.060	9.438	8.311	8.445
16	Diesel RT 12-14 t	Euro I	1994		0.251	0.177	0.163	0.060	5.642	4.985	4.980
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III	1997 2002		0.109	0.087 0.077	0.100	0.060	6.009 4.913	5.199 4.029	5.076 3.844
16	Diesel RT 12-14 t	Euro IV	2002		0.109	0.077	0.072	0.060	2.935	2.499	2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17 17	Diesel RT 14-20t	Euro I	1994		0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t Diesel RT 14-20t	Euro II Euro III	1997 2002	2001	0.137	0.111	0.112	0.060	7.724 6.315	6.335 4.989	6.058 4.624
17	Diesel RT 14-20t	Euro IV	2007		0.030	0.020	0.017	0.060	3.734	3.017	2.858
17	Diesel RT 14-20t	Euro V	2010		0.030	0.020	0.017	0.060	2.240	1.786	1.681
18 18	Diesel RT 20-26t Diesel RT 20-26t	Conventional Euro I	0 1994		0.578	0.407 0.288	0.368	0.060	13.189 9.261	10.579 7.445	9.899 6.985
18	Diesel RT 20-26t	Euro II	1997		0.183	0.136	0.152	0.060	9.856	7.830	7.311
18	Diesel RT 20–26t	Euro III	2002		0.190	0.126	0.112	0.060	7.933	6.202	5.760
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro IV Euro V	2007 2010		0.036	0.023 0.024	0.020	0.060	4.769 2.840	3.800 2.250	3.546 2.096
19	Diesel RT 26-28t	Conventional	0		0.613	0.431	0.384	0.060	13.891	11.154	10.394
19	Diesel RT 26–28t	Euro I	1994		0.458	0.307	0.269	0.060	9.774	7.811	7.278
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro II Euro III	1997 2002		0.195	0.145 0.136	0.162 0.116	0.060	10.281 8.026	8.136 6.265	7.563 5.829
19	Diesel RT 26-28t	Euro IV	2007		0.037	0.024	0.020	0.060	4.920	3.903	3.635
19	Diesel RT 26-28t	Euro V	2010		0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t Diesel RT 28-32t	Conventional Euro I	0 1994		0.678	0.479 0.345	0.426	0.060	15.696 11.194	12.868 9.086	11.970 8.470
20	Diesel RT 28-32t	Euro II	1997		0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t	Euro III	2002		0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t Diesel RT 28-32t	Euro IV Euro V	2007 2010		0.040	0.026 0.027	0.022	0.060	5.677 3.374	4.590 2.698	4.173 2.413
21	Diesel RT >32t	Conventional	0		0.681	0.481	0.432	0.060	16.129	12.809	11.740
21	Diesel RT >32t	Euro I	1994		0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t Diesel RT >32t	Euro III Euro IV	2002 2007		0.221	0.147 0.026	0.129	0.060	9.538 5.853	7.485 4.616	6.752 4.240
24			0		0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t	Euro I	1994		0.449	0.309	0.274	0.060	10.252	8.006	6.997
24 24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t	Euro III	1997 2002		0.204	0.143	0.174	0.060	10.453 8.434	8.195 6.399	7.100 5.523
24	Diesel TT/AT 28-34t	Euro IV	2002		0.035	0.022	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t		2010		0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		0 1994		0.697 0.539	0.485 0.357	0.431	0.060	16.667 11.743	12.937 9.110	7.904
25	Diesel TT/AT 34–40t		1997		0.243	0.166	0.202	0.060	12.255	9.433	8.176
25	Diesel TT/AT 34-40t	Euro III	2002		0.225	0.149	0.130	0.060	9.759	7.458	6.473
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2007 2010		0.041	0.026 0.026	0.022	0.060	6.018 3.557	4.600 2.700	4.105 2.410
26	Diesel TT/AT 40–50t		2010		0.760	0.026	0.022	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t	Euro I	1994	1996	0.589	0.398	0.350	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t		1997		0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		2002 2007		0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t	Euro V	2010	2014	0.044	0.028	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t		1997		0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

NO. PM NO. Cent/yeram per pollutant per vehicle	Subur	han	Inter	urhan	High	ıway	Cubuubaa	Totaviul
0.150		NO _x	РМ	NO _x	РМ	•		
0.143	0.326	0.179	0.326	0.179	0.326	0.179	cent/km	cent/km
0.067	0.150	0.808	0.150	1.346	0.150	1.346	1.0	1.5
0.040	0.143						0.9	
0.042								
0.024		-						
0.024								
0.147								
0.052 0.948 0.046 0.861 0.049 0.876 1.0 0.9 0.026 0.457 0.024 0.409 0.023 0.415 0.5 0.4 0.026 0.270 0.024 0.409 0.023 0.415 0.5 0.4 0.026 0.270 0.024 0.249 0.023 0.415 0.5 0.4 0.101 1.013 0.072 0.088 0.933 0.052 0.911 1.1 1.0 0.055 1.079 0.048 0.933 0.052 0.911 1.1 1.0 0.055 1.079 0.048 0.933 0.052 0.911 1.1 1.0 0.055 1.082 0.048 0.933 0.052 0.911 1.1 1.0 0.027 0.5227 0.024 0.449 0.024 0.435 0.6 0.5 0.207 2.158 0.148 1.809 0.134 1.743 0.4 0.163 1.259 </td <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>					_			
0.054 0.752 0.043 0.656 0.041 0.644 0.8 0.7 0.026 0.270 0.024 0.242 0.023 0.239 0.3 0.3 0.157 1.694 0.117 1.492 0.189 1.516 1.9 1.6 0.101 1.013 0.077 0.895 0.073 0.894 1.1 1.0 0.055 1.079 0.048 0.933 0.052 0.911 1.1 1.0 0.055 1.079 0.048 0.933 0.052 0.911 1.1 1.0 0.055 1.079 0.048 0.933 0.689 0.9 0.8 0.027 0.527 0.024 0.449 0.024 0.435 0.6 0.5 0.027 0.527 0.024 0.449 0.024 0.435 0.6 0.5 0.020 1.131 0.095 0.007 0.074 0.087 1.05 1.4 1.2 0.0 1.1 0.009	0.095	0.896	0.072	0.829	0.068	0.860	1.0	
0.026								
0.026 0.270 0.024 0.124 0.023 0.23 0.23 0.3 0.3 0.15 0.157 1.694 0.117 1.492 0.108 1.516 1.9 1.6 0.101 1.013 0.077 0.895 0.073 0.894 1.1 1.0 0.055 1.079 0.048 0.933 0.052 0.911 1.1 1.0 0.055 0.882 0.045 0.723 0.043 0.690 0.9 0.8 0.027 0.527 0.024 0.449 0.024 4.435 0.6 0.5 0.207 2.158 0.148 1.809 0.134 1.743 2.4 2.0 0.130 1.287 0.095 1.074 0.067 1.035 1.4 1.2 0.005 1.005 0.005								
0.157								
0.101			_					
0.055 0.882 0.045 0.723 0.024 0.435 0.6 0.5 0.027 0.527 0.024 0.449 0.024 0.435 0.6 0.5 0.207 2.158 0.148 1.809 0.134 1.742 2.4 2.0 0.130 1.287 0.095 1.074 0.087 1.035 1.4 1.2 0.064 1.386 0.056 1.137 0.056 1.035 1.4 1.2 0.0 0.069 1.133 0.054 0.895 0.050 0.830 1.2 0.9 0.029 0.670 0.026 0.542 0.025 0.513 0.7 0.6 0.029 0.402 0.026 0.521 0.025 0.513 0.7 0.6 0.208 2.367 0.153 1.899 0.140 1.777 2.6 2.1 0.163 1.662 0.113 1.336 0.102 1.25 1.8 1.4 0.079								
0.027 0.527 0.024 0.449 0.024 0.435 0.6 0.5 0.207 2.158 0.148 1.899 0.134 1.743 2.4 2.0 0.130 1.287 0.095 1.074 0.087 1.035 1.4 1.2 0.069 1.133 0.054 0.895 0.050 0.830 1.2 0.9 0.029 0.670 0.026 0.542 0.025 0.513 0.7 0.6 0.029 0.402 0.026 0.521 0.025 0.302 0.4 0.3 0.208 2.367 0.153 1.899 0.140 1.777 2.6 2.1 0.163 1.662 0.131 1.336 0.102 1.254 1.8 1.4 0.079 1.769 0.064 1.405 0.069 1.312 1.8 1.5 0.081 0.826 0.085 0.027 0.662 0.026 0.636 0.9 0.7 0.032								
0.207 2.158 0.148 1.809 0.134 1.743 2.4 2.0 0.130 1.287 0.095 1.074 0.087 1.035 1.4 1.2 0.064 1.386 0.056 1.137 0.056 1.087 1.5 1.2 0.099 0.670 0.026 0.542 0.025 0.531 0.7 0.6 0.029 0.402 0.026 0.521 0.025 0.302 0.4 0.3 0.208 2.367 0.153 1.899 0.140 1.777 0.6 2.1 0.163 1.662 0.113 1.336 0.102 1.254 1.8 1.4 0.163 1.662 0.113 1.336 0.102 1.254 1.8 1.4 0.079 1.769 0.064 1.405 0.069 1.312 1.8 1.5 0.081 1.424 0.061 1.113 0.056 1.034 1.5 1.2 0.081 1.424								
0.130 1.287 0.095 1.074 0.086 1.035 1.4 1.2 0.064 1.386 0.056 1.137 0.056 1.087 1.5 1.2 0.029 0.609 1.133 0.054 0.895 0.050 0.830 1.2 0.9 0.029 0.402 0.026 0.521 0.025 0.302 0.4 0.3 0.208 2.367 0.153 1.899 0.140 1.777 2.6 2.1 0.163 1.662 0.113 1.336 0.102 1.254 1.8 1.4 0.079 1.769 0.064 1.405 0.069 1.312 1.8 1.5 0.081 1.424 0.661 1.113 0.056 1.034 1.5 1.2 0.031 0.856 0.027 0.682 0.026 0.636 0.9 0.7 0.032 0.510 0.027 0.640 0.026 0.636 0.9 0.7 0.024		-			_			
0.064 1.386 0.056 1.137 0.050 1.087 1.5 1.2 0.9 0.029 0.670 0.026 0.542 0.025 0.513 0.7 0.6 0.029 0.402 0.026 0.521 0.025 0.302 0.4 0.3 0.208 2.367 0.153 1.899 0.140 1.777 2.6 2.1 0.163 1.662 0.113 1.336 0.102 1.254 1.8 1.4 0.079 1.769 0.064 1.405 0.069 1.312 1.8 1.5 0.081 1.424 0.061 1.113 0.056 1.034 1.5 1.2 0.081 1.424 0.061 1.113 0.056 1.034 1.5 1.2 0.031 0.856 0.027 0.682 0.026 0.636 0.9 0.7 0.032 0.510 0.027 0.692 0.026 0.636 0.9 0.7 0.032								
0.069 1.133 0.054 0.895 0.050 0.830 1.2 0.9 0.029 0.670 0.026 0.542 0.025 0.513 0.7 0.6 0.208 2.367 0.153 1.899 0.140 1.777 2.6 2.1 0.163 1.662 0.113 1.336 0.102 1.254 1.8 1.4 0.079 1.769 0.064 1.405 0.069 1.312 1.8 1.5 0.081 1.424 0.061 1.113 0.056 1.034 1.5 1.2 0.031 0.856 0.027 0.682 0.026 0.636 0.9 0.7 0.032 0.510 0.027 0.682 0.026 0.376 0.5 0.4 0.169 1.754 0.120 1.402 0.107 1.306 1.9 1.5 0.081 1.841 0.067 1.460 0.072 1.357 1.9 1.5 0.082 0.842								
0.029 0.402 0.026 0.321 0.025 0.302 0.4 0.3 0.208 2.367 0.153 1.899 0.140 1.777 2.6 2.1 0.163 1.662 0.113 1.336 0.102 1.254 1.8 1.4 0.079 1.769 0.064 1.405 0.069 1.312 1.8 1.5 0.081 1.424 0.061 1.113 0.056 1.034 1.5 1.2 0.031 0.856 0.027 0.682 0.026 0.636 0.9 0.7 0.032 0.510 0.027 0.404 0.026 0.336 0.9 0.7 0.620 2.493 0.160 2.002 0.145 1.866 2.7 2.2 0.169 1.754 0.120 1.402 0.107 1.306 1.9 1.5 0.083 1.845 0.067 1.460 0.072 1.357 1.9 1.5 0.086 1.441								
0.208 2.367 0.153 1.899 0.140 1.777 2.6 2.1 0.163 1.662 0.113 1.336 0.102 1.254 1.8 1.4 0.079 1.769 0.064 1.405 0.069 1.312 1.8 1.5 0.081 1.424 0.061 1.113 0.056 1.034 1.5 1.2 0.031 0.856 0.027 0.682 0.026 0.336 0.9 0.7 0.032 0.510 0.027 0.404 0.026 0.376 0.5 0.4 0.169 1.754 0.120 1.402 0.107 1.306 1.9 1.5 0.083 1.845 0.067 1.460 0.072 1.357 1.9 1.5 0.086 1.441 0.064 1.124 0.057 1.046 1.5 1.2 0.032 0.883 0.027 0.701 0.026 0.652 0.9 0.7 0.032 0.521								
0.163		-				_		
0.079 1.769 0.064 1.405 0.069 1.312 1.8 1.5 0.081 1.424 0.061 1.113 0.056 1.034 1.5 1.2 0.031 0.856 0.027 0.682 0.026 0.376 0.5 0.4 0.220 2.493 0.160 2.002 0.145 1.866 2.7 2.2 0.169 1.754 0.120 1.402 0.107 1.306 1.9 1.5 0.083 1.845 0.067 1.460 0.072 1.357 1.9 1.5 0.032 0.883 0.027 0.701 0.026 0.652 0.9 0.7 0.032 0.521 0.028 0.411 0.026 0.652 0.9 0.7 0.184 2.009 0.132 1.631 0.119 1.520 2.2 1.8 0.184 2.009 0.132 1.631 0.119 1.527 2.2 1.8 0.189 2.0287 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
0.081 1.424 0.061 1.113 0.056 1.034 1.5 1.2 0.031 0.856 0.027 0.682 0.026 0.636 0.9 0.7 0.032 0.510 0.027 0.404 0.026 0.376 0.5 0.4 0.220 2.493 0.160 2.002 0.145 1.866 2.7 2.2 0.083 1.845 0.067 1.460 0.072 1.357 1.9 1.5 0.086 1.441 0.064 1.124 0.057 1.046 1.5 1.2 0.032 0.883 0.027 0.701 0.026 0.652 0.9 0.7 0.032 0.521 0.028 0.411 0.026 0.383 0.6 0.4 0.184 2.009 0.152 1.631 0.119 1.520 2.2 1.8 0.184 2.009 0.152 1.631 0.19 1.520 2.2 1.8 0.184 2.009								
0.031 0.856 0.027 0.682 0.026 0.636 0.9 0.7 0.032 0.510 0.027 0.404 0.026 0.376 0.5 0.4 0.220 2.493 0.160 2.002 0.107 1.306 2.7 2.2 0.169 1.754 0.120 1.402 0.107 1.306 1.9 1.5 0.083 1.845 0.067 1.460 0.072 1.357 1.9 1.5 0.086 1.441 0.064 1.124 0.057 1.046 1.5 1.2 0.032 0.883 0.027 0.701 0.026 0.652 0.9 0.7 0.032 0.521 0.028 0.411 0.026 0.652 0.9 0.7 0.032 0.521 0.028 0.411 0.026 0.383 0.6 0.4 0.241 2.817 0.176 2.310 0.158 2.148 3.1 2.5 0.184 2.009			_					
0.220 2.493 0.160 2.002 0.145 1.866 2.7 2.2 0.169 1.754 0.120 1.402 0.107 1.306 1.9 1.5 0.083 1.845 0.067 1.460 0.072 1.357 1.9 1.5 0.086 1.441 0.064 1.124 0.057 1.046 1.5 1.2 0.032 0.883 0.027 0.701 0.026 0.383 0.6 0.4 0.241 2.817 0.076 2.310 0.158 2.148 3.1 2.5 0.184 2.009 0.132 1.631 0.119 1.520 2.2 1.8 0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.090 1.653 0.068 1.309 0.062 1.195 1.7 1.4 0.033 1.019 0.028 0.824 0.027 0.749 1.1 0.9 0.033 0.606								
0.169 1.754 0.120 1.402 0.107 1.306 1.9 1.5 0.083 1.845 0.067 1.460 0.072 1.357 1.9 1.5 0.086 1.441 0.064 1.124 0.057 1.046 1.5 1.2 0.032 0.883 0.027 0.701 0.026 0.652 0.9 0.7 0.032 0.521 0.028 0.411 0.026 0.383 0.6 0.4 0.241 2.817 0.176 2.310 0.158 2.148 3.1 2.5 0.184 2.009 0.132 1.631 0.119 1.520 2.2 1.8 0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.093 1.060 0.028 0.824 0.027 0.749 1.1 0.9 0.033 0.606								
0.083 1.845 0.067 1.460 0.072 1.357 1.9 1.5 0.086 1.441 0.064 1.124 0.057 1.046 1.5 1.2 0.032 0.883 0.027 0.701 0.026 0.652 0.9 0.7 0.032 0.521 0.028 0.411 0.026 0.383 0.6 0.4 0.241 2.817 0.176 2.310 0.158 2.148 3.1 2.5 0.184 2.009 0.132 1.631 0.119 1.520 2.2 1.8 0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.090 1.653 0.068 1.309 0.062 1.195 1.7 1.4 0.033 1.019 0.028 0.484 0.027 0.749 1.1 0.9 0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051								
0.086 1.441 0.064 1.124 0.057 1.046 1.5 1.2 0.032 0.883 0.027 0.701 0.026 0.652 0.9 0.7 0.032 0.521 0.028 0.411 0.026 0.383 0.6 0.4 0.241 2.817 0.176 2.310 0.158 2.148 3.1 2.5 0.184 2.009 0.132 1.631 0.119 1.520 2.2 1.8 0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.090 1.653 0.068 1.309 0.062 1.195 1.7 1.4 0.033 1.019 0.028 0.824 0.027 0.749 1.1 0.9 0.033 1.019 0.028 0.484 0.027 0.433 0.6 0.5 0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051		-						
0.032 0.883 0.027 0.701 0.026 0.652 0.9 0.7 0.032 0.521 0.028 0.411 0.026 0.383 0.6 0.4 0.241 2.817 0.176 2.310 0.158 2.148 3.1 2.5 0.184 2.009 0.132 1.631 0.119 1.520 2.2 1.8 0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.090 1.653 0.068 1.309 0.062 1.195 1.7 1.4 0.033 1.019 0.028 0.824 0.027 0.749 1.1 0.9 0.033 0.606 0.028 0.484 0.027 0.433 0.6 0.5 0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051 0.133 1.625 0.120 1.494 2.2 1.8 0.092 1.712								
0.241 2.817 0.176 2.310 0.158 2.148 3.1 2.5 0.184 2.009 0.132 1.631 0.119 1.520 2.2 1.8 0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.090 1.653 0.068 1.309 0.062 1.195 1.7 1.4 0.033 1.019 0.028 0.824 0.027 0.749 1.1 0.9 0.033 0.606 0.028 0.484 0.027 0.433 0.6 0.5 0.190 2.051 0.133 1.625 0.120 1.494 2.2 1.8 0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.024 0.241								
0.184 2.009 0.132 1.631 0.119 1.520 2.2 1.8 0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.090 1.653 0.068 1.309 0.062 1.195 1.7 1.4 0.033 1.019 0.028 0.824 0.027 0.749 1.1 0.9 0.033 0.606 0.028 0.484 0.027 0.433 0.6 0.5 0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051 0.133 1.625 0.120 1.494 2.2 1.8 0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840							0.6	0.4
0.093 2.087 0.073 1.704 0.083 1.537 2.2 1.8 0.090 1.6553 0.068 1.309 0.062 1.195 1.7 1.4 0.033 1.019 0.028 0.824 0.027 0.749 1.1 0.9 0.033 0.606 0.028 0.484 0.027 0.433 0.6 0.5 0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051 0.133 1.625 0.120 1.494 2.2 1.8 0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.081 1.514 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
0.090 1.653 0.068 1.309 0.062 1.195 1.7 1.4 0.033 1.019 0.028 0.824 0.027 0.749 1.1 0.9 0.033 0.606 0.028 0.484 0.027 0.433 0.6 0.5 0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051 0.133 1.625 0.120 1.494 2.2 1.8 0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.081 0.524		-	_					
0.033 1.019 0.028 0.824 0.027 0.749 1.1 0.9 0.033 0.606 0.028 0.484 0.027 0.433 0.6 0.5 0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051 0.133 1.625 0.120 1.494 2.2 1.8 0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552								
0.033 0.606 0.028 0.484 0.027 0.433 0.6 0.5 0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051 0.133 1.625 0.120 1.494 2.2 1.8 0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.086 1.876 0.062 1.448 0.057 0.991 1.6 1.2 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552								
0.242 2.895 0.176 2.299 0.161 2.107 3.1 2.5 0.190 2.051 0.133 1.625 0.120 1.494 2.2 1.8 0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.086 1.876 0.066 1.471 0.076 1.274 2.0 1.5 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552 0.027 0.417 0.026 0.371 0.6 0.4 0.247 2.992								
0.092 1.712 0.068 1.343 0.062 1.212 1.8 1.4 0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.086 1.876 0.066 1.471 0.076 1.274 2.0 1.5 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552 0.027 0.417 0.026 0.371 0.6 0.4 0.247 2.992 0.178 2.322 0.160 2.012 3.2 2.5 0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200			0.176					
0.033 1.051 0.028 0.828 0.027 0.761 1.1 0.9 0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.086 1.876 0.066 1.471 0.076 1.274 2.0 1.5 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552 0.027 0.417 0.026 0.371 0.6 0.4 0.247 2.992 0.178 2.322 0.160 2.012 3.2 2.5 0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752								
0.214 2.596 0.157 2.042 0.142 1.786 2.8 2.2 0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.086 1.876 0.066 1.471 0.076 1.274 2.0 1.5 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552 0.027 0.417 0.026 0.371 0.6 0.4 0.247 2.992 0.178 2.322 0.160 2.012 3.2 2.5 0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080								
0.166 1.840 0.120 1.437 0.109 1.256 2.0 1.6 0.086 1.876 0.066 1.471 0.076 1.274 2.0 1.5 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552 0.027 0.417 0.026 0.371 0.6 0.4 0.247 2.992 0.178 2.322 0.160 2.012 3.2 2.5 0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080 0.028 0.826 0.027 0.737 1.1 0.9 0.267 3.363								
0.086 1.876 0.066 1.471 0.076 1.274 2.0 1.5 0.081 1.514 0.062 1.148 0.057 0.991 1.6 1.2 0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552 0.027 0.417 0.026 0.371 0.6 0.4 0.247 2.992 0.178 2.322 0.160 2.012 3.2 2.5 0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080 0.028 0.826 0.027 0.737 1.1 0.9 0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353								
0.031 0.932 0.027 0.711 0.026 0.635 1.0 0.7 0.031 0.552 0.027 0.417 0.026 0.371 0.6 0.4 0.247 2.992 0.178 2.322 0.160 2.012 3.2 2.5 0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080 0.028 0.826 0.027 0.737 1.1 0.9 0.033 0.639 0.028 0.485 0.027 0.433 0.7 0.5 0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443								
0.031 0.552 0.027 0.417 0.026 0.371 0.6 0.4 0.247 2.992 0.178 2.322 0.160 2.012 3.2 2.5 0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080 0.028 0.826 0.027 0.737 1.1 0.9 0.033 0.639 0.028 0.485 0.027 0.433 0.7 0.5 0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940								1.2
0.247 2.992 0.178 2.322 0.160 2.012 3.2 2.5 0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080 0.028 0.826 0.027 0.737 1.1 0.9 0.033 0.639 0.028 0.485 0.027 0.433 0.7 0.5 0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209								
0.195 2.108 0.136 1.635 0.121 1.419 2.3 1.8 0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080 0.028 0.826 0.027 0.737 1.1 0.9 0.033 0.639 0.028 0.485 0.027 0.433 0.7 0.5 0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.028 2.941		-	_					
0.099 2.200 0.074 1.693 0.085 1.468 2.3 1.8 0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080 0.028 0.826 0.027 0.737 1.1 0.9 0.033 0.639 0.028 0.485 0.027 0.433 0.7 0.5 0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.034 0.711 0.029 0.538 0.027 0.479 0.7 0.6 0.128 2.941								
0.093 1.752 0.068 1.339 0.062 1.162 1.8 1.4 0.033 1.080 0.028 0.826 0.027 0.737 1.1 0.9 0.033 0.639 0.028 0.485 0.027 0.433 0.7 0.5 0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.034 0.711 0.029 0.538 0.027 0.479 0.7 0.6 0.128 2.941 0.095 2.240 0.109 1.913 3.1 2.3								
0.033 0.639 0.028 0.485 0.027 0.433 0.7 0.5 0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.034 0.711 0.029 0.538 0.027 0.479 0.7 0.6 0.128 2.941 0.095 2.240 0.109 1.913 3.1 2.3			0.068				1.8	1.4
0.267 3.363 0.194 2.614 0.174 2.257 3.6 2.8 0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.034 0.711 0.029 0.538 0.027 0.479 0.7 0.6 0.128 2.941 0.095 2.240 0.109 1.913 3.1 2.3			_					
0.212 2.353 0.149 1.824 0.134 1.577 2.6 2.0 0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.034 0.711 0.029 0.538 0.027 0.479 0.7 0.6 0.128 2.941 0.095 2.240 0.109 1.913 3.1 2.3			_					
0.109 2.443 0.081 1.876 0.094 1.617 2.6 2.0 0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.034 0.711 0.029 0.538 0.027 0.479 0.7 0.6 0.128 2.941 0.095 2.240 0.109 1.913 3.1 2.3								
0.098 1.940 0.072 1.485 0.066 1.289 2.0 1.6 0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.034 0.711 0.029 0.538 0.027 0.479 0.7 0.6 0.128 2.941 0.095 2.240 0.109 1.913 3.1 2.3								
0.034 1.209 0.028 0.923 0.027 0.818 1.2 1.0 0.034 0.711 0.029 0.538 0.027 0.479 0.7 0.6 0.128 2.941 0.095 2.240 0.109 1.913 3.1 2.3								
0.128 2.941 0.095 2.240 0.109 1.913 3.1 2.3	0.034		0.028	0.923			1.2	
U.U.O.O 1.400 U.U.O.U 1.1U9 U.U.Z& U.969 1.5 1.1			_					
	0.036	1.466	0.030	1.109	υ.υ28	0.969	1.5	1.1

Suburban	Interurban	Highway
SUM	SUM	SUM
	ecific external c	
country sp	cente external e	oses per kin
cent/km	cent/km	cent/km
Cerry Kiri	Cerry Kill	Certy Kill
1.0	1.5	1.5
0.9	0.9	1.0
0.6	0.6	0.7
0.6	0.6	0.7
0.5	0.5	0.5
0.3	0.3	0.3
0.2	0.2	0.2
1.7	1.5	1.6
1.0	0.9	0.9
1.0	0.9	0.9
0.8	0.7	0.7
0.5	0.4	0.4
0.3	0.3	0.3
1.9	1.6	1.6
1.1	1.0	1.0
1.1	1.0	1.0
0.9	0.8	0.7
0.6	0.5	0.5
2.4	2.0	1.9
1.4	1.2	1.1
1.5	1.2	1.1
1.2	0.9	0.9
0.7	0.6	0.5
0.4	0.3	0.3
2.6	2.1	1.9
1.8	1.4	1.4
1.8	1.5	1.4
1.5	1.2	1.1
0.9	0.7	0.7
0.5	0.4	0.4
2.7	2.2	2.0
1.9	1.5	1.4
1.9	1.5	1.4
1.5	1.2	1.1
0.9	0.7	0.7
0.6	0.4	0.4
3.1	2.5	2.3
2.2	1.8	1.6
2.2	1.8	1.6
1.7	1.4	1.3
1.1	0.9	0.8
0.6	0.9	0.5
3.1	2.5	2.3
2.2	1.8 1.4	1.6
1.8	0.9	
2.8	2.2	0.8
2.8		1.9
	1.6	
2.0	1.5	1.4
1.6	1.2	1.0
1.0	0.7	0.7
0.6	0.4	0.4
3.2	2.5	2.2
2.3	1.8	1.5
2.3	1.8	1.6
1.8	1.4	1.2
1.1	0.9	0.8
0.7	0.5	0.5
3.6	2.8	2.4
2.6	2.0	1.7
2.6	2.0	1.7
2.0	1.6	1.4
1.2	1.0	0.8
0.7	0.6	0.5
3.1	2.3	2.0
1.5	1.1	1.0

	Emissions (gram/km)										
Sub	Subsector	Tech 2	First	Last	PM (urban)	PM (inter)	PM (highway)	PM (non-	NO_x (urban)	NO _x (inter)	NO _x (highway)
sector			year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	55 km/h	80 km/h
ID	Caralina v 2 Ft	Campantianal		0000	0.400	0.400	0.400	0.060		7.500	7.500
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0		0.400	0.400 0.278	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5-7.5t	Euro I	1994	1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14	Diesel RT 3.5–7.5t	Euro III	1997		0.062	0.054 0.047	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro IV	2002 2007		0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010		0.013	0.009	0.007	0.060	0.922	0.886	0.978
15 15	Diesel RT 7.5-12t	Conventional	0 1994		0.391	0.273 0.161	0.248	0.060	8.414 4.989	7.702 4.616	8.114 4.790
15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994		0.100	0.181	0.090	0.060	5.284	4.799	4.790
15	Diesel RT 7.5-12t	Euro III	2002		0.105	0.071	0.064	0.060	4.188	3.656	3.585
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro IV Euro V	2007 2010		0.020	0.013 0.013	0.011	0.060	2.544 1.503	2.280 1.347	2.313 1.330
16	Diesel RT 12–14 t	Conventional	2010		0.020	0.013	0.011	0.060	9.438	8.311	8.445
16	Diesel RT 12-14 t	Euro I	1994		0.251	0.177	0.163	0.060	5.642	4.985	4.980
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III	1997 2002		0.109	0.087 0.077	0.100	0.060	6.009 4.913	5.199 4.029	5.076 3.844
16	Diesel RT 12-14 t	Euro IV	2002		0.109	0.077	0.072	0.060	2.935	2.499	2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17 17	Diesel RT 14-20t	Euro I	1994		0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t Diesel RT 14-20t	Euro II Euro III	1997 2002	2001	0.137	0.111	0.112	0.060	7.724 6.315	6.335 4.989	6.058 4.624
17	Diesel RT 14-20t	Euro IV	2007		0.030	0.020	0.017	0.060	3.734	3.017	2.858
17	Diesel RT 14-20t	Euro V	2010		0.030	0.020	0.017	0.060	2.240	1.786	1.681
18 18	Diesel RT 20-26t Diesel RT 20-26t	Conventional Euro I	0 1994		0.578 0.439	0.407 0.288	0.368	0.060	13.189 9.261	10.579 7.445	9.899 6.985
18	Diesel RT 20-26t	Euro II	1997		0.183	0.136	0.152	0.060	9.856	7.830	7.311
18	Diesel RT 20–26t	Euro III	2002		0.190	0.126	0.112	0.060	7.933	6.202	5.760
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro IV Euro V	2007 2010		0.036	0.023 0.024	0.020	0.060	4.769 2.840	3.800 2.250	3.546 2.096
19	Diesel RT 26-28t	Conventional	0		0.613	0.431	0.384	0.060	13.891	11.154	10.394
19	Diesel RT 26–28t	Euro I	1994		0.458	0.307	0.269	0.060	9.774	7.811	7.278
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro II Euro III	1997 2002		0.195	0.145 0.136	0.162 0.116	0.060	10.281 8.026	8.136 6.265	7.563 5.829
19	Diesel RT 26-28t	Euro IV	2007		0.037	0.024	0.020	0.060	4.920	3.903	3.635
19	Diesel RT 26-28t	Euro V	2010		0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t Diesel RT 28-32t	Conventional Euro I	0 1994		0.678	0.479 0.345	0.426	0.060	15.696 11.194	12.868 9.086	11.970 8.470
20	Diesel RT 28-32t	Euro II	1997		0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t	Euro III	2002		0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t Diesel RT 28-32t	Euro IV Euro V	2007 2010		0.040	0.026 0.027	0.022	0.060	5.677 3.374	4.590 2.698	4.173 2.413
21	Diesel RT >32t	Conventional	0		0.681	0.481	0.432	0.060	16.129	12.809	11.740
21	Diesel RT >32t	Euro I	1994		0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t Diesel RT >32t	Euro III Euro IV	2002 2007		0.221	0.147 0.026	0.129	0.060	9.538 5.853	7.485 4.616	6.752 4.240
24			0		0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t	Euro I	1994		0.449	0.309	0.274	0.060	10.252	8.006	6.997
24 24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t	Euro III	1997 2002		0.204	0.143	0.174	0.060	10.453 8.434	8.195 6.399	7.100 5.523
24	Diesel TT/AT 28-34t	Euro IV	2002		0.035	0.022	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t		2010		0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		0 1994		0.697 0.539	0.485 0.357	0.431	0.060	16.667 11.743	12.937 9.110	7.904
25	Diesel TT/AT 34–40t		1997		0.243	0.166	0.202	0.060	12.255	9.433	8.176
25	Diesel TT/AT 34-40t	Euro III	2002		0.225	0.149	0.130	0.060	9.759	7.458	6.473
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2007 2010		0.041	0.026 0.026	0.022	0.060	6.018 3.557	4.600 2.700	4.105 2.410
26	Diesel TT/AT 40–50t		2010		0.760	0.026	0.022	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t	Euro I	1994	1996	0.589	0.398	0.350	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t		1997		0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		2002 2007		0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t	Euro V	2010	2014	0.044	0.028	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t		1997		0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	ırban	High	way	Suburban	Interurban	Highway
PM	NO _x	РМ	NO _x	РМ	NO _x	SUM	SUM	SUM
	ce	nt/gram per poll	utant per vehic	le		country spe	ecific external c	osts per km
5.039	1.487	5.039	1.487	5.039	1.487	cent/km	cent/km	cent/km
2.318	6.692	2.318	11.154	2.318	11.154	9.0	13.5	13.5
2.211 1.037	6.583 4.586	1.704 0.844	6.470 4.703	1.596 0.806	7.279 5.286	8.8 5.6	8.2 5.5	8.9 6.1
0.616	4.890	0.576	4.851	0.598	5.306	5.5	5.4	5.9
0.642	3.826	0.539	3.571	0.509	3.844	4.5	4.1	4.4
0.367 0.367	2.321 1.370	0.345 0.345	2.272 1.318	0.338	2.507 1.454	2.7 1.7	2.6 1.7	2.8 1.8
2.274	12.513	1.679	11.454	1.551	12.066	14.8	13.1	13.6
1.467	7.420	1.113	6.865	1.048	7.123	8.9	8.0	8.2
0.804	7.858	0.709	7.136	0.756	7.256	8.7	7.8	8.0
0.833	6.229 3.784	0.662 0.368	5.436 3.390	0.627 0.358	5.332 3.440	<u>7.1</u> 4.2	3.8	6.0 3.8
0.404	2.236	0.369	2.004	0.359	1.978	2.6	2.4	2.3
2.424	14.036	1.806	12.360	1.668	12.558	16.5	14.2	14.2
1.565	8.391	1.196	7.414	1.122	7.405	10.0	8.6	8.5
0.850 0.850	8.937 7.306	0.742 0.691	7.732 5.991	0.807 0.664	7.549 5.716	9.8	8.5 6.7	8.4 6.4
0.410	4.364	0.374	3.717	0.364	3.601	4.8	4.1	4.0
3.190	17.877	2.289	14.985	2.076	14.440	21.1	17.3	16.5
2.000 0.995	10.668	1.471 0.863	8.901	1.337	8.579	<u>12.7</u> 12.5	10.4	9.9 9.9
1.064	9.392	0.829	9.422 7.420	0.869 0.774	9.009 6.876	10.5	10.3 8.2	7.6
0.453	5.553	0.401	4.487	0.386	4.251	6.0	4.9	4.6
0.455	3.331	0.402	2.656	0.387	2.500	3.8	3.1	2.9
3.216 2.514	19.614 13.772	2.355 1.752	15.732 11.072	2.156 1.575	14.721 10.388	22.8 16.3	18.1 12.8	16.9 12.0
1.225	14.657	0.989	11.644	1.067	10.873	15.9	12.6	11.9
1.258	11.797	0.939	9.224	0.865	8.566	13.1	10.2	9.4
0.486	7.093	0.420	5.650	0.402	5.274	7.6	6.1	5.7
0.489 3.393	4.224 20.658	0.421 2.474	3.346 16.587	0.403 2.236	3.118 15.457	4.7 24.1	3.8 19.1	3.5 17.7
2.612	14.535	1.849	11.615	1.657	10.823	17.1	13.5	12.5
1.283	15.290	1.034	12.099	1.117	11.247	16.6	13.1	12.4
1.324	11.935	0.986	9.316	0.887	8.668	13.3	10.3	9.6
0.490	7.317 4.321	0.424	5.805 3.405	0.404	5.406 3.172	7.8 4.8	6.2 3.8	5.8 3.6
3.721	23.342	2.716	19.136	2.447	17.801	27.1	21.9	20.2
2.842	16.647	2.039	13.512	1.842	12.596	19.5	15.6	14.4
1.441	17.292 13.698	1.126 1.046	14.117 10.846	1.283 0.957	12.735 9.899	18.7 15.1	15.2 11.9	14.0 10.9
0.505	8.442	0.434	6.826	0.413	6.206	8.9	7.3	6.6
0.509	5.018	0.436	4.013	0.415	3.588	5.5	4.4	4.0
3.736	23.985	2.725	19.049	2.481	17.460	27.7	21.8	19.9
2.941 1.417	16.995 14.184	2.059 1.043	13.466 11.131	1.848 0.951	12.376 10.041	19.9 15.6	15.5 12.2	14.2 11.0
0.510	8.704	0.435	6.864	0.414	6.306	9.2	7.3	6.7
3.303	21.506	2.422	16.919	2.196	14.799	24.8	19.3	17.0
2.564	15.246	1.861	11.905	1.683	10.406	17.8	13.8	12.1
1.333 1.250	15.546 12.543	1.023 0.952	12.187 9.516	1.181 0.879	10.559 8.213	16.9 13.8	13.2 10.5	9.1
0.478	7.718	0.416	5.890	0.398	5.260	8.2	6.3	5.7
0.481	4.578	0.417	3.452	0.399	3.070	5.1	3.9	3.5
3.816	24.786 17.463	2.747	19.239 13.548	2.474 1.874	16.668 11.755	28.6 20.5	22.0 15.7	19.1 13.6
1.527	18.225	1.139	14.028	1.320	12.159	19.8	15.2	13.5
1.435	14.513	1.055	11.091	0.956	9.627	15.9	12.1	10.6
0.509	8.950	0.433	6.841	0.412	6.104	9.5	7.3	6.5
0.513 4.130	5.290 27.867	0.435 2.992	4.016 21.654	0.414 2.693	3.584 18.698	5.8 32.0	4.5 24.6	4.0 21.4
3.268	19.496	2.308	15.116	2.065	13.064	22.8	17.4	15.1
1.677	20.240	1.252	15.547	1.447	13.398	21.9	16.8	14.8
1.521	16.073	1.117	12.306	1.012	10.683	17.6	13.4	11.7
0.520 0.524	10.016 5.890	0.440	7.645 4.461	0.418	6.779 3.966	6.4	8.1 4.9	7.2 4.4
1.982	24.371	1.465	18.562	1.690	15.852	26.4	20.0	17.5
0.549	12.145	0.458	9.187	0.433	8.026	12.7	9.6	8.5

								(/lems		
					РМ	PM	PM	ons (gram PM	NO _x	NO _x	NO _x
Sub	Subsector	Tech 2	First	Last	(urban)	(inter)	(highway)	(non-	(urban)	(inter)	(highway)
sector			year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	55 km/h	80 km/h
ID	0 " 0.5"				0.400	0.400	0.100	2 252	4.500	7.500	7.500
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0	9999	0.400	0.400	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5–7.5t	Euro I	1994		0.146	0.107	0.100	0.060	3.084	3.162	3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14	Diesel RT 3.5-7.5t	Euro III	2002	2006	0.067	0.047	0.041	0.060	2.573	2.401	2.585
14	Diesel RT 3.5–7.5t	Euro IV	2007	2009	0.013	0.008	0.007	0.060	1.561	1.528	1.686
14 15	Diesel RT 3.5-7.5t Diesel RT 7.5-12t	Euro V Conventional	2010	2014 1993	0.013	0.009	0.007	0.060	0.922 8.414	0.886 7.702	0.978 8.114
15	Diesel RT 7.5–12t	Euro I	1994		0.231	0.161	0.148	0.060	4.989	4.616	4.790
15	Diesel RT 7.5–12t	Euro II	1997	2001	0.100	0.081	0.090	0.060	5.284	4.799	4.879
15	Diesel RT 7.5-12t	Euro III	2002	2006	0.105	0.071	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5–12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	0 1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16	Diesel RT 12-14 t	Euro IV	2007	2009	0.021	0.014	0.012	0.060	2.935	2.499	2.421
17	Diesel RT 14-20t	Conventional	1004	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro II	1994 1997	1996 2001	0.337 0.137	0.232	0.205 0.112	0.060	7.173 7.724	5.985 6.335	5.769 6.058
17	Diesel RT 14-20t	Euro III	2002	2001	0.151	0.111	0.112	0.060	6.315	4.989	4.624
17	Diesel RT 14-20t	Euro IV	2007	2009	0.030	0.020	0.017	0.060	3.734	3.017	2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20-26t	Conventional	0	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18	Diesel RT 20–26t	Euro I	1994		0.439	0.288	0.253	0.060	9.261	7.445	6.985
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro III	1997 2002	2001	0.183	0.136 0.126	0.152	0.060	9.856 7.933	7.830 6.202	7.311 5.760
18	Diesel RT 20–26t	Euro IV	2002	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18	Diesel RT 20-26t	Euro V	2010	2014	0.037	0.024	0.020	0.060	2.840	2.250	2.096
19	Diesel RT 26-28t	Conventional	0	1993	0.613	0.431	0.384	0.060	13.891	11.154	10.394
19	Diesel RT 26-28t	Euro I	1994		0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t	Euro I	1994	1996	0.504	0.345	0.306	0.060	11.194	9.086	8.470
20	Diesel RT 28-32t	Euro II	1997	2001	0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148 0.026	0.130	0.060	9.211	7.293 4.590	6.656 4.173
20	Diesel RT 28-32t	Euro IV Euro V	2007		0.040	0.026	0.022	0.060	5.677 3.374	2.698	2.413
21	Diesel RT >32t	Conventional	0		0.681	0.481	0.432	0.060	16.129	12.809	11.740
21	Diesel RT >32t	Euro I	1994		0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002		0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	5.853	4.616	4.240
24 24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		0 1994		0.596 0.449	0.421	0.376 0.274	0.060	14.461 10.252	11.377 8.006	9.952 6.997
24	Diesel TT/AT 28-34t	Euro II	1994	2001	0.204	0.309	0.274	0.060	10.252	8.195	7.100
24	Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434	6.399	5.523
24	Diesel TT/AT 28-34t		2007	2009	0.035	0.022	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t		2010		0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0		0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357	0.312	0.060	11.743 12.255	9.110	7.904 8.176
25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2002	2001	0.243	0.166 0.149	0.202	0.060	9.759	9.433 7.458	6.473
25	Diesel TT/AT 34-40t		2002	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25	Diesel TT/AT 34-40t		2010	2014	0.042	0.026	0.022	0.060	3.557	2.700	2.410
26	Diesel TT/AT 40-50t		0		0.760	0.534	0.475	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t		1994		0.589	0.398	0.350	0.060	13.110	10.164	8.785
26 26	Diesel TT/AT 40-50t		1997 2002	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2014	0.044	0.027	0.023	0.060	3.961	3.000	2.667
	· · · · · · · · · · · · · · · · · · ·										
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660

^{*} Heavy Duty Vehicles

2.897 8.237 2.897 13.728 2.897 13.728 11.1 1	Subur	ban	Interu	ırban	High	way	Suburbar	ı Ir
2,897 8,237 2,897 13,728 2,897 13,728 11,1 1 1 1,266 8,045 1,055 5,788 1,007 6,056 6,9 0,770 6,019 0,720 5,970 0,747 6,531 6,8 0,802 4,709 0,674 4,396 0,656 4,731 5,5 0,458 2,857 0,431 2,797 0,423 3,086 3,3 0,459 1,887 0,431 1,622 0,423 1,790 2,1 2,842 15,402 2,098 14,098 1,938 14,852 18,2 1 1,833 9,133 1,391 8,450 1,309 8,768 11,0 1,005 9,672 0,886 8,784 0,945 8,931 10,7 1,001 9,672 0,886 8,784 0,945 8,931 10,7 1,001 9,672 0,866 8,784 0,945 8,931 10,7 1,001 2,752 0,460 4,173 0,448 4,235 5,2 0,502 4,657 0,460 4,173 0,448 4,235 5,2 0,502 4,657 0,460 4,173 0,448 4,235 5,2 1,006 1,007 1,006 1,006 1,006 1,007 1,006 1,007 1,006 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1,006 1,007 1	PM					NO _x		pecific
2.764	6.298	1.830	6.298	1.830	6.298	1.830	cent/km	cen
1.296	2.897	8.237	2.897	13.728	2.897	13.728	11.1	1
0.770								1
0.802								
0.488 2.857 0.431 2.797 0.423 3.086 3.3 0.489 1.692 0.431 1.622 0.423 1.790 3.21 2.842 15.402 2.098 14.098 1.938 14.852 18.2 1 1.005 9.672 0.886 8.784 0.945 8.931 10.7 1.041 7.667 0.828 6.691 0.783 6.563 10.7 0.502 4.657 0.460 4.173 0.448 4.235 5.2 0.504 2.752 0.461 2.466 0.449 2.435 5.2 3.030 17.276 2.257 15.213 2.085 15.457 20.3 1 1.986 10.338 1.494 9.125 1.422 2.21 1 1 2.23 1 1.063 1.092 2.22 12.1 1 1 1 1.063 1.092 1.22 1 1 1 1 1 1 1 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>					_			
2,842								
1833 9,133 1,391 8,450 1,309 8,768 11,0 1,005 9,672 0,886 6,8784 0,945 8,931 10,7 1,004 7,667 0,828 6,691 0,783 6,563 8,7 0,504 2,752 0,461 2,466 0,449 2,435 5,2 0,504 2,752 0,461 2,466 0,449 2,435 3,3 3,030 17,276 2,257 15,113 2,088 15,457 20,3 1 1,956 10,328 1,494 9,125 1,402 9,115 12,3 1 1,063 11,000 0,928 9,517 1,008 9,292 12,1 1 1,063 11,000 0,928 9,517 1,008 9,292 12,1 1 1,063 1,330 2,861 18,444 2,595 4,432 5,9 3,398 22,003 2,861 18,444 2,595 17,773 26,0 2 2,500 13,130 1,839 10,955 1,671 10,559 15,6 1 1,239 11,560 1,037 9,132 0,967 8,464 12,9 1 1,329 11,560 1,037 9,132 0,967 8,464 12,9 1 1,329 11,560 1,037 9,132 0,967 8,464 12,9 1 1,321 1,4139 1,294 19,363 2,694 18,119 82,2 2 3,142 16,951 2,189 13,628 1,969 12,786 20,1 1,511 1,511 1,804 1,236 1,4332 1,334 1,333 19,6 1 1,572 14,520 1,173 11,353 1,081 10,544 16,1 1,511 1,511 1,519 0,527 4,118 0,504 3,837 5,8 4,241 2,594 3,625 1,969 1,276 20,1 1,511								
1.005								1
1.041								
0.504								
1.956 10.328 1.494 9.125 1.402 9.115 1.23 1.063 11.000 0.928 9.517 1.008 9.292 12.1 1.063 11.000 0.928 9.517 1.008 9.292 12.1 1.063 11.000 0.928 9.517 1.008 9.292 12.1 1.063 8.992 0.6664 7.374 0.830 7.035 10.1 0.512 5.372 0.468 4.575 0.455 4.432 5.9 3.998 22.003 2.861 18.444 2.595 17.773 26.0 2.500 13.130 1.839 10.955 16.71 10.559 15.6 1.243 14.139 1.079 11.596 1.086 11.088 15.4 1.329 11.550 1.037 9.132 0.967 8.464 12.9 1.556 0.634 0.501 5.523 0.483 5.232 7.4 0.566 6.834 0.501 5.523 0.483 5.232 7.4 0.566 4.100 0.502 3.269 0.484 3.077 4.7 4.019 24.142 2.944 19.363 2.694 18.119 28.2 2.3142 16.551 2.189 13.628 1.969 12.786 20.1 1.551 18.041 1.236 14.332 1.334 13.383 19.6 1.5722 14.520 1.173 11.353 1.081 10.544 16.1 1.0608 8.730 0.527 4.118 0.504 3.837 5.8 4.241 25.427 3.093 20.416 2.795 19.026 29.7 2.3265 17.890 2.312 14.297 2.071 13.321 21.2 1.603 18.819 1.293 14.497 2.071 13.321 21.2 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1.801 2.841 2.841 2.841 2.842 1.407 1.737 1.575 3.553 3.059 21.911 33.4 2.041 1.801 2.841 2.841 2.841 2.841 2.841 2.841 2.842 2.841 2.844 2.			_					
1.956								- 1
1.063								
0.512 5.372 0.468 4.575 0.455 4.432 5.9 3.988 22.003 2.861 18.444 2.595 17.773 26.0 2 2.500 13.130 1.839 10.955 1.671 10.559 15.6 1 1.243 14.139 1.079 11.596 1.086 11.088 15.4 1 0.566 6.834 0.501 5.523 0.483 5.232 7.4 0.568 4.100 0.502 3.269 0.484 3.077 4.7 4.019 24.142 2.944 19.363 2.694 18.119 28.2 2 3.142 16.951 2.189 13.689 1.969 12.786 20.1 1 1.531 18.041 1.236 14.332 1.334 13.383 19.6 1 1.531 18.041 1.236 14.332 1.334 13.383 19.6 2 1.531 18.041 1.233 1.133								
3.988 22.003 2.861 18.444 2.595 17.773 26.0 2 2.500 13.130 1.839 10.955 1.671 10.559 15.6 1 1.243 14.139 1.079 11.596 1.086 11.088 15.4 1 1.329 11.560 1.037 9.132 0.967 8.464 12.9 1 0.566 6.834 0.501 5.523 0.483 5.232 7.4 0.566 6.834 0.501 5.523 0.484 3.077 4.7 4.019 24.142 2.944 19.63 2.694 18.119 2.1 4.7 3.142 16.951 2.189 13.628 1.969 12.786 20.1 1 1.519 1.520 1.173 11.353 1.081 10.544 16.1 1 0.608 8.730 0.525 6.955 0.503 6.491 9.3 0.611 16.1 16.1 16.1 16.1 16.1 16.1	1.063	8.992	0.864	7.374	0.830	7.035	10.1	
1.500								
1.243 14.139 1.079 11.596 1.086 11.088 15.4 1 1.329 11.560 1.037 9.132 0.967 8.464 12.9 1 0.566 6.834 0.501 5.523 0.483 5.232 7.4 0.568 4.100 0.502 3.269 0.484 3.077 4.7 4.019 24,142 2.944 19.363 2.694 18.119 28.2 2 3.142 16.951 2.189 13.628 1.969 12.786 20.1 1 1.531 18.041 1.236 14.332 1.334 13.383 19.6 1 1.572 14.520 1.173 11.353 1.081 10.544 16.1 1 0.608 8.730 0.527 6.955 0.503 6.491 9.3 0.611 5.199 0.527 4.118 0.504 3.837 5.8 4.241 25.427 3.093 20.416 2.795								
1.329 11.560 1.037 9.132 0.967 8.464 12.9 1 0.566 6.834 0.501 5.523 0.483 5.232 7.4 0.568 4.100 0.502 3.269 0.484 3.077 4.7 4.019 24.142 2.944 19.363 2.694 18.119 28.2 2 3.142 16.951 2.189 13.628 1.969 12.786 20.1 1 1.531 18.041 1.236 14.332 1.334 13.383 19.6 1 1.572 14.520 1.173 11.353 1.081 10.544 16.1 1 0.601 5.399 0.527 4.118 0.504 3.837 5.8 4.241 25.427 3.093 20.416 2.795 19.026 29.7 2 3.265 17.890 2.312 14.297 2.071 13.321 21.2 1 1.603 18.819 1.293 11.467								
0.568 4.100 0.502 3.269 0.484 3.077 4.7 4.019 24.142 2.944 19.363 2.694 18.119 28.2 2 3.142 16.951 2.189 13.628 1.969 12.786 20.1 1 1.572 14.520 1.173 11.353 1.081 10.544 16.1 1 0.608 8.730 0.525 6.955 0.503 6.491 9.3 0.611 5.199 0.527 4.118 0.504 3.837 5.8 4.241 25.427 3.093 20.416 2.795 19.026 29.7 2 3.265 17.890 2.312 14.297 2.071 13.321 21.2 1 1.603 18.819 1.233 11.467 1.108 10.669 16.3 1 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1 0.616 5.318 0.532 4.191								
4.019 24.142 2.944 19.363 2.694 18.119 28.2 2 3.142 16.951 2.189 13.628 1.969 12.786 20.1 1 1.531 18.041 1.236 14.332 1.334 13.383 19.6 1 1.572 14.520 1.173 11.353 1.081 10.544 16.1 1 0.608 8.730 0.525 6.955 0.503 6.491 9.3 0.611 5.199 0.527 4.118 0.504 3.837 5.8 4.241 25.427 3.093 20.416 2.795 19.026 29.7 2 3.265 17.890 2.312 14.297 2.071 13.321 21.2 1 1.603 18.819 1.293 14.892 1.397 13.844 20.4 1 1.603 18.819 1.293 14.892 1.397 13.844 20.4 1 1.655 14.690 1.233			_					
3.142 16.951 2.189 13.628 1.969 12.786 12.786 1.531 18.041 1.236 14.332 1.334 13.883 19.6 1 1.572 14.520 1.173 11.353 1.081 10.544 16.1 1 0.608 8.730 0.525 6.955 0.503 6.491 9.3 0.611 5.199 0.527 4.118 0.504 3.837 5.8 4.241 25.427 3.093 20.416 2.795 19.026 29.7 2 3.265 17.890 2.312 14.297 2.071 13.321 21.2 1 1.603 18.819 1.293 14.892 1.397 13.844 20.4 1 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1 0.616 5.318 0.532 4.191 0.506 6.554 9.6 0.616 5.318 0.532 7.145 0.505 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
1.531 18.041 1.236 14.332 1.334 13.383 19.6 1 1.572 14.520 1.173 11.353 1.081 10.544 16.1 1 0.608 8.730 0.525 6.955 0.503 6.491 9.3 0.611 5.199 0.527 4.118 0.504 3.837 5.8 4.241 25.427 3.093 20.416 2.795 19.026 29.7 2 3.265 17.890 2.312 14.297 2.071 13.321 21.2 1 1.603 18.819 1.293 14.892 1.397 13.844 20.4 1 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1 0.613 9.006 0.530 7.145 0.505 6.654 9.6 0.616 5.318 0.532 4.191 0.506 3.904 5.9 4.651 28.7330 3.395 23.533 3.059								
1.572					_			
0.611 5.199 0.527 4.118 0.504 3.837 5.8 4.241 25.427 3.093 20.416 2.795 19.026 29.7 2 3.265 17.890 2.312 14.297 2.071 13.321 21.2 1 1.603 18.819 1.293 14.892 1.397 13.844 20.4 1 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1 0.613 9.006 0.530 7.145 0.505 6.654 9.6 0.616 5.318 0.532 4.191 0.506 3.904 5.9 4.651 28.730 3.395 23.553 3.059 21.911 33.4 2 3.553 20.490 2.549 16.631 2.303 15.504 24.0 1 1.801 21.284 1.407 17.375 1.604 15.675 23.1 1 1.742 16.860 1.308 13.349					_			
4.241 25.427 3.093 20.416 2.795 19.026 29.7 2 3.265 17.890 2.312 14.297 2.071 13.321 21.2 1 1.603 18.819 1.293 14.892 1.397 13.844 20.4 1 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1 0.613 9.006 0.530 7.145 0.505 6.654 9.6 0.616 5.318 0.532 4.191 0.506 3.904 5.9 4.651 28.730 3.395 23.553 3.059 21.911 33.4 2 3.553 20.490 2.549 16.631 2.303 15.504 24.0 1 1.742 16.860 1.308 13.349 1.196 12.184 18.6 1 0.631 10.391 0.543 8.401 0.516 7.639 11.0 0.632 6.176 0.546 4.939								
3.265 17.890 2.312 14.297 2.071 13.321 21.2 1 1.603 18.819 1.293 14.892 1.397 13.844 20.4 1 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1 0.613 9.006 0.530 7.145 0.505 6.654 9.6 0.616 5.318 0.532 4.191 0.506 3.904 5.9 4.651 28.730 3.395 23.553 3.059 21.911 33.4 2 3.553 20.490 2.549 16.631 2.303 15.504 24.0 1 1.801 21.284 1.407 17.375 1.604 15.675 23.1 1 1.742 16.860 1.308 13.349 1.196 12.184 18.6 1 0.631 10.391 0.543 8.401 0.516 7.639 11.0 0.636 6.176 0.546 4.939								
1.603 18.819 1.293 14.892 1.397 13.844 20.4 1 1.655 14.690 1.233 11.467 1.108 10.669 16.3 1 0.613 9.006 0.530 7.145 0.505 6.654 9.6 0.616 5.318 0.532 4.191 0.506 3.904 5.9 4.651 28.730 3.395 23.553 3.059 21.911 33.4 2 3.553 20.490 2.549 16.631 2.303 15.504 24.0 1 1.801 21.284 1.407 17.375 1.604 15.675 23.1 1 1.742 16.860 1.308 13.349 1.196 12.184 18.6 1 0.636 6.176 0.546 4.939 0.518 4.416 6.8 4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574								
0.613 9.006 0.530 7.145 0.505 6.654 9.6 0.616 5.318 0.532 4.191 0.506 3.904 5.9 4.651 28.730 3.395 23.553 3.059 21.911 33.4 2 3.553 20.490 2.549 16.631 2.303 15.504 24.0 1 1.801 21.284 1.407 17.375 1.604 15.675 23.1 1 1.742 16.860 1.308 13.349 1.196 12.184 18.6 1 0.631 10.391 0.543 8.401 0.516 7.639 11.0 0.636 6.176 0.546 4.939 0.518 4.416 6.8 4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
0.616 5.318 0.532 4.191 0.506 3.904 5.9 4.651 28.730 3.395 23.553 3.059 21.911 33.4 2 3.5533 20.490 2.549 16.631 2.303 15.504 24.0 1 1.801 21.284 1.407 17.375 1.604 15.675 23.1 1 1.742 16.860 1.308 13.349 1.196 12.184 18.6 1 0.631 10.391 0.543 8.401 0.516 7.639 11.0 0 0.636 6.176 0.546 4.939 0.518 4.416 6.8 4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 12.359 19.2 1 1.637 10.713 0.543								1
4.651 28.730 3.395 23.553 3.059 21.911 33.4 2 3.553 20.490 2.549 16.631 2.303 15.504 24.0 1 1.801 21.284 1.407 17.375 1.604 15.675 23.1 1 1.742 16.860 1.308 13.349 1.196 12.184 18.6 1 0.631 10.391 0.543 8.401 0.516 7.639 11.0 0.636 6.176 0.546 4.939 0.518 4.416 6.8 4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 12.359 19.2 1 1.637 10.713 0.543 8.448 0.518 7.761 11.4 4.129 26.470 3.027 20.824 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
3.553 20.490 2.549 16.631 2.303 15.504 24.0 1 1.801 21.284 1.407 17.375 1.604 15.675 23.1 1 1.742 16.860 1.308 13.349 1.196 12.184 18.6 1 0.631 10.391 0.543 8.401 0.516 7.639 11.0 0.636 6.176 0.546 4.939 0.518 4.416 6.8 4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 12.359 19.2 1 0.637 10.713 0.543 8.448 0.518 7.761 11.4 4.129 26.470 3.027 20.824 2.745 18.216 30.6 2 3.205 18.765 2.326 14.654 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td>								2
1.742 16.860 1.308 13.349 1.196 12.184 18.6 1 0.631 10.391 0.543 8.401 0.516 7.639 11.0 0.636 6.176 0.546 4.939 0.518 4.416 6.8 4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 12.359 19.2 1 0.637 10.713 0.543 8.448 0.518 7.761 11.4 4.129 26.470 3.027 20.824 2.745 18.216 30.6 2 3.205 18.765 2.326 14.654 2.103 12.807 22.0 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1 0.601 5.634 0.521								
0.631 10.391 0.543 8.401 0.516 7.639 11.0 0.636 6.176 0.546 4.939 0.518 4.416 6.8 4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 12.359 19.2 1 0.637 10.713 0.543 8.448 0.518 7.761 11.4 4.129 26.470 3.027 20.824 2.745 18.216 30.6 2 3.205 18.765 2.326 14.654 2.103 12.897 22.0 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1 0.601 5.634 0.521 4.249 0.499 3.77	1.801	21.284	1.407	17.375	1.604	15.675	23.1	1
0.636 6.176 0.546 4.939 0.518 4.416 6.8 4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 12.359 19.2 1 0.637 10.713 0.543 8.448 0.518 7.761 11.4 4.129 26.470 3.027 20.824 2.745 18.216 30.6 2 3.205 18.765 2.326 14.654 2.103 12.807 22.0 1 1.666 19.134 1.279 15.000 1.476 12.996 20.8 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1 0.641 6.644 10.1 0.641 6.474 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>								1
4.670 29.522 3.407 23.446 3.101 21.490 34.2 2 3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 12.359 19.2 1 0.637 10.713 0.543 8.448 0.518 7.761 11.4 4.129 26.470 3.027 20.824 2.745 18.216 30.6 2 3.205 18.765 2.326 14.654 2.103 12.807 22.0 1 1.666 19.134 1.279 15.000 1.476 12.996 20.8 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1 1 0.601 5.634 0.521 4.249 0.499 3.779 6.2 4.770 30.508 3.433								
3.676 20.918 2.573 16.574 2.310 15.233 24.6 1 1.771 17.458 1.304 13.701 1.188 12.359 19.2 1 0.637 10.713 0.543 8.448 0.518 7.761 11.4 4.129 26.470 3.027 20.824 2.745 18.216 30.6 2 3.205 18.765 2.326 14.654 2.103 12.807 22.0 1 1.666 19.134 1.279 15.000 1.476 12.996 20.8 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1								2
0.637 10.713 0.543 8.448 0.518 7.761 11.4 4.129 26.470 3.027 20.824 2.745 18.216 30.6 2 3.205 18.765 2.326 14.654 2.103 12.807 22.0 1 1.666 19.134 1.279 15.000 1.476 12.996 20.8 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1 1 1 1 1 0.601 5.634 0.521 4.249 0.499 3.779 6.2 4.770 30.508 3.433 23.680 3.092 20.515 35.3 2 3.770 21.494 2.628 16.676 2.342 14.468 25.3 1 1.998 22.432 1.424 17.267 1.649 14.966 24.3 1 1.794 17.863 1.318 13.651 1.19								
4.129 26.470 3.027 20.824 2.745 18.216 30.6 2 3.205 18.765 2.326 14.654 2.103 12.807 22.0 1 1.666 19.134 1.279 15.000 1.476 12.996 20.8 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1 1 0.601 5.634 0.521 4.249 0.499 3.779 6.2 1 4.770 30.508 3.433 23.680 3.092 20.515 35.3 2 3.770 21.494 2.628 16.676 2.342 14.468 25.3 1 1.908 22.432 1.424 17.267 1.649 14.966 24.3 1 1.794 17.863 1.318 13.651 1.195 11.849 19.7 1 0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641<								1
3.205 18.765 2.326 14.654 2.103 12.807 22.0 1 1.666 19.134 1.279 15.000 1.476 12.996 20.8 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1 0.601 5.634 0.521 4.249 0.499 3.779 6.2 4.770 30.508 3.433 23.680 3.092 20.515 35.3 2 3.770 21.494 2.628 16.676 2.342 14.468 25.3 1 1.908 22.432 1.424 17.267 1.649 14.966 24.3 1 1.794 17.863 1.318 13.651 1.195 11.849 19.7 1 0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641 6.512 0.543 4.943			_		_			
1.666 19.134 1.279 15.000 1.476 12.996 20.8 1 1.563 15.438 1.190 11.712 1.099 10.109 17.0 1 0.598 9.500 0.519 7.250 0.497 6.474 10.1 0.601 5.634 0.521 4.249 0.499 3.779 6.2 4.770 30.508 3.433 23.680 3.092 20.515 35.3 2 3.770 21.494 2.628 16.676 2.342 14.468 25.3 1 1.908 22.432 1.424 17.267 1.649 14.966 24.3 1 1.794 17.863 1.318 13.651 1.195 11.849 19.7 1 0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641 6.512 0.543 4.943 0.517 4.412 7.2 5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 <								
0.598 9.500 0.519 7.250 0.497 6.474 10.1 0.601 5.634 0.521 4.249 0.499 3.779 6.2 4.770 30.508 3.433 23.680 3.092 20.515 35.3 2 3.770 21.494 2.628 16.676 2.342 14.468 25.3 1 1.908 22.432 1.424 17.267 1.649 14.966 24.3 1 1.794 17.863 1.318 13.651 1.195 11.849 19.7 1 0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641 6.512 0.543 4.943 0.517 4.412 7.2 5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.997 24.913 1.565 19.136 1.808 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
0.601 5.634 0.521 4.249 0.499 3.779 6.2 4.770 30.508 3.433 23.680 3.092 20.515 35.3 2 3.770 21.494 2.628 16.676 2.342 14.468 25.3 1 1.908 22.432 1.424 17.267 1.649 14.966 24.3 1 1.794 17.863 1.318 13.651 1.195 11.849 19.7 1 0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641 6.512 0.543 4.943 0.517 4.412 7.2 5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.097 24.913 1.565 19.136 1.808 16.491 27.0 2 1.901 19.783 1.397 15.146 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>								1
4.770 30.508 3.433 23.680 3.092 20.515 35.3 2 3.770 21.494 2.628 16.676 2.342 14.468 25.3 1 1.908 22.432 1.424 17.267 1.649 14.966 24.3 1 1.794 17.863 1.318 13.651 1.195 11.849 19.7 1 0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641 6.512 0.543 4.943 0.517 4.412 7.2 5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.097 24.913 1.565 19.136 1.808 16.491 27.0 2 1.901 19.783 1.397 15.146 1.265 13.149 21.7 1 0.650 12.328 0.549								
3.770 21.494 2.628 16.676 2.342 14.468 25.3 1 1.908 22.432 1.424 17.267 1.649 14.966 24.3 1 1.794 17.863 1.318 13.651 1.195 11.849 19.7 1 0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641 6.512 0.543 4.943 0.517 4.412 7.2 5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.097 24.913 1.565 19.136 1.808 16.491 27.0 2 1.901 19.783 1.397 15.146 1.265 13.149 21.7 1 0.650 12.328 0.549 9.410 0.523 8.343 13.0 1 0.654 7.250 0.552								2
1.794 17.863 1.318 13.651 1.195 11.849 19.7 1 0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641 6.512 0.543 4.943 0.517 4.412 7.2 5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.097 24.913 1.565 19.136 1.808 16.491 27.0 2 1.901 19.783 1.397 15.146 1.265 13.149 21.7 1 0.650 12.328 0.549 9.410 0.523 8.343 13.0 1 0.654 7.250 0.552 5.491 0.525 4.881 7.9 2.478 29.996 1.831 22.846 2.112 19.512 32.5 2								
0.636 11.016 0.541 8.421 0.516 7.513 11.7 0.641 6.512 0.543 4.943 0.517 4.412 7.2 5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.097 24.913 1.565 19.136 1.808 16.491 27.0 2 1.901 19.783 1.397 15.146 1.265 13.149 21.7 1 0.650 12.328 0.549 9.410 0.523 8.343 13.0 1 0.654 7.250 0.552 5.491 0.525 4.881 7.9 2.478 29.996 1.831 22.846 2.112 19.512 32.5 2								
0.641 6.512 0.543 4.943 0.517 4.412 7.2 5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.097 24.913 1.565 19.136 1.808 16.491 27.0 2 1.901 19.783 1.397 15.146 1.265 13.149 21.7 1 0.650 12.328 0.549 9.410 0.523 8.343 13.0 1 0.654 7.250 0.552 5.491 0.525 4.881 7.9 2.478 29.996 1.831 22.846 2.112 19.512 32.5 2								1
5.162 34.300 3.740 26.653 3.367 23.014 39.5 3 4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.097 24.913 1.565 19.136 1.808 16.491 27.0 2 1.901 19.783 1.397 15.146 1.265 13.149 21.7 1 0.650 12.328 0.549 9.410 0.523 8.343 13.0 1 0.654 7.250 0.552 5.491 0.525 4.881 7.9 2.478 29.996 1.831 22.846 2.112 19.512 32.5 2								
4.085 23.997 2.885 18.605 2.581 16.080 28.1 2 2.097 24.913 1.565 19.136 1.808 16.491 27.0 2 1.901 19.783 1.397 15.146 1.265 13.149 21.7 1 0.650 12.328 0.549 9.410 0.523 8.343 13.0 1 0.654 7.250 0.552 5.491 0.525 4.881 7.9 2.478 29.996 1.831 22.846 2.112 19.512 32.5 2					_			3
1.901 19.783 1.397 15.146 1.265 13.149 21.7 1 0.650 12.328 0.549 9.410 0.523 8.343 13.0 1 0.654 7.250 0.552 5.491 0.525 4.881 7.9 2.478 29.996 1.831 22.846 2.112 19.512 32.5 2	4.085	23.997	2.885	18.605	2.581	16.080	28.1	2
0.650 12.328 0.549 9.410 0.523 8.343 13.0 1 0.654 7.250 0.552 5.491 0.525 4.881 7.9 2.478 29.996 1.831 22.846 2.112 19.512 32.5 2								
0.654 7.250 0.552 5.491 0.525 4.881 7.9 2.478 29.996 1.831 22.846 2.112 19.512 32.5 2			_					
2.478 29.996 1.831 22.846 2.112 19.512 32.5 2								1
0.686 14.948 0.572 11.307 0.542 9.879 15.6 1		29.996						2
	0.686	14.948	0.572	11.307	0.542	9.879	15.6	1

Suburban	Interurban	Highway
SUM	SUM	SUM
country sp	ecific external c	osts per km
	//	
cent/km	cent/km	cent/km
11.1	16.6	16.6
10.9	10.1	11.0
6.9	6.8	7.5
6.8	6.7	7.3
5.5 3.3	5.1 3.2	5.4 3.5
2.1	2.1	2.2
18.2	16.2	16.8
11.0	9.8	10.1
10.7	9.7	9.9
8.7 5.2	7.5 4.6	7.3 4.7
3.3	2.9	2.9
20.3	17.5	17.5
12.3	10.6	10.5
12.1 10.1	10.4	10.3
5.9	5.0	7.9 4.9
26.0	21.3	20.4
15.6	12.8	12.2
15.4	12.7	12.2
12.9	6.0	9.4 5.7
7.4 4.7	3.8	3.6
28.2	22.3	20.8
20.1	15.8	14.8
19.6	15.6	14.7
9.3	12.5	7.0
5.8	7.5 4.6	4.3
29.7	23.5	21.8
21.2	16.6	15.4
20.4	16.2	15.2
9.6	7.7	7.2
5.9	4.7	4.4
33.4	26.9	25.0
24.0	19.2	17.8
23.1	18.8	17.3
18.6 11.0	14.7 8.9	13.4 8.2
6.8	5.5	4.9
34.2	26.9	24.6
24.6	19.1	17.5
19.2	15.0	13.5
30.6	9.0	8.3 21.0
22.0	17.0	14.9
20.8	16.3	14.5
17.0	12.9	11.2
6.2	7.8 4.8	7.0 4.3
35.3	27.1	23.6
25.3	19.3	16.8
24.3	18.7	16.6
19.7	15.0	13.0
<u>11.7</u> 7.2	9.0 5.5	8.0 4.9
39.5	30.4	26.4
28.1	21.5	18.7
27.0	20.7	18.3
21.7	16.5	14.4
13.0 7.9	10.0 6.0	8.9 5.4
32.5	24.7	21.6
15.6	11.9	10.4

Second S												
Subsector First												
Second S	Sub	Subsector	Tech 2	First	Last							NO _x (highway)
13 Gasoline > 3.51 Conventional 0 9999 0.400 0.400 0.400 0.600 4.500 7.500 7.501 14 Diesel RT 3.5-7.55 Curventional 0 1993 0.379 0.278 0.277 0.060 0.402 4.27 4.351 3.161									•			80 km/h
14 Diesel RT 3.5-7.5t Conventional 0 1993 0.379 0.278 0.257 0.060 4.427 4.351 4.4 Diesel RT 3.5-7.5t Euro II 1997 2001 0.062 0.054 0.059 0.060 3.288 3.262 3.1 14 Diesel RT 3.5-7.5t Euro III 2002 2006 0.067 0.067 0.069 0.060 3.288 3.262 3.1 14 Diesel RT 3.5-7.5t Euro III 2002 2006 0.067 0.067 0.061 0.060 2.573 2.011 2.1 15 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.013 0.008 0.007 0.060 0.525 0.060 0.052 0.061 0.052 0.061 0.0		Casalina > 2 Et	Conventional		0000	0.400	0.400	0.400	0.060		7 500	7 500
14 Diesel RT 3.5-7.5t Euro II 1994 1996 0.146 0.107 0.100 0.060 3.084 3.162 3.14 Diesel RT 3.5-7.5t Euro II 2002 2006 0.067 0.047 0.041 0.060 2.573 2.401 1.528 1.14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.013 0.080 0.007 0.060 0.525 2.401 1.528 1.14 Diesel RT 3.5-7.5t Euro V 2010 2014 0.013 0.009 0.007 0.060 0.922 0.986 0.01 0.01 1.528 1.14 Diesel RT 3.5-7.5t Euro V 2010 2014 0.013 0.009 0.007 0.060 0.922 0.986 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00 0.000 0.00 0.022 0.986 0.01 0												7.500 4.894
14 Diesel RT 3.5-7.58 Euro IV 2007 2009 0.067 0.047 0.041 0.060 2.573 2.401 2.1 14 Diesel RT 3.5-7.58 Euro V 2010 2014 0.013 0.009 0.007 0.060 0.922 0.886 0.5 15 Diesel RT 7.5-12 Euro I 1994 1996 0.231 0.161 0.148 0.060 4.989 4.616 4.1 15 Diesel RT 7.5-12 Euro I 1994 1996 0.231 0.161 0.148 0.060 4.989 4.616 4.1 15 Diesel RT 7.5-12 Euro I 1997 2001 0.100 0.081 0.090 0.060 5.284 4.799 4.4 15 Diesel RT 7.5-12 Euro IV 2007 2009 0.105 0.071 0.064 0.060 4.188 3.656 3.1 15 Diesel RT 7.5-12 Euro IV 2007 2009 0.020 0.013 0.011 0.060 2.448 3.656 3.1 15 Diesel RT 7.5-12 Euro IV 2010 2014 0.020 0.013 0.011 0.060 2.548 3.656 3.1 16 Diesel RT 7.5-12 Euro V 2010 2014 0.020 0.013 0.011 0.060 2.548 3.656 3.1 16 Diesel RT 12-14 Euro I 1994 1996 0.251 0.177 0.163 0.060 5.642 4.985 4.1 16 Diesel RT 12-14 Euro I 1994 1996 0.251 0.177 0.163 0.060 5.642 4.985 4.1 16 Diesel RT 12-14 Euro I 1994 1996 0.251 0.177 0.072 0.060 4.913 4.029 3.1 16 Diesel RT 12-14 Euro I 1994 1996 0.251 0.177 0.072 0.060 4.913 4.029 3.1 17 Diesel RT 12-14 Euro I 1994 1996 0.373 0.324 0.352 0.060 7.72 0.060 4.913 4.029 3.1 18 Diesel RT 12-14 Euro I 1994 1996 0.375 0.014 0.012 0.060 2.936 3.985 5.1 19 Diesel RT 12-14 Euro I 1994 1996 0.375 0.014 0.012 0.060 2.936 3.985 5.1 19 Diesel RT 14-200 Euro I 1994 1996 0.379 0.370 0.320 0.060 0.724 6.335 6.1 19 Diesel RT 14-200 Euro I 1994 1996 0.379 0.380 0.352 0.060 7.724 6.335 6.1 10 Diesel RT 14-200 Euro I 1994 1996 0.379 0.380 0.060 0.370 0.060 0.395 6.205 6.355 6.1 10 Diesel RT 14-200 Euro I 1994 1996 0.395	14	Diesel RT 3.5-7.5t			1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14												3.568
15												2.585 1.686
		Diesel RT 3.5-7.5t	Euro V			0.013		0.007	0.060	0.922	0.886	0.978
15 Diesel RT 7.5-12t Euro III 1997 2001 0.100 0.081 0.090 0.060 5.284 4.799 4.18 15												8.114 4.790
												4.879
15 DieseR RT 12-14 Conventional 0.193 0.421 0.020 0.013 0.011 0.060 1.503 1.347 1.15 1.15 1.15 0.15 1.1												3.585
16 Diesel RT 12-14 t Euro II 1994 1996 0.251 0.152 0.163 0.060 9.438 8.311 8.4 16 Diesel RT 12-14 t Euro II 1997 2001 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro II 1997 2001 0.109 0.087 0.100 0.060 6.009 5.199 5.1 16 Diesel RT 12-14 t Euro II 2002 2006 0.199 0.077 0.060 0.060 6.009 5.199 5.1 16 Diesel RT 12-14 t Euro II 2002 2006 0.199 0.077 0.072 0.060 2.935 2.499 2.2 17 Diesel RT 12-14 t Euro IV 2007 2009 0.021 0.014 0.012 0.060 2.935 2.499 2.2 17 Diesel RT 12-14 t Euro II 1994 1996 0.357 0.394 0.352 0.060 12.021 10.076 2.5 17 Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.173 5.985 5.1 17 Diesel RT 14-20t Euro II 2002 2006 0.151 0.105 0.094 0.060 0.315 4.999 4.4 17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.2 18 Diesel RT 14-20t Euro V 2010 2014 0.030 0.020 0.017 0.060 3.734 3.017 2.2 18 Diesel RT 12-26t Euro II 1994 1996 0.439 0.288 0.253 0.060 13.189 10.579 18 18 Diesel RT 20-26t Euro II 1997 2001 0.183 0.136 0.152 0.060 9.566 7.830 7.8 18 Diesel RT 20-26t Euro II 1997 2001 0.183 0.136 0.152 0.060 9.566 7.830 7.8 18 Diesel RT 20-26t Euro II 1997 2001 0.183 0.136 0.152 0.060 9.566 7.830 7.8 18 Diesel RT 20-26t Euro II 1997 2001 0.183 0.136 0.152 0.060 9.566 7.830 7.8 18 Diesel RT 20-26t Euro II 1997 2001 0.183 0.136 0.152 0.060 9.566 7.830 7.8 19 Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 4.769 3.800 3.8 19 Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 0.793 6.783 7.8 19 Diesel RT 20-28t Euro II 1997 2001 0.195 0.			_									2.313 1.330
16												8.445
16	16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
16 Diesel RT 12-14 t Euro IV 2007 2009 0.021 0.014 0.012 0.060 2.935 2.499 2.4 17 Diesel RT 14-20t Euro II 1994 1996 0.337 0.322 0.205 0.060 1.2.021 1.076 5.55 17 Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 6.1 17 Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 6.1 17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 6.315 4.959 4.1 17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 0.334 3.017 2.1 18 Diesel RT 14-20t Euro IV 2010 2014 0.030 0.020 0.017 0.060 2.240 1.786 1.786 1.8 18 Diesel RT 20-26t Euro II 1994 1996 0.439 0.288 0.253 0.060 9.261 7.445 6.3 18 Diesel RT 20-26t Euro II 1997 2001 0.183 0.136 0.152 0.060 9.261 7.455 6.1 18 Diesel RT 20-26t Euro II 1997 2001 0.183 0.136 0.152 0.060 9.856 7.830 7.3 18 Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 0.7933 6.020 7.3 18 Diesel RT 20-26t Euro IV 2007 2009 0.036 0.024 0.020 0.060 0.746 9.3800 3.3 18 Diesel RT 20-26t Euro IV 2007 2009 0.036 0.037 0.024 0.020 0.060 0.746 3.800 3.3 19 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.024 0.020 0.060 2.840 2.250 2.2 19 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.269 0.060 0.747 7.811 7.4 19 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.269 0.060 0.747 7.811 7.4 19 Diesel RT 26-28t Euro II 1997 2001 0.195 0.145 0.160 0.060 0.281 1.815 7.2 19 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.020 0.060 0.295 2.290 2.2 10 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.020 0.060 0.295 2.290 2.2 10 Diesel RT 26-28t Euro II 1994												5.076
Diesel RT 14-20t Conventional 0 1993 0.573 0.394 0.352 0.060 12.021 10.076 9.17 Diesel RT 14-20t Euro II 1994 1996 0.337 0.232 0.205 0.060 7.173 5.985 5.17 Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 6.14 To Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.274 3.017 2.14 To Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.274 3.017 2.14 To Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.234 3.017 2.14 To Diesel RT 12-26t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.234 3.017 2.14 To Diesel RT 20-26t Euro II 1994 1996 0.439 0.288 0.253 0.060 9.261 7.445 5.5 To Diesel RT 20-26t Euro II 1994 1996 0.439 0.288 0.253 0.060 9.261 7.445 5.5 To Diesel RT 20-26t Euro III 2002 2006 0.190 0.126 0.112 0.060 7.933 6.202 5.3 To Diesel RT 20-26t Euro III 2002 2006 0.190 0.126 0.112 0.060 7.933 6.202 5.3 To Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 4.769 3.800 3.18 Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 4.769 3.800 3.18 Diesel RT 20-26t Euro IV 2007 2009 0.036 0.023 0.020 0.060 4.769 3.800 3.18 Diesel RT 26-28t Euro II 1994 1996 0.458 0.307 0.269 0.060 0.281 1.154 1.0												3.844 2.421
Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 6.17				0	1993		0.394	0.352		12.021		9.710
To Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 4.989 4.4												5.769
Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.17												6.058 4.624
Diesel RT 20-26t												2.858
												1.681
B												9.899 6.985
Name												7.311
Diesel RT 20-26t												5.760
Diesel RT 26-28t												3.546 2.096
Diesel RT 26-28t												10.394
Diesel RT 26-28t Euro III 2002 2006 0.203 0.136 0.116 0.060 8.026 6.265 5.8												7.278
Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.60												7.563 5.829
Diesel RT 28-32t												3.635
Diesel RT 28-32t	19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
Diesel RT 28-32t												11.970
Diesel RT 28-32t Euro III 2002 2006 0.217 0.148 0.130 0.060 9.211 7.293 6.6												8.470 8.563
Diesel RT 28-32t Euro V 2010 2014 0.041 0.027 0.022 0.060 3.374 2.698 2.4												6.656
Diesel RT > 32t Conventional O 1993 O.681 O.481 O.432 O.060 16.129 12.809 11.7												4.173
Diesel RT > 32t												2.413 11.740
Diesel RT > 32t												8.322
24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.5 24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.3 24 Diesel TT/AT 28-34t Euro IV 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.6 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312												6.752
24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.9 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.1 24 Diesel TT/AT 28-34t Euro IV 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.6 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.240 9.952</td></td<>												4.240 9.952
24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.5 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130												6.997
24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.5 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.1 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022												7.100
24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.1 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.523 3.537</td></td<>												5.523 3.537
25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.1 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 6.018 4.600 4.1 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.064</td></t<>												2.064
25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro II 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro III 1997 2001 0.273 0.189 0.227		· · · · · · · · · · · · · · · · · · ·										11.208
25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141		· · · · · · · · · · · · · · · · · · ·	_									7.904 8.176
25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.2 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.3												6.473
26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro III 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.1	25	Diesel TT/AT 34-40t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.1		· · · · · · · · · · · · · · · · · · ·										2.410 12.573
26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0 26 Diesel TT/AT 40-50t Euro III 2002 2006 0.242 0.162 0.141 0.060 10.808 8.275 7.1		· · · · · · · · · · · · · · · · · · ·										8.785
	26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 Discol TT/AT 40 E0t Euro IV 2007 2000 0.042 0.027 0.022 0.000 C.72E E444 4.5												7.184
												4.558 2.667
27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.6	27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27 Diesel TT/AT 50-60t Euro IV 2007 2009 0.049 0.031 0.026 0.060 8.166 6.177 5.3	27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	ırban	High	way	Subui
РМ	NO _x	РМ	NO _x	РМ	NO _x	SU
		nt/gram per poll	utant per vehic	le		count
2.518	0.906	2.518	0.906	2.518	0.906	cent/kn
1.158	4.077	1.158	6.795	1.158	6.795	5.2
1.105	4.011	0.851	3.942	0.797	4.434	5.1
0.518	2.794	0.422	2.865	0.403	3.220	3.3
0.308	2.979	0.288	2.955	0.299	3.233	3.3
0.321	2.331 1.414	0.269	2.176 1.384	0.169	2.342 1.527	2.7 1.6
0.184	0.835	0.173	0.803	0.169	0.886	1.0
1.136	7.624	0.839	6.978	0.775	7.351	8.8
0.733	4.520	0.556	4.183	0.524	4.340	5.3
0.402	4.788	0.354	4.348	0.378	4.421	5.2
0.416	3.795	0.331	3.312	0.313	3.248	4.2
0.201	2.305 1.362	0.184	2.066 1.221	0.179	2.096	2.5 1.6
1.212	8.551	0.184	7.530	0.179	7.651	9.8
0.782	5.112	0.597	4.517	0.561	4.512	5.9
0.425	5.445	0.371	4.710	0.403	4.599	5.9
0.425	4.451	0.345	3.650	0.332	3.482	4.9
0.205	2.659	0.187	2.264	0.182	2.194	2.9
1.594	10.891	1.144	9.129	1.038	8.797	12.5
1.000	6.499	0.735	5.423	0.668	5.227	7.5
0.497	6.998	0.431	5.740	0.434	5.489	7.5
0.531	5.722 3.383	0.415	4.520 2.734	0.387	<u>4.189</u> 2.590	<u>6.3</u> 3.6
0.227	2.030	0.201	1.618	0.193	1.523	2.3
1.607	11.950	1.177	9.584	1.077	8.969	13.6
1.256	8.390	0.875	6.745	0.787	6.329	9.6
0.612	8.930	0.494	7.094	0.533	6.624	9.5
0.629	7.187	0.469	5.620	0.432	5.219	7.8
0.243	4.321	0.210	3.442	0.201	3.213	4.6
0.244 1.696	2.573 12.586	0.211 1.236	2.038	0.202 1.117	1.899 9.417	2.8 14.3
1.305	8.855	0.924	7.076	0.828	6.594	10.2
0.641	9.315	0.517	7.371	0.558	6.852	10.0
0.662	7.271	0.493	5.676	0.443	5.281	7.9
0.245	4.458	0.212	3.536	0.202	3.293	4.7
0.246	2.632	0.213	2.074	0.202	1.932	2.9
1.860	14.221	1.357	11.658	1.223	10.845	16.1
1.420 0.720	10.142	1.019	8.232	0.921	7.674	11.6
0.697	10.535 8.345	0.563 0.523	8.600 6.608	0.641 0.478	7.758 6.031	9.0
0.252	5.143	0.217	4.158	0.206	3.781	5.4
0.254	3.057	0.218	2.445	0.207	2.186	3.3
1.867	14.613	1.362	11.605	1.240	10.637	16.5
1.470	10.354	1.029	8.204	0.923	7.540	11.8
0.708	8.641	0.521	6.782	0.475	6.118	9.3
0.255 1.651	5.303 13.102	0.217 1.210	4.182 10.307	0.207 1.097	3.842 9.016	5.6 14.8
1.281	9.288	0.930	7.253	0.841	6.339	10.6
0.666	9.471	0.511	7.425	0.590	6.433	10.1
0.625	7.641	0.476	5.797	0.439	5.004	8.3
0.239	4.702	0.208	3.589	0.199	3.205	4.9
0.240	2.789	0.208	2.103	0.199	1.870	3.0
1.907	15.101	1.373	11.721	1.236	10.155	17.0
1.507	10.639 11.103	1.051 0.569	8.254 8.546	0.936	7.162	12.1 11.9
0.763 0.717	8.842	0.527	6.757	0.659 0.478	7.408 5.865	9.6
0.254	5.453	0.216	4.168	0.206	3.719	5.7
0.256	3.223	0.217	2.447	0.207	2.184	3.5
2.064	16.978	1.495	13.193	1.346	11.392	19.0
1.633	11.878	1.154	9.209	1.032	7.959	13.5
0.838	12.331	0.626	9.472	0.723	8.163	13.2
0.760	9.792	0.558	7.497	0.506	6.509	10.6
0.260	6.102 3.589	0.220	4.658 2.718	0.209	4.130 2.416	3.9
0.991	14.847	0.732	11.308	0.844	9.658	15.8
0.274	7.399	0.229	5.597	0.217	4.890	7.7

Suburban	Interurban	Highway
SUM	SUM	SUM
country sp	ecific external c	osts per km
cent/km	cent/km	cent/km
5.2	8.0	8.0
5.1	4.8	5.2
3.3	3.3	3.6
3.3	3.2	3.5
2.7	2.4	2.6
1.6	1.6	1.7
8.8	7.8	8.1
5.3	4.7	4.9
5.2	4.7	4.8
4.2	3.6	3.6
2.5	2.2	2.3
9.8	1.4 8.4	1.4 8.5
5.9	5.1	5.1
5.9	5.1	5.0
4.9	4.0	3.8
2.9	2.5	2.4
12.5	10.3	9.8
7.5	6.2	5.9 5.9
7.5 6.3	6.2 4.9	4.6
3.6	2.9	2.8
2.3	1.8	1.7
13.6	10.8	10.0
9.6	7.6	7.1
9.5	7.6	7.2
7.8 4.6	6.1 3.7	5.7 3.4
2.8	2.2	2.1
14.3	11.3	10.5
10.2	8.0	7.4
10.0	7.9	7.4
7.9	6.2	5.7
2.9	2.3	3.5 2.1
16.1	13.0	12.1
11.6	9.3	8.6
11.3	9.2	8.4
9.0	7.1	6.5
5.4	4.4	4.0
3.3 16.5	2.7 13.0	2.4 11.9
11.8	9.2	8.5
9.3	7.3	6.6
5.6	4.4	4.0
14.8	11.5	10.1
10.6	8.2	7.2
8.3	7.9 6.3	7.0 5.4
4.9	3.8	3.4
3.0	2.3	2.1
17.0	13.1	11.4
12.1	9.3	8.1
11.9	9.1	8.1
9.6 5.7	7.3 4.4	6.3 3.9
3.5	2.7	2.4
19.0	14.7	12.7
13.5	10.4	9.0
13.2	10.1	8.9
10.6	8.1	7.0
6.4	4.9	4.3
3.9 15.8	2.9 12.0	2.6 10.5
7.7	5.8	5.1
		- · -

Second S												
Subsector												
Second S	Sub	Subsector	Tech 2	First	Last							NO _x (highway)
13									•			80 km/h
14 Diesel RT 3.5-7.55 Conventional 0 1993 0.379 0.278 0.257 0.060 4.427 4.351 3.141 14 Diesel RT 3.5-7.55 Euro I 1997 2001 0.062 0.054 0.059 0.060 3.888 3.262 3.141 14 Diesel RT 3.5-7.55 Euro III 2097 2000 0.067 0.047 0.041 0.060 2.573 3.262 3.141 14 Diesel RT 3.5-7.55 Euro III 2002 2006 0.067 0.047 0.041 0.060 2.573 3.262 3.141 14 Diesel RT 3.5-7.55 Euro IV 2007 2009 0.013 0.008 0.007 0.060 0.525 1.528 1.528 1.141 14 Diesel RT 3.5-7.55 Euro V 2010 2014 0.013 0.009 0.007 0.060 0.522 0.068 0.001 1.511 1.528 1.142		Caralina & 2 Et	Campantianal		0000	0.400	0.400	0.400	0.060		7.500	7.500
14 Diesel RT 3.5-7.5t Euro I 1994 1996 0.146 0.107 0.100 0.060 3.084 3.162 3.1 14 Diesel RT 3.5-7.5t Euro II 2002 2006 0.067 0.044 0.060 2.573 2.401 2.1 14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.031 0.008 0.007 0.060 1.516 1.528 1.1 14 Diesel RT 3.5-7.5t Euro IV 2010 2014 0.013 0.009 0.007 0.060 0.922 0.886 0.515 0.5												7.500 4.894
Diesel RT 3.5-7.5K Euro IV 2007 2009 0.067 0.047 0.041 0.060 2.573 2.401 2.1	14	Diesel RT 3.5-7.5t			1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.013 0.008 0.007 0.060 1.561 1.528 1.14 Diesel RT 7.5-121 Euro IV 2010 2014 0.013 0.009 0.007 0.060 0.926 0.866 0.05 Diesel RT 7.5-122 Euro II 1994 1996 0.231 0.161 0.148 0.060 4.948 4.161 4.15 Diesel RT 7.5-121 Euro II 1997 2001 0.100 0.081 0.090 0.060 5.284 4.799 4.15 Diesel RT 7.5-121 Euro III 2002 2006 0.105 0.017 0.064 0.060 4.184 3.056 3.15 Diesel RT 7.5-121 Euro III 2002 2006 0.105 0.017 0.064 0.060 4.184 3.056 3.15 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 2.280 2.3 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 2.280 2.3 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 3.954 3.11 6.164 3.056 3.15 3.15 3.056 3.15 3.15 3.15 3.056 3.15												3.568
15 Diesel RT 13-57-51 Euro V 2010 2014 0.013 0.099 0.007 0.060 0.922 0.886 0.51												2.585 1.686
Diesel RT 7.5-12t Euro I		Diesel RT 3.5-7.5t	Euro V			0.013		0.007	0.060	0.922	0.886	0.978
												8.114 4.790
Diesel RT J-5-12t Euro V 2007 2009 0.020 0.013 0.011 0.060 2.544 2.280 2.25												4.879
15 Diesel RT 12-14 Conventional 0.193 0.421 0.020 0.013 0.011 0.060 1.503 1.347 1.346 1.506 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506												3.585
16 Diesel RT 12-14 t Euro II 1994 1996 0.251 0.177 0.163 0.066 9.438 8.311 8.16 Diesel RT 12-14 t Euro II 1997 2001 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro III 2002 2006 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro III 2002 2006 0.109 0.087 0.010 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro IV 2007 2009 0.021 0.014 0.012 0.060 2.935 2.499 2.2 17 Diesel RT 14-20t Euro II 1994 1996 0.337 0.322 0.060 0.060 2.735 2.499 2.2 17 Diesel RT 14-20t Euro II 1997 2001 0.137 0.032 0.060 7.173 5.985 5.19 17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 6.335 6.17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 6.335 6.17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.050 0.020 0.017 0.060 6.315 4.301 7.724 6.335 6.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 6.315 4.301 7.724 6.335 6.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.10 4.												2.313 1.330
16												8.445
16	16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
Diesel RT 12-14 t												5.076
To Diesel RT 14-20t Euro I 1994 1996 0.337 0.232 0.352 0.060 12.021 10.076 9.3												3.844 2.421
Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 5.4				0	1993		0.394	0.352		12.021		9.710
Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 4.989 4.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.5 1.7 Diesel RT 14-20t Euro V 2010 2014 0.030 0.020 0.017 0.060 3.734 3.017 2.5 1.5												5.769
Diesel RT 14-20t												6.058 4.624
Diesel RT 20-26t												2.858
												1.681
No. Diesel RT 20-26t Euro III 1997 2001 0.183 0.136 0.152 0.060 9.856 7.830 7.3												9.899 6.985
Name												7.311
Diesel RT 20-26t												5.760
Diesel RT 26-28t												3.546 2.096
Diesel RT 26-28t Euro III 1997 2001 0.195 0.145 0.162 0.060 10.281 8.136 7.5												10.394
Diesel RT 26-28t Euro III 2002 2006 0.203 0.136 0.116 0.060 8.026 6.265 5.619 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.61												7.278
Diesel RT 26-28t												7.563 5.829
Diesel RT 28-32t												3.635
Diesel RT 28-32t	19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
Diesel RT 28-32t Euro III 1997 2001 0.226 0.163 0.195 0.060 11.628 9.492 8.5												11.970
Diesel RT 28-32t												8.470 8.563
Diesel RT 28-32t Euro V 2010 2014 0.041 0.027 0.022 0.060 3.374 2.698 2.4												6.656
Diesel RT > 32t Conventional O 1993 O.681 O.481 O.432 O.060 16.129 12.809 11.7												4.173
21 Diesel RT > 32t Euro I 1994 1996 0.524 0.349 0.307 0.060 11.428 9.055 8.3 21 Diesel RT > 32t Euro IV 2002 2006 0.221 0.147 0.129 0.060 9.538 7.485 6.7 21 Diesel RT > 32t Euro IV 2007 2009 0.041 0.026 0.022 0.060 5.853 4.616 4.2 24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.6 24 Diesel TT/AT 28-34t Euro II 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 18.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 <td></td> <td>2.413 11.740</td>												2.413 11.740
Diesel RT > 32t												8.322
24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.5 24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.3 24 Diesel TT/AT 28-34t Euro IV 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.6 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 <												6.752
24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.9 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.1 24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.240 9.952</td></td<>												4.240 9.952
24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro IV 2007 2006 0.225 0.149 0.130												6.997
24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 <												7.100
24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.523 3.537</td></td<>												5.523 3.537
25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.064</td></t<>												2.064
25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 <		· · · · · · · · · · · · · · · · · · ·										11.208
25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.6		· · · · · · · · · · · · · · · · · · ·										7.904 8.176
25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.6												6.473
26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0	25	Diesel TT/AT 34-40t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0		· · · · · · · · · · · · · · · · · · ·										2.410 12.573
26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0		· · · · · · · · · · · · · · · · · · ·										8.785
26 Diesel TT/AT 40-50t Furo III 2002 2006 0 242 0 162 0 141 0 060 10 808 8 275 7	26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
	26			2002		0.242	0.162	0.141	0.060	10.808	8.275	7.184
												4.558 2.667
27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.6	27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27 Diesel TT/AT 50-60t Euro IV 2007 2009 0.049 0.031 0.026 0.060 8.166 6.177 5.3	27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	rban	High	wav	Suburban	Interurban	Highway
РМ	NO _x	PM nt/gram per poll	NO _x	PM	NO _x	SUM	SUM ecific external co	SUM
1.535	0.500	1.535	0.500	1.535	0.500	cent/km	cent/km	cent/km
0.706	2.251	0.706	3.751	0.706	3.751	3.0	4.5	4.5
0.674	2.214	0.519	2.176	0.486	2.448	2.9	2.7	2.9
0.316	1.542 1.645	0.257 0.176	1.582 1.631	0.245	1.778 1.785	1.9	1.8	2.0
0.196	1.287	0.164	1.201	0.155	1.293	1.5	1.4	1.4
0.112	0.781	0.105	0.764	0.103	0.843	0.9	0.9	0.9
0.112	0.461	0.105	0.443	0.103	0.489	0.6	0.5	0.6
0.693	4.209 2.496	0.511 0.339	3.852 2.309	0.472 0.319	<u>4.058</u> 2.396	<u>4.9</u> 2.9	2.6	4.5 2.7
0.245	2.490	0.216	2.400	0.230	2.440	2.9	2.6	2.7
0.254	2.095	0.202	1.828	0.191	1.793	2.3	2.0	2.0
0.122	1.273	0.112	1.140	0.109	1.157	1.4	1.3	1.3
0.123	0.752	0.112	0.674	0.109	0.665	0.9	0.8	0.8
0.739 0.477	4.721 2.822	0.550 0.364	4.157 2.494	0.508	4.224 2.491	5.5 3.3	2.9	2.8
0.259	3.006	0.226	2.600	0.246	2.539	3.3	2.8	2.8
0.259	2.457	0.211	2.015	0.202	1.922	2.7	2.2	2.1
0.125	1.468	0.114	1.250	0.111	1.211	1.6	1.4	1.3
0.972	6.012	0.697	5.040	0.633	4.856	7.0	5.7	5.5
0.609	3.588 3.863	0.448 0.263	2.994 3.169	0.407 0.265	2.885 3.030	4.2	3.4	3.3
0.324	3.159	0.253	2.495	0.236	2.313	3.5	2.7	2.5
0.138	1.867	0.122	1.509	0.118	1.430	2.0	1.6	1.5
0.139	1.120	0.122	0.893	0.118	0.841	1.3	1.0	1.0
0.980	6.597	0.718 0.534	5.291	0.657	4.951	7.6 5.4	6.0	5.6
0.766	4.632 4.930	0.301	3.724 3.916	0.480	3.494 3.657	5.3	4.3	4.0
0.383	3.968	0.286	3.102	0.263	2.881	4.4	3.4	3.1
0.148	2.385	0.128	1.900	0.123	1.774	2.5	2.0	1.9
0.149	1.421	0.128	1.125	0.123	1.049	1.6	1.3	1.2
1.034 0.796	6.948 4.888	0.754 0.563	5.579 3.907	0.681	5.199 3.640	8.0 5.7	6.3 4.5	5.9 4.1
0.391	5.142	0.315	4.069	0.340	3.783	5.5	4.4	4.1
0.403	4.014	0.301	3.133	0.270	2.915	4.4	3.4	3.2
0.149	2.461	0.129	1.952	0.123	1.818	2.6	2.1	1.9
0.150	1.453	0.130	1.145	0.123	1.067	1.6	1.3	1.2
1.134 0.866	7.851 5.599	0.827 0.621	6.436 4.544	0.746 0.561	5.987 4.236	9.0 6.5	7.3 5.2	6.7 4.8
0.439	5.816	0.343	4.748	0.391	4.283	6.3	5.1	4.7
0.425	4.607	0.319	3.648	0.291	3.329	5.0	4.0	3.6
0.154	2.839	0.132	2.296	0.126	2.087	3.0	2.4	2.2
0.155 1.138	1.688 8.067	0.133 0.830	1.350 6.407	0.126 0.756	1.207 5.872	1.8 9.2	7.2	1.3 6.6
0.896	5.716	0.627	4.529	0.563	4.162	6.6	5.2	4.7
0.432	4.771	0.318	3.744	0.290	3.377	5.2	4.1	3.7
0.155	2.927	0.132	2.309	0.126	2.121	3.1	2.4	2.2
1.006	7.233	0.738	5.690	0.669	4.977	8.2	6.4	5.6
0.781	5.127 5.228	0.567 0.312	4.004 4.099	0.513	3.500 3.551	5.9 5.6	4.6	3.9
0.381	4.218	0.290	3.200	0.268	2.762	4.6	3.5	3.9
0.146	2.596	0.127	1.981	0.121	1.769	2.7	2.1	1.9
0.147	1.540	0.127	1.161	0.122	1.032	1.7	1.3	1.2
1.163	8.336	0.837	6.471	0.754	5.606	9.5	7.3	6.4
0.919	5.873 6.130	0.641 0.347	4.557 4.718	0.571 0.402	3.954 4.089	6.8	5.2 5.1	4.5 4.5
0.437	4.881	0.321	3.730	0.291	3.238	5.3	4.1	3.5
0.155	3.010	0.132	2.301	0.126	2.053	3.2	2.4	2.2
0.156	1.779	0.132	1.351	0.126	1.205	1.9	1.5	1.3
1.258 0.996	9.373 6.557	0.911 0.703	7.283 5.084	0.821	6.289 4.394	7.6	8.2 5.8	7.1 5.0
0.511	6.807	0.382	5.084	0.629	4.506	7.3	5.6	4.9
0.463	5.406	0.340	4.139	0.308	3.593	5.9	4.5	3.9
0.158	3.369	0.134	2.571	0.127	2.280	3.5	2.7	2.4
0.160	1.981	0.135	1.500	0.128	1.334	2.1	1.6	1.5
0.604	8.197 4.085	0.446 0.139	6.243 3.090	0.515 0.132	5.332 2.699	8.8 4.3	3.2	5.8 2.8
0.107	7.003	0.100	3.030	0.102	2.033		J.2	2.0

							Emissi	ions (gram	ı/km)		
Cook	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400	0.400 0.257	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.008	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12–14 t Diesel RT 14–20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288 0.136	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20–26t Diesel RT 26–28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Euro IV	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.022	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.243	0.149	0.202	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25	Diesel TT/AT 34-40t		2010	2014	0.042	0.026	0.022	0.060	3.557	2.700	2.410
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		0 1994	1993 1996	0.760	0.534 0.398	0.475 0.350	0.060	18.739 13.110	14.561 10.164	12.573 8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26	Diesel TT/AT 40-50t		2002	2006	0.242	0.162	0.141	0.060	10.808	8.275	7.184
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro IV Euro V	2007 2010	2009	0.043	0.027 0.028	0.023	0.060	6.735 3.961	5.141 3.000	4.558 2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Suburban I		Interu	rban	Highv	Highway		
РМ	NO _x	PM nt/gram per pollu	NO_x utant per vehic	PM le	NO _x		
2.362	0.684	2.362	0.684	2.362	0.684		
1.087	3.080	1.087	5.133	1.087	5.133		
1.037	3.030	0.799	2.977	0.748	3.350		
0.486	2.111	0.396	2.164	0.378	2.433		
0.301	2.250 1.761	0.270 0.253	1.644	0.239	2.442 1.769		
0.172	1.068	0.162	1.044	0.259	1.154		
0.172	0.631	0.162	0.606	0.159	0.669		
1.066	5.759	0.787	5.271	0.727	5.553		
0.688	3.415	0.522	3.159	0.491	3.278		
0.377	3.616	0.332	3.284	0.354	3.339		
0.390	2.866	0.311	2.502	0.294	2.454		
0.188	1.741	0.173	1.560	0.168	1.583		
0.189	1.029	0.173	0.922	0.168	0.910		
1.136	6.459	0.847	5.688	0.782	5.779		
0.734 0.399	3.861 4.113	0.560 0.348	3.412 3.558	0.526 0.378	3.408 3.474		
0.399	3.362	0.348	2.757	0.378	2.630		
0.192	2.009	0.175	1.710	0.171	1.657		
1.495	8.227	1.073	6.896	0.973	6.645		
0.938	4.909	0.690	4.096	0.627	3.948		
0.466	5.286	0.405	4.336	0.407	4.146		
0.499	4.322	0.389	3.414	0.363	3.164		
0.212	2.555	0.188	2.065	0.181	1.956		
0.213	1.533	0.188	1.222	0.181	1.150		
1.507	9.026	1.104	7.240	1.010	6.775		
1.178	6.338	0.821	5.095	0.739	4.781		
0.574	6.745 5.429	0.464	5.359 4.245	0.500	5.004 3.942		
0.228	3.264	0.197	2.600	0.189	2.427		
0.229	1.944	0.197	1.540	0.189	1.435		
1.591	9.507	1.160	7.633	1.048	7.113		
1.224	6.689	0.867	5.345	0.777	4.981		
0.601	7.036	0.485	5.568	0.524	5.176		
0.621	5.493	0.462	4.287	0.416	3.989		
0.230	3.367	0.199	2.671	0.189	2.488		
0.231	1.988	0.199	1.567	0.190	1.460		
1.744	10.742	1.273	8.806	1.147	8.192		
1.332	7.661	0.956	6.218	0.864	5.797		
0.676	7.958	0.528	6.496	0.602	5.860		
0.653 0.237	6.304 3.885	0.490	4.991 3.141	0.448	4.555 2.856		
0.238	2.309	0.205	1.847	0.194	1.651		
1.751	11.038	1.278	8.766	1.163	8.035		
1.378	7.821	0.965	6.197	0.866	5.695		
0.664	6.527	0.489	5.123	0.446	4.621		
0.239	4.006	0.204	3.159	0.194	2.902		
1.548	9.897	1.135	7.786	1.029	6.811		
1.202	7.016	0.872	5.479	0.789	4.789		
0.625	7.154	0.480	5.608	0.553	4.859		
0.586	5.772	0.446	4.379	0.412	3.780		
0.224 0.225	3.552 2.107	0.195 0.196	2.711 1.589	0.186	2.421 1.413		
1.789	11.406	1.288	8.854	0.187 1.160	7.670		
1.414	8.036	0.986	6.235	0.878	5.410		
0.716	8.387	0.534	6.456	0.619	5.596		
0.673	6.679	0.494	5.104	0.448	4.430		
0.239	4.119	0.203	3.148	0.193	2.809		
0.240	2.435	0.204	1.848	0.194	1.649		
1.936	12.824	1.402	9.965	1.263	8.605		
1.532	8.972	1.082	6.956	0.968	6.012		
0.786	9.315	0.587	7.155	0.678	6.166		
0.713	7.397	0.524	5.663	0.474	4.916		
0.244	4.609	0.206	3.518	0.196	3.120		
0.245	2.711	0.207 0.687	2.053 8.542	0.197 0.792	7.295		
0.929	11.215						

Suburban SUM	Interurban SUM	Highway SUM
	ecific external c	
cent/km	cent/km	cent/km
4.2	6.2	6.2
2.6	3.8 2.6	2.8
2.5	2.5	2.7
2.1	1.9	2.0
0.8	0.8	0.8
6.8	6.1	6.3
4.1	3.7	3.8
4.0 3.3	3.6 2.8	3.7 2.7
1.9	1.7	1.8
1.2	1.1	1.1
7.6 4.6	6.5 4.0	6.6
4.5	3.9	3.9
3.8	3.1	2.9
2.2	1.9	1.8
9.7 5.8	8.0 4.8	7.6 4.6
5.8	4.7	4.6
4.8	3.8	3.5
2.8 1.7	2.3 1.4	1.3
10.5	8.3	7.8
7.5	5.9	5.5
7.3 6.0	5.8 4.7	5.5 4.3
3.5	2.8	2.6
2.2	1.7	1.6
11.1	8.8	8.2
7.9 7.6	6.2	5.8 5.7
6.1	4.7	4.4
3.6	2.9	2.7
2.2 12.5	1.8	1.6 9.3
9.0	7.2	6.7
8.6	7.0	6.5
7.0 4.1	5.5 3.3	5.0 3.0
2.5	2.1	1.8
12.8	10.0	9.2
9.2	7.2 5.6	6.6 5.1
7.2 4.2	3.4	3.1
11.4	8.9	7.8
8.2	6.4	5.6
7.8 6.4	6.1 4.8	5.4 4.2
3.8	2.9	2.6
2.3	1.8	1.6
9.5	7.2	6.3
9.1	7.0	6.2
7.4	5.6	4.9
2.7	3.4 2.1	3.0 1.8
14.8	11.4	9.9
10.5	8.0	7.0
10.1	7.7	6.8
8.1 4.9	6.2 3.7	3.3
3.0	2.3	2.0
12.1	9.2	8.1
5.8	4.4	3.9

Second S												
Subsector												
Second S	Sub	Subsector	Tech 2	First	Last							NO _x (highway)
13									•			80 km/h
14 Diesel RT 3.5-7.55 Conventional 0 1993 0.379 0.278 0.257 0.060 4.427 4.351 3.141 14 Diesel RT 3.5-7.55 Euro I 1997 2001 0.062 0.054 0.059 0.060 3.888 3.262 3.141 14 Diesel RT 3.5-7.55 Euro III 2097 2000 0.067 0.047 0.041 0.060 2.573 3.262 3.141 14 Diesel RT 3.5-7.55 Euro III 2002 2006 0.067 0.047 0.041 0.060 2.573 3.262 3.141 14 Diesel RT 3.5-7.55 Euro IV 2007 2009 0.013 0.008 0.007 0.060 0.525 1.528 1.528 1.141 14 Diesel RT 3.5-7.55 Euro V 2010 2014 0.013 0.009 0.007 0.060 0.522 0.068 0.001 1.511 1.528 1.142		Caralina & 2 Et	Campantianal		0000	0.400	0.400	0.400	0.060		7.500	7.500
14 Diesel RT 3.5-7.5t Euro I 1994 1996 0.146 0.107 0.100 0.060 3.084 3.162 3.1 14 Diesel RT 3.5-7.5t Euro II 2002 2006 0.067 0.044 0.060 2.573 2.401 2.1 14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.031 0.008 0.007 0.060 1.516 1.528 1.1 14 Diesel RT 3.5-7.5t Euro IV 2010 2014 0.013 0.009 0.007 0.060 0.922 0.886 0.515 0.5												7.500 4.894
Diesel RT 3.5-7.5K Euro IV 2007 2009 0.067 0.047 0.041 0.060 2.573 2.401 2.1	14	Diesel RT 3.5-7.5t			1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.013 0.008 0.007 0.060 1.561 1.528 1.14 Diesel RT 7.5-121 Euro IV 2010 2014 0.013 0.009 0.007 0.060 0.926 0.866 0.05 Diesel RT 7.5-122 Euro II 1994 1996 0.231 0.161 0.148 0.060 4.948 4.161 4.15 Diesel RT 7.5-121 Euro II 1997 2001 0.100 0.081 0.090 0.060 5.284 4.799 4.15 Diesel RT 7.5-121 Euro III 2002 2006 0.105 0.017 0.064 0.060 4.184 3.056 3.15 Diesel RT 7.5-121 Euro III 2002 2006 0.105 0.017 0.064 0.060 4.184 3.056 3.15 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 2.280 2.3 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 2.280 2.3 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 3.954 3.11 6.164 3.056 3.15 3.15 3.056 3.15 3.15 3.15 3.056 3.15												3.568
15 Diesel RT 13-57-51 Euro V 2010 2014 0.013 0.099 0.007 0.060 0.922 0.886 0.51												2.585 1.686
Diesel RT 7.5-12t Euro I		Diesel RT 3.5-7.5t	Euro V			0.013		0.007	0.060	0.922	0.886	0.978
												8.114 4.790
Diesel RT J-5-12t Euro V 2007 2009 0.020 0.013 0.011 0.060 2.544 2.280 2.25												4.879
15 Diesel RT 12-14 Conventional 0.193 0.421 0.020 0.013 0.011 0.060 1.503 1.347 1.346 1.506 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506												3.585
16 Diesel RT 12-14 t Euro II 1994 1996 0.251 0.177 0.163 0.066 9.438 8.311 8.16 Diesel RT 12-14 t Euro II 1997 2001 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro III 2002 2006 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro III 2002 2006 0.109 0.087 0.010 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro IV 2007 2009 0.021 0.014 0.012 0.060 2.935 2.499 2.2 17 Diesel RT 14-20t Euro II 1994 1996 0.337 0.322 0.060 0.060 2.735 2.499 2.2 17 Diesel RT 14-20t Euro II 1997 2001 0.137 0.032 0.060 7.173 5.985 5.19 17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 6.335 6.17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 6.335 6.17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.050 0.020 0.017 0.060 6.315 4.301 7.724 6.335 6.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 6.315 4.301 7.724 6.335 6.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.10 4.												2.313 1.330
16												8.445
16	16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
Diesel RT 12-14 t												5.076
To Diesel RT 14-20t Euro I 1994 1996 0.337 0.232 0.352 0.060 12.021 10.076 9.3												3.844 2.421
Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 5.4				0	1993		0.394	0.352		12.021		9.710
Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 4.989 4.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.5 1.7 Diesel RT 14-20t Euro V 2010 2014 0.030 0.020 0.017 0.060 3.734 3.017 2.5 1.5												5.769
Diesel RT 14-20t												6.058 4.624
Diesel RT 20-26t												2.858
												1.681
No. Diesel RT 20-26t Euro III 1997 2001 0.183 0.136 0.152 0.060 9.856 7.830 7.3												9.899 6.985
Name												7.311
Diesel RT 20-26t												5.760
Diesel RT 26-28t												3.546 2.096
Diesel RT 26-28t Euro III 1997 2001 0.195 0.145 0.162 0.060 10.281 8.136 7.5												10.394
Diesel RT 26-28t Euro III 2002 2006 0.203 0.136 0.116 0.060 8.026 6.265 5.619 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.61												7.278
Diesel RT 26-28t												7.563 5.829
Diesel RT 28-32t												3.635
Diesel RT 28-32t	19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
Diesel RT 28-32t Euro III 1997 2001 0.226 0.163 0.195 0.060 11.628 9.492 8.5												11.970
Diesel RT 28-32t												8.470 8.563
Diesel RT 28-32t Euro V 2010 2014 0.041 0.027 0.022 0.060 3.374 2.698 2.4												6.656
Diesel RT > 32t Conventional O 1993 O.681 O.481 O.432 O.060 16.129 12.809 11.7												4.173
21 Diesel RT > 32t Euro I 1994 1996 0.524 0.349 0.307 0.060 11.428 9.055 8.3 21 Diesel RT > 32t Euro IV 2002 2006 0.221 0.147 0.129 0.060 9.538 7.485 6.7 21 Diesel RT > 32t Euro IV 2007 2009 0.041 0.026 0.022 0.060 5.853 4.616 4.2 24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.6 24 Diesel TT/AT 28-34t Euro II 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 18.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 <td></td> <td>2.413 11.740</td>												2.413 11.740
Diesel RT > 32t												8.322
24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.5 24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.3 24 Diesel TT/AT 28-34t Euro IV 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.6 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 <												6.752
24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.9 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.1 24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.240 9.952</td></td<>												4.240 9.952
24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro IV 2007 2006 0.225 0.149 0.130												6.997
24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 <												7.100
24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.523 3.537</td></td<>												5.523 3.537
25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.064</td></t<>												2.064
25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 <		· · · · · · · · · · · · · · · · · · ·										11.208
25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.6		· · · · · · · · · · · · · · · · · · ·										7.904 8.176
25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.6												6.473
26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0	25	Diesel TT/AT 34-40t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0		· · · · · · · · · · · · · · · · · · ·										2.410 12.573
26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0		· · · · · · · · · · · · · · · · · · ·										8.785
26 Diesel TT/AT 40-50t Furo III 2002 2006 0 242 0 162 0 141 0 060 10 808 8 275 7	26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
	26			2002		0.242	0.162	0.141	0.060	10.808	8.275	7.184
												4.558 2.667
27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.6	27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27 Diesel TT/AT 50-60t Euro IV 2007 2009 0.049 0.031 0.026 0.060 8.166 6.177 5.3	27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	an Interurban			Highway			
РМ	NO _x	РМ	NO _x	РМ	NO _x			
		/gram per poll	utant per veh	icle				
2.599	0.800	2.599	0.800	2.599	0.800			
1.196	3.598	1.196	5.997	1.196	5.997			
1.141	3.539	0.879	3.479	0.823	3.913			
0.535	2.466	0.435	2.528	0.416	2.842			
0.318	2.629 2.057	0.297	2.608 1.920	0.308	2.853 2.067			
0.189	1.248	0.178	1.222	0.174	1.348			
0.190	0.737	0.178	0.709	0.174	0.782			
1.173	6.728	0.866	6.158	0.800	6.487			
0.757	3.989	0.574	3.691	0.540	3.830			
0.415	4.225	0.366	3.837	0.390	3.901			
0.430	3.349	0.342	2.923	0.323	2.867			
0.207	2.034	0.190	1.823	0.185	1.850			
0.208 1.250	7.547	0.190	1.077 6.645	0.185	1.063 6.752			
0.807	4.511	0.617	3.986	0.579	3.982			
0.439	4.805	0.383	4.157	0.416	4.059			
0.439	3.928	0.357	3.221	0.343	3.073			
0.211	2.347	0.193	1.998	0.188	1.936			
1.646	9.611	1.180	8.057	1.071	7.764			
1.032	5.735	0.759	4.786	0.690	4.612			
0.513	6.176	0.445	5.066	0.448	4.844			
0.549	5.049 2.985	0.428	3.989 2.412	0.399	3.697 2.285			
0.235	1.791	0.207	1.428	0.200	1.344			
1.659	10.546	1.215	8.458	1.112	7.915			
1.297	7.405	0.904	5.953	0.813	5.585			
0.632	7.881	0.510	6.261	0.550	5.846			
0.649	6.343	0.484	4.959	0.446	4.606			
0.251	3.813	0.216	3.038	0.207	2.835			
0.252	2.271	0.217	1.799	0.208	1.676			
1.750 1.347	7.815	1.276 0.954	8.918 6.245	1.153 0.854	8.311 5.819			
0.662	8.221	0.534	6.505	0.576	6.047			
0.683	6.417	0.509	5.009	0.457	4.660			
0.253	3.934	0.219	3.121	0.208	2.907			
0.254	2.323	0.220	1.831	0.209	1.705			
1.919	12.550	1.401	10.288	1.262	9.571			
1.466	8.951	1.052	7.265	0.950	6.772			
0.743	9.297	0.581	7.590	0.662	6.847			
0.719	7.365 4.539	0.540	5.831 3.670	0.493	5.322 3.337			
0.262	2.698	0.225	2.158	0.214	1.929			
1.927	12.896	1.406	10.242	1.280	9.387			
1.517	9.137	1.062	7.240	0.953	6.654			
0.731	7.626	0.538	5.985	0.490	5.399			
0.263	4.680	0.224	3.690	0.214	3.390			
1.704	11.563	1.249	9.096	1.133	7.957			
1.323 0.687	8.197 8.358	0.960 0.528	6.401 6.552	0.868	5.595 5.677			
0.645	6.744	0.328	5.116	0.453	4.416			
0.247	4.150	0.214	3.167	0.205	2.828			
0.248	2.461	0.215	1.856	0.206	1.651			
1.968	13.326	1.417	10.344	1.276	8.961			
1.556	9.389	1.085	7.284	0.967	6.320			
0.788	9.799	0.588	7.542	0.681	6.537			
0.740	7.803	0.544	5.963	0.493	5.176			
0.263	4.812 2.844	0.223	3.678 2.159	0.213 0.214	3.282 1.927			
2.130	14.983	1.543	11.643	1.389	10.053			
1.686	10.482	1.191	8.127	1.065	7.024			
0.865	10.882	0.646	8.359	0.746	7.204			
0.784	8.642	0.576	6.616	0.522	5.744			
0.268	5.385	0.227	4.111	0.216	3.645			
0.270	3.167	0.228	2.398	0.217	2.132			
1.023	13.103	0.756	9.980	0.872	8.523			
0.283	6.530	0.236	4.939	0.224	4.315			

Suburban SUM	SUM	SUM
country sp	ecific external co	osts per km
cent/km	cent/km	cent/km
4.8	7.2	7.2
4.7	4.4	4.7
3.0 2.9	3.0 2.9	3.3
2.4	2.2	2.3
1.4	1.4	1.5
0.9	0.9	1.0
7.9 4.7	7.0 4.3	7.3 4.4
4.6	4.2	4.3
3.8	3.3	3.2
2.2	2.0	2.0
1.4 8.8	7.6	7.6
5.3	4.6	4.6
5.2	4.5	4.5
4.4	3.6	3.4
2.6	2.2	2.1
6.8	9.2 5.5	8.8 5.3
6.7	5.5	5.3
5.6	4.4	4.1
3.2	2.6	2.5
2.0	1.6 9.7	9.0
12.2 8.7	6.9	6.4
8.5	6.8	6.4
7.0	5.4	5.1
4.1	3.3	3.0
2.5 12.9	2.0	9.5
9.2	7.2	6.7
8.9	7.0	6.6
7.1	5.5	5.1
2.6	3.3 2.1	3.1 1.9
14.5	11.7	10.8
10.4	8.3	7.7
10.0	8.2	7.5
8.1	6.4	5.8
3.0	3.9 2.4	3.5 2.1
14.8	11.6	10.7
10.7	8.3	7.6
8.4	6.5	5.9
4.9 13.3	3.9	3.6
9.5	7.4	9.1 6.5
9.0	7.1	6.3
7.4	5.6	4.9
4.4	3.4	3.0
2.7 15.3	2.1 11.8	1.9
10.9	8.4	7.3
10.6	8.1	7.2
8.5	6.5	5.7
5.1	3.9	3.5
3.1 17.1	2.4 13.2	2.1
12.2	9.3	8.1
11.7	9.0	7.9
9.4	7.2	6.3
5.7	4.3	3.9
3.4 14.1	2.6 10.7	2.3 9.4
6.8	5.2	4.5

							Emissi	ions (gram	ı/km)		
Curk	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400 0.278	0.400	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro I Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Conventional	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010	2014 1993	0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t		1994	1995	0.780	0.334	0.475	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III Euro IV	2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2009	0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	ırban	High	way	Suburban	Inte
PM	NO _x	PM	NO _x	PM	NO _x	SUM	S
	ce	nt/gram per poll	utant per vehic	le		country spe	ecific ex
1.261	0.349	1.261	0.349	1.261	0.349	cent/km	cent/k
0.580	1.571	0.580	2.618	0.580	2.618	2.2	3.2
0.553 0.259	1.545 1.076	0.426 0.211	1.519	0.399	1.708 1.241	1.3	1.9
0.259	1.148	0.144	1.104 1.139	0.202	1.241	1.3	1.3
0.161	0.898	0.135	0.838	0.127	0.902	1.1	1.0
0.092	0.545	0.086	0.533	0.085	0.588	0.6	0.6
0.092	0.322 2.937	0.086	0.309 2.689	0.085	0.341 2.832	3.5	0.4 3.1
0.367	1.742	0.420	1.611	0.262	1.672	2.1	1.9
0.201	1.845	0.177	1.675	0.189	1.703	2.0	1.9
0.208	1.462	0.166	1.276	0.157	1.251	1.7	1.4
0.101 0.101	0.888 0.525	0.092	0.796 0.470	0.090	0.808	0.6	0.9
0.606	3.295	0.452	2.901	0.417	2.948	3.9	3.4
0.391	1.969	0.299	1.740	0.281	1.738	2.4	2.0
0.213	2.098	0.186	1.815	0.202	1.772	2.3	2.0
0.213	1.715	0.173	1.406 0.872	0.166	1.342	1.9	1.6
0.102 0.798	1.024 4.196	0.094	3.517	0.091	0.845 3.389	1.1 5.0	1.0 4.1
0.500	2.504	0.368	2.089	0.334	2.014	3.0	2.5
0.249	2.696	0.216	2.211	0.217	2.115	2.9	2.4
0.266	2.204	0.208	1.741	0.194	1.614	2.5	1.9
0.113	1.303 0.782	0.100 0.101	1.053 0.623	0.097 0.097	0.998 0.587	1.4 0.9	1.2 0.7
0.804	4.604	0.589	3.692	0.539	3.455	5.4	4.3
0.629	3.233	0.438	2.599	0.394	2.438	3.9	3.0
0.306	3.440	0.247	2.733	0.267	2.552	3.7	3.0
0.315 0.122	2.769 1.665	0.235 0.105	2.165 1.326	0.216	2.011 1.238	3.1 1.8	2.4 1.4
0.122	0.991	0.105	0.785	0.101	0.732	1.1	0.9
0.849	4.849	0.619	3.893	0.559	3.628	5.7	4.5
0.653	3.412	0.463	2.726	0.414	2.540	4.1	3.2
0.321 0.331	3.589 2.801	0.259 0.247	2.840 2.187	0.280	2.640	3.9	3.1 2.4
0.123	1.717	0.106	1.362	0.101	1.269	1.8	1.5
0.123	1.014	0.106	0.799	0.101	0.744	1.1	0.9
0.931	5.479	0.679	4.491	0.612	4.178	6.4	5.2
0.711 0.361	3.907 4.059	0.510 0.282	3.171 3.313	0.461	2.957 2.989	4.6 4.4	3.7 3.6
0.349	3.215	0.262	2.546	0.239	2.323	3.6	2.8
0.126	1.982	0.109	1.602	0.103	1.457	2.1	1.7
0.127	1.178	0.109	0.942	0.104	0.842	1.3	1.1
0.935 0.736	5.630 3.989	0.682 0.515	4.471 3.161	0.621 0.462	4.098 2.905	6.6 4.7	5.2 3.7
0.354	3.329	0.261	2.613	0.482	2.357	3.7	2.9
0.128	2.043	0.109	1.611	0.104	1.480	2.2	1.7
0.826	5.048	0.606	3.971	0.549	3.474	5.9	4.6
0.641	3.578	0.466	2.794	0.421	2.442	4.2	3.3
0.333	3.649 2.944	0.256 0.238	2.860 2.233	0.295	2.478 1.928	3.3	3.1 2.5
0.120	1.812	0.104	1.383	0.099	1.235	1.9	1.5
0.120	1.074	0.104	0.810	0.100	0.721	1.2	0.9
0.955	5.818	0.687	4.516	0.619	3.912	6.8	5.2
0.755 0.382	4.099 4.278	0.526 0.285	3.180 3.293	0.469	2.759 2.854	4.9 4.7	3.7
0.359	3.407	0.264	2.603	0.239	2.259	3.8	2.9
0.127	2.101	0.108	1.606	0.103	1.433	2.2	1.7
0.128	1.242	0.109	0.943	0.104	0.841	1.4	1.1
1.033 0.818	6.541 4.576	0.748 0.577	5.083 3.548	0.674 0.517	4.389 3.066	7.6 5.4	5.8
0.420	4.751	0.313	3.548	0.362	3.145	5.4	4.1
0.380	3.773	0.280	2.888	0.253	2.508	4.2	3.2
0.130	2.351	0.110	1.794	0.105	1.591	2.5	1.9
0.131	1.383	0.110	1.047	0.105	0.931	1.5	1.2
0.496	5.720 2.851	0.366 0.115	4.357 2.156	0.423	3.721 1.884	6.2 3.0	4.7 2.3
0.137	2.031	0.113	2.130	0.100	1.007		۷.5

Suburban	Interurban	Highway
SUM	SUM	SUM
country sp	ecific external c	osts per km
cent/km	cent/km	cent/km
2.2	3.2	3.2
2.1	1.9	2.1
1.3	1.3	1.4
1.3	1.3	1.4
1.1	1.0	1.0
0.6	0.6	0.7
3.5	3.1	3.2
2.1	1.9	1.9
2.0	1.9	1.9
1.7	1.4	1.4
0.6	0.9	0.9
3.9	3.4	3.4
2.4	2.0	2.0
2.3	2.0	2.0
1.9	1.6	1.5
1.1	1.0	0.9
<u>5.0</u> 3.0	2.5	3.9 2.3
2.9	2.4	2.3
2.5	1.9	1.8
1.4	1.2	1.1
0.9	0.7	0.7
5.4 3.9	3.0	2.8
3.7	3.0	2.8
3.1	2.4	2.2
1.8	1.4	1.3
1.1	0.9	0.8
5.7	4.5 3.2	3.0
4.1 3.9	3.1	2.9
3.1	2.4	2.3
1.8	1.5	1.4
1.1	0.9	0.8
6.4	5.2	4.8
4.6 4.4	3.7	3.4
3.6	2.8	2.6
2.1	1.7	1.6
1.3	1.1	0.9
6.6	5.2	4.7
<u>4.7</u> 3.7	3.7 2.9	2.6
2.2	1.7	1.6
5.9	4.6	4.0
4.2	3.3	2.9
4.0	3.1	2.8
3.3	2.5 1.5	2.1
1.9	0.9	0.8
6.8	5.2	4.5
4.9	3.7	3.2
4.7	3.6	3.2
<u>3.8</u> 2.2	2.9 1.7	2.5 1.5
1.4	1.1	0.9
7.6	5.8	5.1
5.4	4.1	3.6
5.2	4.0	3.5
4.2	3.2	2.8
2.5 1.5	1.9	1.7
6.2	4.7	4.1
3.0	2.3	2.0

							Emissi	ions (gram	ı/km)		
					РМ	PM	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,		JJ KIII/II	OU KIII/II		JJ KIII/II	אלוואוו ככ	,
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0	9999 1993	0.400	0.400 0.278	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5-7.5t	Euro I	1994	1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Conventional	0 1994	1993 1996	0.391	0.273 0.161	0.248	0.060	8.414 4.989	7.702 4.616	8.114 4.790
15	Diesel RT 7.5–12t	Euro II	1997	2001	0.231	0.181	0.090	0.060	5.284	4.799	4.790
15	Diesel RT 7.5-12t	Euro III	2002	2006	0.105	0.071	0.064	0.060	4.188	3.656	3.585
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro IV Euro V	2007 2010	2009	0.020	0.013	0.011	0.060	2.544 1.503	2.280 1.347	2.313 1.330
16	Diesel RT 12-14 t	Conventional	0	1993	0.421	0.298	0.271	0.060	9.438	8.311	8.445
16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III	1997 2002	2001	0.109	0.087	0.100	0.060	6.009 4.913	5.199 4.029	5.076 3.844
16	Diesel RT 12-14 t	Euro IV	2007	2009	0.021	0.014	0.012	0.060	2.935	2.499	2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro II	1994 1997	1996 2001	0.337	0.232 0.111	0.205 0.112	0.060	7.173 7.724	5.985 6.335	5.769 6.058
17	Diesel RT 14-20t	Euro III	2002	2001	0.151	0.111	0.094	0.060	6.315	4.989	4.624
17	Diesel RT 14-20t	Euro IV	2007	2009	0.030	0.020	0.017	0.060	3.734	3.017	2.858
17 18	Diesel RT 14–20t Diesel RT 20–26t	Euro V Conventional	2010	2014 1993	0.030	0.020	0.017	0.060	2.240	1.786 10.579	9.899
18	Diesel RT 20–26t	Euro I	1994	1996	0.439	0.288	0.253	0.060	9.261	7.445	6.985
18	Diesel RT 20-26t	Euro II	1997	2001	0.183	0.136	0.152	0.060	9.856	7.830	7.311
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro III Euro IV	2002	2006	0.190	0.126	0.112	0.060	7.933 4.769	6.202 3.800	5.760 3.546
18	Diesel RT 20–26t	Euro V	2010	2014	0.030	0.023	0.020	0.060	2.840	2.250	2.096
19	Diesel RT 26-28t	Conventional	0	1993	0.613	0.431	0.384	0.060	13.891	11.154	10.394
19 19	Diesel RT 26–28t	Euro I	1994	1996 2001	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t Diesel RT 26-28t	Euro II Euro III	1997 2002	2001	0.195	0.145 0.136	0.162 0.116	0.060	10.281 8.026	8.136 6.265	7.563 5.829
19	Diesel RT 26-28t	Euro IV	2007	2009	0.037	0.024	0.020	0.060	4.920	3.903	3.635
19 20	Diesel RT 26-28t	Euro V	2010	2014 1993	0.038	0.024 0.479	0.020	0.060	2.905 15.696	2.290 12.868	2.133 11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Conventional Euro I	1994	1995	0.504	0.479	0.306	0.060	11.194	9.086	8.470
20	Diesel RT 28-32t	Euro II	1997	2001	0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t Diesel RT 28-32t	Euro III Euro IV	2002	2006	0.217	0.148	0.130	0.060	9.211 5.677	7.293 4.590	6.656 4.173
20	Diesel RT 28-32t	Euro V	2010	2014	0.040	0.026	0.022	0.060	3.374	2.698	2.413
21	Diesel RT >32t	Conventional	0	1993	0.681	0.481	0.432	0.060	16.129	12.809	11.740
21	Diesel RT > 32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	9.538	9.055	8.322
21 21	Diesel RT >32t Diesel RT >32t	Euro III Euro IV	2002	2006	0.221	0.147 0.026	0.129	0.060	5.853	7.485 4.616	6.752 4.240
24	Diesel TT/AT 28-34t	Conventional	0	1993	0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t		1994 1997	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2001	0.204	0.143	0.174	0.060	10.453 8.434	8.195 6.399	7.100 5.523
24	Diesel TT/AT 28-34t	Euro IV	2007	2009	0.035	0.022	0.019	0.060	5.190	3.961	3.537
24 25	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		0 1994	1993 1996	0.697 0.539	0.485 0.357	0.431	0.060	16.667 11.743	12.937 9.110	7.904
25	Diesel TT/AT 34-40t		1997	2001	0.243	0.166	0.202	0.060	12.255	9.433	8.176
25	Diesel TT/AT 34-40t		2002	2006	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2007 2010	2009	0.041	0.026 0.026	0.022	0.060	6.018 3.557	4.600 2.700	4.105 2.410
26	Diesel TT/AT 40-50t	Conventional	0	1993	0.760	0.534	0.475	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t		1994	1996	0.589	0.398	0.350	0.060	13.110	10.164	8.785
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		1997 2002	2001	0.273	0.189	0.227	0.060	13.610	10.454 8.275	9.009 7.184
26	Diesel TT/AT 40-50t	Euro IV	2007	2009	0.043	0.027	0.023	0.060	6.735	5.141	4.558
26	Diesel TT/AT 40-50t		2010	2014	0.044	0.028	0.023	0.060	3.961	3.000	2.667
27 27	Diesel TT/AT 50-60t Diesel TT/AT 50-60t		1997 2007	2001	0.333	0.231	0.275	0.060	16.388 8.166	12.481 6.177	10.660 5.397
	2.0001 11//11 30 000		2007		3.043	3.031	3.020	3.000	3.100	5.177	

Subur	·ban	Interu	ırban	High	nway	Suburban	Interu
PM	NO _x	РМ	NO _x	РМ	NO _x	SUM	SUM
		nt/gram per pol		le	•	country spe	ecific exter
4.749	1.734	4.749	1.734	4.749	1.734	cent/km	cent/km
2.184	7.804	2.184	13.007	2.184	13.007	10.0	15.2
2.084	7.677	1.606	7.545	1.504	8.488	9.8	9.2
0.977	5.348	0.795	5.484	0.759	6.165	6.3	6.3
0.581	5.703 4.462	0.543 0.508	5.657 4.165	0.563 0.480	6.188 4.482	6.3 5.1	6.2 4.7
0.346	2.707	0.325	2.650	0.319	2.923	3.1	3.0
0.346	1.598	0.325	1.537	0.319	1.696	1.9	1.9
2.143	14.593	1.582	13.358	1.461	14.071	16.7	14.9
1.382	8.653	1.049	8.006	0.987	8.307	10.0	9.1
0.758	9.164	0.668	8.322	0.712	8.462	9.9	9.0
0.785 0.379	7.264 4.413	0.624 0.347	6.340 3.954	0.591 0.338	6.218 4.012	8.0 4.8	7.0 4.3
0.380	2.607	0.348	2.337	0.338	2.307	3.0	2.7
2.285	16.369	1.702	14.414	1.572	14.645	18.7	16.1
1.475	9.785	1.127	8.646	1.057	8.636	11.3	9.8
0.802	10.422	0.700	9.017	0.760	8.804	11.2	9.7
0.801	8.520	0.652	6.987	0.626	6.666	9.3	7.6
0.386	5.090	0.353	4.334	0.343	4.199	5.5	4.7
3.007 1.885	20.847 12.440	2.157 1.386	17.475 10.380	1.957 1.260	16.839 10.004	23.9 14.3	19.6 11.8
0.937	13.396	0.814	10.987	0.819	10.506	14.3	11.8
1.002	10.952	0.782	8.652	0.729	8.019	12.0	9.4
0.427	6.475	0.378	5.233	0.364	4.957	6.9	5.6
0.429	3.885	0.379	3.097	0.365	2.915	4.3	3.5
3.031	22.873	2.220	18.346	2.032	17.167	25.9	20.6
2.369	16.060	1.651	12.912	1.485	12.114	18.4	14.6
1.155	17.093 13.757	0.932 0.885	13.579 10.757	1.006 0.815	12.680 9.990	18.2 14.9	14.5 11.6
0.458	8.271	0.396	6.589	0.379	6.150	8.7	7.0
0.461	4.926	0.397	3.902	0.380	3.636	5.4	4.3
3.198	24.091	2.332	19.344	2.107	18.026	27.3	21.7
2.462	16.950	1.743	13.545	1.561	12.621	19.4	15.3
1.209	17.830	0.975	14.110	1.053	13.116	19.0	15.1
1.248 0.462	13.919 8.533	0.930 0.400	10.864 6.769	0.836 0.381	10.108 6.304	<u>15.2</u> 9.0	7.2
0.465	5.038	0.401	3.971	0.382	3.699	5.5	4.4
3.507	27.221	2.560	22.316	2.307	20.759	30.7	24.9
2.679	19.414	1.922	15.757	1.736	14.689	22.1	17.7
1.358	20.166	1.061	16.462	1.209	14.851	21.5	17.5
1.314	15.974	0.986	12.648	0.902	11.544	17.3	13.6
0.476	9.845	0.409	7.960	0.389	7.238	10.3	8.4
0.479 3.521	5.852 27.971	0.411 2.569	4.680 22.214	0.391 2.338	4.184 20.361	6.3 31.5	5.1 24.8
2.771	19.819	1.940	15.704	1.742	14.433	22.6	17.6
1.335	16.541	0.983	12.981	0.896	11.710	17.9	14.0
0.480	10.151	0.410	8.004	0.391	7.354	10.6	8.4
3.113	25.080	2.282	19.730	2.070	17.259	28.2	22.0
2.417	17.779 18.129	1.754	13.884	1.586	12.135	20.2	15.6
1.256 1.178	14.627	0.964 0.898	14.212 11.097	1.113 0.829	12.313 9.578	19.4 15.8	15.2 12.0
0.451	9.000	0.392	6.869	0.375	6.134	9.5	7.3
0.453	5.338	0.393	4.025	0.376	3.580	5.8	4.4
3.596	28.905	2.589	22.436	2.331	19.437	32.5	25.0
2.843	20.365	1.982	15.799	1.766	13.708	23.2	17.8
1.439	21.253	1.073	16.359	1.244	14.180	22.7	17.4
1.353 0.480	16.925 10.437	0.994 0.408	12.934 7.978	0.901 0.389	11.226 7.119	18.3 10.9	13.9 8.4
0.483	6.170	0.410	4.683	0.390	4.180	6.7	5.1
3.892	32.498	2.820	25.253	2.538	21.805	36.4	28.1
3.080	22.736	2.176	17.628	1.946	15.235	25.8	19.8
1.581	23.604	1.180	18.131	1.364	15.625	25.2	19.3
1.433	18.743	1.053	14.351	0.954	12.459	20.2	15.4
0.490	11.681	0.414	8.916 5.202	0.394	7.905	12.2	9.3 5.6
0.493 1.868	6.869 28.420	0.416 1.381	21.646	0.396 1.592	4.625 18.487	7.4 30.3	23.0
0.518	14.163	0.431	10.713	0.409	9.360	14.7	11.1
			20				

Suburban	Interurban	Highway
SUM	SUM	SUM
	ecific external c	
cent/km	cent/km	cent/km
10.0	15.2	15.2
9.8	9.2	6.9
6.3	6.3	6.8
5.1	4.7	5.0
3.1	3.0	3.2
1.9 16.7	1.9 14.9	2.0 15.5
10.7	9.1	9.3
9.9	9.0	9.2
8.0	7.0	6.8
4.8 3.0	4.3 2.7	4.3 2.6
18.7	16.1	16.2
11.3	9.8	9.7
11.2	9.7	9.6
9.3 5.5	7.6 4.7	7.3 4.5
23.9	19.6	18.8
14.3	11.8	11.3
14.3	11.8	11.3
6.9	9.4 5.6	8.7 5.3
4.3	3.5	3.3
25.9	20.6	19.2
18.4	14.6	13.6
18.2 14.9	14.5 11.6	13.7
8.7	7.0	6.5
5.4	4.3	4.0
27.3	21.7	20.1
19.4 19.0	15.3 15.1	14.2 14.2
15.2	11.8	10.9
9.0	7.2	6.7
5.5	4.4	4.1
30.7 22.1	24.9 17.7	23.1 16.4
21.5	17.5	16.1
17.3	13.6	12.4
10.3	8.4	7.6
6.3	5.1	4.6
31.5 22.6	24.8 17.6	22.7 16.2
17.9	14.0	12.6
10.6	8.4	7.7
28.2	22.0 15.6	19.3
20.2 19.4	15.0	13.7 13.4
15.8	12.0	10.4
9.5	7.3	6.5
5.8	4.4	4.0
32.5 23.2	25.0 17.8	21.8 15.5
22.7	17.4	15.4
18.3	13.9	12.1
10.9	8.4 F 1	7.5
6.7 36.4	5.1 28.1	4.6 24.3
25.8	19.8	17.2
25.2	19.3	17.0
20.2	15.4	13.4
7.4	9.3 5.6	8.3 5.0
30.3	23.0	20.1
14.7	11.1	9.8

							Emissi	ions (gram	ı/km)		
Curk	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400 0.278	0.400	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro I Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Conventional	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010	2014 1993	0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t		1994	1995	0.780	0.334	0.475	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III Euro IV	2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2009	0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	ırban	High	vav	S
РМ	NO _x	PM nt/gram per poll	NO _x	PM	NO _x	c
5.261	1.639	5.261	1.639	5.261	1.639	cer
2.420	7.376	2.420	12.294	2.420	12.294	
2.309	7.256	1.779	7.131	1.666	8.023	
1.083 0.643	5.055 5.390	0.881	5.184 5.347	0.841	5.827 5.849	
0.670	4.217	0.563	3.936	0.532	4.237	
0.383	2.559	0.360	2.504	0.353	2.763	
0.384	1.511	0.360	1.453	0.353	1.603	
2.374 1.532	13.793 8.178	1.753 1.162	12.625 7.567	1.619 1.094	13.300 7.852	1
0.840	8.662	0.740	7.866	0.789	7.832	
0.870	6.866	0.692	5.992	0.654	5.877	
0.420	4.171	0.384	3.737	0.374	3.792	
0.421	2.464	0.385	2.209	0.375	2.180	-
2.531 1.634	15.471 9.249	1.886 1.248	13.624 8.172	1.742 1.171	13.842 8.163	1 1
0.888	9.850	0.775	8.522	0.842	8.321	1
0.888	8.052	0.722	6.604	0.694	6.300	
0.428	4.811	0.391	4.097	0.380	3.969	
2.088	19.704 11.758	2.390 1.536	16.517 9.811	2.168 1.396	15.916 9.456	
1.039	12.662	0.901	10.385	0.907	9.930	1
1.110	10.352	0.866	8.178	0.808	7.579	1
0.473	6.120	0.418	4.946	0.403	4.685	
0.475 3.358	3.672 21.620	0.420 2.459	2.928 17.340	0.404 2.251	2.755 16.226	2
2.625	15.180	1.829	12.204	1.645	11.450	1
1.279	16.156	1.033	12.835	1.114	11.985	1
1.313	13.003	0.980	10.167	0.903	9.442	1
0.508 0.511	7.818 4.656	0.438	6.228 3.688	0.420 0.421	5.813 3.436	
3.543	22.770	2.583	18.283	2.335	17.038	2
2.727	16.021	1.931	12.803	1.730	11.930	1
1.339	16.853	1.080	13.336	1.167	12.397	1
1.383 0.512	13.156 8.065	1.030 0.443	10.269 6.398	0.926 0.422	9.554 5.959	1
0.515	4.762	0.444	3.753	0.423	3.496	
3.885	25.729	2.836	21.092	2.555	19.621	2
2.968	18.349	2.129	14.893	1.924	13.884	2
1.505 1.455	19.060 15.099	1.175 1.092	15.560 11.954	1.340 0.999	14.037 10.911	2
0.527	9.305	0.453	7.524	0.431	6.841	
0.531	5.531	0.456	4.423	0.433	3.955	
3.901	26.438	2.846	20.996	2.591	19.245	3
3.071 1.480	18.732 15.634	2.150 1.089	14.843 12.270	1.929 0.993	13.641 11.068	$-\frac{2}{1}$
0.532	9.594	0.454	7.566	0.433	6.950	1
3.449	23.705	2.529	18.648	2.293	16.313	2
2.677	16.804	1.943	13.123	1.757	11.469	1
1.391	17.135 13.825	1.068 0.994	13.433 10.488	1.233 0.918	9.053	1 1
0.499	8.507	0.434	6.493	0.415	5.798	
0.502	5.046	0.436	3.805	0.417	3.384	
3.985	27.320	2.868	21.206	2.583	18.372	3
3.149 1.594	19.248 20.088	2.196 1.189	14.933 15.462	1.957 1.378	12.957 13.402	$\frac{2}{2}$
1.499	15.997	1.101	12.225	0.999	10.611	1
0.532	9.865	0.452	7.541	0.431	6.728	1
0.535	5.831	0.454	4.426	0.432	3.951	
4.312 3.412	30.716 21.490	3.124 2.410	23.868 16.661	2.812	20.610 14.400	3
1.751	22.310	1.308	17.137	1.511	14.768	2
1.588	17.716	1.167	13.564	1.057	11.776	1
0.543	11.040	0.459	8.427	0.437	7.472	1
<u>0.547</u> 2.070	6.493 26.862	0.461 1.530	4.917 20.459	0.438 1.764	4.371 17.473	2
0.573	13.386	0.478	10.126	0.453	8.847	1

Suburban SUM	Interurban SUM	Highway SUM
	ecific external c	
cent/km	cent/km	cent/km
9.8	14.7	14.7
9.6 6.1	8.9 6.1	9.7 6.7
6.0	5.9	6.5
4.9	4.5	4.8
2.9 1.9	2.9 1.8	2.0
16.2	14.4	14.9
9.7	8.7	8.9
9.5 7.7	8.6 6.7	8.8 6.5
4.6	4.1	4.2
2.9	2.6	2.6
18.0	15.5	15.6
10.9 10.7	9.4 9.3	9.3
8.9	7.3	7.0
5.2	4.5	4.3
23.0 13.8	18.9 11.3	18.1 10.9
13.7	11.3	10.8
11.5	9.0	8.4
6.6 4.1	5.4 3.3	5.1 3.2
25.0	19.8	18.5
17.8	14.0	13.1
17.4	13.9	13.1
14.3 8.3	11.1 6.7	6.2
5.2	4.1	3.9
26.3	20.9	19.4
18.7 18.2	14.7 14.4	13.7 13.6
14.5	11.3	10.5
8.6	6.8	6.4
5.3 29.6	4.2 23.9	3.9 22.2
21.3	17.0	15.8
20.6	16.7	15.4
16.6	13.0	11.9
9.8 6.1	8.0 4.9	7.3 4.4
30.3	23.8	21.8
21.8	17.0	15.6
17.1 10.1	13.4 8.0	7.4
27.2	21.2	18.6
19.5	15.1	13.2
18.5 15.1	14.5 11.5	12.9 10.0
9.0	6.9	6.2
5.5	4.2	3.8
31.3 22.4	24.1 17.1	21.0 14.9
21.7	16.7	14.8
17.5	13.3	11.6
10.4	8.0	7.2
6.4 35.0	4.9 27.0	23.4
24.9	19.1	16.6
24.1	18.4	16.3
19.3 11.6	8.9	7.9
7.0	5.4	4.8
28.9	22.0	19.2
14.0	10.6	9.3

							Emissi	ions (gram	ı/km)		
Curk	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400 0.278	0.400 0.257	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Conventional	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010	2014 1993	0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t		1994	1995	0.780	0.334	0.475	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III Euro IV	2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2009	0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subui	rban	Interu	ırban	High	wav	Suburban	Interurban	Highwa
РМ	NO _x	PM nt/gram per poll	NO _x	PM	NO _x	SUM	SUM ecific external c	SUM
2.707	1.105	2.707	1.105	2.707	1.105	cent/km	cent/km	cent/km
1.245	4.973	1.245	8.288	1.245	8.288	6.2	9.5	9.5
1.188	4.892	0.915	4.807	0.857	5.408	6.1	5.7	6.3
0.557	3.408	0.453	3.494	0.433	3.928	4.0	3.9	4.4
0.331 0.345	3.634 2.843	0.310	3.604 2.654	0.321	3.943 2.856	4.0 3.2	3.9 2.9	4.3 3.1
0.197	1.725	0.185	1.688	0.182	1.863	1.9	1.9	2.0
0.197	1.018	0.185	0.979	0.182	1.080	1.2	1.2	1.3
1.222	9.298	0.902	8.511	0.833	8.966	10.5	9.4	9.8
0.788	5.513	0.598 0.381	5.101 5.303	0.563	5.293	6.3	5.7 5.7	5.9 5.8
0.432	5.839 4.628	0.356	4.039	0.406 0.337	5.392 3.962	6.3 5.1	4.4	4.3
0.216	2.812	0.198	2.519	0.192	2.556	3.0	2.7	2.7
0.217	1.661	0.198	1.489	0.193	1.470	1.9	1.7	1.7
1.302	10.430	0.970	9.184	0.896	9.331	11.7	10.2	10.2
0.841 0.457	6.235 6.640	0.642 0.399	5.509 5.745	0.603	5.503 5.609	7.1	6.2	6.1
0.457	5.428	0.371	4.452	0.433	4.247	5.9	4.8	4.6
0.220	3.243	0.201	2.762	0.196	2.676	3.5	3.0	2.9
1.714	13.283	1.229	11.135	1.116	10.729	15.0	12.4	11.8
1.075	7.926	0.790	6.614	0.718	6.374	9.0	7.4	7.1
0.534	8.535	0.464	7.001	0.467	6.694	9.1	7.5	7.2
0.571	6.978 4.126	0.446 0.215	5.513 3.334	0.416 0.207	5.109 3.158	7.5 4.4	6.0 3.5	5.5 3.4
0.244	2.475	0.216	1.974	0.208	1.858	2.7	2.2	2.1
1.728	14.574	1.265	11.689	1.158	10.939	16.3	13.0	12.1
1.350	10.233	0.941	8.227	0.846	7.719	11.6	9.2	8.6
0.658 0.676	10.891	0.531 0.504	8.652 6.854	0.573 0.464	8.079 6.365	11.5 9.4	9.2 7.4	8.7 6.8
0.261	8.766 5.270	0.225	4.199	0.216	3.918	5.5	4.4	4.1
0.263	3.139	0.226	2.486	0.217	2.316	3.4	2.7	2.5
1.823	15.350	1.329	12.325	1.201	11.486	17.2	13.7	12.7
1.403	10.800	0.994	8.631	0.890	8.042	12.2	9.6	8.9
0.689 0.712	11.361 8.869	0.556 0.530	8.990 6.923	0.600 0.476	8.357 6.441	<u>12.1</u> 9.6	9.5 7.5	9.0 6.9
0.263	5.437	0.228	4.313	0.217	4.017	5.7	4.5	4.2
0.265	3.210	0.229	2.530	0.218	2.357	3.5	2.8	2.6
1.999	17.344	1.459	14.219	1.315	13.227	19.3	15.7	14.5
1.527	12.370	1.095	10.040	0.990	9.360	13.9	11.1	10.3
0.774	12.849 10.178	0.605 0.562	10.489 8.059	0.689 0.514	9.463 7.355	13.6 10.9	8.6	7.9
0.271	6.273	0.233	5.072	0.222	4.612	6.5	5.3	4.8
0.273	3.729	0.234	2.982	0.223	2.666	4.0	3.2	2.9
2.007	17.822	1.464	14.154	1.333	12.973	19.8	15.6	14.3
1.580 0.761	12.628 10.539	1.106 0.561	10.006 8.271	0.993 0.511	9.196 7.461	14.2 11.3	8.8	8.0
0.274	6.468	0.233	5.100	0.223	4.685	6.7	5.3	4.9
1.775	15.980	1.301	12.571	1.180	10.997	17.8	13.9	12.2
1.378	11.328	1.000	8.846	0.904	7.732	12.7	9.8	8.6
0.716 0.672	11.551	0.550	9.055	0.634	7.846 6.103	12.3	9.6	8.5
0.872	9.320 5.735	0.512 0.223	7.071 4.377	0.472	3.908	6.0	7.6 4.6	6.6 4.1
0.258	3.401	0.224	2.565	0.214	2.281	3.7	2.8	2.5
2.050	18.417	1.476	14.295	1.329	12.385	20.5	15.8	13.7
1.620	12.976	1.130	10.067	1.007	8.735	14.6	11.2	9.7
0.820	13.542 10.784	0.612 0.567	10.424 8.241	0.709 0.514	9.035 7.153	14.4 11.6	8.8	9.7 7.7
0.274	6.650	0.233	5.083	0.222	4.536	6.9	5.3	4.8
0.275	3.931	0.234	2.984	0.222	2.663	4.2	3.2	2.9
2.219	20.707	1.607	16.090	1.447	13.894	22.9	17.7	15.3
1.756	14.487	1.240	11.232	1.109 0.777	9.707	16.2	12.5	10.8
0.901 0.817	15.040 11.943	0.673 0.600	11.552 9.144	0.777	9.956 7.938	15.9 12.8	9.7	10.7 8.5
0.279	7.442	0.236	5.681	0.225	5.037	7.7	5.9	5.3
0.281	4.377	0.237	3.315	0.226	2.947	4.7	3.6	3.2
1.065	18.109	0.787	13.792	0.908	11.779	19.2	14.6	12.7
0.295	9.024	0.246	6.826	0.233	5.964	9.3	7.1	6.2

								ons (gran			
Sub	Subsector	Tech 2	First	Last	PM (urban)	PM (inter)	PM (highway)	PM (non-	NO_x (urban)	NO _x (inter)	NO _x (highway)
sector			year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	55 km/h	80 km/h
ID	Caralina & 2 Et	Campantianal		0000	0.400	0.400	0.400	0.060		7.500	7.500
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0		0.400	0.400	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5-7.5t	Euro I	1994	1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III	1997 2002	2001	0.062	0.054	0.059	0.060	3.288 2.573	3.262 2.401	3.568 2.585
14	Diesel RT 3.5-7.5t	Euro IV	2002	2009	0.007	0.008	0.007	0.060	1.561	1.528	1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Conventional Euro I	0 1994	1993 1996	0.391	0.273 0.161	0.248	0.060	8.414 4.989	7.702 4.616	8.114 4.790
15	Diesel RT 7.5–12t	Euro II	1997	2001	0.100	0.081	0.090	0.060	5.284	4.799	4.879
15	Diesel RT 7.5-12t	Euro III	2002	2006	0.105	0.071	0.064	0.060	4.188	3.656	3.585
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro IV Euro V	2007 2010	2009 2014	0.020	0.013	0.011	0.060	2.544 1.503	2.280 1.347	2.313 1.330
16	Diesel RT 12–14 t	Conventional	0		0.421	0.298	0.271	0.060	9.438	8.311	8.445
16	Diesel RT 12-14 t	Euro I	1994		0.251	0.177	0.163	0.060	5.642	4.985	4.980
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III	1997 2002	2001	0.109	0.087	0.100	0.060	6.009 4.913	5.199 4.029	5.076 3.844
16	Diesel RT 12-14 t	Euro IV	2007	2009	0.021	0.014	0.012	0.060	2.935	2.499	2.421
17	Diesel RT 14-20t	Conventional	0		0.573	0.394	0.352	0.060	12.021	10.076	9.710
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro II	1994 1997	1996 2001	0.337	0.232	0.205	0.060	7.173 7.724	5.985 6.335	5.769 6.058
17	Diesel RT 14-20t	Euro III	2002	2001	0.151	0.105	0.094	0.060	6.315	4.989	4.624
17	Diesel RT 14-20t	Euro IV	2007	2009	0.030	0.020	0.017	0.060	3.734	3.017	2.858
17 18	Diesel RT 14-20t	Euro V	2010	2014 1993	0.030	0.020	0.017	0.060	2.240	1.786 10.579	1.681 9.899
18	Diesel RT 20-26t Diesel RT 20-26t	Conventional Euro I	1994	1993	0.439	0.407	0.253	0.060	13.189 9.261	7.445	6.985
18	Diesel RT 20-26t	Euro II	1997	2001	0.183	0.136	0.152	0.060	9.856	7.830	7.311
18	Diesel RT 20–26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro IV Euro V	2007 2010	2009 2014	0.036	0.023	0.020	0.060	4.769 2.840	3.800 2.250	3.546 2.096
19	Diesel RT 26-28t	Conventional	0	1993	0.613	0.431	0.384	0.060	13.891	11.154	10.394
19	Diesel RT 26–28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro II Euro III	1997 2002	2001 2006	0.195 0.203	0.145 0.136	0.162 0.116	0.060	10.281 8.026	8.136 6.265	7.563 5.829
19	Diesel RT 26-28t	Euro IV	2007	2009	0.037	0.024	0.020	0.060	4.920	3.903	3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t Diesel RT 28-32t	Conventional Euro I	0 1994		0.678	0.479	0.426	0.060	15.696 11.194	12.868 9.086	11.970 8.470
20	Diesel RT 28-32t	Euro II	1997	2001	0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t Diesel RT 28-32t	Euro IV Euro V	2007 2010	2009	0.040	0.026	0.022	0.060	5.677 3.374	4.590 2.698	4.173 2.413
21	Diesel RT >32t	Conventional	0		0.681	0.481	0.432	0.060	16.129	12.809	11.740
21	Diesel RT >32t	Euro I	1994		0.524	0.349	0.307	0.060	11.428	9.055	8.322
21 21	Diesel RT >32t Diesel RT >32t	Euro III Euro IV	2002		0.221	0.147 0.026	0.129	0.060	9.538 5.853	7.485 4.616	6.752 4.240
24	Diesel TT/AT 28-34t		0		0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t		1994		0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		1997 2002		0.204	0.143	0.174	0.060	10.453 8.434	8.195 6.399	7.100 5.523
24	Diesel TT/AT 28-34t		2002		0.035	0.022	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t		2010		0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		0 1994		0.697 0.539	0.485	0.431	0.060	16.667	12.937	11.208
25	Diesel TT/AT 34-40t		1994	1996 2001	0.243	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t	Euro III	2002	2006	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007		0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010		0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t	Euro I	1994		0.589	0.398	0.350	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t		1997		0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		2002		0.242	0.162	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010		0.044	0.028	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t		1997		0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	ırban	High	way	Suburban	Interurban
РМ	NO _x	PM	NO _x	PM	NO _x	SUM	SUM
	cei	nt/gram per pol	lutant per vehic	le		country spe	ecific external
4.858	1.791	4.858	1.791	4.858	1.791	cent/km	cent/km
2.235	8.058	2.235	13.431	2.235	13.431	10.3	15.7
2.132	7.927	1.643	7.791	1.538	8.764	10.1	9.4
1.000	5.522	0.814	5.663	0.777	6.365	6.5	6.5
0.594	5.889 4.607	0.556 0.520	5.841 4.300	0.576 0.491	6.389 4.628	6.5 5.2	6.4 4.8
0.354	2.795	0.333	2.736	0.326	3.019	3.1	3.1
0.354	1.650	0.333	1.587	0.326	1.751	2.0	1.9
2.192	15.068	1.618	13.793	1.495	14.530	17.3	15.4
1.414	8.935	1.073	8.267	1.010	8.578	10.3	9.3
0.775	9.463	0.683	8.593	0.729	8.737	10.2	9.3
0.803	7.500 4.556	0.639 0.355	6.546 4.083	0.604 0.345	6.420 4.143	8.3 4.9	7.2 4.4
0.389	2.692	0.356	2.413	0.346	2.382	3.1	2.8
2.337	16.902	1.741	14.883	1.608	15.122	19.2	16.6
1.509	10.104	1.153	8.928	1.082	8.917	11.6	10.1
0.820	10.761	0.716	9.310	0.778	9.090	11.6	10.0
0.820	8.797	0.667	7.214	0.641	6.883	9.6	7.9
0.395	5.255	0.361	4.475	0.351	4.336	5.7	4.8
3.076 1.929	21.526 12.845	2.207 1.418	18.044 10.718	2.002 1.289	17.387 10.330	24.6 14.8	20.3 12.1
0.959	13.832	0.832	11.345	0.838	10.848	14.8	12.2
1.025	11.309	0.800	8.934	0.746	8.280	12.3	9.7
0.436	6.686	0.386	5.403	0.372	5.118	7.1	5.8
0.439	4.012	0.387	3.198	0.373	3.010	4.5	3.6
3.101	23.618	2.271	18.943	2.078	17.726	26.7	21.2
2.424 1.181	16.584 17.650	1.689 0.954	13.332 14.021	1.519	12.509 13.093	19.0 18.8	15.0 15.0
1.213	14.205	0.905	11.107	0.834	10.315	15.4	12.0
0.469	8.540	0.405	6.804	0.388	6.350	9.0	7.2
0.471	5.086	0.406	4.029	0.389	3.754	5.6	4.4
3.272	24.875	2.386	19.974	2.156	18.613	28.1	22.4
2.518	17.502	1.783	13.987	1.597	13.033	20.0	15.8
1.237 1.277	18.411 14.372	0.997 0.951	14.569 11.218	1.077 0.855	13.543 10.438	19.6 15.6	15.6 12.2
0.473	8.811	0.409	6.990	0.389	6.510	9.3	7.4
0.475	5.203	0.410	4.100	0.391	3.819	5.7	4.5
3.588	28.107	2.619	23.042	2.360	21.436	31.7	25.7
2.740	20.046	1.966	16.270	1.777	15.168	22.8	18.2
1.390	20.823	1.085	16.998	1.237	15.335	22.2	18.1
1.344 0.487	16.495 10.166	1.009 0.419	13.060 8.219	0.922	11.920 7.473	17.8 10.7	8.6
0.490	6.043	0.419	4.832	0.398	4.321	6.5	5.3
3.602	28.882	2.628	22.937	2.392	21.024	32.5	25.6
2.835	20.464	1.985	16.215	1.782	14.903	23.3	18.2
1.366	17.080	1.006	13.404	0.917	12.091	18.4	14.4
0.492	10.481	0.419	8.265	0.400	7.593	11.0	8.7
3.185 2.472	25.896 18.358	2.335 1.794	20.372 14.336	2.117 1.622	17.821 12.530	29.1 20.8	22.7 16.1
1.285	18.719	0.986	14.675	1.138	12.714	20.0	15.7
1.206	15.103	0.918	11.458	0.848	9.890	16.3	12.4
0.461	9.294	0.401	7.093	0.383	6.334	9.8	7.5
0.464	5.512	0.402	4.157	0.385	3.697	6.0	4.6
3.679	29.846	2.648	23.166	2.385	20.070	33.5	25.8
2.908 1.472	21.028 21.945	2.027 1.098	16.314 16.892	1.807 1.272	14.155 14.641	23.9	18.3 18.0
1.384	17.476	1.098	13.355	0.922	11.592	18.9	14.4
0.491	10.777	0.417	8.238	0.398	7.350	11.3	8.7
0.494	6.370	0.419	4.836	0.399	4.316	6.9	5.3
3.982	33.556	2.885	26.075	2.597	22.515	37.5	29.0
3.151	23.477	2.226	18.202	1.991	15.731	26.6	20.4
1.617	24.372	1.208	18.721	1.395	16.134	26.0	19.9
1.466 0.501	19.354 12.061	1.077 0.424	14.818 9.206	0.976 0.403	12.864 8.163	20.8 12.6	15.9 9.6
0.505	7.093	0.424	5.372	0.405	4.775	7.6	5.8
1.911	29.346	1.413	22.351	1.629	19.089	31.3	23.8
0.529	14.624	0.441	11.062	0.418	9.665	15.2	11.5

Highway SUM costs per km cent/km 15.7 10.3 7.1 5.1 2.1 16.0 9.6 9.5 7.0 4.5 2.7 10.0 9.9 7.5 4.7 19.4 11.6 11.7 9.0 5.5 3.4 19.8 14.0 14.1 11.1

							Emissi	ions (gram	ı/km)		
Curk	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400 0.278	0.400 0.257	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro I Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Conventional	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010	2014 1993	0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t		1994	1995	0.780	0.334	0.475	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III Euro IV	2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2009	0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	rban	Highway			
РМ	NO _x	PM nt/gram per poll	NO_x utant per vehic	PM :le	NO _x		
2.051	0.876	2.051	0.876	2.051	0.876		
0.944	3.942	0.944	6.570	0.944	6.570		
0.900	3.878	0.694	3.811	0.650	4.287		
0.422	2.701	0.344	2.770	0.328	3.114		
0.251	2.881	0.235	2.857 2.104	0.243	3.126 2.264		
0.149	1.367	0.140	1.338	0.138	1.477		
0.150	0.807	0.141	0.776	0.138	0.856		
0.926	7.371	0.683	6.747	0.631	7.108		
0.597	4.371	0.453	4.044	0.426	4.196		
0.327	4.629	0.288	4.204	0.308	4.274		
0.339	3.669	0.270	3.202	0.255	3.141		
0.164	2.229 1.317	0.150 0.150	1.997 1.180	0.146 0.146	2.027 1.165		
0.987	8.268	0.735	7.281	0.679	7.397		
0.637	4.943	0.487	4.367	0.457	4.362		
0.346	5.264	0.302	4.554	0.328	4.447		
0.346	4.303	0.281	3.529	0.270	3.367		
0.167	2.571	0.152	2.189	0.148	2.121		
1.299	10.530	0.932	8.827	0.845	8.506		
0.814	6.284 6.766	0.599 0.351	5.243 5.550	0.544 0.354	5.053		
0.433	5.532	0.338	4.370	0.315	4.051		
0.184	3.271	0.163	2.643	0.157	2.504		
0.185	1.962	0.164	1.565	0.158	1.473		
1.309	11.554	0.959	9.267	0.878	8.671		
1.023	8.112	0.713	6.522	0.641	6.119		
0.499	8.634	0.403	6.859	0.434	6.405		
0.512	6.949 4.178	0.382 0.171	5.433 3.328	0.352 0.164	5.046 3.106		
0.199	2.488	0.171	1.971	0.164	1.836		
1.381	12.169	1.007	9.771	0.910	9.105		
1.063	8.562	0.753	6.842	0.674	6.375		
0.522	9.006	0.421	7.127	0.455	6.625		
0.539	7.031	0.402	5.488	0.361	5.106		
0.200	4.310 2.545	0.173 0.173	3.419 2.006	0.164 0.165	3.184 1.868		
1.515	13.750	1.106	11.272	0.105	10.486		
1.157	9.806	0.830	7.959	0.750	7.420		
0.587	10.186	0.458	8.315	0.522	7.501		
0.567	8.069	0.426	6.389	0.389	5.831		
0.206	4.973	0.177	4.021	0.168	3.656		
0.207	2.956	0.178	2.364	0.169	2.114		
1.521	14.129 10.011	1.109 0.838	7.932	1.010 0.752	7.290		
0.577	8.355	0.425	6.557	0.387	5.915		
0.208	5.127	0.177	4.043	0.169	3.714		
1.345	12.668	0.986	9.966	0.894	8.718		
1.044	8.980	0.758	7.013	0.685	6.129		
0.542	9.157	0.416	7.179	0.481	6.220		
0.509	7.388 4.546	0.388	5.605 3.470	0.358 0.162	4.838 3.098		
0.195	2.696	0.170	2.033	0.162	1.808		
1.553	14.600	1.118	11.333	1.007	9.818		
1.228	10.287	0.856	7.981	0.763	6.924		
0.622	10.735	0.464	8.263	0.537	7.162		
0.584	8.549	0.429	6.533	0.389	5.670		
0.207	5.272	0.176	4.030 2.365	0.168	3.596		
1.681	3.116 16.415	0.177 1.218	12.755	0.169 1.096	2.111		
1.330	11.484	0.940	8.904	0.841	7.695		
0.683	11.923	0.510	9.158	0.589	7.892		
0.619	9.468	0.455	7.249	0.412	6.293		
0.212	5.900	0.179	4.504	0.170	3.993		
0.213	3.470	0.180	2.628	0.171	2.336		
0.807	14.356	0.596	10.934	0.688	9.338		
0.224	7.154	0.186	5.411	0.176	4.728		

Suburban		
SUM COUNTRY SNO	SUM ecific external c	SUM osts ner km
country spe	scinc externar c	osts per kili
cent/km	cent/km	cent/km
4.9	7.5	7.5
4.8	4.5	4.9
3.1	3.1	3.4
2.5	2.3	2.5
1.5	1.5	1.6
1.0 8.3	7.4	7.7
5.0	4.5	4.6
5.0	4.5	4.6
4.0	3.5	3.4
2.4 1.5	1.3	1.3
9.3	8.0	8.1
5.6	4.9	4.8
5.6	4.9	4.8
4.6 2.7	3.8 2.3	2.3
11.8	9.8	9.4
7.1	5.8	5.6
7.2	5.9	5.7
3.5	2.8	2.7
2.1	1.7	1.6
12.9	10.2	9.5
9.1	7.2	6.8
9.1	7.3	6.8 5.4
7.5 4.4	5.8 3.5	3.3
2.7	2.1	2.0
13.5	10.8	10.0
9.6	7.6	7.0
9.5 7.6	7.5 5.9	7.1 5.5
4.5	3.6	3.3
2.7	2.2	2.0
15.3	12.4	11.5
11.0	8.8	8.2 8.0
8.6	6.8	6.2
5.2	4.2	3.8
3.2	2.5	2.3
15.6 11.2	12.3 8.8	11.3 8.0
8.9	7.0	6.3
5.3	4.2	3.9
14.0	11.0	9.6
9.7	7.8 7.6	6.8
7.9	6.0	5.2
4.7	3.6	3.3
2.9	2.2	2.0
16.2 11.5	12.5 8.8	7.7
11.4	8.7	7.7
9.1	7.0	6.1
5.5	4.2	3.8
3.3 18.1	2.5 14.0	2.3 12.1
12.8	9.8	8.5
12.6	9.7	8.5
10.1	7.7	6.7
6.1	4.7	4.2
3.7 15.2	2.8 11.5	2.5 10.0
7.4	5.6	4.9

							Emissi	ions (gram	ı/km)		
Curk	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400 0.278	0.400 0.257	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro I Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Conventional	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010	2014 1993	0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t		1994	1995	0.780	0.334	0.475	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III Euro IV	2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2009	0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Inter	urban	High	way	Sub
РМ	NO _x	РМ	NO _x	РМ	NO _x	S
	cer	nt/gram per pol	llutant per vehicle	e		COL
6.153	1.844	6.153	1.844	6.153	1.844	cent/
2.831	8.297	2.831	13.828	2.831	13.828	11.
2.701	8.162	2.081	8.021	1.949	9.024	10.
1.267 0.752	5.686 6.063	1.031 0.704	5.831 6.014	0.984 0.730	6.554 6.579	<u>7.</u> 6.
0.784	4.743	0.658	4.428	0.622	4.766	5.
0.448	2.878	0.421	2.817	0.413	3.108	3.
0.449 2.777	1.699 15.514	0.422	1.634	0.413	1.803	2.
1.791	9.199	2.050 1.359	14.201 8.512	1.894 1.279	14.960 8.832	<u> 18.</u> 11.
0.982	9.743	0.865	8.848	0.923	8.996	10.
1.017	7.723	0.809	6.740	0.765	6.611	8.
0.491	4.691 2.772	0.449 0.451	4.203 2.484	0.438	4.265 2.452	<u> </u>
2.960	17.402	2.205	15.324	2.037	15.570	20.
1.911	10.403	1.460	9.192	1.370	9.181	12.
1.039	11.080	0.907	9.586	0.985	9.360	12.
1.038 0.500	9.058	0.844 0.457	7.428 4.608	0.811	7.087 4.465	<u>10.</u> 5.
3.896	5.411 22.164	2.795	18.579	0.445 2.536	17.903	5. 26.
2.443	13.226	1.796	11.035	1.633	10.636	15.
1.215	14.242	1.054	11.681	1.061	11.169	15.
1.299	11.644	1.013	9.199	0.945	8.525	12.
0.553 0.555	6.884 4.130	0.489 0.491	5.563 3.293	0.472 0.473	5.270 3.099	<u>7.</u>
3.927	24.318	2.876	19.505	2.632	18.252	28.
3.070	17.075	2.139	13.727	1.924	12.880	20.
1.496	18.173	1.208	14.437	1.303	13.481	19.
1.536 0.594	14.626 8.793	1.146 0.512	7.006	1.056 0.491	10.621 6.538	<u>16.</u> 9.
0.597	5.237	0.514	4.148	0.492	3.865	5.
4.144	25.612	3.021	20.565	2.731	19.164	29.
3.190	18.021	2.259	14.401	2.023	13.419	21.
1.566 1.617	18.957 14.798	1.263 1.205	15.001 11.551	1.365 1.083	13.945 10.747	<u>20.</u> 16.
0.599	9.072	0.518	7.197	0.493	6.702	9.
0.602	5.357	0.520	4.221	0.495	3.932	6.
4.544	28.940	3.317	23.725	2.989	22.071	33.
3.471 1.760	20.640	2.490 1.375	16.752 17.502	2.250 1.567	15.617 15.789	24. 23.
1.702	16.983	1.277	13.447	1.168	12.273	18.
0.617	10.467	0.530	8.463	0.504	7.695	11.
0.621	6.222	0.533	4.975	0.506	4.449	6.
4.562 3.591	29.738 21.070	3.328 2.514	23.617 16.695	3.030 2.257	21.647 15.344	<u>34.</u> 24.
1.730	17.586	1.274	13.801	1.161	12.449	19.
0.623	10.792	0.531	8.510	0.506	7.818	11.
4.034	26.664	2.957	20.976	2.682	18.349	30.
3.131 1.627	18.902 19.274	2.272 1.249	14.761 15.109	2.055 1.442	12.901	22.
1.527	15.551	1.163	11.798	1.074	13.091 10.183	20. 17.
0.584	9.569	0.508	7.303	0.485	6.521	10.
0.587	5.675	0.509	4.280	0.487	3.806	6.
<u>4.660</u> 3.683	30.730	3.354	23.853	3.021	20.665	35.
1.865	21.651 22.596	2.568 1.391	16.797 17.393	2.288 1.611	14.574 15.075	<u>25.</u> 24.
1.753	17.994	1.288	13.751	1.168	11.935	19.
0.622	11.097	0.529	8.482	0.504	7.568	11.
0.626	6.559	0.531	4.979	0.505	4.444	7.
5.043 3.991	34.550 24.172	3.654 2.819	26.847 18.741	3.289 2.521	23.182 16.197	39. 28.
2.048	25.094	1.529	19.276	1.767	16.612	27.
1.857	19.927	1.364	15.257	1.236	13.245	21.
0.635	12.418	0.537	9.479	0.511	8.404	13.
0.639 2.421	7.303 30.215	0.539 1.789	5.531 23.013	0.513 2.063	4.917 19.654	<u>7.</u> 32.
0.671	15.057	0.559	11.390	0.529	9.951	15.
			-			

Suburban	Interurban	Highway
SUM	SUM	SUM
	ecific external o	
cent/km	cent/km	cent/km
11.1	16.7	16.7
10.9	10.1	11.0
7.0	6.9	7.5 7.3
6.8 5.5	6.7 5.1	5.4
3.3	3.2	3.5
2.1	2.1	2.2
18.3	16.3	16.9
11.0 10.7	9.9 9.7	9.9
8.7	7.5	7.4
5.2	4.7	4.7
3.3	2.9	2.9
20.4	17.5	17.6
12.3 12.1	10.7 10.5	10.6
10.1	8.3	7.9
5.9	5.1	4.9
26.1	21.4	20.4
15.7	12.8	12.3
15.5 12.9	12.7 10.2	9.5
7.4	6.1	5.7
4.7	3.8	3.6
28.2	22.4	20.9
20.1	15.9	14.8
19.7 16.2	15.6 12.6	14.8 11.7
9.4	7.5	7.0
5.8	4.7	4.4
29.8	23.6	21.9
21.2	16.7	15.4
20.5 16.4	16.3 12.8	15.3
9.7	7.7	7.2
6.0	4.7	4.4
33.5	27.0	25.1
24.1	19.2	17.9
23.2	18.9	17.4
18.7 11.1	9.0	13.4 8.2
6.8	5.5	5.0
34.3	26.9	24.7
24.7	19.2	17.6
19.3 11.4	15.1	13.6
30.7	9.0	8.3 21.0
22.0	17.0	15.0
20.9	16.4	14.5
17.1	13.0	11.3
10.2	7.8	7.0
6.3 35.4	4.8 27.2	4.3 23.7
25.3	19.4	16.9
24.5	18.8	16.7
19.7	15.0	13.1
11.7	9.0	8.1
7.2	5.5	4.9
39.6 28.2	30.5 21.6	26.5 18.7
27.1	20.8	18.4
21.8	16.6	14.5
13.1	10.0	8.9
7.9	6.1	5.4
32.6 15.7	24.8 11.9	21.7 10.5
15./	11.7	10.5

					PM	PM	Emissi PM	ons (gram PM	n/km) NO _x	NO _x	NO _x
Sub	Subsector	Tech 2	First	Last	(urban)	(inter)	(highway)	(non-	(urban)	(inter)	(highway)
sector			year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	55 km/h	80 km/h
ID 13	Gasoline >3.5t	Conventional	0	9999	0.400	0.400	0.400	0.060	4.500	7,500	7.500
14	Diesel RT 3.5-7.5t	Conventional	0	1993	0.379	0.278	0.257	0.060	4.427	4.351	4.894
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro II	1994 1997		0.146	0.107 0.054	0.100	0.060	3.084	3.162 3.262	3.555 3.568
14	Diesel RT 3.5-7.5t	Euro III	2002		0.067	0.034	0.039	0.060	2.573	2.401	2.585
14	Diesel RT 3.5-7.5t	Euro IV	2007		0.013	0.008	0.007	0.060	1.561	1.528	1.686
14 15	Diesel RT 3.5-7.5t Diesel RT 7.5-12t	Euro V Conventional	2010		0.013	0.009	0.007	0.060	0.922 8.414	0.886 7.702	0.978 8.114
15	Diesel RT 7.5-12t	Euro I	1994	-	0.231	0.161	0.148	0.060	4.989	4.616	4.790
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro III	1997 2002		0.100	0.081 0.071	0.090	0.060	5.284 4.188	4.799 3.656	4.879 3.585
15	Diesel RT 7.5–12t	Euro IV	2002		0.020	0.071	0.004	0.060	2.544	2.280	2.313
15	Diesel RT 7.5-12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	0 1994		0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1994		0.109	0.177	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002		0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007 0		0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994		0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997		0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002 2007		0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	4.624 2.858
17	Diesel RT 14-20t	Euro V	2010		0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20-26t	Conventional	0		0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro II	1994 1997		0.439	0.288 0.136	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20–26t	Euro III	2002		0.190	0.136	0.132	0.060	7.933	6.202	5.760
18	Diesel RT 20-26t	Euro IV	2007		0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010		0.037	0.024 0.431	0.020	0.060	2.840 13.891	2.250 11.154	2.096 10.394
19	Diesel RT 26–28t	Euro I	1994		0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997		0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002 2007		0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26–28t	Euro V	2010		0.037	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0		0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997		0.504	0.345 0.163	0.306	0.060	11.194 11.628	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002		0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007		0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010		0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413
21	Diesel RT >32t	Euro I	1994		0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002		0.221	0.147	0.129	0.060	9.538	7.485	6.752
21 24	Diesel RT >32t Diesel TT/AT 28-34t	Euro IV	2007		0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t	Euro I	1994		0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997		0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t	Euro III Euro IV	2002 2007		0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010		0.035	0.022	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0		0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997		0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t	Euro III	2002		0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t	Euro IV	2007		0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010		0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t	Euro I	1994		0.589	0.398	0.350	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro IV	2002 2007		0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40–50t		2010		0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997		0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	⊏uro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	rban	Highway			
РМ	NO _x	PM nt/gram per polli	NO _x	РМ	NO _x		
1.793	0.662	1.793	0.662	1.793	0.662		
0.825	2.980	0.825	4.967	0.825	4.967		
0.787	2.932	0.606	2.881	0.568	3.241		
0.369	2.042	0.300	2.094	0.287	2.354		
0.219	2.178	0.205	2.160	0.213	2.363		
0.228	1.704	0.192	1.590	0.181	1.712		
0.131 0.131	1.034	0.123	1.012 0.587	0.120	1.116		
0.809	0.610 5.572	0.123 0.597	5.101	0.120 0.552	0.648 5.373		
0.522	3.304	0.396	3.057	0.373	3.172		
0.286	3.500	0.252	3.178	0.269	3.231		
0.296	2.774	0.236	2.421	0.223	2.374		
0.143	1.685	0.131	1.510	0.127	1.532		
0.144	0.996	0.131	0.892	0.128	0.881		
0.863	6.251	0.643	5.504	0.594	5.592		
0.557	3.737	0.425	3.302	0.399	3.298		
0.303 0.303	3.980 3.253	0.264	3.443 2.668	0.287	3.362 2.545		
0.303	1.944	0.133	1.655	0.130	1.604		
1.135	7.961	0.814	6.673	0.739	6.430		
0.712	4.750	0.523	3.964	0.476	3.820		
0.354	5.115	0.307	4.196	0.309	4.012		
0.378	4.182	0.295	3.304	0.275	3.062		
0.161	2.473	0.143	1.998	0.137	1.893		
0.162	1.484	0.143	1.183	0.138	1.113		
1.144	8.735	0.838	7.006	0.767	6.556		
0.894 0.436	6.133 6.527	0.623 0.352	4.931 5.185	0.561 0.380	4.626 4.842		
0.438	5.253	0.334	4.108	0.308	3.815		
0.173	3.158	0.149	2.516	0.143	2.348		
0.174	1.881	0.150	1.490	0.144	1.388		
1.207	9.199	0.880	7.387	0.796	6.883		
0.929	6.473	0.658	5.173	0.590	4.820		
0.456	6.809	0.368	5.388	0.398	5.009		
0.471	5.315	0.351	4.149	0.316	3.860		
0.174	3.259	0.151	2.585	0.144	2.407		
0.175	1.924	0.151	1.516	0.144	1.412		
1.324 1.011	10.395 7.413	0.967 0.726	8.522 6.017	0.871 0.656	7.927 5.609		
0.513	7.701	0.401	6.286	0.457	5.671		
0.496	6.100	0.372	4.830	0.340	4.408		
0.180	3.760	0.155	3.040	0.147	2.764		
0.181	2.235	0.155	1.787	0.148	1.598		
1.330	10.681	0.970	8.483	0.883	7.775		
1.046	7.568	0.733	5.997	0.658	5.511		
0.504	6.316	0.371	4.957	0.338	4.472		
0.181	3.876	0.155	3.057	0.147	2.808		
1.176	9.577	0.862	7.534 5.302	0.781 0.599	6.590		
0.912 0.474	6.789 6.923	0.662 0.364	5.302	0.599	4.634		
0.445	5.585	0.339	4.237	0.420	3.657		
0.170	3.437	0.148	2.623	0.141	2.342		
0.171	2.039	0.148	1.537	0.142	1.367		
1.358	11.038	0.978	8.567	0.880	7.422		
1.073	7.777	0.748	6.033	0.667	5.235		
0.543	8.116	0.405	6.247	0.470	5.415		
0.511	6.463	0.375	4.939	0.340	4.287		
0.181	3.986	0.154	3.047	0.147	2.718		
0.182 1.470	2.356 12.410	0.155 1.065	1.788 9.643	0.147 0.959	1.596 8.327		
1.163	8.682	0.821	6.731	0.735	5.818		
0.597	9.013	0.821	6.924	0.515	5.967		
0.541	7.157	0.398	5.480	0.360	4.758		
0.185	4.460	0.156	3.405	0.149	3.019		
0.186	2.623	0.157	1.987	0.149	1.766		
0.705 0.195	10.853	0.521	8.266	0.601	7.059		
	5.408	0.163	4.091	0.154	3.574		

Suburban	Interurban	Highway
SUM	SUM	SUM
country sp	ecific external co	osts per km
cent/km	cent/km	cent/km
2.0	F 0	F 0
3.8	5.8 3.5	5.8 3.8
2.4	2.4	2.6
2.4	2.4	2.6
1.9	1.8	1.9
1.2	1.1	1.2
0.7 6.4	0.7 5.7	0.8 5.9
3.8	3.5	3.5
3.8	3.4	3.5
3.1	2.7	2.6
1.8	1.6	1.7
1.1	6.1	6.2
7.1 4.3	3.7	3.7
4.3	3.7	3.6
3.6	2.9	2.8
2.1	1.8	1.7
9.1	7.5	7.2
5.5 5.5	4.5 4.5	4.3
4.6	3.6	3.3
2.6	2.1	2.0
1.6	1.3	1.3
9.9	7.8	7.3
7.0	5.6 5.5	5.2 5.2
5.7	4.4	4.1
3.3	2.7	2.5
2.1	1.6	1.5
10.4	8.3	7.7
7.4	5.8 5.8	5.4 5.4
7.3 5.8	4.5	4.2
3.4	2.7	2.6
2.1	1.7	1.6
11.7	9.5	8.8
8.4 8.2	6.7	6.3
6.6	6.7 5.2	4.7
3.9	3.2	2.9
2.4	1.9	1.7
12.0	9.5	8.7
8.6	6.7 5.3	4.8
<u>6.8</u> 4.1	3.2	3.0
10.8	8.4	7.4
7.7	6.0	5.2
7.4	5.8	5.1
6.0	4.6	4.0
3.6 2.2	2.8 1.7	2.5 1.5
12.4	9.5	8.3
8.8	6.8	5.9
8.7	6.7	5.9
7.0	5.3	4.6
<u>4.2</u> 2.5	3.2 1.9	2.9 1.7
13.9	10.7	9.3
9.8	7.6	6.6
9.6	7.4	6.5
7.7	5.9	5.1
<u>4.6</u> 2.8	3.6 2.1	3.2 1.9
11.6	8.8	7.7
5.6	4.3	3.7

								ions (gram			
Sub	Subsector	Tech 2	First	Last	PM (urban)	PM (inter)	PM (highway)	PM (non-	NO_x (urban)	NO _x (inter)	NO _x (highway)
sector			year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	55 km/h	80 km/h
ID 13	Gasoline >3.5t	Conventional	0	9999	0.400	0.400	0.400	0.060	4.500	7.500	7.500
14	Diesel RT 3.5–7.5t	Conventional	0		0.400	0.400	0.400	0.060	4.427	4.351	4.894
14	Diesel RT 3.5-7.5t	Euro I	1994		0.146	0.107	0.100	0.060	3.084	3.162	3.555
14 14	Diesel RT 3.5–7.5t Diesel RT 3.5–7.5t	Euro III	1997 2002		0.062	0.054 0.047	0.059	0.060	3.288 2.573	3.262 2.401	3.568 2.585
14	Diesel RT 3.5-7.5t	Euro IV	2002		0.007	0.008	0.007	0.060	1.561	1.528	1.686
14	Diesel RT 3.5-7.5t	Euro V	2010		0.013	0.009	0.007	0.060	0.922	0.886	0.978
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Conventional Euro I	0 1994		0.391	0.273 0.161	0.248	0.060	8.414 4.989	7.702 4.616	8.114 4.790
15	Diesel RT 7.5–12t	Euro II	1997		0.100	0.101	0.090	0.060	5.284	4.799	4.879
15	Diesel RT 7.5-12t	Euro III	2002		0.105	0.071	0.064	0.060	4.188	3.656	3.585
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro IV Euro V	2007 2010	2009 2014	0.020	0.013	0.011	0.060	2.544 1.503	2.280 1.347	2.313 1.330
16	Diesel RT 12–14 t	Conventional	2010		0.020	0.013	0.011	0.060	9.438	8.311	8.445
16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
16	Diesel RT 12–14 t	Euro II	1997		0.109	0.087	0.100	0.060	6.009	5.199	5.076
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III Euro IV	2002		0.109	0.077 0.014	0.072	0.060	4.913 2.935	4.029 2.499	3.844 2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17	Diesel RT 14-20t	Euro I	1994		0.337	0.232	0.205	0.060	7.173	5.985	5.769
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro II Euro III	1997 2002	2001	0.137 0.151	0.111	0.112	0.060	7.724 6.315	6.335 4.989	6.058 4.624
17	Diesel RT 14-20t	Euro IV	2007		0.030	0.020	0.017	0.060	3.734	3.017	2.858
17	Diesel RT 14-20t	Euro V	2010		0.030	0.020	0.017	0.060	2.240	1.786	1.681
18 18	Diesel RT 20-26t Diesel RT 20-26t	Conventional Euro I	0 1994		0.578 0.439	0.407 0.288	0.368 0.253	0.060	13.189 9.261	10.579 7.445	9.899 6.985
18	Diesel RT 20–26t	Euro II	1997		0.183	0.136	0.152	0.060	9.856	7.830	7.311
18	Diesel RT 20-26t	Euro III	2002		0.190	0.126	0.112	0.060	7.933	6.202	5.760
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro IV Euro V	2007 2010		0.036	0.023 0.024	0.020	0.060	4.769 2.840	3.800 2.250	3.546 2.096
19	Diesel RT 26–28t	Conventional	2010		0.613	0.024	0.020	0.060	13.891	11.154	10.394
19	Diesel RT 26-28t	Euro I	1994		0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002 2007		0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010		0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	1004		0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997		0.504	0.345 0.163	0.306	0.060	11.194 11.628	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002		0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007		0.040	0.026	0.022	0.060	5.677	4.590	4.173
20 21	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010 0		0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994		0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002		0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Euro IV	2007		0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t	Euro I	1994		0.390	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t	Euro II	1997		0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t	Euro III	2002		0.188	0.129	0.114	0.060	8.434	6.399	5.523
24 24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t	Euro IV Euro V	2007 2010		0.035	0.022	0.019	0.060	5.190 3.078	3.961 2.321	3.537 2.064
25	· · · · · · · · · · · · · · · · · · ·	Conventional	0		0.697	0.485	0.431	0.060	16.667	12.937	11.208
25	<u>'</u>	Euro I	1994		0.539	0.357	0.312	0.060	11.743	9.110	7.904
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t	Euro III	1997 2002		0.243	0.166 0.149	0.202	0.060	12.255 9.759	9.433 7.458	8.176 6.473
25	Diesel TT/AT 34-40t		2007		0.041	0.026	0.022	0.060	6.018	4.600	4.105
25	Diesel TT/AT 34-40t		2010		0.042	0.026	0.022	0.060	3.557	2.700	2.410
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Conventional Euro I	0 1994		0.760 0.589	0.534 0.398	0.475	0.060	18.739 13.110	14.561 10.164	12.573 8.785
26	Diesel TT/AT 40-50t		1994		0.273	0.398	0.330	0.060	13.610	10.164	9.009
26	Diesel TT/AT 40-50t	Euro III	2002	2006	0.242	0.162	0.141	0.060	10.808	8.275	7.184
26		Euro IV	2007		0.043	0.027	0.023	0.060	6.735	5.141	4.558
26 27	Diesel TT/AT 40-50t Diesel TT/AT 50-60t	Euro V Euro II	2010 1997		0.044	0.028 0.231	0.023	0.060	3.961 16.388	3.000 12.481	2.667 10.660
27	Diesel TT/AT 50-60t	Euro IV	2007		0.049	0.031	0.026	0.060	8.166	6.177	5.397
						•					

Suburl	ban	Interu	rban	High	way	Subu
РМ	NO _x	РМ	NO _x	РМ	NO _x	SU
	cei	nt/gram per poll	utant per vehic	le		count
0.708	0.265	0.708	0.265	0.708	0.265	cent/kn
0.326	1.190	0.326	1.984	0.326	1.984	1.5
0.311	1.171	0.240	1.151	0.224	1.295	1.5
0.146 0.087	0.816 0.870	0.119	0.837 0.863	0.113	0.940 0.944	1.0
0.090	0.681	0.076	0.635	0.072	0.684	0.8
0.052	0.413	0.048	0.404	0.048	0.446	0.5
0.052	0.244	0.049	0.234	0.048	0.259	0.3
0.320	2.226 1.320	0.236 0.156	2.037 1.221	0.218 0.147	2.146 1.267	2.5 1.5
0.113	1.398	0.100	1.269	0.106	1.291	1.5
0.117	1.108	0.093	0.967	0.088	0.948	1.2
0.056	0.673	0.052	0.603	0.050	0.612	0.7
0.057	0.398	0.052	0.356	0.050	0.352	0.5
0.341	2.497 1.493	0.254 0.168	2.199 1.319	0.235 0.158	2.234 1.317	2.8
0.120	1.590	0.104	1.375	0.113	1.343	1.7
0.120	1.300	0.097	1.066	0.093	1.017	1.4
0.058	0.776	0.053	0.661	0.051	0.641	0.8
0.449	3.180	0.322	2.666	0.292	2.568	3.6
0.281	1.898 2.043	0.207 0.121	1.583 1.676	0.188 0.122	1.526 1.602	2.2
0.150	1.671	0.117	1.320	0.109	1.223	1.8
0.064	0.988	0.056	0.798	0.054	0.756	1.1
0.064	0.593	0.056	0.472	0.054	0.445	0.7
0.452	3.489	0.331	2.798	0.303	2.619 1.848	3.9
0.353	2.450 2.607	0.246 0.139	1.969 2.071	0.222 0.150	1.934	2.8
0.177	2.098	0.132	1.641	0.122	1.524	2.3
0.068	1.262	0.059	1.005	0.057	0.938	1.3
0.069	0.751	0.059	0.595	0.057	0.555	0.8
0.477	3.675 2.585	0.348	2.951 2.066	0.314	2.750 1.925	<u>4.2</u> 3.0
0.180	2.720	0.145	2.152	0.255	2.001	2.9
0.186	2.123	0.139	1.657	0.125	1.542	2.3
0.069	1.302	0.060	1.033	0.057	0.962	1.4
0.069	0.769	0.060	0.606	0.057	0.564	0.8
0.523	4.152 2.961	0.382	3.404 2.403	0.344	3.166 2.241	<u>4.7</u> 3.4
0.203	3.076	0.158	2.511	0.180	2.265	3.3
0.196	2.437	0.147	1.929	0.135	1.761	2.6
0.071	1.502	0.061	1.214	0.058	1.104	1.6
0.071	0.893	0.061	0.714	0.058	0.638	1.0
0.525	4.266 3.023	0.383	3.388 2.395	0.349	3.106 2.201	4.8 3.4
0.199	2.523	0.147	1.980	0.134	1.786	2.7
0.072	1.548	0.061	1.221	0.058	1.122	1.6
0.464	3.825	0.340	3.009	0.309	2.632	4.3
0.361 0.187	2.712 2.765	0.262 0.144	2.118 2.168	0.237 0.166	1.851 1.878	3.1
0.176	2.231	0.134	1.693	0.124	1.461	2.4
0.067	1.373	0.058	1.048	0.056	0.936	1.4
0.068	0.814	0.059	0.614	0.056	0.546	0.9
0.537 0.424	4.409 3.106	0.386	3.422	0.348	2.965	4.9
0.424	3.106	0.296 0.160	2.410 2.495	0.263 0.186	2.091	3.5
0.202	2.582	0.148	1.973	0.134	1.712	2.8
0.072	1.592	0.061	1.217	0.058	1.086	1.7
0.072	0.941	0.061	0.714	0.058	0.638	1.0
0.581 0.459	4.957 3.468	0.421	3.852 2.689	0.379	3.326 2.324	5.5 3.9
0.236	3.600	0.176	2.766	0.203	2.383	3.8
0.214	2.859	0.157	2.189	0.142	1.900	3.1
0.073	1.782	0.062	1.360	0.059	1.206	1.9
0.074	1.048	0.062	0.793	0.059	0.705	1.1
0.279	4.335 2.160	0.206 0.064	3.302 1.634	0.238	2.820 1.428	<u>4.6</u> 2.2
0.077	2.100	0.007	1.037	0.001	1.720	

Suburban SUM	Interurban SUM	Highway SUM
country sp	ecific external co	osts per km
cent/km	cent/km	cent/km
1.5	2.3	2.3
1.5	1.4	1.5
1.0	0.9	1.0
0.8	0.7	0.8
0.5	0.5	0.5
2.5	2.3	2.4
1.5	1.4	1.4
1.5	1.4	1.4
0.7	0.7	0.7
0.5	0.4	0.4
2.8	2.5	2.5
1.7 1.7	1.5 1.5	1.5 1.5
1.4	1.2	1.1
0.8	0.7	0.7
3.6	3.0	2.9
2.2	1.8	1.7 1.7
1.8	1.4	1.3
1.1	0.9	0.8
0.7	0.5	0.5
3.9 2.8	3.1 2.2	2.9 2.1
2.8	2.2	2.1
2.3	1.8	1.6
1.3	1.1	1.0
0.8 4.2	3.3	0.6 3.1
3.0	2.3	2.2
2.9	2.3	2.2
2.3	1.8	1.7
0.8	0.7	0.6
4.7	3.8	3.5
3.4	2.7	2.5
3.3	2.7	2.4
2.6 1.6	1.3	1.9
1.0	0.8	0.7
4.8	3.8	3.5
3.4 2.7	2.7	2.5 1.9
1.6	1.3	1.9
4.3	3.3	2.9
3.1	2.4	2.1
3.0 2.4	2.3 1.8	2.0 1.6
1.4	1.1	1.0
0.9	0.7	0.6
4.9	3.8	3.3
3.5	2.7	2.4
2.8	2.1	1.8
1.7	1.3	1.1
1.0	0.8	0.7
5.5 3.9	3.0	3.7 2.6
3.8	2.9	2.6
3.1	2.3	2.0
1.9	1.4	1.3
1.1 4.6	0.9 3.5	0.8 3.1
2.2	1.7	1.5

							Emissi	ions (gram	ı/km)		
Curk	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400 0.278	0.400 0.257	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006 2009	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Conventional	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010	2014 1993	0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t		1994	1995	0.780	0.334	0.475	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III Euro IV	2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2009	0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	han	Interu	whom	Highway				
PM	NO _x	PM		PM	NO _x	Suburban SUM	Interurban SUM	Highv SUN
PN		nt/gram per poll	NO_x lutant per vehic		NO _X		ecific external c	
8.614	1.564	8.614	1.564	8.614	1.564	cent/km	cent/km	cent/kn
3.962	7.040	3.962	11.733	3.962	11.733	11.0	15.7	15.7
3.781	6.925	2.913	6.806	2.728	7.657	10.7	9.7	10.4
1.773	4.824	1.443	4.947	1.377	5.561	6.6	6.4	6.9
1.053	5.144 4.025	0.985 0.921	5.103 3.757	1.022 0.870	5.582 4.043	5.1	6.1 4.7	6.6 4.9
0.627	2.442	0.590	2.390	0.578	2.637	3.1	3.0	3.2
0.628	1.442	0.590	1.386	0.578	1.530	2.1	2.0	2.1
3.887	13.163	2.870	12.049	2.651	12.693	17.1	14.9	15.3
2.508	7.805	1.903	7.222	1.791	7.493	10.3	9.1	9.3
1.374 1.424	8.267 6.552	1.212	7.507 5.719	1.292 1.071	7.633 5.609	9.6 8.0	8.7 6.9	8.9 6.7
0.687	3.980	0.629	3.567	0.612	3.619	4.7	4.2	4.2
0.690	2.352	0.631	2.108	0.614	2.081	3.0	2.7	2.7
4.144	14.765	3.087	13.002	2.851	13.211	18.9	16.1	16.1
2.675	8.827	2.044	7.799	1.918	7.790	11.5	9.8	9.7
1.454	9.401	1.269	8.134	1.379	7.941	10.9	9.4	9.3
1.454 0.700	7.685 4.591	1.182 0.640	6.302 3.910	1.136 0.623	6.013 3.788	9.1 5.3	7.5 4.5	7.1
5.454	18.805	3.912	15.764	3.550	15.190	24.3	19.7	18.7
3.419	11.222	2.515	9.363	2.286	9.025	14.6	11.9	11.3
1.700	12.084	1.476	9.911	1.486	9.477	13.8	11.4	11.0
1.818	9.880	1.418	7.805	1.322	7.234	11.7	9.2	8.6
0.774	5.841	0.685	4.720	0.660	4.471	6.6	5.4	5.1
0.778 5.497	3.504 20.633	0.687 4.027	2.794 16.549	0.662 3.685	2.630 15.486	4.3 26.1	3.5 20.6	3.3 19.2
4.297	14.487	2.994	11.647	2.693	10.928	18.8	14.6	13.6
2.094	15.419	1.691	12.249	1.824	11.438	17.5	13.9	13.3
2.150	12.410	1.605	9.703	1.478	9.011	14.6	11.3	10.5
0.831	7.461	0.717	5.944	0.687	5.547	8.3	6.7	6.2
0.836	4.444	0.720	3.520	0.689	3.279	5.3	4.2	4.0
5.801 4.465	21.731 15.290	4.230 3.162	17.449 12.219	3.823 2.832	16.260 11.385	27.5 19.8	21.7 15.4	20.1 14.2
2.193	16.084	1.768	12.728	1.910	11.832	18.3	14.5	13.7
2.264	12.555	1.686	9.800	1.516	9.118	14.8	11.5	10.6
0.838	7.697	0.725	6.106	0.691	5.687	8.5	6.8	6.4
0.843	4.545	0.727	3.582	0.693	3.336	5.4	4.3	4.0
6.361 4.859	24.555	4.643	20.130	4.184	18.726 13.251	30.9	24.8	22.9
2.464	17.512 18.191	3.486 1.924	14.214 14.850	3.150 2.194	13.396	22.4	17.7 16.8	16.4 15.6
2.383	14.410	1.788	11.409	1.635	10.413	16.8	13.2	12.0
0.863	8.881	0.742	7.180	0.706	6.529	9.7	7.9	7.2
0.869	5.279	0.746	4.222	0.709	3.775	6.1	5.0	4.5
6.387	25.231	4.659	20.038	4.242	18.367	31.6	24.7	22.6
5.027 2.422	17.878 14.921	3.520 1.784	14.166 11.710	3.159 1.625	13.019 10.563	22.9 17.3	17.7 13.5	16.2 12.2
0.871	9.156	0.743	7.221	0.709	6.633	10.0	8.0	7.3
5.647	22.623	4.140	17.798	3.754	15.568	28.3	21.9	19.3
4.383	16.038	3.181	12.524	2.876	10.946	20.4	15.7	13.8
2.278	16.353	1.749	12.820	2.018	11.107	18.6	14.6	13.1
2.138 0.817	13.194 8.119	1.628 0.711	10.010 6.196	1.503 0.680	8.640 5.533	15.3 8.9	11.6 6.9	10.1
0.822	4.815	0.711	3.631	0.682	3.229	5.6	4.3	3.9
6.524	26.074	4.696	20.238	4.229	17.534	32.6	24.9	21.8
5.156	18.370	3.595	14.252	3.203	12.366	23.5	17.8	15.6
2.610	19.172	1.947	14.757	2.256	12.791	21.8	16.7	15.0
2.454	15.267	1.803	11.667	1.635	10.127	17.7	13.5	11.8
0.871 0.876	9.415 5.565	0.740 0.743	7.197 4.224	0.705 0.708	6.421 3.770	10.3 6.4	7.9 5.0	7.1 4.5
7.060	29.315	5.115	22.779	4.604	19.670	36.4	27.9	24.3
5.587	20.509	3.946	15.901	3.530	13.743	26.1	19.8	17.3
2.868	21.292	2.141	16.355	2.473	14.094	24.2	18.5	16.6
2.600	16.908	1.910	12.945	1.730	11.238	19.5	14.9	13.0
0.889	10.537	0.751	8.043	0.715	7.131	11.4	8.8	7.8
0.895 3.389	6.196 25.637	0.755 2.504	4.693 19.526	0.718 2.888	4.172 16.676	7.1 29.0	5.4 22.0	4.9 19.6
0.939	12.775	0.783	9.664	0.741	8.443	13.7	10.4	9.2
	12.773		2.001	J., .1	5.715			

							Emiss	ions (gram	n/km)		
Sub	Subsector	Tech 2	First	Last	PM (urban)	PM (inter)	PM (highway)	PM (non-	NO _x (urban)	NO _x	NO _x (highway)
sector	Subsector	recii z	year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	(inter) 55 km/h	80 km/h
ID						,					,
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0	9999 1993	0.400	0.400	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5-7.5t	Euro I	1994	1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Conventional Euro I	0 1994	1993 1996	0.391	0.273 0.161	0.248 0.148	0.060	8.414 4.989	7.702 4.616	8.114 4.790
15	Diesel RT 7.5–12t	Euro II	1997	2001	0.231	0.181	0.090	0.060	5.284	4.799	4.790
15	Diesel RT 7.5-12t	Euro III	2002	2006	0.105	0.071	0.064	0.060	4.188	3.656	3.585
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro IV Euro V	2007 2010	2009	0.020	0.013	0.011	0.060	2.544 1.503	2.280 1.347	2.313 1.330
16	Diesel RT 12-14 t	Conventional	0	1993	0.421	0.298	0.271	0.060	9.438	8.311	8.445
16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III	1997 2002	2001	0.109	0.087	0.100	0.060	6.009 4.913	5.199 4.029	5.076 3.844
16	Diesel RT 12-14 t	Euro IV	2007	2009	0.021	0.014	0.012	0.060	2.935	2.499	2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro II	1994 1997	1996 2001	0.337 0.137	0.232	0.205 0.112	0.060	7.173 7.724	5.985 6.335	5.769 6.058
17	Diesel RT 14-20t	Euro III	2002	2006	0.151	0.105	0.094	0.060	6.315	4.989	4.624
17	Diesel RT 14-20t	Euro IV	2007	2009	0.030	0.020	0.017	0.060	3.734	3.017	2.858
17 18	Diesel RT 14-20t Diesel RT 20-26t	Euro V Conventional	2010 0	2014 1993	0.030	0.020	0.017	0.060	2.240	1.786 10.579	1.681 9.899
18	Diesel RT 20–26t	Euro I	1994	1996	0.439	0.288	0.253	0.060	9.261	7.445	6.985
18	Diesel RT 20-26t	Euro II	1997	2001	0.183	0.136	0.152	0.060	9.856	7.830	7.311
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro III Euro IV	2002	2006	0.190	0.126	0.112	0.060	7.933 4.769	6.202 3.800	5.760 3.546
18	Diesel RT 20–26t	Euro V	2010	2014	0.030	0.023	0.020	0.060	2.840	2.250	2.096
19	Diesel RT 26-28t	Conventional	0	1993	0.613	0.431	0.384	0.060	13.891	11.154	10.394
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro II	1994 1997	1996 2001	0.458	0.307 0.145	0.269	0.060	9.774	7.811 8.136	7.278
19	Diesel RT 26–28t	Euro III	2002	2001	0.203	0.145	0.102	0.060	8.026	6.265	5.829
19	Diesel RT 26-28t	Euro IV	2007	2009	0.037	0.024	0.020	0.060	4.920	3.903	3.635
19 20	Diesel RT 26-28t Diesel RT 28-32t	Euro V Conventional	2010	2014 1993	0.038 0.678	0.024	0.020 0.426	0.060	2.905 15.696	2.290 12.868	2.133 11.970
20	Diesel RT 28-32t	Euro I	1994	1996	0.504	0.345	0.306	0.060	11.194	9.086	8.470
20	Diesel RT 28-32t	Euro II	1997	2001	0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t Diesel RT 28-32t	Euro III Euro IV	2002	2006	0.217	0.148	0.130	0.060	9.211 5.677	7.293 4.590	6.656 4.173
20	Diesel RT 28-32t	Euro V	2010	2014	0.041	0.027	0.022	0.060	3.374	2.698	2.413
21	Diesel RT >32t	Conventional	0	1993	0.681	0.481	0.432	0.060	16.129	12.809	11.740
21 21	Diesel RT >32t Diesel RT >32t	Euro III	1994 2002	1996 2006	0.524	0.349 0.147	0.307 0.129	0.060	9.538	9.055 7.485	8.322 6.752
21	Diesel RT >32t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	5.853	4.616	4.240
24	Diesel TT/AT 28-34t	Conventional	0	1993	0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t	Euro II	1994 1997	1996 2001	0.449	0.309	0.274	0.060	10.252	8.006 8.195	6.997 7.100
24	Diesel TT/AT 28-34t		2002	2001	0.188	0.143	0.114	0.060	8.434	6.399	5.523
24	Diesel TT/AT 28-34t	Euro IV	2007	2009	0.035	0.022	0.019	0.060	5.190	3.961	3.537
24 25	Diesel TT/AT 28-34t Diesel TT/AT 34-40t		2010	2014 1993	0.035	0.023	0.019	0.060	3.078 16.667	2.321 12.937	2.064 11.208
25	Diesel TT/AT 34-40t		1994	1996	0.539	0.357	0.312	0.060	11.743	9.110	7.904
25	Diesel TT/AT 34-40t		1997	2001	0.243	0.166	0.202	0.060	12.255	9.433	8.176
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2002	2006	0.225	0.149 0.026	0.130	0.060	9.759 6.018	7.458 4.600	6.473 4.105
25	Diesel TT/AT 34–40t		2010	2009	0.041	0.026	0.022	0.060	3.557	2.700	2.410
26	Diesel TT/AT 40-50t	Conventional	0	1993	0.760	0.534	0.475	0.060	18.739	14.561	12.573
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		1994 1997	1996 2001	0.589	0.398 0.189	0.350 0.227	0.060	13.110	10.164 10.454	8.785 9.009
26	Diesel TT/AT 40-50t		2002	2001	0.242	0.169	0.227	0.060	10.808	8.275	7.184
26	Diesel TT/AT 40-50t	Euro IV	2007	2009	0.043	0.027	0.023	0.060	6.735	5.141	4.558
26 27	Diesel TT/AT 40-50t Diesel TT/AT 50-60t		2010 1997	2014	0.044	0.028	0.023	0.060	3.961 16.388	3.000 12.481	2.667 10.660
27	Diesel TT/AT 50-60t		2007	2001	0.049	0.231	0.275	0.060	8.166	6.177	5.397
-	, 22 200									·	

Subur	ban	Interu	rban	High	wav	Suburb
РМ	NO _x	PM nt/gram per poll	NO _x	PM	NO _x	SUM country
1.375	0.544	1.375	0.544	1.375	0.544	cent/km
0.633	2.449	0.633	4.081	0.633	4.081	3.1
0.604	2.409	0.465	2.368	0.436	2.663	3.0
0.283	1.678	0.230	1.721	0.220	1.934	2.0
0.168	1.789 1.400	0.157 0.147	1.775 1.307	0.163	1.942 1.407	2.0 1.6
0.100	0.849	0.094	0.831	0.092	0.917	0.9
0.100	0.501	0.094	0.482	0.092	0.532	0.6
0.621	4.579	0.458	4.192	0.423	4.415	5.2
0.400	2.715	0.304	2.512	0.286	2.607	3.1
0.219	2.876 2.279	0.193 0.181	2.611 1.989	0.206 0.171	2.655 1.951	<u>3.1</u> 2.5
0.110	1.385	0.100	1.241	0.098	1.259	1.5
0.110	0.818	0.101	0.733	0.098	0.724	0.9
0.662	5.136	0.493	4.523	0.455	4.595	5.8
0.427	3.071	0.326	2.713	0.306	2.710	3.5
0.232	3.270 2.673	0.203	2.829 2.192	0.220 0.181	2.763	3.5 2.9
0.112	1.597	0.102	1.360	0.099	1.318	1.7
0.871	6.542	0.625	5.484	0.567	5.284	7.4
0.546	3.904	0.402	3.257	0.365	3.139	4.4
0.271	4.204	0.236	3.448	0.237	3.297	4.5
0.290	3.437	0.226	2.715	0.211	2.516	3.7
0.124	2.032 1.219	0.109 0.110	1.642 0.972	0.105 0.106	1.555 0.915	<u>2.2</u> 1.3
0.124	7.178	0.643	5.757	0.588	5.387	8.1
0.686	5.040	0.478	4.052	0.430	3.801	5.7
0.334	5.364	0.270	4.261	0.291	3.979	5.7
0.343	4.317	0.256	3.375	0.236	3.135	4.7
0.133	2.595	0.115	2.068	0.110	1.930	2.7
0.133	1.546 7.560	0.115 0.675	1.224 6.070	0.110	1.141 5.656	1.7 8.5
0.713	5.319	0.505	4.250	0.452	3.961	6.0
0.350	5.595	0.282	4.428	0.305	4.116	5.9
0.362	4.368	0.269	3.409	0.242	3.172	4.7
0.134	2.678	0.116	2.124	0.110	1.978	2.8
0.135	1.581	0.116	1.246	0.111	1.161	1.7
1.016 0.776	8.542 6.092	0.741 0.557	7.002 4.945	0.668	6.514 4.609	9.6
0.393	6.328	0.307	5.166	0.350	4.660	6.7
0.380	5.013	0.286	3.969	0.261	3.622	5.4
0.138	3.089	0.119	2.498	0.113	2.271	3.2
0.139	1.836	0.119	1.469	0.113	1.313	2.0
1.020 0.803	8.777 6.219	0.744	6.971 4.928	0.677 0.504	6.389 4.529	9.8 7.0
0.387	5.190	0.285	4.073	0.259	3.674	5.6
0.139	3.185	0.119	2.512	0.113	2.307	3.3
0.902	7.870	0.661	6.191	0.599	5.416	8.8
0.700	5.579	0.508	4.357	0.459	3.808	6.3
0.364	5.689 4.590	0.279	4.460 3.482	0.322	3.864	6.1 4.9
0.131	2.824	0.200	2.155	0.109	1.925	3.0
0.131	1.675	0.114	1.263	0.109	1.123	1.8
1.042	9.070	0.750	7.040	0.675	6.099	10.1
0.823	6.390	0.574	4.958	0.512	4.302	7.2
0.417	6.669	0.311	5.133 4.059	0.360	<u>4.449</u> 3.523	<u>7.1</u> 5.7
0.139	5.311 3.275	0.288	2.503	0.261	2.234	3.4
0.140	1.936	0.119	1.470	0.113	1.312	2.1
1.127	10.198	0.817	7.924	0.735	6.842	11.3
0.892	7.134	0.630	5.531	0.564	4.781	8.0
0.458	7.407	0.342	5.689	0.395	4.903	7.9
0.415	5.882 3.665	0.305 0.120	4.503 2.798	0.276 0.114	3.909 2.481	3.8
0.142	2.155	0.121	1.632	0.114	1.451	2.3
0.541	8.918	0.400	6.792	0.461	5.801	9.5
0.150	4.444	0.125	3.362	0.118	2.937	4.6

	Interurban	
SUM COUNTRY SN	SUM ecific external co	SUM nets ner km
country sp	ecinc external co	osts per kili
cent/km	cent/km	cent/km
3.1	4.7	4.7
3.0	2.8	3.1
2.0	2.0	2.2
1.6	1.9	1.5
0.9	0.9	1.0
0.6	0.6	0.6
5.2	4.6 2.8	4.8 2.9
3.1	2.8	2.9
2.5	2.2	2.1
1.5	1.3	1.4
0.9 5.8	0.8 5.0	0.8 5.1
3.5	3.0	3.0
3.5	3.0	3.0
2.9 1.7	2.4 1.5	2.3 1.4
7.4	6.1	5.9
4.4	3.7	3.5
4.5	3.7	3.5
3.7 2.2	2.9 1.8	2.7 1.7
1.3	1.1	1.0
8.1	6.4	6.0
5.7	4.5	4.2
5.7 4.7	4.5 3.6	4.3 3.4
2.7	2.2	2.0
1.7	1.3	1.3
8.5	6.7	6.3 4.4
6.0 5.9	4.8 4.7	4.4
4.7	3.7	3.4
2.8	2.2	2.1
9.6	7.7	7.2
6.9	5.5	5.1
6.7	5.5	5.0
5.4	4.3	3.9
2.0	2.6 1.6	1.4
9.8	7.7	7.1
7.0	5.5	5.0
5.6	4.4	3.9
3.3 8.8	2.6 6.9	6.0
6.3	4.9	4.3
6.1	4.7	4.2
4.9	3.7	3.2
3.0 1.8	2.3 1.4	1.2
10.1	7.8	6.8
7.2	5.5	4.8
7.1 5.7	5.4 4.3	4.8 3.8
3.4	2.6	2.3
2.1	1.6	1.4
11.3	8.7	7.6
7.9	6.2	5.3 5.3
6.3	4.8	4.2
3.8	2.9	2.6
2.3	1.8	1.6
9.5 4.6	7.2 3.5	6.3 3.1
4.0	ມ.ວ	٦.١

Second S												
Subsector												
Second S	Sub	Subsector	Tech 2	First	Last							NO _x (highway)
13									•			80 km/h
14 Diesel RT 3.5-7.55 Conventional 0 1993 0.379 0.278 0.257 0.060 4.427 4.351 3.141 14 Diesel RT 3.5-7.55 Euro I 1997 2001 0.062 0.054 0.059 0.060 3.888 3.262 3.141 14 Diesel RT 3.5-7.55 Euro III 2097 2000 0.067 0.047 0.041 0.060 2.573 3.262 3.141 14 Diesel RT 3.5-7.55 Euro III 2002 2006 0.067 0.047 0.041 0.060 2.573 3.262 3.141 14 Diesel RT 3.5-7.55 Euro IV 2007 2009 0.013 0.008 0.007 0.060 0.525 1.528 1.528 1.141 14 Diesel RT 3.5-7.55 Euro V 2010 2014 0.013 0.009 0.007 0.060 0.522 0.068 0.001 1.511 1.528 1.142		Caralina & 2 Et	Campantianal		0000	0.400	0.400	0.400	0.060		7.500	7.500
14 Diesel RT 3.5-7.5t Euro I 1994 1996 0.146 0.107 0.100 0.060 3.084 3.162 3.1 14 Diesel RT 3.5-7.5t Euro II 2002 2006 0.067 0.044 0.060 2.573 2.401 2.1 14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.031 0.008 0.007 0.060 1.516 1.528 1.1 14 Diesel RT 3.5-7.5t Euro IV 2010 2014 0.013 0.009 0.007 0.060 0.922 0.886 0.515 0.5												7.500 4.894
Diesel RT 3.5-7.5K Euro IV 2007 2009 0.067 0.047 0.041 0.060 2.573 2.401 2.1	14	Diesel RT 3.5-7.5t			1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.013 0.008 0.007 0.060 1.561 1.528 1.14 Diesel RT 7.5-121 Euro IV 2010 2014 0.013 0.009 0.007 0.060 0.926 0.866 0.05 Diesel RT 7.5-122 Euro II 1994 1996 0.231 0.161 0.148 0.060 4.948 4.161 4.15 Diesel RT 7.5-121 Euro II 1997 2001 0.100 0.081 0.090 0.060 5.284 4.799 4.15 Diesel RT 7.5-121 Euro III 2002 2006 0.105 0.017 0.064 0.060 4.184 3.056 3.15 Diesel RT 7.5-121 Euro III 2002 2006 0.105 0.017 0.064 0.060 4.184 3.056 3.15 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 2.280 2.3 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 2.280 2.3 Diesel RT 7.5-121 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.564 3.954 3.11 6.164 3.056 3.15 3.15 3.056 3.15 3.15 3.15 3.056 3.15												3.568
15 Diesel RT 13-57-51 Euro V 2010 2014 0.013 0.099 0.007 0.060 0.922 0.886 0.51												2.585 1.686
Diesel RT 7.5-12t Euro I		Diesel RT 3.5-7.5t	Euro V			0.013		0.007	0.060	0.922	0.886	0.978
												8.114 4.790
Diesel RT J-5-12t Euro V 2007 2009 0.020 0.013 0.011 0.060 2.544 2.280 2.25												4.879
15 Diesel RT 12-14 Conventional 0.193 0.421 0.020 0.013 0.011 0.060 1.503 1.347 1.346 1.506 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506												3.585
16 Diesel RT 12-14 t Euro II 1994 1996 0.251 0.177 0.163 0.066 9.438 8.311 8.16 Diesel RT 12-14 t Euro II 1997 2001 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro III 2002 2006 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro III 2002 2006 0.109 0.087 0.010 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro IV 2007 2009 0.021 0.014 0.012 0.060 2.935 2.499 2.2 17 Diesel RT 14-20t Euro II 1994 1996 0.337 0.322 0.060 0.060 2.735 2.499 2.2 17 Diesel RT 14-20t Euro II 1997 2001 0.137 0.032 0.060 7.173 5.985 5.19 17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 6.335 6.17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 6.335 6.17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.050 0.020 0.017 0.060 6.315 4.301 7.724 6.335 6.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 6.315 4.301 7.724 6.335 6.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.10 4.												2.313 1.330
16												8.445
16	16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
Diesel RT 12-14 t												5.076
To Diesel RT 14-20t Euro I 1994 1996 0.337 0.232 0.352 0.060 12.021 10.076 9.3												3.844 2.421
Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 5.4				0	1993		0.394	0.352		12.021		9.710
Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 4.989 4.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.5 1.7 Diesel RT 14-20t Euro V 2010 2014 0.030 0.020 0.017 0.060 3.734 3.017 2.5 1.5												5.769
Diesel RT 14-20t												6.058 4.624
Diesel RT 20-26t												2.858
												1.681
No. Diesel RT 20-26t Euro III 1997 2001 0.183 0.136 0.152 0.060 9.856 7.830 7.3												9.899 6.985
Name												7.311
Diesel RT 20-26t												5.760
Diesel RT 26-28t												3.546 2.096
Diesel RT 26-28t Euro III 1997 2001 0.195 0.145 0.162 0.060 10.281 8.136 7.5												10.394
Diesel RT 26-28t Euro III 2002 2006 0.203 0.136 0.116 0.060 8.026 6.265 5.619 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.61												7.278
Diesel RT 26-28t												7.563 5.829
Diesel RT 28-32t												3.635
Diesel RT 28-32t	19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
Diesel RT 28-32t Euro III 1997 2001 0.226 0.163 0.195 0.060 11.628 9.492 8.5												11.970
Diesel RT 28-32t												8.470 8.563
Diesel RT 28-32t Euro V 2010 2014 0.041 0.027 0.022 0.060 3.374 2.698 2.4												6.656
Diesel RT > 32t Conventional O 1993 O.681 O.481 O.432 O.060 16.129 12.809 11.7												4.173
21 Diesel RT > 32t Euro I 1994 1996 0.524 0.349 0.307 0.060 11.428 9.055 8.3 21 Diesel RT > 32t Euro IV 2002 2006 0.221 0.147 0.129 0.060 9.538 7.485 6.7 21 Diesel RT > 32t Euro IV 2007 2009 0.041 0.026 0.022 0.060 5.853 4.616 4.2 24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.6 24 Diesel TT/AT 28-34t Euro II 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.1 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 <td></td> <td>2.413 11.740</td>												2.413 11.740
Diesel RT > 32t												8.322
24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.5 24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.3 24 Diesel TT/AT 28-34t Euro IV 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.6 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 <												6.752
24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.9 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.1 24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.240 9.952</td></td<>												4.240 9.952
24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro IV 2007 2006 0.225 0.149 0.130												6.997
24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 <												7.100
24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.523 3.537</td></td<>												5.523 3.537
25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.064</td></t<>												2.064
25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 <		· · · · · · · · · · · · · · · · · · ·										11.208
25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.6		· · · · · · · · · · · · · · · · · · ·										7.904 8.176
25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.6												6.473
26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0	25	Diesel TT/AT 34-40t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0		· · · · · · · · · · · · · · · · · · ·										2.410 12.573
26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0		· · · · · · · · · · · · · · · · · · ·										8.785
26 Diesel TT/AT 40-50t Furo III 2002 2006 0 242 0 162 0 141 0 060 10 808 8 275 7	26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
	26			2002		0.242	0.162	0.141	0.060	10.808	8.275	7.184
												4.558 2.667
27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.6	27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27 Diesel TT/AT 50-60t Euro IV 2007 2009 0.049 0.031 0.026 0.060 8.166 6.177 5.3	27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Suburb	oan	Interu	rban	High	way
PM	NO _x	РМ	NO _x	РМ	NO _x
		nt/gram per poll		le	
4.655	1.322	4.655	1.322	4.655	1.322
2.141	5.948	2.141	9.913	2.141	9.913
2.043 0.958	5.851 4.076	1.574 0.780	5.750 4.180	1.474 0.744	6.469 4.698
0.569	4.076	0.532	4.311	0.552	4.716
0.593	3.400	0.498	3.174	0.470	3.416
0.339	2.063	0.319	2.019	0.312	2.228
0.339	1.218	0.319	1.171	0.312	1.292
2.100	11.122	1.551	10.180	1.432	10.724
1.355	6.595	1.028	6.102	0.968	6.331
0.743	6.984	0.655	6.343	0.698	6.449
0.769	5.536	0.612	4.832	0.579	4.739
0.371	3.363	0.340	3.013	0.331	3.058
2.239	1.987 12.475	0.341 1.668	1.781 10.985	0.332 1.541	1.758
1.446	7.458	1.104	6.589	1.036	6.582
0.786	7.943	0.686	6.872	0.745	6.710
0.785	6.493	0.639	5.325	0.614	5.080
0.378	3.879	0.346	3.303	0.336	3.201
2.947	15.888	2.114	13.318	1.918	12.834
1.848	9.481	1.359	7.911	1.235	7.625
0.919	10.210	0.797	8.374	0.803	8.007
0.982	8.347	0.766	6.594	0.715	6.112
0.418	4.935	0.370	3.988	0.357	3.778
0.420	2.961	0.371	2.361	0.358	2.222
2.971	17.433 12.240	2.176 1.618	13.982 9.841	1.991 1.455	9.233
1.132	13.027	0.914	10.349	0.986	9.664
1.162	10.485	0.867	8.198	0.799	7.614
0.449	6.304	0.388	5.022	0.371	4.687
0.452	3.754	0.389	2.974	0.373	2.771
3.134	18.360	2.286	14.743	2.066	13.738
2.413	12.918	1.708	10.323	1.530	9.619
1.185	13.589	0.956	10.754	1.032	9.996
1.223	10.608	0.911	8.280	0.819	7.704
0.453	6.503	0.392	5.159	0.373	4.805
0.456 3.437	3.840 20.746	0.393 2.509	3.026 17.008	0.374 2.261	2.819 15.821
2.626	14.796	1.884	12.009	1.702	11.195
1.331	15.369	1.040	12.546	1.185	11.318
1.288	12.175	0.966	9.639	0.884	8.798
0.467	7.503	0.401	6.067	0.381	5.516
0.470	4.460	0.403	3.567	0.383	3.189
3.451	21.318	2.518	16.930	2.292	15.518
2.717	15.104	1.902	11.968	1.707	11.000
1.309	12.607	0.964	9.893	0.878	8.925
0.471	7.736	0.401	6.101	0.383	5.604
3.051 2.369	19.114 13.550	2.237 1.719	15.037 10.581	2.029 1.554	13.153 9.248
1.231	13.550	0.945	10.581	1.091	9.248
1.155	11.148	0.880	8.457	0.812	7.299
0.442	6.860	0.384	5.235	0.367	4.675
0.444	4.068	0.385	3.068	0.368	2.728
3.525	22.029	2.537	17.099	2.285	14.814
2.786	15.521	1.942	12.041	1.731	10.448
1.411	16.198	1.052	12.468	1.219	10.807
1.326	12.899	0.974	9.858	0.883	8.556
0.470	7.955	0.400	6.080	0.381	5.425
0.474	4.702	0.402	3.569	0.382	3.186
3.815 3.019	24.768 17.328	2.764 2.132	19.246 13.435	2.488 1.907	16.618 11.611
1.550	17.328	1.157	13.435	1.337	11.908
1.405	14.285	1.032	10.937	0.935	9.495
0.480	8.902	0.406	6.795	0.386	6.025
0.484	5.235	0.408	3.965	0.388	3.525
1.831	21.660	1.353	16.497	1.561	14.089
0.507	10.794	0.423	8.165	0.400	7.134

Suburban	Interurban	Highway		
SUM	SUM	SUM		
country sp	ecific external co	osts per km		
cent/km	cent/km	cent/km		
0.1	12.1	12.1		
7.9	7.3	7.9		
5.0	5.0	5.4		
4.9	4.8	5.3		
4.0	3.7	3.9		
2.4	2.3	2.5		
1.6	1.5 11.7	1.6		
7.9	7.1	7.3		
7.7	7.0	7.1		
6.3	5.4	5.3		
3.7	3.4	3.4		
2.4	2.1	2.1		
14.7 8.9	12.7 7.7	7.6		
8.7	7.6	7.5		
7.3	6.0	5.7		
4.3	3.6	3.5		
18.8	15.4	14.8		
11.3	9.3	8.9		
11.1	9.2	8.8		
9.3 5.4	7.4 4.4	6.8 4.1		
3.4	2.7	2.6		
20.4	16.2	15.1		
14.6	11.5	10.7		
14.2	11.3	10.6		
11.6	9.1	8.4		
6.8	5.4	5.1		
4.2 21.5	3.4 17.0	3.1 15.8		
15.3	12.0	11.1		
14.8	11.7	11.0		
11.8	9.2	8.5		
7.0	5.6	5.2		
4.3	3.4	3.2		
24.2	19.5	18.1 12.9		
17.4 16.7	13.9 13.6	12.5		
13.5	10.6	9.7		
8.0	6.5	5.9		
4.9	4.0	3.6		
24.8	19.4	17.8		
17.8	13.9	12.7		
13.9	10.9	9.8		
22.2	6.5 17.3	6.0 15.2		
15.9	12.3	10.8		
15.0	11.8	10.5		
12.3	9.3	8.1		
7.3	5.6	5.0		
4.5	3.5	3.1		
25.6	19.6	17.1		
18.3 17.6	14.0 13.5	12.2 12.0		
14.2	10.8	9.4		
8.4	6.5	5.8		
5.2	4.0	3.6		
28.6	22.0	19.1		
20.3	15.6	13.5		
19.5 15.7	15.0 12.0	13.2		
9.4	7.2	6.4		
5.7	4.4	3.9		
23.5	17.9	15.7		
11.3	8.6	7.5		

				Emissions (gram/km)							
Cook	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400	0.400 0.257	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.008	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5-12t Diesel RT 12-14 t	Euro V Conventional	2010	2014 1993	0.020	0.013	0.011	0.060	1.503 9.438	1.347 8.311	1.330 8.445
16	Diesel RT 12-14 t	Euro I	1994	1995	0.421	0.298	0.163	0.060	5.642	4.985	4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III Euro IV	2002	2006	0.109	0.077 0.014	0.072	0.060	4.913 2.935	4.029 2.499	3.844 2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III	1997 2002	2001	0.137	0.111	0.112	0.060	7.724 6.315	6.335 4.989	6.058 4.624
17	Diesel RT 14-20t	Euro III Euro IV	2002	2009	0.030	0.020	0.094	0.060	3.734	3.017	2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	0 1994	1993 1996	0.578	0.407	0.368	0.060	13.189	10.579 7.445	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994	2001	0.439	0.288 0.136	0.253 0.152	0.060	9.261 9.856	7.445	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro IV Euro V	2007 2010	2009	0.036	0.023 0.024	0.020	0.060	4.769 2.840	3.800 2.250	3.546 2.096
19	Diesel RT 26-28t	Conventional	2010	1993	0.613	0.024	0.020	0.060	13.891	11.154	10.394
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2009	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t Diesel RT 28-32t	Conventional Euro I	0 1994	1993 1996	0.678	0.479 0.345	0.426	0.060	15.696 11.194	12.868 9.086	11.970 8.470
20	Diesel RT 28-32t	Euro II	1994	2001	0.304	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t Diesel RT 28-32t	Euro IV	2007 2010	2009	0.040	0.026 0.027	0.022	0.060	5.677 3.374	4.590 2.698	4.173 2.413
21	Diesel RT >32t	Euro V Conventional	2010		0.681	0.481	0.432	0.060	16.129	12.809	11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21 21	Diesel RT >32t Diesel RT >32t	Euro III Euro IV	2002	2006	0.221	0.147 0.026	0.129	0.060	9.538 5.853	7.485 4.616	6.752 4.240
24	Diesel TT/AT 28–34t		0	1993	0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t	Euro I	1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		1997 2002	2001	0.204	0.143 0.129	0.174	0.060	10.453 8.434	8.195 6.399	7.100 5.523
24	Diesel TT/AT 28-34t		2002	2009	0.188	0.129	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t	Euro V	2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		0 1994	1993 1996	0.697 0.539	0.485 0.357	0.431	0.060	16.667 11.743	12.937 9.110	7.904
25	Diesel TT/AT 34-40t		1997	2001	0.243	0.166	0.202	0.060	12.255	9.433	8.176
25	Diesel TT/AT 34-40t	Euro III	2002	2006	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2007 2010	2009	0.041	0.026 0.026	0.022	0.060	6.018 3.557	4.600 2.700	4.105 2.410
26	Diesel TT/AT 40–50t		2010	1993	0.760	0.534	0.022	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t	Euro I	1994	1996	0.589	0.398	0.350	0.060	13.110	10.164	8.785
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		1997 2002	2001	0.273	0.189 0.162	0.227	0.060	13.610	10.454 8.275	9.009 7.184
26	Diesel TT/AT 40-50t	Euro III	2002	2006 2009	0.242	0.162	0.141	0.060	6.735	5.141	4.558
26	Diesel TT/AT 40-50t	Euro V	2010	2014	0.044	0.028	0.023	0.060	3.961	3.000	2.667
27 27	Diesel TT/AT 50-60t Diesel TT/AT 50-60t		1997 2007	2001	0.333	0.231 0.031	0.275	0.060	16.388 8.166	12.481 6.177	10.660 5.397
21	Diesei II/AI 30-60t	LUIU IV	2007	2009	0.049	0.031	0.026	0.000	0.100	0.1//	3.39/

Subur	ban	Interu	rban	High	nway	Suburban	Interurban	Highway
PM	NO _x	PM nt/gram per poll	NO_x utant per vehicl	PM e	NO _x	SUM	SUM ecific external co	SUM
3.708	0.448	3.708	0.448	3.708	0.448	cent/km	cent/km	cent/km
1.706	2.017	1.706	3.361	1.706	3.361	3.7	5.1	5.1
1.627	1.984	1.254	1.950	1.174	2.193	3.6	3.2	3.4
0.763 0.453	1.382 1.474	0.621 0.424	1.417	0.593	1.593 1.599	2.1 1.9	2.0	2.2
0.433	1.153	0.397	1.462 1.076	0.440	1.158	1.6	1.9	2.0 1.5
0.270	0.700	0.254	0.685	0.249	0.755	1.0	0.9	1.0
0.270	0.413	0.254	0.397	0.249	0.438	0.7	0.7	0.7
1.673	3.771	1.235	3.452	1.141	3.636	5.4	4.7	4.8
1.079 0.592	2.236 2.368	0.819 0.521	2.069 2.150	0.771 0.556	2.147 2.187	3.3	2.9	2.9
0.613	1.877	0.487	1.638	0.330	1.607	2.5	2.1	2.1
0.296	1.140	0.271	1.022	0.264	1.037	1.4	1.3	1.3
0.297	0.674	0.272	0.604	0.264	0.596	1.0	0.9	0.9
1.784	4.230	1.329	3.725	1.227	3.784	6.0	5.1	5.0
1.152 0.626	2.529 2.693	0.880 0.546	2.234	0.825 0.594	2.232 2.275	3.7	2.9	3.1 2.9
0.626	2.201	0.509	1.805	0.489	1.722	2.8	2.3	2.2
0.301	1.315	0.275	1.120	0.268	1.085	1.6	1.4	1.4
2.348	5.387	1.684	4.516	1.528	4.351	7.7	6.2	5.9
1.472	3.215	1.082	2.682	0.984	2.585	4.7	3.8	3.6
0.732	3.462 2.830	0.635 0.610	2.839 2.236	0.640 0.569	2.715 2.072	4.2 3.6	3.5 2.8	2.6
0.333	1.673	0.295	1.352	0.284	1.281	2.0	1.6	1.6
0.335	1.004	0.296	0.800	0.285	0.753	1.3	1.1	1.0
2.366	5.911	1.733	4.741	1.586	4.436	8.3	6.5	6.0
1.850	4.150	1.289 0.728	3.336	1.159 0.785	3.130 3.277	6.0 5.3	4.6	4.3
0.902	4.417 3.555	0.691	3.509 2.780	0.636	2.581	4.5	3.5	3.2
0.358	2.137	0.309	1.703	0.296	1.589	2.5	2.0	1.9
0.360	1.273	0.310	1.008	0.297	0.939	1.6	1.3	1.2
2.497	6.225	1.821	4.999	1.645	4.658	8.7	6.8	6.3
1.922 0.944	4.380 4.607	1.361 0.761	3.500 3.646	1.219 0.822	3.261	6.3 5.6	4.9 4.4	4.5 4.2
0.975	3.597	0.726	2.807	0.653	2.612	4.6	3.5	3.3
0.361	2.205	0.312	1.749	0.297	1.629	2.6	2.1	1.9
0.363	1.302	0.313	1.026	0.298	0.956	1.7	1.3	1.3
2.738	7.034	1.999	5.766	1.801	5.364	9.8	7.8	7.2
2.091 1.060	5.017 5.211	1.500 0.828	4.072 4.254	1.356 0.944	3.796 3.838	7.1 6.3	5.6 5.1	5.2 4.8
1.026	4.128	0.770	3.268	0.704	2.983	5.2	4.0	3.7
0.372	2.544	0.320	2.057	0.304	1.870	2.9	2.4	2.2
0.374	1.512	0.321	1.209	0.305	1.081	1.9	1.5	1.4
2.749 2.164	7.228 5.121	2.005 1.515	5.740 4.058	1.826 1.360	5.261 3.729	7.3	7.7 5.6	7.1 5.1
1.043	4.274	0.768	3.354	0.699	3.026	5.3	4.1	3.7
0.375	2.623	0.320	2.068	0.305	1.900	3.0	2.4	2.2
2.431	6.481	1.782	5.098	1.616	4.460	8.9	6.9	6.1
1.887	4.594	1.369	3.588	1.238	3.136	6.5	5.0	4.4
0.981	4.685 3.780	0.753 0.701	3.672 2.867	0.869 0.647	3.182 2.475	5.7 4.7	3.6	3.1
0.352	2.326	0.306	1.775	0.293	1.585	2.7	2.1	1.9
0.354	1.379	0.307	1.040	0.294	0.925	1.7	1.3	1.2
2.808	7.469	2.021	5.797	1.820	5.023	10.3	7.8	6.8
2.219 1.124	5.262 5.492	1.547 0.838	4.083 4.227	1.379 0.971	3.542 3.664	7.5 6.6	5.6 5.1	4.9 4.6
1.056	4.373	0.776	3.342	0.704	2.901	5.4	4.1	3.6
0.375	2.697	0.319	2.062	0.304	1.839	3.1	2.4	2.1
0.377	1.594	0.320	1.210	0.305	1.080	2.0	1.5	1.4
3.039	8.398	2.202 1.699	6.525	1.982	5.635 3.937	11.4	8.7	7.6 5.5
2.405 1.234	5.875 6.099	0.922	4.555 4.685	1.519 1.065	4.038	8.3 7.3	6.3 5.6	5.5
1.119	4.843	0.822	3.708	0.745	3.219	6.0	4.5	4.0
0.383	3.018	0.323	2.304	0.308	2.043	3.4	2.6	2.4
0.385	1.775	0.325	1.344	0.309	1.195	2.2	1.7	1.5
1.459 0.404	7.344 3.660	1.078 0.337	5.593 2.768	1.243 0.319	<u>4.777</u> 2.419	8.8 4.1	6.7 3.1	2.7
<u> </u>	5.000	0.337	2.700	0.319	<u></u>		5.1	۷./

							Emissi	ions (gram	ı/km)		
Curk	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400 0.278	0.400	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Conventional	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010	2014 1993	0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t		1994	1995	0.780	0.334	0.475	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III Euro IV	2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2009	0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

No. PM	Suburt	ban	Interu	ırban	High	way	Suburban	Interurban	Highwa
	РМ		PM	NO _x	PM		SUM	SUM	SUM
1.878		ce	nt/gram per poll	lutant per vehicl	e		country spe	ecific external c	osts per kr
1.791	4.082	1.867	4.082	1.867	4.082	1.867	cent/km	cent/km	cent/km
0.480 5.788 0.684 5.995 0.653 6.637 6.6 6.6 6.6 7.1									
0.499									
0.520									
0.297									
1.842 15.712 1.360 14.382 1.256 15.151 17.6 15.7 16.4 1.188 9.317 0.902 8.620 0.849 8.944 10.5 9.5 9.8 0.651 9.867 0.574 8.961 0.612 9.111 10.5 9.5 9.8 0.651 9.867 0.574 8.961 0.612 9.111 10.5 9.5 9.8 0.653 7.821 0.537 6.826 0.508 6.695 8.5 7.4 7.2 0.326 4.751 0.298 4.257 0.290 4.320 5.1 4.6 4.6 0.327 2.807 0.299 2.516 0.291 2.484 3.1 2.8 2.8 1.964 17.624 1.463 15.520 1.351 15.768 19.6 17.0 17.1 1.268 10.536 0.968 9.099 9.099 9.298 11.8 10.3 10.2 0.669 11.221 0.601 9.708 0.653 9.479 11.9 10.3 10.1 0.689 11.221 0.601 9.708 0.653 9.479 11.9 10.3 10.1 0.689 2.446 1.854 18.816 1.662 18.131 25.0 2.0 7 19.8 1.620 13.394 1.192 11.176 1.083 10.772 15.0 12.4 11.9 0.806 14.424 0.699 11.136 0.704 11.312 15.2 12.5 12.0 0.806 14.424 0.699 11.830 0.704 11.312 15.2 12.5 12.0 0.806 14.424 0.699 1.130 0.627 8.634 12.3 10.0 0.3 0.368 4.183 3.966 0.353 1.746 18.494 27.2 21.7 20.2 2.036 2.4628 1.998 19.753 1.746 18.494 27.2 21.7 20.2 2.036 17.392 1.499 13.902 1.276 13.044 27.2 21.7 20.2 2.036 17.392 1.499 1.4621 0.864 13.652 19.4 15.4 15.5 0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 0.396 5.304 0.341 4.201 0.327 3.914 5.7 4.5 4.2 2.749 2.59.39 2.004 20.828 1.811 19.409 28.7 22.8 22.1 2.116 8.250 1.498 13.893 15.192 0.905 14.122 20.2 16.0 15.0 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 0.399 1.918 0.333 1.519 0.905 14.122 20.2 16.0 15.0 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 0.399 1.498 0.333 7.289 0.327 6.788 9.6 7.6 7.1 0.391 1.919 0.331 1.664 1.399									
1.188									
0.651									
0.675 7.821 0.527 6.926 0.508 6.995 8.5 7.4 7.2 0.327 2.807 0.299 2.516 0.291 2.484 3.1 2.8 2.8 1.964 1.7624 1.463 15.520 1.351 15.768 19.6 17.0 17.1 1.268 10.536 0.968 9.309 0.909 9.298 11.8 10.3 10.2 0.689 11.221 0.601 9.708 0.653 9.479 11.9 10.3 10.1 0.089 9.173 0.560 7.522 0.538 7.177 9.9 8.1 7.7 0.332 5.480 0.303 4.667 0.295 4.522 5.8 5.0 4.8 1.620 13.394 1.192 11.176 1.083 10.772 15.0 12.4 11.9 0.861 11.492 0.672 9.316 0.627 8.634 12.7 10.0 9.3 0.368 <									
0.326									
1.964 17.624 1.463 15.520 1.351 15.768 19.6 17.0 17.1 1.268 10.536 0.968 9.309 0.909 9.298 11.8 10.3 10.2 0.689 11.221 0.601 9.708 0.653 9.479 11.9 10.3 10.1 0.332 5.480 0.303 4.667 0.295 4.522 5.8 5.0 4.8 1.620 13.394 1.192 11.176 1.083 10.772 15.0 12.4 11.9 0.806 14.424 0.699 11.830 0.704 11.312 15.2 12.5 12.0 0.861 11.792 0.672 9.316 0.627 8.634 12.7 10.0 9.3 0.368 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 0.368 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 0.368 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 0.394 1.492 1.419 13.902 1.276 13.044 19.3 15.3 14.3 0.992 18.404 0.801 14.621 0.864 13.652 19.4 15.4 15.4 1.019 14.812 0.760 11.582 0.700 10.756 15.8 12.3 11.5 0.394 8.906 0.340 7.095 0.326 6.622 9.3 4.7 4.5 0.394 8.906 0.340 7.095 0.326 6.622 19.8 12.3 11.5 0.394 8.906 0.340 7.095 0.326 6.622 19.8 12.3 11.5 0.394 5.304 0.341 4.201 0.327 3.914 5.7 4.5 4.2 2.116 18.250 1.498 14.584 1.342 13.590 20.4 16.1 14.9 1.039 1.918 0.838 15.192 0.905 14.122 20.2 16.0 15.0 1.073 14.966 0.799 11.698 0.718 10.884 16.1 12.5 11.6 0.397 9.188 0.343 7.289 0.327 6.788 19.6 7.6 7.1 0.399 5.425 0.345 5.090 3.376 6.788 19.6 7.6 7.1 0.399 5.425 0.345 5.090 3.376 6.788 19.0 4.6 4.3 3.014 2.9309 2.200 2.4027 1.982 2.352 2.3 2.6 2.4 3. 2.020 0.391 1.652 0.905 14.122 0.20 16.0 15.0 0.397 1.898 0.343 7.289 0.327 6.788 16.1 12.5 11.6 0.397 9.188 0.343 7.289 0.327 6.788 19.6 1.72 1.8 1.0 1.107 1.119 1.119 1.119 1.119 1.119 1.119 1.119 1.119 1.119 1.119 1.119 1.119 1.119 1.119 1.									
1,268 10,536 0,968 9,309 0,909 9,298 11,821 10,3 10,2	0.327	2.807		2.516		2.484	3.1	2.8	2.8
0.689 11.221 0.601 9.708 0.653 9.479 11.9 10.3 10.1 10.6069 9.173 0.560 7.522 0.538 7.177 9.9 8.1 7.7 0.332 5.480 0.303 4.667 0.295 4.522 5.8 5.0 4.8 1.620 13.394 1.192 11.176 1.083 10.772 15.0 12.4 11.9 0.806 14.424 0.699 11.830 0.704 11.312 15.2 12.5 12.0 0.806 14.424 0.699 9.178 30 0.704 11.312 15.2 12.5 12.0 0.806 11.792 0.672 9.316 0.627 8.634 12.7 10.0 9.3 0.367 6.972 0.325 5.634 0.313 5.337 7.7 10.0 9.3 0.368 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 0.368 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 0.369 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 0.369 17.292 1.419 13.902 1.276 13.044 19.3 15.3 14.3 0.992 18.404 0.801 14.621 0.864 13.652 19.4 19.3 15.3 14.3 0.992 18.404 0.801 14.621 0.864 13.652 19.4 15.4 14.5 0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 0.396 5.304 0.341 4.201 0.327 3.914 5.7 4.5 4.2 0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 0.396 1.498 14.584 1.342 13.599 20.4 16.1 14.9 1.039 19.198 0.838 15.192 0.905 14.122 20.2 16.0 15.0 1.039 19.198 0.838 15.192 0.905 14.122 20.2 16.0 15.0 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 1.039 19.198 0.838 15.192 0.905 14.122 20.2 16.0 15.0 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 1.039 19.199 0.838 15.192 0.905 14.122 20.2 16.0 15.0 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 1.107 1.11 0.912 1.7.725 1.039 15.990 1.8 1.0 1.107 1.10 0.912 1.7.725 1.039 15.990 1.8 1.0 1.107 1.10 0.912 1.7.725 1.039 15.990 1.1 1.107 1.10 0.912 1.7.725 1.039 15.990 1.1 1.10 0.44 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1									
0.689									
0.332 5.480 0.303 4.667 0.295 4.522 5.8 5.0 4.8 1.620 13.394 1.192 11.176 1.083 10.772 15.0 12.4 11.9 0.806 14.424 0.699 11.830 0.704 11.312 15.2 12.5 12.4 11.9 0.861 11.792 0.672 9.316 0.627 8.634 12.7 10.0 9.3 0.367 6.972 0.325 5.634 0.313 5.337 7.3 6.0 5.6 0.368 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 2.695 2.625 2.628 1.908 1.978 1.746 18.484 27.2 2.17 20.2 2.036 17.292 1.419 13.902 1.276 13.044 19.3 15.3 14.3 1.019 14.812 0.700 11.582 0.700 10.756 15.8 12.3 11.5 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1.620 13.394 1.192 11.176 1.083 10.772 15.0 20.7 19.8									
0.806 14.424 0.699 11.830 0.704 11.312 15.2 12.5 12.0 0.867 6.972 0.325 5.634 0.313 5.337 7.3 6.0 5.6 0.368 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 2.036 17.292 1.419 13.902 1.276 13.044 19.3 15.3 14.3 0.992 18.404 0.801 14.621 0.864 13.6552 19.4 15.4 14.5 1.019 14.812 0.760 11.582 0.700 10.756 15.8 12.3 11.5 0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 2.749 2.5039 2.004 20.828 1.811 19.409 2.8 12.3 2.749 2.5339 2.004 20.828 1.811 19.409 2.8 2.2 2.2 2.1 1.039									_
0.861 11.792 0.672 9.316 0.627 8.634 12.7 10.0 9.3 0.367 6.972 0.325 5.634 0.313 5.337 7.3 6.0 5.6 2.605 24.628 1.908 19.753 1.746 18.484 27.2 21.7 20.2 2.036 17.292 1.419 13.902 1.276 13.044 19.3 15.3 14.3 0.992 18.404 0.801 14.621 0.864 13.652 19.4 15.4 14.5 1.019 14.812 0.760 11.582 0.700 10.756 15.8 12.3 11.5 0.934 1.54 14.5									
0.367 6.972 0.325 5.634 0.313 5.337 7.3 6.0 5.6 0.368 4.183 0.326 3.353 3.14 3.139 4.6 3.7 3.5 2.605 24.628 1.908 19.753 1.746 18.484 27.2 21.7 20.2 2.036 17.292 1.419 13.902 1.276 13.044 19.3 15.3 14.3 1.019 14.812 0.760 11.582 0.700 10.756 15.8 12.3 11.5 1.019 14.812 0.760 11.582 0.700 10.756 15.8 12.3 11.5 0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 0.396 5.304 0.341 4.201 0.327 3.914 5.7 4.5 4.2 2.749 25.939 2.004 20.888 1.811 19.499 28.7 22.8 21.2 2.116									
0.368 4.183 0.326 3.335 0.314 3.139 4.6 3.7 3.5 2.605 24.628 1.908 19.73 1.746 18.484 27.2 2.17 20.2 2.036 17.292 1.419 13.902 1.276 13.044 19.3 15.3 14.3 0.992 18.404 0.801 14.621 0.864 13.652 19.4 15.4 14.3 1.019 14.812 0.760 11.582 0.700 10.756 15.8 12.3 11.5 0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 2.749 25.939 2.004 20.828 1.811 19.409 28.7 22.8 21.2 2.116 18.250 1.498 1.4584 1.342 13.590 20.4 16.1 14.9 1.039 19.198 0.838 15.192 0.905 14.122 20.2 16.0 15.0 1.									
2.605 24.628 1.908 19.753 1.746 18.484 27.2 21.7 20.2 2.036 17.292 1.419 13.902 1.276 13.044 19.3 15.3 14.3 0.992 18.404 0.801 14.621 0.864 13.652 19.4 15.4 14.5 1.019 14.812 0.760 11.582 0.700 10.756 15.8 12.3 11.5 0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 0.396 5.304 0.341 4.201 0.327 3.914 5.7 4.5 4.2 2.749 25.939 2.04 20.2 1.61 14.99 1.039 19.198 0.888 15.192 0.905 14.122 20.2 16.0 11.69 1.073 14.966 0.799 11.698 0.718 10.884 16.1 12.5 11.6 0.397 9.188 0.343 7.289 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
2.036 17.292 1.419 13.902 1.276 13.044 19.3 15.3 14.3 0.992 18.404 0.801 14.621 0.864 13.652 19.4 15.4 14.5 1.019 14.812 0.760 11.582 0.700 10.756 15.8 12.3 11.5 0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 2.749 25.939 2.004 20.828 1.811 19.409 28.7 22.8 21.2 2.116 18.250 1.498 14.584 1.342 13.590 20.4 16.1 14.9 1.039 19.198 0.838 15.192 0.905 14.122 20.2 16.0 15.0 1.073 14.986 0.799 11.698 0.718 10.884 16.1 12.5 11.6 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 0									
1.019		17.292		13.902	1.276			15.3	14.3
0.394 8.906 0.340 7.095 0.326 6.622 9.3 7.4 6.9 0.396 5.304 0.341 4.201 0.327 3.914 5.7 4.5 4.2 2.749 25.939 2.004 20.828 1.811 19.409 28.7 22.8 21.2 2.116 18.250 1.498 14.584 1.342 13.590 20.4 16.1 14.9 1.039 19.198 0.838 15.192 0.905 14.122 20.2 16.0 15.0 1.073 14.986 0.799 11.698 0.718 10.884 16.1 12.5 11.6 0.397 9.188 0.342 7.289 0.327 6.788 9.6 7.6 7.1 0.399 5.425 0.345 4.275 0.328 3.982 5.8 4.6 4.3 3.014 29.309 2.2002 24.027 1.982 22.352 23.2 23.8 4.6 24.3									
0.396 5.304 0.341 4.201 0.327 3.914 5.7 4.5 4.2 2.749 25.939 2.004 20.828 1.811 19.409 28.7 22.8 21.2 2.116 18.250 1.498 14.584 1.342 13.590 20.4 16.1 14.9 1.039 19.198 0.838 15.192 0.905 14.122 20.2 16.0 15.0 1.073 14.986 0.799 11.698 0.718 10.884 16.1 12.5 11.6 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 0.399 5.425 0.345 4.275 0.328 3.982 5.8 4.6 4.3 3.014 29.309 2.200 24.027 1.982 22.352 32.3 26.2 24.3 2.302 20.903 1.652 16.966 1.492 15.816 23.2 18.6 17.3 1.129 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
2.749 25.939 2.004 20.828 1.811 19.409 28.7 22.8 21.2 2.116 18.250 1.498 14.584 1.342 13.590 20.4 16.1 14.9 1.039 19.198 0.638 15.192 0.905 14.122 20.2 16.0 15.0 1.073 14.986 0.799 11.698 0.718 10.884 16.1 12.5 11.6 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 0.399 5.425 0.345 4.275 0.328 3.982 5.8 4.6 4.3 3.014 29.309 2.200 24.027 1.982 22.352 23.2 26.2 24.3 1.167 21.713 0.912 17.725 1.039 15.990 22.9 18.6 17.0 1.129 17.200 0.847 13.618 0.775 12.429 18.3 14.5 13.2 1									
2.116 18.250 1.498 14.584 1.342 13.590 20.4 16.1 14.9 1.039 19.198 0.838 15.192 0.905 14.122 20.2 16.0 15.0 1.073 14.986 0.799 11.698 0.718 10.884 16.1 12.5 11.6 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 0.399 5.425 0.345 4.275 0.328 3.982 5.8 4.6 4.3 3.014 29.309 2.200 24.027 1.982 22.352 32.3 26.2 24.3 2.302 20.903 1.652 16.966 1.492 15.816 23.2 18.6 17.0 1.129 17.200 0.847 13.618 0.775 12.429 18.3 14.5 13.2 0.412 6.301 0.354 5.039 0.336 4.505 6.7 5.4 4.8 3.026 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1.073 14.986 0.799 11.698 0.718 10.884 16.1 12.5 11.6 0.397 9.188 0.343 7.289 0.327 6.788 9.6 7.6 7.1 0.399 5.425 0.345 4.275 0.328 3.982 5.8 4.6 4.3 3.014 29.309 2.200 24.027 1.982 22.352 32.3 26.2 24.3 2.302 20.903 1.652 16.966 1.492 15.816 23.2 18.6 17.3 1.167 21.713 0.912 17.725 1.039 15.990 22.9 18.6 17.0 1.129 17.200 0.847 13.618 0.775 12.429 18.3 14.5 13.2 0.409 10.600 0.354 5.039 0.336 4.5055 6.7 5.4 4.8 3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.9 2.382									
0.397 9.188 0.343 7.299 0.327 6.788 9.6 7.6 7.1 0.399 5.425 0.345 4.275 0.328 3.982 5.8 4.6 4.3 3.014 29.309 2.200 24.027 1.982 22.352 32.3 26.2 24.3 2.302 20.903 1.652 16.966 1.492 15.816 23.2 18.6 17.3 1.167 21.713 0.912 17.725 1.039 15.990 22.9 18.6 17.0 1.129 17.200 0.847 13.618 0.775 12.429 18.3 14.5 13.2 0.409 10.600 0.352 8.571 0.334 7.793 11.0 8.9 8.1 0.412 6.301 0.354 5.039 0.336 4.505 6.7 5.4 4.8 3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.7 18.6 17.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
0.399 5.425 0.345 4.275 0.328 3.982 5.8 4.6 4.3 3.014 29.309 2.200 24.027 1.982 22.352 32.3 26.2 24.3 2.302 20.903 1.652 16.966 1.492 15.816 23.2 18.6 17.0 1.167 21.713 0.912 17.725 1.039 15.990 22.9 18.6 17.0 1.129 17.200 0.847 13.618 0.775 12.429 18.3 14.5 13.2 0.409 10.600 0.352 8.571 0.334 7.793 11.0 8.9 8.1 0.412 6.301 0.354 5.039 0.336 4.505 6.7 5.4 4.8 3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.9 2.382 21.339 1.668 16.908 1.497 15.540 23.7 18.6 17.0 1.148									
3.014 29.309 2.200 24.027 1.982 22.352 32.3 26.2 24.3 2.302 20.903 1.652 16.966 1.492 15.816 23.2 18.6 17.0 1.167 21.713 0.912 17.725 1.039 15.990 22.9 18.6 17.0 1.129 17.200 0.847 13.618 0.775 12.429 18.3 14.5 13.2 0.409 10.600 0.352 8.571 0.334 7.793 11.0 8.9 8.1 0.412 6.301 0.354 5.039 0.336 4.505 6.7 5.4 4.8 3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.9 2.382 21.339 1.668 16.908 1.497 15.540 23.7 18.6 17.0 1.148 17.810 0.845 13.977 0.770 12.608 19.0 14.8 13.4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
2.302 20.903 1.652 16.966 1.492 15.816 23.2 18.6 17.3 1.167 21.713 0.912 17.725 1.039 15.990 22.9 18.6 17.0 1.129 17.200 0.847 13.618 0.775 12.429 18.3 14.5 13.2 0.409 10.600 0.352 8.571 0.334 7.793 11.0 8.9 8.1 0.412 6.301 0.354 5.039 0.336 4.505 6.7 5.4 4.8 3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.9 2.382 21.339 1.668 16.908 1.497 15.540 23.7 18.6 17.0 1.148 17.810 0.845 13.977 0.770 12.608 19.0 14.8 13.4 0.413 10.929 0.352 8.618 0.336 7.918 11.3 9.0 18.2 2.									
1.129 17.200 0.847 13.618 0.775 12.429 18.3 14.5 13.2 0.409 10.600 0.352 8.571 0.334 7.793 11.0 8.9 8.1 0.412 6.301 0.354 5.039 0.336 4.505 6.7 5.4 4.8 3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.9 2.382 21.339 1.668 16.908 1.497 15.540 23.7 18.6 17.0 1.148 17.810 0.845 13.977 0.770 12.608 19.0 14.8 13.4 0.413 10.929 0.352 8.618 0.336 7.918 11.3 9.0 8.3 2.676 27.003 1.962 21.243 1.779 18.583 29.7 23.2 20.4 2.077 19.143 1.507 14.949 1.363 13.065 21.2 16.5 14.4 1.0									
0.409 10.600 0.352 8.571 0.334 7.793 11.0 8.9 8.1 0.412 6.301 0.354 5.039 0.336 4.505 6.7 5.4 4.8 3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.9 2.382 21.339 1.668 16.908 1.497 15.540 23.7 18.6 17.0 1.148 17.810 0.845 13.977 0.770 12.608 19.0 14.8 13.4 0.413 10.929 0.352 8.618 0.336 7.918 11.3 9.0 8.3 2.676 27.003 1.962 21.243 1.779 18.583 29.7 23.2 20.4 2.077 19.143 1.507 14.949 1.363 13.065 21.2 16.5 14.4 1.079 19.520 0.829 15.302 0.956 13.258 20.6 16.1 14.2 1.0	1.167	21.713	0.912		1.039	15.990	22.9	18.6	17.0
0.412 6.301 0.354 5.039 0.336 4.505 6.7 5.4 4.8 3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.9 2.382 21.339 1.668 16.908 1.497 15.540 23.7 18.6 17.0 1.148 17.810 0.845 13.977 0.770 12.608 19.0 14.8 13.4 0.413 10.929 0.352 8.618 0.336 7.918 11.3 9.0 8.3 2.676 27.003 1.962 21.243 1.779 18.583 29.7 23.2 20.4 1.079 19.520 0.829 15.302 0.956 13.258 20.6 16.1 14.2 1.013 15.749 0.771 11.948 0.712 10.312 16.8 12.7 11.0 0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 3.09					,				
3.026 30.117 2.208 23.918 2.010 21.923 33.1 26.1 23.9 2.382 21.339 1.668 16.908 1.497 15.540 23.7 18.6 17.0 1.148 17.810 0.845 13.977 0.770 12.608 19.0 14.8 13.4 0.413 10.929 0.352 8.618 0.336 7.918 11.3 9.0 8.3 2.676 27.003 1.962 21.243 1.779 18.583 29.7 23.2 20.4 2.077 19.143 1.507 14.949 1.363 13.065 21.2 16.5 14.4 1.079 19.520 0.829 15.302 0.956 13.258 20.6 16.1 14.2 1.031 15.749 0.771 11.948 0.712 10.312 16.8 12.7 11.0 0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
2.382 21.339 1.668 16.908 1.497 15.540 23.7 18.6 17.0 1.148 17.810 0.845 13.977 0.770 12.608 19.0 14.8 13.4 0.413 10.929 0.352 8.618 0.336 7.918 11.3 9.0 8.3 2.676 27.003 1.962 21.243 1.779 18.583 29.7 23.2 20.4 2.077 19.143 1.507 14.949 1.363 13.065 21.2 16.5 14.4 1.079 19.520 0.829 15.302 0.956 13.258 20.6 16.1 14.2 1.013 15.749 0.771 11.948 0.712 10.312 16.8 12.7 11.0 0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 0.390 5.748 0.338 4.334 0.323 3.855 6.1 4.7 4.2 2.44									
1.148 17.810 0.845 13.977 0.770 12.608 19.0 14.8 13.4 0.413 10.929 0.352 8.618 0.336 7.918 11.3 9.0 8.3 2.676 27.003 1.962 21.243 1.779 18.583 29.7 23.2 20.4 1.079 19.520 0.829 15.302 0.956 13.258 20.6 16.1 14.2 1.013 15.749 0.771 11.948 0.712 10.312 16.8 12.7 11.0 0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 0.390 5.748 0.338 4.334 0.323 3.855 6.1 4.7 4.2 2.443 21.927 1.703 17.011 1.518 14.760 24.4 18.7 16.3 1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3 1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8									_
2.676 27.003 1.962 21.243 1.779 18.583 29.7 23.2 20.4 2.077 19.143 1.507 14.949 1.363 13.065 21.2 16.5 14.4 1.079 19.520 0.829 15.302 0.956 13.258 20.6 16.1 14.2 1.013 15.749 0.771 11.948 0.712 10.312 16.8 12.7 11.0 0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 0.390 5.748 0.338 4.334 0.323 3.855 6.1 4.7 4.2 3.091 31.122 2.225 24.157 2.004 20.928 34.2 26.4 22.9 2.443 21.927 1.703 17.011 1.518 14.760 24.4 18.7 16.3 1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3									
2.077 19.143 1.507 14.949 1.363 13.065 21.2 16.5 14.4 1.079 19.520 0.829 15.302 0.956 13.258 20.6 16.1 14.2 1.013 15.749 0.771 11.948 0.712 10.312 16.8 12.7 11.0 0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 0.390 5.748 0.338 4.334 0.323 3.855 6.1 4.7 4.2 3.091 31.122 2.225 24.157 2.004 20.928 34.2 26.4 22.9 2.443 21.927 1.703 17.011 1.518 14.760 24.4 18.7 16.3 1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3 1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8 12.9									
1.079 19.520 0.829 15.302 0.956 13.258 20.6 16.1 14.2 1.013 15.749 0.771 11.948 0.712 10.312 16.8 12.7 11.0 0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 0.390 5.748 0.338 4.334 0.323 3.855 6.1 4.7 4.2 3.091 31.122 2.225 24.157 2.004 20.928 34.2 26.4 22.9 2.443 21.927 1.703 17.011 1.518 14.760 24.4 18.7 16.3 1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3 1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8 12.9 0.412 11.238 0.351 8.590 0.334 7.665 11.7 8.9 8.0 0.41									
1.013 15.749 0.771 11.948 0.712 10.312 16.8 12.7 11.0 0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 0.390 5.748 0.338 4.334 0.323 3.855 6.1 4.7 4.2 3.091 31.122 2.225 24.157 2.004 20.928 34.2 26.4 22.9 2.443 21.927 1.703 17.011 1.518 14.760 24.4 18.7 16.3 1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3 1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8 12.9 0.412 11.238 0.351 8.590 0.334 7.665 11.7 8.9 8.0 0.415 6.643 0.352 5.042 0.335 4.500 7.1 5.4 4.8 3.345 34.991 2.424 27.190 2.182 23.478 38.3 29.6									
0.387 9.691 0.337 7.396 0.322 6.605 10.1 7.7 6.9 0.390 5.748 0.338 4.334 0.323 3.855 6.1 4.7 4.2 3.091 31.122 2.225 24.157 2.004 20.928 34.2 26.4 22.9 2.443 21.927 1.703 17.011 1.518 14.760 24.4 18.7 16.3 1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3 1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8 12.9 0.412 11.238 0.351 8.590 0.334 7.665 11.7 8.9 8.0 0.415 6.643 0.352 5.042 0.335 4.500 7.1 5.4 4.8 3.345 34.991 2.424 27.190 2.182 23.478 38.3 29.6 25.7 2.647									_
3.091 31.122 2.225 24.157 2.004 20.928 34.2 26.4 22.9 2.443 21.927 1.703 17.011 1.518 14.760 24.4 18.7 16.3 1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3 1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8 12.9 0.412 11.238 0.351 8.590 0.334 7.665 11.7 8.9 8.0 0.415 6.643 0.352 5.042 0.335 4.500 7.1 5.4 4.8 3.345 34.991 2.424 27.190 2.182 23.478 38.3 29.6 25.7 2.647 24.480 1.870 18.980 1.672 16.404 27.1 20.8 18.1 1.359 25.414 1.014 19.522 1.172 16.823 26.8 20.5 18.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
2.443 21.927 1.703 17.011 1.518 14.760 24.4 18.7 16.3 1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3 1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8 12.9 0.412 11.238 0.351 8.590 0.334 7.665 11.7 8.9 8.0 0.415 6.643 0.352 5.042 0.335 4.500 7.1 5.4 4.8 3.345 34.991 2.424 27.190 2.182 23.478 38.3 29.6 25.7 2.647 24.480 1.870 18.980 1.672 16.404 27.1 20.8 18.1 1.359 25.414 1.014 19.522 1.172 16.823 26.8 20.5 18.0 1.232 20.181 0.905 15.451 0.820 13.414 21.4 16.4 14.2 <th< td=""><td>0.390</td><td></td><td></td><td></td><td>0.323</td><td></td><td>6.1</td><td>4.7</td><td>4.2</td></th<>	0.390				0.323		6.1	4.7	4.2
1.237 22.883 0.923 17.614 1.069 15.267 24.1 18.5 16.3 1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8 12.9 0.412 11.238 0.351 8.590 0.334 7.665 11.7 8.9 8.0 0.415 6.643 0.352 5.042 0.335 4.500 7.1 5.4 4.8 3.345 34.991 2.424 27.190 2.182 23.478 38.3 29.6 25.7 2.647 24.480 1.870 18.980 1.672 16.404 27.1 20.8 18.1 1.359 25.414 1.014 19.522 1.172 16.823 26.8 20.5 18.0 1.232 20.181 0.905 15.451 0.820 13.414 21.4 16.4 14.2 0.421 12.577 0.356 9.600 0.339 8.511 13.0 10.0 8.9 0.									
1.163 18.223 0.854 13.926 0.775 12.087 19.4 14.8 12.9 0.412 11.238 0.351 8.590 0.334 7.665 11.7 8.9 8.0 0.415 6.643 0.352 5.042 0.335 4.500 7.1 5.4 4.8 3.345 34.991 2.424 27.190 2.182 23.478 38.3 29.6 25.7 2.647 24.480 1.870 18.980 1.672 16.404 27.1 20.8 18.1 1.359 25.414 1.014 19.522 1.172 16.823 26.8 20.5 18.0 1.232 20.181 0.905 15.451 0.820 13.414 21.4 16.4 14.2 0.421 12.577 0.356 9.600 0.339 8.511 13.0 10.0 8.9 0.424 7.396 0.358 5.601 0.340 4.979 7.8 6.0 5.3 1.606 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
0.412 11.238 0.351 8.590 0.334 7.665 11.7 8.9 8.0 0.415 6.643 0.352 5.042 0.335 4.500 7.1 5.4 4.8 3.345 34.991 2.424 27.190 2.182 23.478 38.3 29.6 25.7 2.647 24.480 1.870 18.980 1.672 16.404 27.1 20.8 18.1 1.359 25.414 1.014 19.522 1.172 16.823 26.8 20.5 18.0 1.232 20.181 0.905 15.451 0.820 13.414 21.4 16.4 14.2 0.421 12.577 0.356 9.600 0.339 8.511 13.0 10.0 8.9 0.424 7.396 0.358 5.601 0.340 4.979 7.8 6.0 5.3 1.606 30.600 1.187 23.306 1.369 19.905 32.2 24.5 21.3									
0.415 6.643 0.352 5.042 0.335 4.500 7.1 5.4 4.8 3.345 34.991 2.424 27.190 2.182 23.478 38.3 29.6 25.7 2.647 24.480 1.870 18.980 1.672 16.404 27.1 20.8 18.1 1.359 25.414 1.014 19.522 1.172 16.823 26.8 20.5 18.0 1.232 20.181 0.905 15.451 0.820 13.414 21.4 16.4 14.2 0.421 12.577 0.356 9.600 0.339 8.511 13.0 10.0 8.9 0.424 7.396 0.358 5.601 0.340 4.979 7.8 6.0 5.3 1.606 30.600 1.187 23.306 1.369 19.905 32.2 24.5 21.3									
2.647 24.480 1.870 18.980 1.672 16.404 27.1 20.8 18.1 1.359 25.414 1.014 19.522 1.172 16.823 26.8 20.5 18.0 1.232 20.181 0.905 15.451 0.820 13.414 21.4 16.4 14.2 0.421 12.577 0.356 9.600 0.339 8.511 13.0 10.0 8.9 0.424 7.396 0.358 5.601 0.340 4.979 7.8 6.0 5.3 1.606 30.600 1.187 23.306 1.369 19.905 32.2 24.5 21.3					0.335				
1.359 25.414 1.014 19.522 1.172 16.823 26.8 20.5 18.0 1.232 20.181 0.905 15.451 0.820 13.414 21.4 16.4 14.2 0.421 12.577 0.356 9.600 0.339 8.511 13.0 10.0 8.9 0.424 7.396 0.358 5.601 0.340 4.979 7.8 6.0 5.3 1.606 30.600 1.187 23.306 1.369 19.905 32.2 24.5 21.3									
1.232 20.181 0.905 15.451 0.820 13.414 21.4 16.4 14.2 0.421 12.577 0.356 9.600 0.339 8.511 13.0 10.0 8.9 0.424 7.396 0.358 5.601 0.340 4.979 7.8 6.0 5.3 1.606 30.600 1.187 23.306 1.369 19.905 32.2 24.5 21.3									
0.421 12.577 0.356 9.600 0.339 8.511 13.0 10.0 8.9 0.424 7.396 0.358 5.601 0.340 4.979 7.8 6.0 5.3 1.606 30.600 1.187 23.306 1.369 19.905 32.2 24.5 21.3									
0.424 7.396 0.358 5.601 0.340 4.979 7.8 6.0 5.3 1.606 30.600 1.187 23.306 1.369 19.905 32.2 24.5 21.3									
1.606 30.600 1.187 23.306 1.369 19.905 32.2 24.5 21.3									_
0.445 15.249 0.371 11.535 0.351 10.078 15.7 11.9 10.4	1.606	30.600	1.187	23.306	1.369	19.905	32.2	24.5	21.3
	0.445	15.249	0.371	11.535	0.351	10.078	15.7	11.9	10.4

							Emiss	ions (gram	n/km)		
Sub	Subsector	Tech 2	First	Last	PM (urban)	PM (inter)	PM (highway)	PM (non-	NO _x (urban)	NO _x	NO _x (highway)
sector	Subsector	recii z	year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	(inter) 55 km/h	80 km/h
ID						,					,
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0	9999 1993	0.400	0.400	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5-7.5t	Euro I	1994	1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Conventional Euro I	0 1994	1993 1996	0.391	0.273 0.161	0.248 0.148	0.060	8.414 4.989	7.702 4.616	8.114 4.790
15	Diesel RT 7.5–12t	Euro II	1997	2001	0.231	0.181	0.090	0.060	5.284	4.799	4.790
15	Diesel RT 7.5-12t	Euro III	2002	2006	0.105	0.071	0.064	0.060	4.188	3.656	3.585
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro IV Euro V	2007 2010	2009	0.020	0.013	0.011	0.060	2.544 1.503	2.280 1.347	2.313 1.330
16	Diesel RT 12-14 t	Conventional	0	1993	0.421	0.298	0.271	0.060	9.438	8.311	8.445
16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III	1997 2002	2001	0.109	0.087	0.100	0.060	6.009 4.913	5.199 4.029	5.076 3.844
16	Diesel RT 12-14 t	Euro IV	2007	2009	0.021	0.014	0.012	0.060	2.935	2.499	2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro II	1994 1997	1996 2001	0.337 0.137	0.232	0.205 0.112	0.060	7.173 7.724	5.985 6.335	5.769 6.058
17	Diesel RT 14-20t	Euro III	2002	2006	0.151	0.105	0.094	0.060	6.315	4.989	4.624
17	Diesel RT 14-20t	Euro IV	2007	2009	0.030	0.020	0.017	0.060	3.734	3.017	2.858
17 18	Diesel RT 14-20t Diesel RT 20-26t	Euro V Conventional	2010 0	2014 1993	0.030	0.020	0.017	0.060	2.240	1.786 10.579	1.681 9.899
18	Diesel RT 20–26t	Euro I	1994	1996	0.439	0.288	0.253	0.060	9.261	7.445	6.985
18	Diesel RT 20-26t	Euro II	1997	2001	0.183	0.136	0.152	0.060	9.856	7.830	7.311
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro III Euro IV	2002	2006	0.190	0.126	0.112	0.060	7.933 4.769	6.202 3.800	5.760 3.546
18	Diesel RT 20–26t	Euro V	2010	2014	0.030	0.023	0.020	0.060	2.840	2.250	2.096
19	Diesel RT 26-28t	Conventional	0	1993	0.613	0.431	0.384	0.060	13.891	11.154	10.394
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro II	1994 1997	1996 2001	0.458	0.307 0.145	0.269	0.060	9.774	7.811 8.136	7.278
19	Diesel RT 26–28t	Euro III	2002	2001	0.203	0.145	0.102	0.060	8.026	6.265	5.829
19	Diesel RT 26-28t	Euro IV	2007	2009	0.037	0.024	0.020	0.060	4.920	3.903	3.635
19 20	Diesel RT 26-28t Diesel RT 28-32t	Euro V Conventional	2010	2014 1993	0.038 0.678	0.024	0.020 0.426	0.060	2.905 15.696	2.290 12.868	2.133 11.970
20	Diesel RT 28-32t	Euro I	1994	1996	0.504	0.345	0.306	0.060	11.194	9.086	8.470
20	Diesel RT 28-32t	Euro II	1997	2001	0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t Diesel RT 28-32t	Euro III Euro IV	2002	2006	0.217	0.148	0.130	0.060	9.211 5.677	7.293 4.590	6.656 4.173
20	Diesel RT 28-32t	Euro V	2010	2014	0.041	0.027	0.022	0.060	3.374	2.698	2.413
21	Diesel RT >32t	Conventional	0	1993	0.681	0.481	0.432	0.060	16.129	12.809	11.740
21 21	Diesel RT >32t Diesel RT >32t	Euro III	1994 2002	1996 2006	0.524	0.349 0.147	0.307	0.060	9.538	9.055 7.485	8.322 6.752
21	Diesel RT >32t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	5.853	4.616	4.240
24	Diesel TT/AT 28-34t	Conventional	0	1993	0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t	Euro II	1994 1997	1996 2001	0.449	0.309	0.274	0.060	10.252	8.006 8.195	6.997 7.100
24	Diesel TT/AT 28-34t		2002	2001	0.188	0.143	0.114	0.060	8.434	6.399	5.523
24	Diesel TT/AT 28-34t	Euro IV	2007	2009	0.035	0.022	0.019	0.060	5.190	3.961	3.537
24 25	Diesel TT/AT 28-34t Diesel TT/AT 34-40t		2010	2014 1993	0.035	0.023	0.019	0.060	3.078 16.667	2.321 12.937	2.064 11.208
25	Diesel TT/AT 34-40t		1994	1996	0.539	0.357	0.312	0.060	11.743	9.110	7.904
25	Diesel TT/AT 34-40t		1997	2001	0.243	0.166	0.202	0.060	12.255	9.433	8.176
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2002	2006	0.225	0.149 0.026	0.130	0.060	9.759 6.018	7.458 4.600	6.473 4.105
25	Diesel TT/AT 34–40t		2010	2009	0.041	0.026	0.022	0.060	3.557	2.700	2.410
26	Diesel TT/AT 40-50t	Conventional	0	1993	0.760	0.534	0.475	0.060	18.739	14.561	12.573
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		1994 1997	1996 2001	0.589	0.398 0.189	0.350 0.227	0.060	13.110	10.164 10.454	8.785 9.009
26	Diesel TT/AT 40-50t		2002	2001	0.242	0.169	0.227	0.060	10.808	8.275	7.184
26	Diesel TT/AT 40-50t	Euro IV	2007	2009	0.043	0.027	0.023	0.060	6.735	5.141	4.558
26 27	Diesel TT/AT 40-50t Diesel TT/AT 50-60t		2010 1997	2014	0.044	0.028	0.023	0.060	3.961 16.388	3.000 12.481	2.667 10.660
27	Diesel TT/AT 50-60t		2007	2001	0.049	0.231	0.275	0.060	8.166	6.177	5.397
-	, 22 200									·	

Subur	ban	Interu	rban	Highv	vav
РМ	NO _x	PM nt/gram per poll	NO _x	РМ	NO _x
1.802	0.619	1.802	0.619	1.802	0.619
0.829	2.786	0.829	4.643	0.829	4.643
0.791	2.741	0.609	2.693	0.571	3.030
0.371	1.909	0.302	1.958	0.288	2.201
0.220	2.036	0.206	2.019	0.214	2.209
0.230	1.593 0.966	0.193 0.123	1.487 0.946	0.182 0.121	1.600 1.044
0.131	0.571	0.123	0.549	0.121	0.605
0.813	5.209	0.600	4.768	0.555	5.023
0.525	3.089	0.398	2.858	0.375	2.965
0.288	3.272	0.253	2.971	0.270	3.021
0.298	2.593	0.237	2.263	0.224	2.220
0.144	1.575	0.132	1.411	0.128	1.432
0.144	0.931	0.132	0.834	0.128	0.823
0.867	5.843	0.646	5.146	0.596	5.228
0.560	3.493	0.428	3.086	0.401	3.083
0.304	3.720 3.041	0.265 0.247	3.219 2.494	0.288	3.143 2.380
0.304	1.817	0.247	1.547	0.238	1.499
1.141	7.442	0.818	6.238	0.743	6.011
0.715	4.441	0.526	3.705	0.478	3.571
0.356	4.782	0.309	3.922	0.311	3.750
0.380	3.910	0.297	3.089	0.277	2.863
0.162	2.312	0.143	1.868	0.138	1.770
0.163	1.387	0.144	1.106	0.138	1.041
1.150	8.165	0.842	6.549	0.771	6.128
0.899	5.733	0.626	4.609	0.563	4.325
0.438	6.102	0.354	4.848	0.382	4.526
0.450	4.911 2.953	0.336 0.150	3.840 2.352	0.309 0.144	3.566 2.195
0.175	1.759	0.151	1.393	0.144	1.298
1.213	8.600	0.885	6.905	0.800	6.435
0.934	6.051	0.661	4.835	0.592	4.506
0.459	6.365	0.370	5.037	0.400	4.682
0.474	4.969	0.353	3.878	0.317	3.608
0.175	3.046	0.152	2.417	0.144	2.251
0.176	1.799	0.152	1.417	0.145	1.320
1.331	9.717	0.971	7.966	0.875	7.411
1.016	6.930	0.729	5.625	0.659	5.244
0.515	7.199	0.403	5.877	0.459	5.302
0.498	5.703 3.515	0.374 0.155	4.515 2.842	0.342 0.148	4.121 2.584
0.182	2.089	0.156	1.671	0.148	1.494
1.336	9.985	0.130	7.930	0.887	7.269
1.052	7.075	0.736	5.606	0.661	5.152
0.507	5.905	0.373	4.634	0.340	4.180
0.182	3.624	0.155	2.857	0.148	2.625
1.181	8.953	0.866	7.043	0.785	6.161
0.917	6.347	0.666	4.956	0.602	4.332
0.477	6.472	0.366	5.073	0.422	4.396
0.447	5.222	0.341	3.961	0.314	3.419
0.171	3.213 1.906	0.149	2.452 1.437	0.142 0.143	2.190 1.278
1.365	10.319	0.149	8.009	0.143	6.939
1.079	7.270	0.752	5.640	0.670	4.894
0.546	7.587	0.407	5.840	0.472	5.062
0.513	6.042	0.377	4.617	0.342	4.008
0.182	3.726	0.155	2.848	0.148	2.541
0.183	2.202	0.156	1.672	0.148	1.492
1.477	11.601	1.070	9.015	0.963	7.784
1.169	8.116	0.826	6.293	0.738	5.439
0.600	8.426	0.448	6.472	0.517	5.578
0.544	6.691	0.400	5.123	0.362	4.448
0.186	4.170	0.157	3.183	0.150	2.822
0.187	2.452 10.146	0.158	1.857	0.150	1.651
11 /119	10.140	0.524	7.727	0.604	6.599

Suburban SUM	Interurban SUM	Highway SUM
	ecific external co	
cent/km	cent/km	cent/km
3.6	5.5	5.5
3.5	3.3	3.6
2.3	2.3	2.5
1.8	1.7	1.8
1.1	1.1	1.2
0.7	0.7	0.7
6.0	5.4	5.6
3.6	3.3	3.3
2.9	2.5	2.4
1.7	1.5	1.6
1.1	1.0	1.0
6.7	5.8	5.8 3.5
4.1	3.5	3.4
3.3	2.7	2.6
2.0	1.7	1.6
8.6	7.1	6.8
5.2	4.2	4.0
5.1 4.3	4.2 3.4	3.1
2.5	2.0	1.9
1.5	1.2	1.2
9.3	7.4	6.9
6.6	5.2	4.9
6.5 5.4	5.2 4.2	4.9 3.9
3.1	2.5	2.3
1.9	1.5	1.4
9.8	7.8	7.2
7.0	5.5	5.1
6.8 5.4	5.4	5.1 3.9
3.2	2.6	2.4
2.0	1.6	1.5
11.0	8.9	8.3
7.9	6.4	5.9
7.7	6.3	5.8
6.2 3.7	3.0	4.5 2.7
2.3	1.8	1.6
11.3	8.9	8.2
8.1	6.3	5.8
6.4	5.0	4.5
3.8	7.9	6.9
7.3	5.6	4.9
6.9	5.4	4.8
5.7	4.3	3.7
3.4	2.6	2.3
2.1 11.7	9.0	7.8
8.3	6.4	5.6
8.1	6.2	5.5
6.6	5.0	4.3
3.9	3.0	2.7
2.4 13.1	1.8	1.6 8.7
9.3	7.1	6.2
9.0	6.9	6.1
7.2	5.5	4.8
4.4	3.3	3.0
2.6 10.9	2.0 8.3	1.8 7.2
5.3	4.0	3.5

							Emiss	ions (gram	n/km)		
Sub	Subsector	Tech 2	First	Last	PM (urban)	PM (inter)	PM (highway)	PM (non-	NO _x (urban)	NO _x	NO _x (highway)
sector	Subsector	recii z	year	year	35 km/h	55 km/h	80 km/h	exhaust)	35 km/h	(inter) 55 km/h	80 km/h
ID						,					,
13 14	Gasoline >3.5t Diesel RT 3.5-7.5t	Conventional Conventional	0	9999 1993	0.400	0.400	0.400	0.060	4.500 4.427	7.500 4.351	7.500 4.894
14	Diesel RT 3.5-7.5t	Euro I	1994	1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Conventional Euro I	0 1994	1993 1996	0.391	0.273 0.161	0.248 0.148	0.060	8.414 4.989	7.702 4.616	8.114 4.790
15	Diesel RT 7.5–12t	Euro II	1997	2001	0.231	0.181	0.090	0.060	5.284	4.799	4.790
15	Diesel RT 7.5-12t	Euro III	2002	2006	0.105	0.071	0.064	0.060	4.188	3.656	3.585
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro IV Euro V	2007 2010	2009	0.020	0.013	0.011	0.060	2.544 1.503	2.280 1.347	2.313 1.330
16	Diesel RT 12-14 t	Conventional	0	1993	0.421	0.298	0.271	0.060	9.438	8.311	8.445
16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III	1997 2002	2001	0.109	0.087	0.100	0.060	6.009 4.913	5.199 4.029	5.076 3.844
16	Diesel RT 12-14 t	Euro IV	2007	2009	0.021	0.014	0.012	0.060	2.935	2.499	2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro II	1994 1997	1996 2001	0.337 0.137	0.232	0.205 0.112	0.060	7.173 7.724	5.985 6.335	5.769 6.058
17	Diesel RT 14-20t	Euro III	2002	2006	0.151	0.105	0.094	0.060	6.315	4.989	4.624
17	Diesel RT 14-20t	Euro IV	2007	2009	0.030	0.020	0.017	0.060	3.734	3.017	2.858
17 18	Diesel RT 14-20t Diesel RT 20-26t	Euro V Conventional	2010 0	2014 1993	0.030	0.020	0.017	0.060	2.240	1.786 10.579	1.681 9.899
18	Diesel RT 20–26t	Euro I	1994	1996	0.439	0.288	0.253	0.060	9.261	7.445	6.985
18	Diesel RT 20-26t	Euro II	1997	2001	0.183	0.136	0.152	0.060	9.856	7.830	7.311
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro III Euro IV	2002	2006	0.190	0.126	0.112	0.060	7.933 4.769	6.202 3.800	5.760 3.546
18	Diesel RT 20–26t	Euro V	2010	2014	0.030	0.023	0.020	0.060	2.840	2.250	2.096
19	Diesel RT 26-28t	Conventional	0	1993	0.613	0.431	0.384	0.060	13.891	11.154	10.394
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro II	1994 1997	1996 2001	0.458	0.307 0.145	0.269	0.060	9.774	7.811 8.136	7.278
19	Diesel RT 26–28t	Euro III	2002	2001	0.203	0.145	0.102	0.060	8.026	6.265	5.829
19	Diesel RT 26-28t	Euro IV	2007	2009	0.037	0.024	0.020	0.060	4.920	3.903	3.635
19 20	Diesel RT 26-28t Diesel RT 28-32t	Euro V Conventional	2010	2014 1993	0.038 0.678	0.024	0.020 0.426	0.060	2.905 15.696	2.290 12.868	2.133 11.970
20	Diesel RT 28-32t	Euro I	1994	1996	0.504	0.345	0.306	0.060	11.194	9.086	8.470
20	Diesel RT 28-32t	Euro II	1997	2001	0.226	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t Diesel RT 28-32t	Euro III Euro IV	2002	2006	0.217	0.148	0.130	0.060	9.211 5.677	7.293 4.590	6.656 4.173
20	Diesel RT 28-32t	Euro V	2010	2014	0.041	0.027	0.022	0.060	3.374	2.698	2.413
21	Diesel RT >32t	Conventional	0	1993	0.681	0.481	0.432	0.060	16.129	12.809	11.740
21 21	Diesel RT >32t Diesel RT >32t	Euro III	1994 2002	1996 2006	0.524	0.349 0.147	0.307	0.060	9.538	9.055 7.485	8.322 6.752
21	Diesel RT >32t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	5.853	4.616	4.240
24	Diesel TT/AT 28-34t	Conventional	0	1993	0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t	Euro II	1994 1997	1996 2001	0.449	0.309	0.274	0.060	10.252	8.006 8.195	6.997 7.100
24	Diesel TT/AT 28-34t		2002	2001	0.188	0.143	0.114	0.060	8.434	6.399	5.523
24	Diesel TT/AT 28-34t	Euro IV	2007	2009	0.035	0.022	0.019	0.060	5.190	3.961	3.537
24 25	Diesel TT/AT 28-34t Diesel TT/AT 34-40t		2010	2014 1993	0.035	0.023	0.019	0.060	3.078 16.667	2.321 12.937	2.064 11.208
25	Diesel TT/AT 34-40t		1994	1996	0.539	0.357	0.312	0.060	11.743	9.110	7.904
25	Diesel TT/AT 34-40t		1997	2001	0.243	0.166	0.202	0.060	12.255	9.433	8.176
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2002	2006	0.225	0.149 0.026	0.130	0.060	9.759 6.018	7.458 4.600	6.473 4.105
25	Diesel TT/AT 34–40t		2010	2009	0.041	0.026	0.022	0.060	3.557	2.700	2.410
26	Diesel TT/AT 40-50t	Conventional	0	1993	0.760	0.534	0.475	0.060	18.739	14.561	12.573
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		1994 1997	1996 2001	0.589	0.398 0.189	0.350 0.227	0.060	13.110	10.164 10.454	8.785 9.009
26	Diesel TT/AT 40-50t		2002	2001	0.242	0.169	0.227	0.060	10.808	8.275	7.184
26	Diesel TT/AT 40-50t	Euro IV	2007	2009	0.043	0.027	0.023	0.060	6.735	5.141	4.558
26 27	Diesel TT/AT 40-50t Diesel TT/AT 50-60t		2010 1997	2014	0.044	0.028	0.023	0.060	3.961 16.388	3.000 12.481	2.667 10.660
27	Diesel TT/AT 50-60t		2007	2001	0.049	0.231	0.275	0.060	8.166	6.177	5.397
-	, 22 200									·	

Subur	ban	Interu	rban	High	way	Suburban	Interurban	Н
РМ	NO _x	РМ	NO _x	PM	NO _x	SUM	SUM	
	ce	nt/gram per poll	utant per vehic	le		country sp	ecific external c	osts
3.724	1.615	3.724	1.615	3.724	1.615	cent/km	cent/km	ce
713	7.269	1.713	12.115	1.713	12.115	9.0	13.8	
634	7.151	1.259	7.028	1.179	7.906	8.8	8.3	
.766 .455	4.982	0.624 0.426	5.108 5.269	0.595	5.742 5.764	5.7 5.8	5.7 5.7	
474	5.312 4.156	0.398	3.879	0.442	4.175	4.6	4.3	
.271	2.521	0.255	2.468	0.250	2.723	2.8	2.7	
.272	1.489	0.255	1.431	0.250	1.579	1.8	1.7	
.680	13.592	1.241	12.442	1.146	13.107	15.3	13.7	
.084	8.060	0.823	7.457	0.774	7.737	9.1	8.3	
.594	8.536	0.524 0.490	7.752 5.905	0.559 0.463	7.882 5.792	9.1 7.4	8.3	
.615 .297	6.766 4.110	0.490	3.683	0.465	3.737	4.4	6.4 4.0	
.298	2.428	0.273	2.177	0.265	2.148	2.7	2.4	
792	15.246	1.335	13.426	1.233	13.641	17.0	14.8	
156	9.114	0.884	8.053	0.829	8.044	10.3	8.9	
629	9.707	0.549	8.398	0.596	8.200	10.3	8.9	
628	7.935	0.511	6.508	0.491	6.209	8.6	7.0	
303 358	4.741	0.277 1.691	4.037	0.269 1.535	3.911	5.0	4.3 18.0	
358 178	19.418 11.587	1.691	16.277 9.668	0.988	15.685 9.318	21.8 13.1	10.8	
735	12.477	0.638	10.234	0.642	9.786	13.2	10.9	
786	10.201	0.613	8.059	0.572	7.469	11.0	8.7	
335	6.031	0.296	4.874	0.285	4.617	6.4	5.2	
336	3.619	0.297	2.885	0.286	2.715	4.0	3.2	
376	21.305	1.741	17.088	1.593	15.990	23.7	18.8	
858 905	14.959	1.294	12.027	1.164	11.284	16.8	13.3	
905	15.921 12.814	0.731 0.694	12.648 10.019	0.789	9.305	16.8 13.7	13.4	
359	7.704	0.310	6.138	0.297	5.728	8.1	6.4	_
361	4.588	0.311	3.634	0.298	3.386	4.9	3.9	
508	22.439	1.829	18.018	1.653	16.790	24.9	19.8	
930	15.788	1.367	12.617	1.224	11.756	17.7	14.0	
948	16.608	0.764	13.143	0.826	12.217	17.6	13.9	:
979	12.964	0.729	10.120	0.655	9.415	13.9	10.8	
362 364	7.948 4.693	0.313	6.305 3.698	0.299	5.872 3.445	8.3 5.1	6.6 4.0	
750	25.355	2.007	20.786	1.809	19.336	28.1	22.8	
100	18.083	1.507	14.677	1.362	13.682	20.2	16.2	
065	18.783	0.832	15.334	0.948	13.833	19.8	16.2	
030	14.879	0.773	11.781	0.707	10.752	15.9	12.6	
373	9.170	0.321	7.414	0.305	6.741	9.5	7.7	
376 761	5.451	0.323	4.359	0.306	3.898	5.8	4.7	_
761 L73	26.053 18.460	2.014 1.521	20.691 14.627	1.834	18.965 13.443	28.8	22.7 16.1	- 2
047	15.407	0.771	12.091	0.703	10.907	16.5	12.9	
377	9.455	0.321	7.456	0.306	6.849	9.8	7.8	
141	23.360	1.790	18.377	1.623	16.075	25.8	20.2	
395	16.560	1.375	12.932	1.243	11.303	18.5	14.3	
985	16.886	0.756	13.238	0.873	11.469	17.9	14.0	_
924 353	13.624 8.383	0.704 0.307	10.336 6.398	0.650 0.294	8.921 5.713	14.5 8.7	6.7	
355 355	4.972	0.308	3.749	0.295	3.335	5.3	4.1	
320	26.923	2.030	20.897	1.828	18.105	29.7	22.9	-
29	18.969	1.554	14.716	1.385	12.768	21.2	16.3	
.28	19.796	0.842	15.238	0.975	13.207	20.9	16.1	1
061	15.765	0.779	12.047	0.707	10.456	16.8	12.8	1
376	9.722	0.320	7.431	0.305	6.630	10.1	7.8	
379 052	5.747 30.270	0.321 2.211	4.362 23.521	0.306 1.991	3.893 20.310	33.3	4.7 25.7	
115	21.177	1.706	16.419	1.526	14.191	23.6	18.1	
240	21.985	0.926	16.888	1.069	14.554	23.2	17.8	1
124	17.458	0.826	13.367	0.748	11.604	18.6	14.2	1
384	10.880	0.325	8.305	0.309	7.363	11.3	8.6	
387	6.398	0.326	4.846	0.310	4.308	6.8	5.2	
165 106	26.472	1.083	20.162	1.249	17.219	27.9	21.2	1
06	13.192	0.338	9.979	0.320	8.718	13.6	10.3	

77

							Emissi	ions (gram	ı/km)		
Curk	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400 0.278	0.400	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.009	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5–12t	Euro V	2010	2014	0.020	0.013	0.011	0.060	1.503	1.347	1.330
16	Diesel RT 12-14 t Diesel RT 12-14 t	Conventional Euro I	1994	1993 1996	0.421	0.298 0.177	0.271	0.060	9.438 5.642	8.311 4.985	8.445 4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16	Diesel RT 12-14 t	Euro III	2002	2006	0.109	0.077	0.072	0.060	4.913	4.029	3.844
16 17	Diesel RT 12-14 t Diesel RT 14-20t	Euro IV Conventional	2007	2009 1993	0.021	0.014	0.012	0.060	2.935 12.021	2.499 10.076	2.421 9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17	Diesel RT 14-20t	Euro II	1997	2001	0.137	0.111	0.112	0.060	7.724	6.335	6.058
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III Euro IV	2002	2006	0.151	0.105 0.020	0.094	0.060	6.315 3.734	4.989 3.017	<u>4.624</u> 2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	1004	1993	0.578	0.407	0.368	0.060	13.189	10.579	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994 1997	1996 2001	0.439	0.288	0.253 0.152	0.060	9.261 9.856	7.445 7.830	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18	Diesel RT 20–26t	Euro IV	2007	2009	0.036	0.023	0.020	0.060	4.769	3.800	3.546
18 19	Diesel RT 20-26t Diesel RT 26-28t	Euro V Conventional	2010	2014 1993	0.037	0.024	0.020	0.060	2.840 13.891	2.250 11.154	2.096
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2006	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t	Conventional	0	1993	0.678	0.479	0.426	0.060	15.696	12.868	11.970
20	Diesel RT 28-32t Diesel RT 28-32t	Euro II	1994 1997	1996 2001	0.504	0.345 0.163	0.306	0.060	11.194	9.086 9.492	8.470 8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t	Euro IV	2007	2009	0.040	0.026	0.022	0.060	5.677	4.590	4.173
20	Diesel RT 28-32t Diesel RT >32t	Euro V Conventional	2010	2014 1993	0.041	0.027 0.481	0.022	0.060	3.374 16.129	2.698 12.809	2.413 11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21	Diesel RT >32t	Euro III	2002	2006	0.221	0.147	0.129	0.060	9.538	7.485	6.752
21	Diesel RT >32t Diesel TT/AT 28-34t	Conventional	2007	2009 1993	0.041	0.026 0.421	0.022	0.060	5.853 14.461	4.616 11.377	4.240 9.952
24	Diesel TT/AT 28-34t		1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t		1997	2001	0.204	0.143	0.174	0.060	10.453	8.195	7.100
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		2002	2006	0.188	0.129	0.114	0.060	8.434 5.190	6.399 3.961	5.523 3.537
24	Diesel TT/AT 28-34t		2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25	Diesel TT/AT 34-40t		0	1993	0.697	0.485	0.431	0.060	16.667	12.937	11.208
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		1994 1997	1996 2001	0.539	0.357 0.166	0.312	0.060	11.743 12.255	9.110 9.433	7.904 8.176
25	Diesel TT/AT 34-40t		2002	2001	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25	Diesel TT/AT 34-40t		2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
25 26	Diesel TT/AT 34-40t Diesel TT/AT 40-50t		2010	2014 1993	0.042	0.026 0.534	0.022	0.060	3.557 18.739	2.700 14.561	2.410 12.573
26	Diesel TT/AT 40-50t		1994	1995	0.780	0.398	0.475	0.060	13.110	10.164	8.785
26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t	Euro III Euro IV	2002	2006	0.242	0.162 0.027	0.141	0.060	10.808 6.735	8.275 5.141	7.184 4.558
26	Diesel TT/AT 40-50t		2010	2009	0.043	0.027	0.023	0.060	3.961	3.000	2.667
27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

No. PM	Subur	ban	Interu	rban	High	wav	Suburban	Interurban	Highw
2.055		NO _x	PM	NO _x	PM	_	SUM	SUM	SUM
1960 6.725 1.510 6.609 1.414 7.436 8.7 8.1 8.8	4.466	1.519	4.466	1.519	4.466	1.519	cent/km	cent/km	cent/km
0.919	2.055	6.837	2.055	11.394	2.055	11.394	8.9	13.4	13.4
0.566 4.996 0.511 4.955 0.530 5.421 5.5 5.5 6.0 0.599 3.908 0.478 3.648 0.451 3.927 4.5 4.1 4.4 0.326 1.300 0.300 1.561 2.7 2.6 2.9 0.151 1.273 1.488 11.701 1.375 12.327 14.8 11.2 11.7 1.8 2.015 1.273 1.488 11.701 1.375 12.327 14.8 11.2 11.7 1.7 1.8 0.138 6.383 0.582 5.554 0.555 5.447 7.1 6.1 6.0 0.556 3.865 0.326 3.464 0.318 3.511 4.2 3.8 3.2 1.6 1.6 0.0 0.55 3.442 1.3 3.8 3.2 1.4 1.3 3.2 3.8 3.2 1.4 1.3 1.1 1.8 2.2 3.8 1.5 1.4 1.3 1.1									
0.569 3.908 0.478 3.648 0.451 3.927 4.5 4.1 4.4 0.326 1.400 0.306 1.346 0.300 1.485 1.7 1.7 1.8 1.2 1.3									
0.325 2.371 0.306 2.321 0.300 2.561 2.7 2.6 2.9						_			
1.000 7.580 0.987 7.013 0.929 7.277 14.8 13.2 13.7									
1.300									
0.713									
0.738 6.363 0.587 5.554 0.555 5.447 7.1 6.1 6.0 0.358 2.284 0.327 2.047 0.318 2.021 2.6 2.4 2.3 2.149 14.339 1.601 1.2627 1.478 11.2829 1.65 1.4.2 1.4.2 1.387 8.572 1.060 7.574 0.994 7.565 10.0 8.6 8.6 0.754 7.463 0.613 6.120 0.589 5.839 8.2 6.7 6.4 0.363 4.459 0.332 3.797 0.323 3.679 4.8 4.1 4.0 2.288 18.262 2.029 15.308 1.841 14.751 21.1 17.3 16.6 1.773 10.898 1.304 9.093 1.185 8.764 1.27 10.4 9.9 0.843 9.594 0.735 7.580 0.666 7.025 10.5 8.3 7.7 0.401									
0.356 3.865 0.326 3.464 0.318 3.515 2.021 2.6 2.4 2.3 2.3 2.149 14.339 1.601 12.627 1.478 12.829 16.5 14.2 14.3 1.387 1.601 12.627 1.478 12.829 16.5 14.2 14.3 1.387 1.501 12.627 1.478 12.829 16.5 14.2 14.3 1.387 1.501 1.505 1.000 1.565 1.42 14.3 1.387 1.501 1.505 1.000 1.565 1.42 14.3 1.387 1.505 1.000 1.565 1.791 1.000 1.565 1.791 1.000 1.									
1.149									
1.387					_				
0.754 9.130 0.658 7.899 0.715 7.712 9.9 8.6 8.4 0.363 4.459 0.332 3.797 0.322 3.679 4.8 4.1 4.0 2.828 18.262 2.029 15.308 1.841 1.4751 21.1 17.3 16.6 1.773 10.898 1.304 9.093 1.185 8.764 12.7 10.4 9.9 0.822 11.735 0.755 7.580 0.686 7.025 10.5 8.3 7.7 0.401 5.672 0.355 4.584 0.342 4.942 6.1 4.9 4.7 0.403 3.403 0.356 2.713 0.343 2.254 3.8 3.1 2.9 2.228 14.069 1.533 11.311 1.397 10.612 16.3 12.9 12.0 1.086 14.974 0.877 11.895 0.946 11.108 16.1 12.8 12.1 1.115 <									
0.754 7.463 0.613 6.120 0.589 5.839 4.8 2.67 6.4 0.363 4.459 0.322 3.679 4.8 4.1 4.0 2.828 18.262 2.029 15.308 1.841 14.751 21.1 1.73 1.66 1.773 10.899 1.304 9.093 1.185 8.764 12.7 10.4 9.9 0.882 11.735 0.765 9.625 0.770 9.203 12.6 10.4 10.0 0.943 9.594 0.735 7.580 0.686 7.025 10.5 8.3 7.7 0.401 5.672 0.355 4.584 0.342 4.342 6.1 4.9 4.7 0.403 3.403 0.356 2.713 0.343 2.2554 3.8 3.1 2.9 2.228 14.069 1.553 11.311 1.397 10.612 16.3 12.9 12.0 1.086 14.974 0.877 <									
0.363 4.459 0.332 3.797 0.323 3.679 4.8 4.1 4.06 1.773 10.898 1.304 9.093 1.185 8.764 12.7 10.4 9.9 0.882 11.735 0.765 9.625 0.770 9.203 12.6 10.4 10.0 0.943 9.594 0.735 7.580 0.686 7.025 10.5 8.3 7.7 0.401 5.672 0.355 4.584 0.342 4.342 6.1 4.9 4.7 0.403 3.403 0.356 2.713 0.343 2.554 3.8 3.1 2.9 2.258 14.069 1.553 11.311 1.397 10.612 16.3 12.9 18.2 16.9 1.086 14.974 0.877 11.895 0.946 11.108 16.1 12.8 12.1 1.115 12.051 0.832 0.766 8.751 13.2 10.3 10.4 1.411									
1,773									
0.882 11.735 0.765 9.625 0.770 9.203 12.6 10.4 10.0 0.943 9.594 0.735 7.580 0.686 7.025 10.5 8.3 7.7 0.401 5.672 0.355 4.584 0.342 4.342 6.1 4.9 4.7 0.403 3.403 0.355 4.584 0.342 4.342 6.1 4.9 4.7 2.288 1.4069 1.553 11.311 1.397 10.612 16.3 11.29 12.0 1.086 14.974 0.877 11.895 0.946 11.108 16.1 12.8 12.1 1.115 12.051 0.832 9.423 0.766 8.751 13.2 10.3 9.5 0.431 7.246 0.372 5.772 0.356 5.387 7.7 6.1 5.7 0.433 4.315 0.373 3.418 0.357 3.185 4.7 3.8 3.5 3.08									
0.943 9.594 0.735 7.580 0.686 7.025 10.5 8.3 7.7 0.401 5.672 0.3556 2.713 0.342 4.342 6.1 4.9 4.7 0.403 3.403 0.356 2.713 0.342 2.554 3.8 3.1 2.9 2.828 14.069 1.553 11.311 1.397 10.612 16.3 12.9 12.0 1.086 14.974 0.877 11.895 0.946 11.108 16.1 12.8 12.1 1.115 12.051 0.832 9.423 0.766 8.751 13.2 10.3 9.5 0.431 7.246 0.372 5.772 0.356 5.387 7.7 6.1 5.7 0.433 4.315 0.373 3.418 0.357 3.185 4.7 3.8 3.5 3.008 21.104 2.193 16.945 1.982 15.791 24.1 19.1 1.8 2.315 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td></t<>									_
0.401 5.672 0.355 4.584 0.342 4.342 6.1 4.9 4.7 0.403 3.343 0.356 2.713 0.343 2.554 3.8 3.1 2.9 2.228 14.069 1.553 11.311 1.397 10.612 16.3 12.9 12.0 1.106 14.974 0.877 11.895 0.946 11.108 16.1 12.8 12.1 1.115 12.051 0.832 9.423 0.766 8.751 13.2 10.3 9.5 0.431 7.246 0.372 5.772 0.356 5.367 7.7 6.1 5.7 0.433 4.315 0.373 3.418 0.357 3.185 4.7 3.8 3.5 3.008 21.104 2.193 16.945 1.992 15.791 4.7 1.8 3.5 3.15 1.488 1.639 11.866 1.468 11.057 17.2 13.5 12.5 1.174 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
0.403 3.403 0.356 2.713 0.343 2.554 3.8 3.1 2.9 2.228 14.069 1.553 11.311 1.397 10.612 16.3 12.9 12.0 1.086 14.974 0.877 11.895 0.946 11.108 16.1 12.8 12.9 1.415 12.051 0.832 9.423 0.766 8.751 13.2 10.3 9.5 0.431 7.246 0.372 5.772 0.356 5.387 7.7 6.1 5.7 0.431 7.246 0.372 5.772 0.356 5.387 7.7 6.1 5.7 0.433 4.315 0.373 3.418 0.357 1.86 1.86 1.86 11.668 11.06 1.168 11.33 1.5 1.7 1.1.89 1.1.89 1.1.17 1.1.89 1.1.89 11.86 11.68 11.3.3 12.5 1.1.17 1.1.89 1.1.5 1.1.18 1.1.19 1.1.18 1.1.19									
1.086 14.974 0.877 11.895 0.946 11.108 16.1 12.8 12.1	0.403								
1.086									
1.115 12.051 0.832 9.423 0.766 8.751 13.2 10.3 9.5 0.431 7.246 0.372 5.772 0.356 5.387 7.7 6.1 5.7 0.433 4.315 0.373 3.418 0.357 3.185 4.7 3.8 3.5 3.008 21.104 2.193 16.945 1.982 15.791 24.1 19.1 17.8 2.315 14.848 1.639 11.866 1.468 11.057 17.2 13.5 12.5 1.174 12.193 0.874 9.517 0.786 8.855 13.4 10.4 9.6 0.435 7.475 0.376 5.930 0.358 5.523 7.9 6.3 5.9 0.437 4.414 0.377 3.478 0.359 3.240 4.9 3.9 3.6 3.298 23.846 2.407 19.549 2.169 18.185 27.1 22.0 20.4 2.519									
0.431 7.246 0.372 5.772 0.356 5.387 7.7 6.1 5.7 0.433 4.315 0.373 3.418 0.357 3.185 4.7 3.8 3.5 3.008 21.104 2.193 16.945 1.982 15.791 24.1 19.1 17.8 2.315 14.848 1.639 11.866 1.468 11.057 17.2 13.5 12.5 1.174 12.193 0.874 9.517 0.786 8.855 13.4 10.4 9.6 0.435 7.475 0.376 5.930 0.358 5.523 7.9 6.3 5.9 0.437 4.414 0.377 3.478 0.359 3.240 4.9 3.9 3.6 3.298 23.846 2.407 19.549 2.169 18.185 27.1 22.0 2.0 1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235									
3.008 21.104 2.193 16.945 1.982 15.791 24.1 19.1 17.8 2.315 14.848 1.639 11.866 1.468 11.057 17.2 13.5 12.5 1.137 15.620 0.917 12.360 0.991 11.490 16.8 13.3 12.5 1.174 12.193 0.874 9.517 0.786 8.855 13.4 10.4 9.6 0.435 7.475 0.376 5.930 0.358 5.523 7.9 6.3 5.9 0.437 4.414 0.377 3.478 0.359 3.240 4.9 3.9 3.6 3.298 23.846 2.407 19.549 2.169 18.185 27.1 22.0 20.4 1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.44									
2.315 14.848 1.639 11.866 1.468 11.057 17.2 13.5 12.5 1.137 15.620 0.917 12.360 0.991 11.490 16.8 13.3 12.5 1.174 12.193 0.874 9.517 0.786 8.855 13.4 10.4 9.6 0.435 7.475 0.376 5.930 0.358 5.523 7.9 6.3 5.9 0.437 4.414 0.377 3.478 0.359 3.240 4.9 3.9 3.6 3.298 23.846 2.407 19.549 2.169 18.185 27.1 22.0 20.4 2.519 17.007 1.807 13.804 1.633 12.868 19.5 15.6 14.5 1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.44		4.315		3.418		3.185	4.7	3.8	3.5
1.137 15.620 0.917 12.360 0.991 11.490 16.8 13.3 12.5 1.174 12.193 0.874 9.517 0.786 8.5523 7.9 6.3 5.9 0.435 7.475 0.376 5.930 0.358 5.523 7.9 6.3 5.9 0.437 4.414 0.377 3.478 0.359 3.240 4.9 3.9 3.6 3.298 23.846 2.407 19.549 2.169 18.185 27.1 22.0 20.4 2.519 17.007 1.807 13.804 1.633 12.868 19.5 15.6 14.5 1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.448 8.625 0.385 6.973 0.366 6.340 9.1 7.4 6.7 0.451									
1.174 12.193 0.874 9.517 0.786 8.855 13.4 10.4 9.6 0.435 7.475 0.376 5.930 0.358 5.523 7.9 6.3 5.9 0.437 4.414 0.377 3.478 0.359 3.240 4.9 3.9 3.6 3.298 23.846 2.407 19.549 2.169 18.185 27.1 22.0 20.4 2.519 17.007 1.807 13.804 1.633 12.868 19.5 15.6 14.5 1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.448 8.625 0.387 4.100 0.367 3.666 5.6 4.5 4.0 3.312 24.503 2.416 19.460 2.199 17.836 27.8 21.9 20.0 2.607									_
0.435 7.475 0.376 5.930 0.358 5.523 7.9 6.3 5.9 0.437 4.414 0.377 3.478 0.359 3.240 4.9 3.9 3.6 3.298 23.846 2.407 19.549 2.169 18.185 27.1 22.0 20.4 2.519 17.007 1.807 13.804 1.633 12.868 19.5 15.6 14.5 1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.448 8.625 0.385 6.973 0.366 6.340 9.1 7.4 6.7 0.451 5.126 0.387 4.100 0.367 3.666 5.6 4.5 4.0 3.312 24.503 2.416 19.460 2.198 12.643 20.0 15.6 14.3 1.256									
3.298 23.846 2.407 19.549 2.169 18.185 27.1 22.0 20.4 2.519 17.007 1.807 13.804 1.633 12.868 19.5 15.6 14.5 1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.448 8.625 0.385 6.973 0.366 6.340 9.1 7.4 6.7 0.451 5.126 0.387 4.100 0.367 3.666 5.6 4.5 4.0 3.312 24.503 2.416 19.460 2.199 17.836 27.8 21.9 20.0 2.607 17.361 1.825 13.757 1.638 12.643 20.0 15.6 14.3 1.256 14.490 0.925 11.372 0.843 10.258 15.7 12.3 11.1 0									
2.519 17.007 1.807 13.804 1.633 12.868 19.5 15.6 14.5 1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.448 8.625 0.385 6.973 0.366 6.340 9.1 7.4 6.7 0.451 5.126 0.387 4.100 0.367 3.666 5.6 4.5 4.0 2.607 17.361 1.825 13.757 1.638 12.643 20.0 15.6 14.3 1.256 14.490 0.925 11.372 0.843 10.258 15.7 12.3 11.1 0.452 8.892 0.385 7.012 0.367 6.442 9.3 7.4 6.8 2.928 21.970 2.147 17.284 1.947 15.119 24.9 19.4 17.1 2.273 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1.277 17.665 0.998 14.421 1.137 13.010 18.9 15.4 14.1 1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.448 8.625 0.385 6.973 0.366 6.340 9.1 7.4 6.7 0.451 5.126 0.387 4.100 0.367 3.666 5.6 4.5 4.0 3.312 24.503 2.416 19.460 2.199 17.836 27.8 21.9 20.0 2.607 17.361 1.825 13.757 1.638 12.643 20.0 15.6 14.3 1.256 14.490 0.925 11.372 0.843 10.258 15.7 12.3 11.1 0.452 8.892 0.385 7.012 0.367 6.442 9.3 7.4 6.8 2.928 21.970 2.147 17.284 1.947 15.119 24.9 19.4 17.1 2.273 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1.235 13.994 0.927 11.080 0.848 10.112 15.2 12.0 11.0 0.448 8.625 0.385 6.973 0.366 6.340 9.1 7.4 6.7 0.451 5.126 0.387 4.100 0.367 3.666 5.6 4.5 4.0 3.312 24.503 2.416 19.460 2.199 17.836 27.8 21.9 20.0 2.607 17.361 1.825 13.757 1.638 12.643 20.0 15.6 14.3 1.256 14.490 0.925 11.372 0.843 10.258 15.7 12.3 11.1 0.452 8.892 0.385 7.012 0.367 6.442 9.3 7.4 6.8 2.928 21.970 2.147 17.284 1.947 15.119 24.9 19.4 17.1 2.273 15.574 1.649 12.162 1.491 10.630 17.8 13.8 12.1 1.181 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>						_			
0.451 5.126 0.387 4.100 0.367 3.666 5.6 4.5 4.0 3.312 24.503 2.416 19.460 2.199 17.836 27.8 21.9 20.0 2.607 17.361 1.825 13.757 1.638 12.643 20.0 15.6 14.3 1.256 14.490 0.925 11.372 0.843 10.258 15.7 12.3 11.1 0.452 8.892 0.385 7.012 0.367 6.442 9.3 7.4 6.8 2.928 21.970 2.147 17.284 1.947 15.119 24.9 19.4 17.1 1.181 15.881 0.907 12.450 1.047 10.787 17.1 13.4 11.8 1.108 12.813 0.844 9.721 0.779 8.390 13.9 10.6 9.2 0.424 7.885 0.368 6.017 0.352 5.373 8.3 6.4 5.7 3.383									
3.312 24.503 2.416 19.460 2.199 17.836 27.8 21.9 20.0 2.607 17.361 1.825 13.757 1.638 12.643 20.0 15.6 14.3 1.256 14.490 0.925 11.372 0.843 10.258 15.7 12.3 11.1 0.452 8.892 0.385 7.012 0.367 6.442 9.3 7.4 6.8 2.928 21.970 2.147 17.284 1.947 15.119 24.9 19.4 17.1 2.273 15.574 1.649 12.162 1.491 10.630 17.8 13.8 12.1 1.181 15.881 0.907 12.450 1.047 10.787 17.1 13.4 11.8 1.181 15.881 0.907 12.450 1.047 10.787 17.1 13.4 11.8 1.182 1.283 0.844 9.721 0.779 8.390 13.9 10.6 9.2 <td< td=""><td>0.448</td><td></td><td></td><td>6.973</td><td></td><td>6.340</td><td>9.1</td><td></td><td></td></td<>	0.448			6.973		6.340	9.1		
2.607 17.361 1.825 13.757 1.638 12.643 20.0 15.6 14.3 1.256 14.490 0.925 11.372 0.843 10.258 15.7 12.3 11.1 0.452 8.892 0.385 7.012 0.367 6.442 9.3 7.4 6.8 2.928 21.970 2.147 17.284 1.947 15.119 24.9 19.4 17.1 2.273 15.574 1.649 12.162 1.491 10.630 17.8 13.8 12.1 1.181 15.881 0.907 12.450 1.047 10.787 17.1 13.4 11.8 1.108 12.813 0.844 9.721 0.779 8.390 13.9 10.6 9.2 0.426 4.676 0.370 3.526 0.354 3.136 5.1 3.9 3.5 3.383 25.321 2.435 19.654 2.193 17.027 28.7 22.1 19.2 2.67									
1.256 14.490 0.925 11.372 0.843 10.258 15.7 12.3 11.1 0.452 8.892 0.385 7.012 0.367 6.442 9.3 7.4 6.8 2.928 21.970 2.147 17.284 1.947 15.119 24.9 19.4 17.1 2.273 15.574 1.649 12.162 1.491 10.630 17.8 13.8 12.1 1.181 15.881 0.907 12.450 1.047 10.787 17.1 13.4 11.8 1.108 12.813 0.844 9.721 0.779 8.390 13.9 10.6 9.2 0.424 7.885 0.368 6.017 0.352 5.373 8.3 6.4 5.7 0.426 4.676 0.370 3.526 0.354 3.136 5.1 3.9 3.5 2.674 17.840 1.864 13.840 1.661 12.009 20.5 15.7 13.7 1.353									
0.452 8.892 0.385 7.012 0.367 6.442 9.3 7.4 6.8 2.928 21.970 2.147 17.284 1.947 15.119 24.9 19.4 17.1 2.273 15.574 1.649 12.162 1.491 10.630 17.8 13.8 12.1 1.181 15.881 0.907 12.450 1.047 10.787 17.1 13.4 11.8 1.108 12.813 0.844 9.721 0.779 8.390 13.9 10.6 9.2 0.424 7.885 0.368 6.017 0.352 5.373 8.3 6.4 5.7 0.426 4.676 0.370 3.526 0.354 3.136 5.1 3.9 3.5 3.383 25.321 2.435 19.654 2.193 17.027 28.7 22.1 19.2 2.674 17.840 1.864 13.840 1.661 12.009 20.5 15.7 13.7 1.272									
2.273 15.574 1.649 12.162 1.491 10.630 17.8 13.8 12.1 1.181 15.881 0.907 12.450 1.047 10.787 17.1 13.4 11.8 1.108 12.813 0.844 9.721 0.779 8.390 13.9 10.6 9.2 0.424 7.885 0.368 6.017 0.352 5.373 8.3 6.4 5.7 0.426 4.676 0.370 3.526 0.354 3.136 5.1 3.9 3.5 3.383 25.321 2.435 19.654 2.193 17.027 28.7 22.1 19.2 2.674 17.840 1.864 13.840 1.661 12.009 20.5 15.7 13.7 1.353 18.618 1.010 14.331 1.170 12.421 20.0 15.3 13.6 1.272 14.826 0.935 11.330 0.848 9.834 16.1 12.3 10.7 0.454									
1.181 15.881 0.907 12.450 1.047 10.787 17.1 13.4 11.8 1.108 12.813 0.844 9.721 0.779 8.390 13.9 10.6 9.2 0.424 7.885 0.368 6.017 0.352 5.373 8.3 6.4 5.7 0.426 4.676 0.370 3.526 0.354 3.136 5.1 3.9 3.5 3.383 25.321 2.435 19.654 2.193 17.027 28.7 22.1 19.2 2.674 17.840 1.864 13.840 1.661 12.009 20.5 15.7 13.7 1.353 18.618 1.010 14.331 1.170 12.421 20.0 15.3 13.6 1.272 14.826 0.935 11.330 0.848 9.834 16.1 12.3 10.7 0.451 9.143 0.384 6.989 0.366 6.236 9.6 7.4 6.6 0.454									
1.108 12.813 0.844 9.721 0.779 8.390 13.9 10.6 9.2 0.424 7.885 0.368 6.017 0.352 5.373 8.3 6.4 5.7 0.426 4.676 0.370 3.526 0.354 3.136 5.1 3.9 3.5 3.383 25.321 2.435 19.654 2.193 17.027 28.7 22.1 19.2 2.674 17.840 1.864 13.840 1.661 12.009 20.5 15.7 13.7 1.353 18.618 1.010 14.331 1.170 12.421 20.0 15.3 13.6 1.272 14.826 0.935 11.330 0.848 9.834 16.1 12.3 10.7 0.451 9.143 0.384 6.989 0.366 6.236 9.6 7.4 6.6 0.454 5.405 0.385 4.102 0.367 3.661 5.9 4.5 4.0 3.661									
0.424 7.885 0.368 6.017 0.352 5.373 8.3 6.4 5.7 0.426 4.676 0.370 3.526 0.354 3.136 5.1 3.9 3.5 3.383 25.321 2.435 19.654 2.193 17.027 28.7 22.1 19.2 2.674 17.840 1.864 13.840 1.661 12.009 20.5 15.7 13.7 1.353 18.618 1.010 14.331 1.170 12.421 20.0 15.3 13.6 1.272 14.826 0.935 11.330 0.848 9.834 16.1 12.3 10.7 0.451 9.143 0.384 6.989 0.366 6.236 9.6 7.4 6.6 0.454 5.405 0.385 4.102 0.367 3.661 5.9 4.5 4.0 3.661 28.469 2.652 22.122 2.387 19.102 32.1 24.8 21.5 2.897									
0.426 4.676 0.370 3.526 0.354 3.136 5.1 3.9 3.5 3.383 25.321 2.435 19.654 2.193 17.027 28.7 22.1 19.2 2.674 17.840 1.864 13.840 1.661 12.009 20.5 15.7 13.7 1.353 18.618 1.010 14.331 1.170 12.421 20.0 15.3 13.6 1.272 14.826 0.935 11.330 0.848 9.834 16.1 12.3 10.7 0.451 9.143 0.384 6.989 0.366 6.236 9.6 7.4 6.6 0.454 5.405 0.385 4.102 0.367 3.661 5.9 4.5 4.0 3.661 28.469 2.652 22.122 2.387 19.102 32.1 24.8 21.5 2.897 19.917 2.046 15.442 1.830 13.346 22.8 17.5 15.2 1.487 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
2.674 17.840 1.864 13.840 1.661 12.009 20.5 15.7 13.7 1.353 18.618 1.010 14.331 1.170 12.421 20.0 15.3 13.6 1.272 14.826 0.935 11.330 0.848 9.834 16.1 12.3 10.7 0.451 9.143 0.384 6.989 0.366 6.236 9.6 7.4 6.6 0.454 5.405 0.385 4.102 0.367 3.661 5.9 4.5 4.0 3.661 28.469 2.652 22.122 2.387 19.102 32.1 24.8 21.5 2.897 19.917 2.046 15.442 1.830 13.346 22.8 17.5 15.2 1.487 20.677 1.110 15.883 1.282 13.687 22.2 17.0 15.0 1.348 16.419 0.990 12.571 0.897 10.914 17.8 13.6 11.8 0.	0.426		0.370	3.526			5.1	3.9	
1.353 18.618 1.010 14.331 1.170 12.421 20.0 15.3 13.6 1.272 14.826 0.935 11.330 0.848 9.834 16.1 12.3 10.7 0.451 9.143 0.384 6.989 0.366 6.236 9.6 7.4 6.6 0.454 5.405 0.385 4.102 0.367 3.661 5.9 4.5 4.0 3.661 28.469 2.652 22.122 2.387 19.102 32.1 24.8 21.5 2.897 19.917 2.046 15.442 1.830 13.346 22.8 17.5 15.2 1.487 20.677 1.110 15.883 1.282 13.687 22.2 17.0 15.0 1.348 16.419 0.990 12.571 0.897 10.914 17.8 13.6 11.8 0.461 10.232 0.390 7.810 0.371 6.925 10.7 8.2 7.3 0.464<									
1.272 14.826 0.935 11.330 0.848 9.834 16.1 12.3 10.7 0.451 9.143 0.384 6.989 0.366 6.236 9.6 7.4 6.6 0.454 5.405 0.385 4.102 0.367 3.661 5.9 4.5 4.0 3.661 28.469 2.652 22.122 2.387 19.102 32.1 24.8 21.5 2.897 19.917 2.046 15.442 1.830 13.346 22.8 17.5 15.2 1.487 20.677 1.110 15.883 1.282 13.687 22.2 17.0 15.0 1.348 16.419 0.990 12.571 0.897 10.914 17.8 13.6 11.8 0.461 10.232 0.390 7.810 0.371 6.925 10.7 8.2 7.3 0.464 6.017 0.392 4.557 0.372 4.051 6.5 4.9 4.4 1.757									
0.451 9.143 0.384 6.989 0.366 6.236 9.6 7.4 6.6 0.454 5.405 0.385 4.102 0.367 3.661 5.9 4.5 4.0 3.661 28.469 2.652 22.122 2.387 19.102 32.1 24.8 21.5 2.897 19.917 2.046 15.442 1.830 13.346 22.8 17.5 15.2 1.487 20.677 1.110 15.883 1.282 13.687 22.2 17.0 15.0 1.348 16.419 0.990 12.571 0.897 10.914 17.8 13.6 11.8 0.461 10.232 0.390 7.810 0.371 6.925 10.7 8.2 7.3 0.464 6.017 0.392 4.557 0.372 4.051 6.5 4.9 4.4 1.757 24.897 1.299 18.962 1.498 16.194 26.7 20.3 17.7									
3.661 28.469 2.652 22.122 2.387 19.102 32.1 24.8 21.5 2.897 19.917 2.046 15.442 1.830 13.346 22.8 17.5 15.2 1.487 20.677 1.110 15.883 1.282 13.687 22.2 17.0 15.0 1.348 16.419 0.990 12.571 0.897 10.914 17.8 13.6 11.8 0.461 10.232 0.390 7.810 0.371 6.925 10.7 8.2 7.3 0.464 6.017 0.392 4.557 0.372 4.051 6.5 4.9 4.4 1.757 24.897 1.299 18.962 1.498 16.194 26.7 20.3 17.7									
2.897 19.917 2.046 15.442 1.830 13.346 22.8 17.5 15.2 1.487 20.677 1.110 15.883 1.282 13.687 22.2 17.0 15.0 1.348 16.419 0.990 12.571 0.897 10.914 17.8 13.6 11.8 0.461 10.232 0.390 7.810 0.371 6.925 10.7 8.2 7.3 0.464 6.017 0.392 4.557 0.372 4.051 6.5 4.9 4.4 1.757 24.897 1.299 18.962 1.498 16.194 26.7 20.3 17.7	0.454								_
1.487 20.677 1.110 15.883 1.282 13.687 22.2 17.0 15.0 1.348 16.419 0.990 12.571 0.897 10.914 17.8 13.6 11.8 0.461 10.232 0.390 7.810 0.371 6.925 10.7 8.2 7.3 0.464 6.017 0.392 4.557 0.372 4.051 6.5 4.9 4.4 1.757 24.897 1.299 18.962 1.498 16.194 26.7 20.3 17.7									
1.348 16.419 0.990 12.571 0.897 10.914 17.8 13.6 11.8 0.461 10.232 0.390 7.810 0.371 6.925 10.7 8.2 7.3 0.464 6.017 0.392 4.557 0.372 4.051 6.5 4.9 4.4 1.757 24.897 1.299 18.962 1.498 16.194 26.7 20.3 17.7									
0.461 10.232 0.390 7.810 0.371 6.925 10.7 8.2 7.3 0.464 6.017 0.392 4.557 0.372 4.051 6.5 4.9 4.4 1.757 24.897 1.299 18.962 1.498 16.194 26.7 20.3 17.7									
0.464 6.017 0.392 4.557 0.372 4.051 6.5 4.9 4.4 1.757 24.897 1.299 18.962 1.498 16.194 26.7 20.3 17.7									
<u> </u>									
	0.48/	12.40/	0.406	9.385	0.384	δ.199	12.9	9.8	გ.ხ

Second S												
Subsector												
Second S	Sub	Subsector	Tech 2	First	Last							NO _x (highway)
13									•			80 km/h
14 Diesel RT 3.5-7.55 Conventional 0 1993 0.379 0.278 0.257 0.060 4.427 4.351 3.141 14 Diesel RT 3.5-7.55 Euro I 1997 2001 0.062 0.054 0.059 0.060 3.888 3.262 3.141 14 Diesel RT 3.5-7.55 Euro III 2097 2000 0.067 0.047 0.041 0.060 2.573 3.262 3.141 14 Diesel RT 3.5-7.55 Euro III 2007 2009 0.067 0.047 0.041 0.060 2.573 3.262 3.141 14 Diesel RT 3.5-7.55 Euro IV 2007 2009 0.013 0.008 0.007 0.060 0.525 1.528 1.528 1.141 14 Diesel RT 3.5-7.55 Euro V 2010 2014 0.013 0.009 0.007 0.060 0.522 0.068 0.001 1.511 1.528 1.142		Caralina & 2 Et	Campantianal		0000	0.400	0.400	0.400	0.060		7.500	7.500
14 Diesel RT 3.5-7.5t Euro I 1994 1996 0.146 0.107 0.100 0.060 3.084 3.162 3.1 14 Diesel RT 3.5-7.5t Euro II 2002 2006 0.067 0.044 0.060 2.573 2.401 2.1 14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.031 0.008 0.007 0.060 1.516 1.528 1.1 14 Diesel RT 3.5-7.5t Euro IV 2010 2014 0.013 0.009 0.007 0.060 0.922 0.886 0.515 0.5												7.500 4.894
Diesel RT 3.5-7.5K Euro IV 2007 2009 0.067 0.047 0.041 0.060 2.573 2.401 2.1	14	Diesel RT 3.5-7.5t			1996	0.146	0.107	0.100	0.060	3.084	3.162	3.555
14 Diesel RT 3.5-7.5t Euro IV 2007 2009 0.013 0.008 0.007 0.060 1.561 1.528 1.14 Diesel RT 7.5-121 Euro IV 2010 2014 0.013 0.009 0.007 0.060 0.925 0.866 0.05 Diesel RT 7.5-1212 Euro II 1994 1996 0.231 0.161 0.148 0.060 4.948 4.161 4.15 Diesel RT 7.5-1212 Euro II 1997 2001 0.100 0.081 0.090 0.060 5.284 4.799 4.15 Diesel RT 7.5-1212 Euro III 2002 2006 0.105 0.017 0.064 0.060 4.184 3.565 3.15 Diesel RT 7.5-1212 Euro IV 2007 2009 0.020 0.013 0.011 0.060 1.561 1.378 3.656 3.15 Diesel RT 7.5-1212 Euro V 2007 2009 0.020 0.013 0.011 0.060 1.561 1.378 3.656 3.15 Diesel RT 7.5-1212 Euro V 2007 2009 0.020 0.013 0.011 0.060 1.561 1.378 3.656 3.15 Diesel RT 7.5-1214 Euro II 2007 2009 0.020 0.013 0.011 0.060 1.560 1.347 1.35 1.												3.568
15 Diesel RT 13-57-51 Euro V 2010 2014 0.013 0.099 0.007 0.060 0.922 0.886 0.51												2.585 1.686
Diesel RT 7.5-12t Euro I		Diesel RT 3.5-7.5t	Euro V			0.013		0.007	0.060	0.922	0.886	0.978
												8.114 4.790
Diesel RT J-5-12t Euro V 2007 2009 0.020 0.013 0.011 0.060 2.544 2.280 2.25												4.879
15 Diesel RT 12-14 Conventional 0.193 0.421 0.020 0.013 0.011 0.060 1.503 1.347 1.346 1.506 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506 1.503 1.347 1.346 1.506												3.585
16 Diesel RT 12-14 t Euro II 1994 1996 0.251 0.177 0.163 0.066 9.438 8.311 8.16 Diesel RT 12-14 t Euro II 1997 2001 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro III 2002 2006 0.109 0.087 0.100 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro III 2002 2006 0.109 0.087 0.010 0.060 6.009 5.199 5.15 16 Diesel RT 12-14 t Euro IV 2007 2009 0.021 0.014 0.012 0.060 2.935 2.499 2.2 17 Diesel RT 14-20t Euro II 1994 1996 0.337 0.322 0.060 0.060 2.735 2.499 2.2 17 Diesel RT 14-20t Euro II 1997 2001 0.137 0.032 0.060 7.173 5.985 5.19 17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 6.335 6.17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 6.335 6.17 Diesel RT 14-20t Euro III 2002 2006 0.151 0.050 0.020 0.017 0.060 6.315 4.301 7.724 6.335 6.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 6.315 4.301 7.724 6.335 6.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.10 4.												2.313 1.330
16												8.445
16	16	Diesel RT 12-14 t	Euro I	1994	1996	0.251	0.177	0.163	0.060	5.642	4.985	4.980
Diesel RT 12-14 t												5.076
To Diesel RT 14-20t Euro I 1994 1996 0.337 0.232 0.352 0.060 12.021 10.076 9.3												3.844 2.421
Diesel RT 14-20t Euro II 1997 2001 0.137 0.111 0.112 0.060 7.724 6.335 5.4				0	1993		0.394	0.352		12.021		9.710
Diesel RT 14-20t Euro III 2002 2006 0.151 0.105 0.094 0.060 6.315 4.989 4.17 Diesel RT 14-20t Euro IV 2007 2009 0.030 0.020 0.017 0.060 3.734 3.017 2.5 1.7 Diesel RT 14-20t Euro V 2010 2014 0.030 0.020 0.017 0.060 3.734 3.017 2.5 1.5												5.769
Diesel RT 14-20t												6.058 4.624
Diesel RT 20-26t												2.858
												1.681
No. Diesel RT 20-26t Euro III 1997 2001 0.183 0.136 0.152 0.060 9.856 7.830 7.3												9.899 6.985
Name												7.311
Diesel RT 20-26t												5.760
Diesel RT 26-28t												3.546 2.096
Diesel RT 26-28t Euro III 1997 2001 0.195 0.145 0.162 0.060 10.281 8.136 7.5 Diesel RT 26-28t Euro III 2002 2006 0.203 0.136 0.116 0.060 8.026 6.265 5.8 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.6 Diesel RT 26-28t Euro V 2010 2014 0.038 0.024 0.020 0.060 4.920 3.903 3.6 Diesel RT 26-28t Euro V 2010 2014 0.038 0.024 0.020 0.060 2.905 2.290 2.5 Diesel RT 28-32t Conventional 0 1993 0.678 0.479 0.426 0.060 15.696 12.868 11.5 Diesel RT 28-32t Euro I 1994 1996 0.504 0.345 0.306 0.060 11.628 9.492 8.5 Diesel RT 28-32t Euro III 1997 2001 0.226 0.163 0.195 0.060 11.628 9.492 8.5 Diesel RT 28-32t Euro III 2002 2006 0.217 0.148 0.130 0.060 9.211 7.293 6.6 Diesel RT 28-32t Euro IV 2007 2009 0.040 0.026 0.022 0.060 3.374 2.698 2.4 Diesel RT 28-32t Euro V 2010 2014 0.041 0.027 0.022 0.060 3.374 2.698 2.4 Diesel RT 28-32t Euro III 1994 1996 0.524 0.349 0.307 0.060 11.428 9.055 8.3 Diesel RT 32t Euro III 2002 2006 0.221 0.147 0.129 0.060 5.638 7.485 6.3 Diesel RT 32t Euro III 2002 2006 0.221 0.147 0.129 0.060 5.638 7.485 6.3 Diesel RT 32t Euro III 2002 2006 0.221 0.147 0.129 0.060 5.853 4.616 4.3 Diesel RT 32t Euro III 1994 1996 0.544 0.349 0.307 0.060 11.428 9.055 8.3 Diesel RT 32t Euro III 2002 2006 0.221 0.147 0.129 0.060 5.853 4.616 4.3 Diesel RT 32t Euro III 1994 1996 0.449 0.309 0.274 0.060 10.453 8.195 7.3 Diesel RT 32t Euro III 1994 1996 0.449 0.309 0.274 0.060 10.453 8.195 7.3 Diesel TT/AT 28-34t Euro II 1994 1996 0.449 0.309 0.274 0.060 10.453 8.195 7.3 Diesel TT/AT 28-34t Euro II 1994 1996 0.490 0.490												10.394
Diesel RT 26-28t Euro III 2002 2006 0.203 0.136 0.116 0.060 8.026 6.265 5.68 Diesel RT 26-28t Euro IV 2007 2009 0.037 0.024 0.020 0.060 4.920 3.903 3.03 Diesel RT 26-28t Euro V 2010 2014 0.038 0.024 0.020 0.060 4.920 3.903 3.04 Diesel RT 26-28t Euro V 2010 2014 0.038 0.024 0.020 0.060 4.920 3.903 3.04 Diesel RT 28-32t Euro I 0.1993 0.678 0.479 0.426 0.060 15.696 12.868 11.50 Diesel RT 28-32t Euro I 1994 1996 0.504 0.345 0.306 0.060 11.194 9.086 8.4 Diesel RT 28-32t Euro II 1997 2001 0.226 0.163 0.195 0.060 11.194 9.086 8.4 Diesel RT 28-32t Euro III 2002 2006 0.217 0.148 0.130 0.060 9.211 7.293 6.6 Diesel RT 28-32t Euro IV 2007 2009 0.040 0.026 0.022 0.060 5.677 4.590 4.1 Diesel RT 28-32t Euro IV 2007 2009 0.040 0.026 0.022 0.060 5.677 4.590 4.1 Diesel RT 28-32t Euro IV 2010 2014 0.041 0.027 0.022 0.060 3.374 2.698 2.4 Diesel RT 332t Euro II 1994 1996 0.524 0.349 0.307 0.060 11.428 9.055 8.3 Diesel RT >32t Euro III 2002 2006 0.221 0.147 0.129 0.060 9.538 7.485 6.5 Diesel RT >32t Euro IV 2007 2009 0.041 0.026 0.022 0.060 5.853 7.485 6.5 Diesel RT >32t Euro II 2002 2006 0.221 0.147 0.129 0.060 9.538 7.485 6.5 Diesel RT >32t Euro II 1994 1996 0.544 0.349 0.307 0.060 1.428 9.055 8.3 Diesel RT >32t Euro II 2002 2006 0.221 0.147 0.129 0.060 9.533 7.485 6.5 Diesel RT >32t Euro III 2002 2006 0.221 0.147 0.129 0.060 9.533 7.485 6.5 Diesel RT/AT 28-34t Euro II 1994 1996 0.449 0.309 0.274 0.060 10.453 8.195 7.3 Diesel RT/AT 28-34t Euro II 1994 1996 0.549 0.314 0.060 0.060 3.078 2.321 2.0 Diesel RT/AT 38-34t Euro II 1994 1996 0.599 0.041 0.0												7.278
Diesel RT 26-28t												7.563 5.829
Diesel RT 28-32t												3.635
Diesel RT 28-32t	19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
Diesel RT 28-32t Euro III 1997 2001 0.226 0.163 0.195 0.060 11.628 9.492 8.5												11.970
Diesel RT 28-32t												8.470 8.563
Diesel RT 28-32t Euro V 2010 2014 0.041 0.027 0.022 0.060 3.374 2.698 2.4												6.656
Diesel RT > 32t Conventional O 1993 O.681 O.481 O.432 O.060 16.129 12.809 11.7												4.173
21 Diesel RT > 32t Euro I 1994 1996 0.524 0.349 0.307 0.060 11.428 9.055 8.3 21 Diesel RT > 32t Euro IV 2002 2006 0.221 0.147 0.129 0.060 9.538 7.485 6.7 21 Diesel RT > 32t Euro IV 2007 2009 0.041 0.026 0.022 0.060 5.853 4.616 4.2 24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.6 24 Diesel TT/AT 28-34t Euro II 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.1 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 <td></td> <td>2.413 11.740</td>												2.413 11.740
Diesel RT > 32t												8.322
24 Diesel TT/AT 28-34t Conventional 0 1993 0.596 0.421 0.376 0.060 14.461 11.377 9.5 24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.5 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.3 24 Diesel TT/AT 28-34t Euro IV 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.6 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 <												6.752
24 Diesel TT/AT 28-34t Euro I 1994 1996 0.449 0.309 0.274 0.060 10.252 8.006 6.9 24 Diesel TT/AT 28-34t Euro III 1997 2001 0.204 0.143 0.174 0.060 10.453 8.195 7.1 24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.240 9.952</td></td<>												4.240 9.952
24 Diesel TT/AT 28-34t Euro III 2002 2006 0.188 0.129 0.114 0.060 8.434 6.399 5.5 24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro IV 2007 2006 0.225 0.149 0.130												6.997
24 Diesel TT/AT 28-34t Euro IV 2007 2009 0.035 0.022 0.019 0.060 5.190 3.961 3.5 24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro II 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 <												7.100
24 Diesel TT/AT 28-34t Euro V 2010 2014 0.035 0.023 0.019 0.060 3.078 2.321 2.0 25 Diesel TT/AT 34-40t Conventional 0 1993 0.697 0.485 0.431 0.060 16.667 12.937 11.2 25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.523 3.537</td></td<>												5.523 3.537
25 Diesel TT/AT 34-40t Euro I 1994 1996 0.539 0.357 0.312 0.060 11.743 9.110 7.9 25 Diesel TT/AT 34-40t Euro III 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.064</td></t<>												2.064
25 Diesel TT/AT 34-40t Euro II 1997 2001 0.243 0.166 0.202 0.060 12.255 9.433 8.3 25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 <		· · · · · · · · · · · · · · · · · · ·										11.208
25 Diesel TT/AT 34-40t Euro III 2002 2006 0.225 0.149 0.130 0.060 9.759 7.458 6.4 25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.6		· · · · · · · · · · · · · · · · · · ·										7.904 8.176
25 Diesel TT/AT 34-40t Euro IV 2007 2009 0.041 0.026 0.022 0.060 6.018 4.600 4.3 25 Diesel TT/AT 34-40t Euro V 2010 2014 0.042 0.026 0.022 0.060 3.557 2.700 2.4 26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.6												6.473
26 Diesel TT/AT 40-50t Conventional 0 1993 0.760 0.534 0.475 0.060 18.739 14.561 12.5 26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0	25	Diesel TT/AT 34-40t	Euro IV	2007	2009	0.041	0.026	0.022	0.060	6.018	4.600	4.105
26 Diesel TT/AT 40-50t Euro I 1994 1996 0.589 0.398 0.350 0.060 13.110 10.164 8.7 26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0		· · · · · · · · · · · · · · · · · · ·										2.410 12.573
26 Diesel TT/AT 40-50t Euro II 1997 2001 0.273 0.189 0.227 0.060 13.610 10.454 9.0		· · · · · · · · · · · · · · · · · · ·										8.785
26 Diesel TT/AT 40-50t Furo III 2002 2006 0 242 0 162 0 141 0 060 10 808 8 275 7	26	Diesel TT/AT 40-50t	Euro II	1997	2001	0.273	0.189	0.227	0.060	13.610	10.454	9.009
	26			2002		0.242	0.162	0.141	0.060	10.808	8.275	7.184
												4.558 2.667
27 Diesel TT/AT 50-60t Euro II 1997 2001 0.333 0.231 0.275 0.060 16.388 12.481 10.6	27	Diesel TT/AT 50-60t	Euro II	1997	2001	0.333	0.231	0.275	0.060	16.388	12.481	10.660
27 Diesel TT/AT 50-60t Euro IV 2007 2009 0.049 0.031 0.026 0.060 8.166 6.177 5.3	27	Diesel TT/AT 50-60t	Euro IV	2007	2009	0.049	0.031	0.026	0.060	8.166	6.177	5.397

Subur	ban	Interu	ırban	Highv	way	Suburban	In
РМ	NO _x	PM nt/gram per poll	NO_x utant per vehic	PM le	NO _x	SUM country sp	
2.333	0.601	2.333	0.601	2.333	0.601	cent/km	cen
1.073	2.703	1.073	4.504	1.073	4.504	3.8	
1.024	2.659	0.789	2.613	0.739	2.939	3.7	
0.480	1.852 1.975	0.391 0.267	1.899 1.959	0.373 0.277	2.135	2.3	
0.297	1.545	0.249	1.442	0.236	1.552	1.8	
0.170	0.937	0.160	0.918	0.156	1.012	1.1	
0.170	0.553	0.160	0.532	0.157	0.587	0.7	
1.053	5.054	0.777	4.626	0.718	4.873	6.1	
0.679	2.997 3.174	0.515 0.328	2.773 2.882	0.485	2.877	3.7	
0.385	2.515	0.328	2.195	0.290	2.153	2.9	
0.186	1.528	0.170	1.369	0.166	1.389	1.7	
0.187	0.903	0.171	0.809	0.166	0.799	1.1	
1.122	5.669	0.836	4.992	0.772	5.072	6.8	
0.724	3.389	0.553	2.994	0.519	2.991	4.1	
0.394	3.609 2.950	0.344	3.123 2.419	0.373	3.049 2.308	3.3	
0.190	1.763	0.173	1.501	0.169	1.454	2.0	
1.477	7.220	1.059	6.052	0.961	5.831	8.7	
0.926	4.308	0.681	3.595	0.619	3.465	5.2	
0.460	4.639	0.400	3.805	0.402	3.638	5.1	
0.492	3.793 2.242	0.384	2.996 1.812	0.358 0.179	2.777 1.717	<u>4.3</u> 2.5	
0.210	1.345	0.186	1.073	0.179	1.010	1.6	
1.489	7.921	1.090	6.353	0.998	5.945	9.4	
1.164	5.562	0.811	4.471	0.729	4.195	6.7	
0.567	5.919	0.458	4.703	0.494	4.391	6.5	
0.582 0.225	4.764	0.435	3.725 2.282	0.400	3.460	5.3	
0.225	2.864 1.706	0.194 0.195	1.351	0.186 0.187	2.130 1.259	3.1 1.9	
1.571	8.343	1.145	6.699	1.035	6.243	9.9	
1.209	5.870	0.856	4.691	0.767	4.371	7.1	
0.594	6.175	0.479	4.886	0.517	4.542	6.8	
0.613	4.820 2.955	0.457 0.196	3.762 2.344	0.411	3.501 2.183	<u>5.4</u> 3.2	
0.228	1.745	0.197	1.375	0.188	1.281	2.0	
1.723	9.427	1.257	7.728	1.133	7.189	11.1	
1.316	6.723	0.944	5.457	0.853	5.087	8.0	
0.667	6.984	0.521	5.701	0.594	5.143	7.7	
0.645	5.532	0.484	4.380	0.443	3.998	6.2	
0.234	3.409 2.027	0.201	2.757 1.621	0.191	2.506 1.449	3.6 2.3	
1.729	9.687	1.262	7.693	1.149	7.051	11.4	
1.361	6.863	0.953	5.438	0.855	4.998	8.2	
0.656	5.728	0.483	4.495	0.440	4.055	6.4	
0.236	3.515	0.201	2.772	0.192	2.547	3.8	
1.529 1.187	8.685 6.157	1.121 0.861	6.833 4.808	1.017 0.779	5.977 4.202	7.3	
0.617	6.278	0.474	4.922	0.547	4.264	6.9	
0.579	5.065	0.441	3.843	0.407	3.317	5.6	
0.221	3.117	0.192	2.379	0.184	2.124	3.3	
0.223	1.849	0.193	1.394	0.185	1.240	2.1	
1.766 1.396	7.052	1.272 0.973	7.770 5.471	1.145 0.867	6.731 4.747	11.8 8.4	
0.707	7.360	0.527	5.665	0.611	4.910	8.1	
0.664	5.861	0.488	4.479	0.443	3.888	6.5	
0.236	3.615	0.200	2.763	0.191	2.465	3.9	
0.237	2.137	0.201	1.622	0.192	1.447	2.4	
1.912 1.513	11.254 7.874	1.385 1.069	8.745 6.105	1.247 0.956	7.551 5.276	9.4	1
0.776	8.174	0.580	6.279	0.670	5.411	9.0	
0.704	6.491	0.517	4.970	0.469	4.314	7.2	
0.241	4.045	0.203	3.088	0.194	2.738	4.3	
0.242	2.379	0.204	1.802	0.194	1.602	2.6	
0.918	9.842	0.678	7.496	0.782	6.402	10.8	
0.254	4.905	0.212	3.710	0.201	3.241	5.2	

Suburban	Interurban	Highway
SUM	SUM	SUM
country sp	ecific external c	osts per km
. "		
cent/km	cent/km	cent/km
3.8	5.6	5.6
3.7	3.4	3.7
2.3	2.3	2.5
2.3	2.2	2.4
1.8	1.7	1.8
0.7	0.7	0.7
6.1	5.4	5.6
3.7	3.3	3.4
3.5	3.2	3.3
2.9	2.5	2.4
1.7 1.1	1.5	1.6
6.8	5.8	5.8
4.1	3.5	3.5
4.0	3.5	3.4
3.3	2.7	2.6
2.0	1.7	1.6
<u>8.7</u> 5.2	7.1 4.3	6.8 4.1
5.1	4.2	4.0
4.3	3.4	3.1
2.5	2.0	1.9
1.6	1.3	1.2
9.4 6.7	7.4 5.3	6.9 4.9
6.5	5.2	4.9
5.3	4.2	3.9
3.1	2.5	2.3
1.9	1.5	1.4
9.9 7.1	7.8 5.5	7.3 5.1
6.8	5.4	5.1
5.4	4.2	3.9
3.2	2.5	2.4
2.0	1.6	1.5
8.0	9.0	8.3 5.9
7.7	6.4	5.7
6.2	4.9	4.4
3.6	3.0	2.7
2.3	1.8	1.6
11.4	9.0	8.2
8.2 6.4	6.4 5.0	5.9 4.5
3.8	3.0	2.7
10.2	8.0	7.0
7.3	5.7	5.0
6.9	5.4	4.8
5.6 3.3	2.6	2.3
2.1	1.6	1.4
11.8	9.0	7.9
8.4	6.4	5.6
8.1	6.2	5.5
<u>6.5</u> 3.9	5.0 3.0	<u>4.3</u> 2.7
2.4	1.8	1.6
13.2	10.1	8.8
9.4	7.2	6.2
9.0	6.9	6.1
7.2	5.5	4.8 2.9
2.6	2.0	1.8
10.8	8.2	7.2
5.2	3.9	3.4

							Emissi	ions (gram	ı/km)		
Cook	College	Tarab O	F:		PM	PM (inter)	PM	PM	NO _x	NO _x	NO _x
Sub sector	Subsector	Tech 2	First year	Last year	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h	(non- exhaust)	(urban) 35 km/h	(inter) 55 km/h	(highway) 80 km/h
ID			,	,	33 KIII/II	33 KIII/II	OU KIII/II		33 KIII/II	33 KIII/II	OU KIII/II
13 14	Gasoline >3.5t	Conventional	0	9999 1993	0.400	0.400	0.400 0.257	0.060	4.500	7.500	7.500
14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Conventional Euro I	1994	1995	0.379	0.278	0.237	0.060	4.427 3.084	4.351 3.162	4.894 3.555
14	Diesel RT 3.5-7.5t	Euro II	1997	2001	0.062	0.054	0.059	0.060	3.288	3.262	3.568
14 14	Diesel RT 3.5-7.5t Diesel RT 3.5-7.5t	Euro III Euro IV	2002	2006	0.067	0.047	0.041	0.060	2.573 1.561	2.401 1.528	2.585 1.686
14	Diesel RT 3.5-7.5t	Euro V	2010	2014	0.013	0.008	0.007	0.060	0.922	0.886	0.978
15	Diesel RT 7.5-12t	Conventional	0	1993	0.391	0.273	0.248	0.060	8.414	7.702	8.114
15 15	Diesel RT 7.5–12t Diesel RT 7.5–12t	Euro II	1994 1997	1996 2001	0.231	0.161	0.148	0.060	4.989 5.284	4.616 4.799	4.790 4.879
15	Diesel RT 7.5–12t	Euro III	2002	2001	0.105	0.031	0.064	0.060	4.188	3.656	3.585
15	Diesel RT 7.5-12t	Euro IV	2007	2009	0.020	0.013	0.011	0.060	2.544	2.280	2.313
15 16	Diesel RT 7.5-12t Diesel RT 12-14 t	Euro V Conventional	2010	2014 1993	0.020	0.013	0.011	0.060	1.503 9.438	1.347 8.311	1.330 8.445
16	Diesel RT 12-14 t	Euro I	1994	1995	0.421	0.298	0.163	0.060	5.642	4.985	4.980
16	Diesel RT 12-14 t	Euro II	1997	2001	0.109	0.087	0.100	0.060	6.009	5.199	5.076
16 16	Diesel RT 12-14 t Diesel RT 12-14 t	Euro III Euro IV	2002	2006	0.109	0.077 0.014	0.072	0.060	4.913 2.935	4.029 2.499	3.844 2.421
17	Diesel RT 14-20t	Conventional	0	1993	0.573	0.394	0.352	0.060	12.021	10.076	9.710
17	Diesel RT 14-20t	Euro I	1994	1996	0.337	0.232	0.205	0.060	7.173	5.985	5.769
17 17	Diesel RT 14-20t Diesel RT 14-20t	Euro III	1997 2002	2001	0.137	0.111	0.112	0.060	7.724 6.315	6.335 4.989	6.058 4.624
17	Diesel RT 14-20t	Euro III Euro IV	2002	2009	0.030	0.020	0.094	0.060	3.734	3.017	2.858
17	Diesel RT 14-20t	Euro V	2010	2014	0.030	0.020	0.017	0.060	2.240	1.786	1.681
18	Diesel RT 20–26t	Conventional	0 1994	1993 1996	0.578	0.407	0.368	0.060	13.189	10.579 7.445	9.899
18 18	Diesel RT 20-26t Diesel RT 20-26t	Euro II	1994	2001	0.439	0.288 0.136	0.253 0.152	0.060	9.261 9.856	7.445	6.985 7.311
18	Diesel RT 20-26t	Euro III	2002	2006	0.190	0.126	0.112	0.060	7.933	6.202	5.760
18 18	Diesel RT 20–26t Diesel RT 20–26t	Euro IV Euro V	2007 2010	2009	0.036	0.023 0.024	0.020	0.060	4.769 2.840	3.800 2.250	3.546 2.096
19	Diesel RT 26-28t	Conventional	2010	1993	0.613	0.024	0.020	0.060	13.891	11.154	10.394
19	Diesel RT 26-28t	Euro I	1994	1996	0.458	0.307	0.269	0.060	9.774	7.811	7.278
19	Diesel RT 26-28t	Euro II	1997	2001	0.195	0.145	0.162	0.060	10.281	8.136	7.563
19 19	Diesel RT 26-28t Diesel RT 26-28t	Euro III Euro IV	2002	2009	0.203	0.136 0.024	0.116	0.060	8.026 4.920	6.265 3.903	5.829 3.635
19	Diesel RT 26-28t	Euro V	2010	2014	0.038	0.024	0.020	0.060	2.905	2.290	2.133
20	Diesel RT 28-32t Diesel RT 28-32t	Conventional Euro I	0 1994	1993 1996	0.678	0.479 0.345	0.426	0.060	15.696 11.194	12.868 9.086	11.970 8.470
20	Diesel RT 28-32t	Euro II	1994	2001	0.304	0.163	0.195	0.060	11.628	9.492	8.563
20	Diesel RT 28-32t	Euro III	2002	2006	0.217	0.148	0.130	0.060	9.211	7.293	6.656
20	Diesel RT 28-32t Diesel RT 28-32t	Euro IV	2007 2010	2009	0.040	0.026 0.027	0.022	0.060	5.677 3.374	4.590 2.698	4.173 2.413
21	Diesel RT >32t	Euro V Conventional	2010		0.681	0.481	0.432	0.060	16.129	12.809	11.740
21	Diesel RT >32t	Euro I	1994	1996	0.524	0.349	0.307	0.060	11.428	9.055	8.322
21 21	Diesel RT >32t Diesel RT >32t	Euro III Euro IV	2002	2006	0.221	0.147 0.026	0.129	0.060	9.538 5.853	7.485 4.616	6.752 4.240
24	Diesel TT/AT 28–34t		0	1993	0.596	0.421	0.376	0.060	14.461	11.377	9.952
24	Diesel TT/AT 28-34t	Euro I	1994	1996	0.449	0.309	0.274	0.060	10.252	8.006	6.997
24	Diesel TT/AT 28-34t Diesel TT/AT 28-34t		1997 2002	2001	0.204	0.143 0.129	0.174	0.060	10.453 8.434	8.195 6.399	7.100 5.523
24	Diesel TT/AT 28-34t		2002	2009	0.188	0.129	0.019	0.060	5.190	3.961	3.537
24	Diesel TT/AT 28-34t	Euro V	2010	2014	0.035	0.023	0.019	0.060	3.078	2.321	2.064
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		0 1994	1993 1996	0.697 0.539	0.485 0.357	0.431	0.060	16.667 11.743	12.937 9.110	7.904
25	Diesel TT/AT 34-40t		1997	2001	0.243	0.166	0.202	0.060	12.255	9.433	8.176
25	Diesel TT/AT 34-40t	Euro III	2002	2006	0.225	0.149	0.130	0.060	9.759	7.458	6.473
25 25	Diesel TT/AT 34-40t Diesel TT/AT 34-40t		2007 2010	2009	0.041	0.026 0.026	0.022	0.060	6.018 3.557	4.600 2.700	4.105 2.410
26	Diesel TT/AT 40–50t		2010	1993	0.760	0.534	0.022	0.060	18.739	14.561	12.573
26	Diesel TT/AT 40-50t	Euro I	1994	1996	0.589	0.398	0.350	0.060	13.110	10.164	8.785
26 26	Diesel TT/AT 40-50t Diesel TT/AT 40-50t		1997 2002	2001	0.273	0.189 0.162	0.227	0.060	13.610	10.454 8.275	9.009 7.184
26	Diesel TT/AT 40-50t	Euro III	2002	2006 2009	0.242	0.162	0.141	0.060	6.735	5.141	4.558
26	Diesel TT/AT 40-50t	Euro V	2010	2014	0.044	0.028	0.023	0.060	3.961	3.000	2.667
27 27	Diesel TT/AT 50-60t Diesel TT/AT 50-60t		1997 2007	2001	0.333	0.231 0.031	0.275	0.060	16.388 8.166	12.481 6.177	10.660 5.397
21	Diesei II/AI 30-60t	LUIU IV	2007	2009	0.049	0.031	0.026	0.000	0.100	0.1//	3.39/

Suburt	oan	Interu	rban	High	vay	Suburban	Interurban	Highwa
РМ	NO _x	РМ	NO _x	PM	NO _x	SUM	SUM	SUM
	ce	nt/gram per poll	utant per vehic	le		country sp	ecific external c	osts per kn
6.154	1.223	6.154	1.223	6.154	1.223	cent/km	cent/km	cent/km
2.831	5.504	2.831	9.173	2.831	9.173	8.3	12.0	12.0
2.701 1.267	5.414 3.772	2.081 1.031	5.321 3.868	1.949 0.984	5.986 4.348	8.1 5.0	7.4 4.9	7.9 5.3
0.752	4.022	0.704	3.989	0.730	4.364	4.8	4.7	5.1
0.784	3.147	0.658	2.937	0.622	3.161	3.9	3.6	3.8
0.448	1.909	0.421 0.422	1.869 1.084	0.413 0.413	2.062	2.4	2.3	2.5
0.449 2.777	1.127 10.292	2.050	9.421	1.894	1.196 9.924	1.6	1.5 11.5	1.6
1.792	6.103	1.359	5.646	1.279	5.859	7.9	7.0	7.1
0.982	6.463	0.866	5.869	0.923	5.968	7.4	6.7	6.9
1.017	5.123	0.809 0.449	4.471	0.765 0.438	<u>4.385</u> 2.830	<u>6.1</u> 3.6	5.3	5.2
0.491 0.493	3.112 1.839	0.451	2.788 1.648	0.439	1.627	2.3	3.2 2.1	3.3 2.1
2.961	11.544	2.206	10.166	2.037	10.329	14.5	12.4	12.4
1.911	6.901	1.460	6.098	1.370	6.091	8.8	7.6	7.5
1.039	7.350	0.907	6.359	0.985	6.209	8.4	7.3	7.2
1.039 0.500	6.009 3.590	0.844 0.457	4.927 3.057	0.811 0.445	4.701 2.962	7.0 4.1	5.8 3.5	5.5 3.4
3.896	14.703	2.795	12.325	2.536	11.876	18.6	15.1	14.4
2.443	8.774	1.797	7.321	1.633	7.056	11.2	9.1	8.7
1.215	9.448	1.054	7.749	1.062	7.409	10.7	8.8	8.5
1.299 0.553	7.724 4.567	1.013 0.489	6.102 3.690	0.945 0.472	5.656 3.496	9.0 5.1	7.1 4.2	6.6 4.0
0.556	2.740	0.491	2.185	0.473	2.056	3.3	2.7	2.5
3.928	16.132	2.877	12.939	2.633	12.108	20.1	15.8	14.7
3.070	11.327	2.139	9.106	1.924	8.544	14.4	11.2	10.5
1.496	12.055	1.208 1.147	9.577	1.303 1.056	7.046	13.6 11.2	10.8	10.2
1.536 0.594	9.703 5.833	0.513	7.586 4.647	0.491	4.337	6.4	8.7 5.2	8.1 4.8
0.597	3.474	0.515	2.752	0.493	2.564	4.1	3.3	3.1
4.144	16.990	3.022	13.643	2.731	12.713	21.1	16.7	15.4
3.190	11.954 12.575	2.259 1.263	9.553	2.023 1.365	8.902 9.250	15.1	11.8 11.2	10.9
1.567 1.618	9.816	1.205	9.951 7.662	1.083	7.129	<u>14.1</u> 11.4	8.9	10.6 8.2
0.599	6.018	0.518	4.774	0.493	4.446	6.6	5.3	4.9
0.602	3.553	0.520	2.800	0.495	2.609	4.2	3.3	3.1
4.545 3.471	19.198 13.692	3.317 2.490	15.738 11.113	2.989	14.641	23.7 17.2	19.1 13.6	17.6 12.6
1.760	14.222	1.375	11.610	1.567	10.474	16.0	13.0	12.0
1.702	11.266	1.278	8.920	1.168	8.141	13.0	10.2	9.3
0.617	6.944	0.530	5.614	0.504	5.105	7.6	6.1	5.6
0.621	4.127	0.533	3.301	0.506	2.951	4.7	3.8	3.5
4.563 3.592	19.727 13.977	3.329 2.515	15.667 11.075	3.030 2.257	14.360	24.3 17.6	19.0 13.6	17.4 12.4
1.731	11.666	1.274	9.155	1.161	8.259	13.4	10.4	9.4
0.623	7.159	0.531	5.645	0.506	5.186	7.8	6.2	5.7
4.035	17.688	2.958	13.915	2.682	12.172	21.7	16.9	14.9
3.132 1.628	12.539 12.786	2.273 1.250	9.792 10.023	2.055 1.442	8.558 8.684	15.7 14.4	12.1 11.3	10.6
1.527	10.316	1.163	7.826	1.074	6.755	11.8	9.0	7.8
0.584	6.348	0.508	4.845	0.486	4.326	6.9	5.4	4.8
0.587	3.765	0.510	2.839	0.487	2.525	4.4	3.3	3.0
4.661 3.684	20.386 14.363	3.355 2.568	15.823 11.143	3.022 2.289	9.668	25.0 18.0	19.2 13.7	16.7 12.0
1.865	14.989	1.391	11.538	1.612	10.000	16.9	12.9	11.6
1.753	11.937	1.288	9.122	1.168	7.917	13.7	10.4	9.1
0.622	7.361	0.529	5.627	0.504	5.020	8.0	6.2	5.5
0.626	4.351	0.531	3.303	0.506	2.948	5.0	3.8	3.5
5.044 3.991	22.920 16.035	3.654 2.819	17.810 12.432	3.290 2.522	15.379 10.745	28.0	21.5 15.3	18.7 13.3
2.049	16.647	1.530	12.787	1.767	11.020	18.7	14.3	12.8
1.857	13.219	1.365	10.121	1.236	8.787	15.1	11.5	10.0
0.635	8.238	0.537	6.288	0.511	5.575	8.9	6.8	6.1
0.639 2.421	4.845 20.044	0.539 1.789	3.669 15.266	0.513 2.064	3.262 13.038	5.5 22.5	4.2 17.1	3.8 15.1

European Environment Agency

Road user charges for heavy goods vehicles (HGV) — Tables with external costs of air pollution

 $2013 - 84 \text{ pp.} - 21 \times 29.7 \text{ cm}$

ISBN 978-92-9213-350-4 doi:10.2800/70164

HOW TO OBTAIN EU PUBLICATIONS

Free publications:

- via EU Bookshop (http://bookshop.europa.eu);
- at the European Union's representations or delegations. You can obtain their contact details on the Internet (http://ec.europa.eu) or by sending a fax to + 352 2929-42758.

Priced publications:

via EU Bookshop (http://bookshop.europa.eu).

Priced subscriptions (e.g. annual series of the *Official Journal of the European Union* and reports of cases before the Court of Justice of the European Union):

• via one of the sales agents of the Publications Office of the European Union (http://publications.europa.eu/others/agents/index en.htm).

European Environment Agency Kongens Nytorv 6 1050 Copenhagen K Denmark

Tel.: + 45 33 36 71 00 Fax: + 45 33 36 71 99

Web: eea.europa.eu

Enquiries: eea.europa.eu/enquiries





