



**SOCIETA' INTERPORTO DELLA TOSCANA CENTRALE S.p.A**

**DIPARTIMENTO DI INGEGNERIA CIVILE E AMBIENTALE  
DELL'UNIVERSITÀ DI FIRENZE**

**STUDI A SUPPORTO DELLA PROCEDURA DI VALUTAZIONE DI  
IMPATTO AMBIENTALE CONNESSA AL PROGETTO DI AMPLIAMENTO**

**Attività "Atmosfera"**

**RELAZIONE SULL'IMPATTO DELLE OPERE SULLA QUALITÀ DELL'ARIA.**

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## 1 Sintesi non tecnica

Il presente documento descrive la metodologia e le attività svolte per lo studio dell'impatto sulla qualità dell'aria delle opere in progetto per l'ampliamento dell'Interporto di Prato. Il documento prende in esame gli impatti attesi negli scenari ante-operam (stato attuale), di cantiere e a regime.

Nell'impostare lo studio, tenuto conto dell'estensione dell'intervento e degli effetti diretti di quest'ultimo sui volumi di traffico (vedi documento 2 del §3 del presente rapporto), si è preliminarmente valutato quale fosse l'iter metodologico più corretto da seguire.

A tal fine ci si è interfacciati direttamente con ARPAT (Azienda Regionale per la Protezione Ambientale della Toscana), con l'obiettivo primario di condividere obiettivi e strumenti utili alla soluzione del problema posto.

Il piano di lavoro che ne è scaturito si è estrinsecato nelle attività di seguito sintetizzate:

- acquisizione dei dati di monitoraggio resi disponibili dalle centraline di ARPAT, così come descritti nel Rapporto Annuale di Monitoraggio 2013 (si veda per dettagli documento 23 del § 3;
- stima delle emissioni inquinanti nello stato ante-operam, di cantiere ed a regime, elaborate a partire dai volumi di traffico dedotti dal modello di simulazione del traffico veicolare;
- valutazione della variazione percentuale e confronto con i valori di concentrazione deducibili dal suddetto Rapporto di Monitoraggio, prendendo in esame l'agglomerato fiorentino e le sole stazioni di fondo.

Se la differenza percentuale delle sostanze emesse risulta trascurabile (tenuto conto dell'invariabilità della conformazione e destinazione urbanistica dell'area) e le concentrazioni delle medesime sostanze risultano ad oggi accettabili (informazione deducibile dal citato Rapporto Ambientale), allora si può ragionevolmente concludere la sostenibilità dell'intervento.

Le sostanze inquinanti prese in esame ai fini del presente studio sono le seguenti:

- PM10 (polveri con  $\varnothing < 10 \mu\text{m}$ )
- PM2,5 (polveri con  $\varnothing < 2,5 \mu\text{m}$ )
- Ossidi di azoto (NO<sub>2</sub>)
- Monossido di carbonio (CO)

Per ciascuna di esse si sono considerate le rilevazioni regionali 2013 ed i rispettivi valori soglia: il confronto con la stima delle emissioni inquinanti generate dall'intervento di progetto sarà riferito alla zona definita "Agglomerato Firenze" e prendendo in esame le stazioni di fondo (così come emerso in occasione del citato incontro con i tecnici di ARPAT).

Tenuto conto che l'intervento previsto non modifica nella sostanza la struttura urbanistica della zona, si è ragionevolmente ipotizzato che, qualora allo stato attuale non si registrino valori di concentrazione maggiori dei valori soglia (da confronto con i dati riportati nel Rapporto Annuale 2013 di ARPAT per la zona "agglomerato di Firenze" e per le sole stazioni di fondo), stante le piccole variazioni percentuali delle sostanze emesse, siano altrettanto modeste le variazioni nei valori di concentrazione.

Nel dettaglio, analizzando singolarmente ciascun inquinante, i valori di concentrazione registrati risultano sempre sufficientemente lontani dai rispettivi valori soglia: la "distanza" percentuale è sempre molto maggiore della variazione indotta nella stima delle emissioni, che peraltro risulta negativa nello scenario di regime (tenuto conto delle politiche di trasferimento modale gomma-ferro che verranno attuate dal soggetto gestore dell'intervento, così come indicato nel documento rif. 1 del § 3).

## **2 Premessa**

Nell'ambito dello sviluppo delle attività propedeutiche alla valutazione dell'impatto dell'ampliamento dell'Interporto di Prato, il presente documento affronta il tema della impatti attesi sulla componente atmosfera: sono a tal fine valutati gli scenari ante-operam (stato attuale), cantiere e a regime.

### **3 Documenti di riferimento**

Per lo sviluppo dello studio riguardante l'impatto sulla qualità dell'aria della realizzazione delle opere di ampliamento dell'Interporto di Prato si sono presi in considerazione i seguenti documenti di riferimento:

1. Interporto della Toscana Centrale, *“Progettazione programmatica – Motivazioni per lo sviluppo dell'Interporto”*, 2014
2. Interporto della Toscana Centrale – Dipartimento di Ingegneria Civile e Ambientale dell'Università di Firenze *“Studi a supporto della procedura di valutazione di impatto ambientale connessa al progetto di ampliamento – Attività Atmosfera – Relazione Trasportistica sul modello di traffico”*, 2014
3. ARPAT, *“Relazione annuale sullo stato della qualità dell'aria nella Regione Toscana – Anno 2013”*

## 4 Approccio metodologico

La prima attività svolta è stata quella dell'individuazione del più corretto iter metodologico da seguire nello studio, tenuto conto dell'estensione dell'intervento e degli effetti diretti di quest'ultimo sui volumi di traffico (vedi documento 2 del §3 del presente rapporto).

A tal fine si è operato interfacciandosi direttamente con ARPAT (Azienda Regionale per la Protezione Ambientale della Toscana), con l'obiettivo primario di condividere obiettivi e strumenti utili alla soluzione del problema posto.

Il rapporto con ARPAT, tenuto conto della tempistica prevista per la chiusura del lavoro, ha in prima battuta suggerito di non ricorrere all'esecuzione di campagne di monitoraggio ad hoc, le quali stante la variabilità del fenomeno da indagare sarebbero sicuramente state di scarsa attendibilità (basti pensare all'effetto delle diverse stagioni sulla concentrazione degli inquinanti); quanto proposto dalla stessa ARPAT (e condiviso dal gruppo di lavoro) si estrinseca nelle attività di seguito sintetizzate:

- acquisizione dei dati di monitoraggio resi disponibili dalle centraline di ARPAT, così come descritti nel Rapporto Annuale di Monitoraggio 2013 (si veda per dettagli documento 23 del § 3;
- stima delle emissioni inquinanti nello stato ante-operam, di cantiere ed a regime, elaborate a partire dai volumi di traffico dedotti dal modello di simulazione del traffico veicolare;
- valutazione della variazione percentuale e confronto con i valori di concentrazione deducibili dal suddetto Rapporto di Monitoraggio, prendendo in esame l'agglomerato fiorentino e le sole stazioni di fondo.

Se la differenza percentuale delle sostanze emesse risulta trascurabile (tenuto conto l'invariabilità della conformazione e destinazione urbanistica dell'area) e le concentrazioni delle medesime sostanze risultano ad oggi accettabili (informazione deducibile dal citato Rapporto Ambientale), allora si può ragionevolmente concludere la sostenibilità dell'intervento.

In ragione di quanto sopra, il documento è strutturato come segue:

- sintesi dei dati di traffico derivati dal modello di simulazione del traffico veicolare (rif. documento 2 del § 3);
- acquisizione del Rapporto ARPAT 2013 sulla qualità dell'aria;
- stima delle emissioni inquinanti nelle fasi ante-operam, di cantiere e di regime;
- conclusioni.

## 5 Riepilogo risultati studio di traffico

Si riassumono di seguito i risultati dello studio di traffico riportati nel documento 2 del § 3); per il dettaglio a livello di singolo arco si rimanda all'Allegato 4 "Dati di flusso e velocità degli scenari del modello".

Tipologia veicoli	ora di punta (8:00-9:00)	ora media diurna (6:00-22:00)	ora media notturna (22:00-6:00)
veicoli leggeri	18448	11070	922
mezzi pesanti	3547	2980	142
<b>TOTALE</b>	<b>21995</b>	<b>14050</b>	<b>1064</b>

**Tabella 1: Matrici orarie utilizzate nello scenario ante operam**

Tipologia veicoli	ora di punta (8:00-9:00)	ora media diurna (6:00-22:00)	ora media notturna (22:00-6:00)
veicoli leggeri	18448	11070	922
mezzi pesanti	3553	2986	142
<b>TOTALE</b>	<b>22001</b>	<b>14056</b>	<b>1064</b>

**Tabella 2: Matrici orarie utilizzate nello scenario di cantiere**

Tipologia veicoli	ora di punta (8:00-9:00)	ora media diurna (6:00-22:00)	ora media notturna (22:00)-6:00)
veicoli leggeri	18302	10981	916
mezzi pesanti	3519	2956	141
<b>TOTALE</b>	<b>21821</b>	<b>13937</b>	<b>1057</b>

**Tabella 3: Matrici orarie utilizzate nello scenario a regime**

## 6 Il Rapporto Annuale 2013 sulla qualità dell'aria in Regione Toscana - ARPAT

### 6.1 Le caratteristiche della rete di monitoraggio

Il quadro conoscitivo dello stato della qualità dell'aria ambiente del 2013 si basa prioritariamente sulle misurazioni ottenute dalle 33 stazioni della rete regionale di rilevamento. Tutte queste stazioni sono gestite dal Settore Centro Regionale Tutela della Qualità dell'Aria (CRTQA) attraverso quattro centri di gestione collocati in Area Vasta Centro, Costa e Sud e inviati dopo validazione al Sistema Informativo Regionale Ambientale (SIRA) di ARPAT, che ha organizzato le informazioni estraendo per ciascun inquinante monitorato gli indicatori previsti dalla normativa. Il processo di monitoraggio della qualità dell'aria è inserito nel sistema di gestione per la qualità di ARPAT certificato secondo la UNI EN ISO 9001:2008.

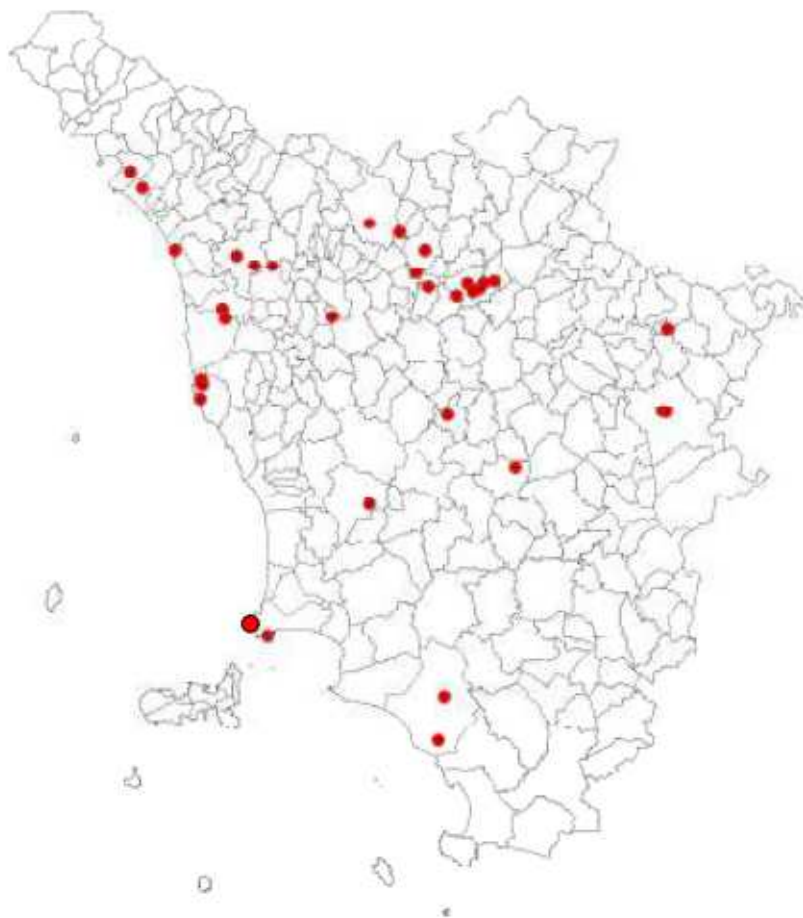
Per valutare la qualità dell'aria in Toscana il territorio regionale è stato suddiviso in zone che presentano caratteristiche simili per diffusività atmosferica e pressioni antropiche (emissioni di inquinanti) nel cui ambito sono collocate le stazioni di monitoraggio. Sulla base del D.Lgs 155/2010, le stazioni di monitoraggio sono classificate in base al

- **tipo di zona** ove è ubicata:
  - sito fisso di campionamento URBANO: sito fisso inserito in aree edificate in continuo o almeno in modo predominante
  - sito fisso di campionamento SUBURBANO (o PERIFERICO): sito fisso inserito in aree largamente edificate in cui sono presenti sia zone edificate, sia zone non urbanizzate
  - sito fisso di campionamento RURALE: sito fisso inserito in tutte le aree diverse da quelle individuate per i siti di tipo urbano e suburbano. In particolare, il sito fisso si definisce rurale remoto se è localizzato ad una distanza maggiore di 50 km dalle fonti di emissione
- **tipo di stazione** in considerazione dell'emissione dominante:
  - stazioni di misurazione di TRAFFICO: stazioni ubicate in posizione tale che il livello di inquinamento sia influenzato prevalentemente da emissioni da traffico, provenienti da strade limitrofe con intensità di traffico medio alta
  - stazioni di misurazione di FONDO: stazioni ubicate in posizione tale che il livello di inquinamento non sia influenzato prevalentemente da emissioni da specifiche fonti (industrie, traffico, riscaldamento residenziale, ecc.) ma dal contributo integrato di tutte le fonti poste sopravento alla stazione rispetto alle direzioni predominanti dei venti nel sito
  - stazioni di misurazione INDUSTRIALE: stazioni ubicate in posizione tale che il livello di inquinamento sia influenzato prevalentemente da singole fonti industriali o da zone industriali limitrofe

La rete regionale di rilevamento della qualità dell'aria al 31.12.2013 include complessivamente 33 stazioni di monitoraggio, distribuite come indicato in Figura 1.

Secondo anche quanto emerso in occasione degli incontri avuti con i tecnici di ARPAT, per la caratterizzazione della qualità dell'aria dell'area all'interno della quale ricade il sedime dell'Interporto di Prato è possibile fare riferimento ai dati registrati nelle stazioni di misurazione di fondo della zona definita "Agglomerato Firenze".





**Figura 1: Ubicazione delle stazioni di monitoraggio delle rete regionale (fonte: Rapporto Annuale 2013 – ARPAT)**

## **6.2 Le sostanze inquinanti monitorate**

Le sostanze inquinanti prese in esame ai fini del presente studio sono le seguenti:

- PM10 (polveri con  $\varnothing < 10 \mu\text{m}$ )
- PM2,5 (polveri con  $\varnothing < 2,5 \mu\text{m}$ )
- Ossidi di azoto (NO<sub>2</sub>)
- Monossido di carbonio (CO)

Per ciascuna di esse si riportano nelle tabelle a seguire le rilevazioni regionali 2013. In queste in rosso sono individuati i valori registrati che superano i valori soglia fissati. Si osserva che per le stazioni di fondo della zona “Agglomerato Firenze”, assunta a riferimento per il caso in esame, non si riscontra alcun valore superiore ai limiti di soglia.

Zona	Nome stazione	Tipologia	N° giornaliere medie > 50 µg/m <sup>3</sup>	V.L.	Media annuale (µg/m <sup>3</sup> )	V.L.
<b>Agglomerato Firenze</b>	FI-Boboli	Urbana Fondo	18	<b>35</b>	20	<b>40</b>
	FI-Bassi	Urbana Fondo	17		20	
	FI-Scandicci	Urbana Fondo	22		24	
	FI-Gramsci	Urbana Traffico	38		34	
	FI-Mosse	Urbana Traffico	46		30	
<b>Zona Prato Pistoia</b>	PO-Roma	Urbana Fondo	35		27	
	PO-Ferrucci	Urbana Traffico	37		30	
	PT-Montale	Rurale Fondo	45		29	
	PT-Signorelli	Urbana Fondo	28		23	
<b>Zona Valdarno aretino e Valdichiana</b>	AR-Repubblica	Urbana Traffico	26		27	
<b>Zona Valdarno pisano e Piana lucchese</b>	LU-Capannori	Urbana Fondo	30		24	
	PI-S. Croce Coop	Periferica fondo	27		27	
	PI-Passi	Urbana Fondo	22		23	
	PI-Borghetto	Urbana Traffico	31		26	
<b>Zona costiera</b>	GR-URSS	Urbana Fondo	0		17	
	LI-Carducci	Urbana Traffico	1	23		
	LI-Cotone	Periferica Industriale	8	23		
	MS-Colombarotto	Urbana Fondo	9	24		
	LU-Viareggio	Urbana Fondo	21	27		
<b>Zona collinare e montana</b>	PI-Montecerboli	Periferica fondo	0	10		
	SI-Poggibonsi	Urbana Fondo	1	18		

Tabella 4: PM10 – elaborazioni della rete di monitoraggio regionale 2013 regionale (fonte: Rapporto Annuale 2013 – ARPAT)

Zona	Nome stazione	Tipologia	Media annuale 2013 (µg/m <sup>3</sup> )	Valore limite (µg/m <sup>3</sup> )
<b>Agglomerato Firenze</b>	Fi-Bassi	Urbana Fondo	14	25
	Fi-Gramsci	Urbana Traffico	19	
<b>Zona Prato Pistoia</b>	PO-Roma	Urbana Fondo	20	
	PO-Ferrucci	Urbana Traffico	-	
	PT-Montale	Rurale fondo	*	
<b>Zona Valdarno pisano e Piana lucchese</b>	PI-Passi	Urbana Fondo	16	
	LU-Capannori	Urbana Fondo	-	
<b>Zona costiera</b>	GR-URSS	Urbana Fondo	11	
	LI-Cappiello	Urbana Fondo	-	
	LU-Viareggio	Urbana Fondo	-	
	LI-Carducci	Urbana Traffico	13	
<b>Zona collinare e montana</b>	SI-Poggibonsi	Urbana Fondo	12	
<b>Zona Valdarno aretino e Val di Chiana</b>	AR-Acropoli	Urbana Fondo	*	

\* efficienza minore del 90%, non utilizzabile per il confronto con il limite di legge  
- rilevamento del parametro non attivo

Tabella 5: PM2.5 – elaborazioni della rete di monitoraggio regionale 2013 regionale (fonte: Rapporto Annuale 2013 – ARPAT)

Zona	Nome stazione	Tipologia	N° massime medie orarie > 200 µg/m <sup>3</sup>	V.L.	Media annuale (µg/m <sup>3</sup> )	V.L.
Agglomerato Firenze	FI-Bassi	Urbana Fondo	0	18	23	40
	FI-Scandicci	Urbana Fondo	0		29	
	Settignano	Rurale Fondo	0		10	
	FI-Gramsci	Urbana Traffico	0		62	
	FI-Mosse	Urbana Traffico	0		59	
Zona Prato Pistoia	PO-Roma	Urbana Fondo	0		33	
	PO-Ferrucci	Urbana Traffico	1		27	
	PT-Montale	Rurale Fondo	0		18	
	PT-Signorelli	Urbana Fondo	0		25	
Zona Valdarno pisano e Piana lucchese	LU-Carignano	Rurale Fondo	0		13	
	LU-Capannori	Urbana Fondo	0		27	
	PI-S. Croce Coop	Periferica fondo	0		28	
	PI-Passi	Urbana Fondo	0		20	
	PI-Borghetto	Urbana Traffico	0		36	
Zona costiera	GR-URSS	Urbana Fondo	0		20	
	GR-Maremma	Rurale Fondo	0		5	
	LI-Cappiello	Urbana Fondo	0		29	
	LI-Carducci	Urbana Traffico	1		50	
	LI-Cotone	Periferica industriale	0		16	
	MS-Colombarotto	Urbana Fondo	0		20	
	LU-Viareggio	Urbana Fondo	0	26		
Zona collinare e montana	AR-Casa Stabbi	Rurale fondo	0	3		
	PI-Montecerboli	Periferica fondo	0	5		
	SI-Poggibonsi	Urbana Fondo	0	20		
Zona Valdarno aretino e Valdichiana	AR-Acropoli	Urbana Fondo	0	20		
	AR-Repubblica	Urbana Traffico	0	39		

**Tabella 6: NO<sub>2</sub> – elaborazioni della rete di monitoraggio regionale 2013 regionale (fonte: Rapporto Annuale 2013 – ARPAT)**

Zona	Comune	Nome stazione	Tipologia	Massima media giornaliera sulle 8 ore (mg/m <sup>3</sup> )	Valore limite (mg/m <sup>3</sup> )
<b>Agglomerato di Firenze</b>	Firenze	FI-Gramsci	Urbana Traffico	3,7	10
<b>Zona Valdarno aretino e Valdichiana</b>	Arezzo	AR-Repubblica	Urbana Traffico	3,2	
<b>Zona Valdarno pisano e Piana lucchese</b>	Pisa	PI-Borghetto	Urbana Traffico	3,0	
<b>Zona costiera</b>	Livorno	LI-Carducci	Urbana Traffico	2,8	
	Piombino	LI-Cotone	Periferica industriale	3,1	
<b>Zona Prato Pistoia</b>	Prato	PO-Ferrucci	Urbana Traffico	3,7	

**Tabella 7: CO – elaborazioni della rete di monitoraggio regionale 2013 regionale (fonte: Rapporto Annuale 2013 – ARPAT)**

## 7 Gli impatti indotti dal progetto di sviluppo

### 7.1 La valutazione dei coefficienti di emissione

Al fine di tener conto dell'evoluzione tecnologica del parco veicolare, sia per i veicoli leggeri che per i veicoli pesanti, si è proceduto alla definizione di un possibile range di valori di emissione piuttosto che di un valore singolo.

La procedura che ha condotto alla loro definizione ha previsto quanto segue:

- acquisizione delle percorrenze (in termini di veicoli\*km), per gli anni 2011 e 2012. La fonte dati è la Banca Dati SINAnet 1990-2012, coerente al Programma di stima Copert 4 (versione 10.0 Novembre 2012). Il dati disaggregato è riportato in *Appendice A – distribuzione delle percorrenze per tipologia veicolare*;
- distribuzione percentuale delle percorrenze in ragione dell'ambiente (“rural”, “urban”, “highway”) e sempre per gli anni 2011 e 2012. . La fonte dati è la Banca Dati SINAnet 1990-2012, coerente al Programma di stima Copert 4 (versione 10.0 Novembre 2012). Il dati disaggregato è riportato in *Appendice B – distribuzione percentuale delle percorrenze*;
- acquisizione dei fattori emissione per tipologia veicolare all'anno 2011 e 2012 (Fonte SINAnet – Rete del Sistema Informativo Nazionale Ambientale). Questi sono definiti, oltre che per tipo di veicolo (soprattutto con riferimento alla loro alimentazione), in ragione dell'ambiente di percorrenza (“rural”, “urban”, “highway” e “totale”, intendendo quest'ultimo come media pesata rispetto alle singole percorrenze). Il dato disaggregato è riportato in *Appendice C – fattori di emissione unitari anno 2011* e *Appendice D – fattori di emissione unitari anno 2012*;
- definizione del fattore di emissione medio per singolo inquinante e tipologia veicolare, calcolato come media pesata rispetto alle percorrenze del fattore di emissione medio e pesato per tipologia veicolare (Tabella 8 e Tabella 9);
- definizione del fattore di emissione medio per singolo inquinante rispetto alle categorie VL e VP prese in esame nel modello di simulazione. Si precisa che per VL si intende la media di “cars” e “light commercial”; per VP si intende il fattore di emissione di “Heavy Duty Traucks”;

2011	cars	light commercial	Heavy Duty Trucks	Buses	Mopeds	Motorcycles
CO (gr/km)	1,091468	0,674315	1,474890	1,606386	7,146670	6,661287
NO2 (gr/km)	0,137599	0,269973	0,677933	0,814519	0,004796	0,007244
PM2.5 (gr/km)	0,027014	0,095344	0,166546	0,170487	0,091402	0,030218
PM10 (gr/km)	0,033326	0,105784	0,190263	0,190299	0,095796	0,034171

**Tabella 8: Fattori di emissione medi per tipologia di veicolo anno 2011 (Elaborazione su dati SIINAnet – Rete del Sistema Informativo Nazionale Ambientale)**

2012	cars	light commercial	Heavy Duty Trucks	Buses	Mopeds	Motorcycles
CO (gr/km)	0,976020	0,642650	1,413801	1,567685	6,245567	6,199840
NO2 (gr/km)	0,159000	0,279067	0,643627	0,783659	0,005163	0,007329
PM2.5 (gr/km)	0,026347	0,083929	0,150632	0,153055	0,079096	0,026610
PM10 (gr/km)	0,032674	0,094368	0,174271	0,172887	0,083491	0,030563

**Tabella 9: Fattori di emissione medi per tipologia di veicolo anno 2012 (Elaborazione su dati SIINAnet – Rete del Sistema Informativo Nazionale Ambientale)**

2011	VL	VP	2012	VL	VP
CO (gr/km)	0,882891	1,474890	CO (gr/km)	0,809335	1,413801
NO2 (gr/km)	0,203786	0,677933	NO2 (gr/km)	0,219033	0,643627
PM2.5 (gr/km)	0,061179	0,166546	PM2.5 (gr/km)	0,055138	0,150632
PM10 (gr/km)	0,069555	0,190263	PM10 (gr/km)	0,063521	0,174271

**Tabella 10: Fattori di emissione distinta per VL e VP (Elaborazione su dati SIINAnet – Rete del Sistema Informativo Nazionale Ambientale)**

## 7.2 La stima delle emissioni inquinanti nello scenario ante-operam, di cantiere e di regime

La misura delle emissioni inquinanti è stata sviluppata a partire dai risultati del modello di simulazione del traffico veicolare (rif. documento 2 del § 3) ed assumendo i fattori di emissioni specifici riportati in Tabella 10:

Il totale delle sostanze emesse (con riferimento all'intera area del modello) nell'ora dai veicoli circolanti, per ciascuno degli scenari e con riferimento ai fattori di emissione 2011 e 2012, è riportato in Tabella 11 e Tabella 12, da cui si evidenzia una riduzione media sul totale delle sostanze emesse del 6.31%. Tenuto conto dell'evoluzione continua del livello tecnologico e di efficienza dei veicoli, soprattutto con riferimento ai mezzi pesanti (che caratterizzano l'area di intervento), è ragionevole supporre un miglioramento costante (anche se minimo) del livello di emissioni prodotte.

Scenario	CO (gr)	PM10 (gr)	PM2.5 (gr)	NO2 (gr)
attuale ante-operam	96.924	8.656	7.603	27.024
cantiere	100.180	8.946	7.858	27.929
regime	94.238	8.421	7.396	26.298

**Tabella 11: Emissioni orarie nei differenti scenari – rif. f.e. anno 2011**

Scenario	CO (gr)	PM10 (gr)	PM2.5 (gr)	NO2 (gr)
attuale ante-operam	89.701	7.913	6.859	27.874
cantiere	92.713	8.178	7.089	28.807
regime	87.219	7.698	6.673	27.120

**Tabella 12: Emissioni orarie nei differenti scenari – rif. f.e. 2012**

In Appendice E– emissioni per singolo arco – attuale rif. f.e. 2011, Appendice F– emissioni per singolo arco – cantiere rif. f.e. 2011, Appendice G– emissioni per singolo arco – regime rif. f.e. 2011, Appendice H – emissioni per singolo arco – attuale rif. f.e. 2012, Appendice I – emissioni per singolo arco – cantiere rif. f.e. 2012, Appendice L – emissioni per singolo arco – regime rif. f.e. 2012, si riportano le emissioni per singolo arco, di cui sempre nel documento si allegano le relative mappe tematizzate.

In ultimo si è proceduto all'analisi delle emissioni generate internamente all'Interporto: a tal proposito si è proceduto applicando ai flussi entranti ed uscenti nei tre scenari i fattori di emissioni sopra precisati. Nelle tabella seguire i risultati ottenuti.

Scenario	VL		VP	
	Origine	Destinazione	Origine	Destinazione
attuale ante-operam	27	154	0	0
cantiere	27	154	0	0
regime	18	101	0	0

**Tabella 13: Flussi entranti/uscenti da Interporto – varco ovest**

Scenario	VL		VP	
	Origine	Destinazione	Origine	Destinazione
attuale ante-operam	44	199	55	26
cantiere	44	199	58	29
regime	29	130	36	17

**Tabella 14: Flussi entranti/uscenti da Interporto – varco est**

Scenario	CO (gr)	PM10 (gr)	PM2.5 (gr)	NO2 (gr)
attuale ante-operam	661	61	54	194
cantiere	674	63	55	200
regime	433	40	35	127

**Tabella 15: Emissioni orarie nei differenti scenari – Interporto (f.e. 2011)**

Scenario	CO (gr)	PM10 (gr)	PM2.5 (gr)	NO2 (gr)
attuale ante-operam	613	56	48	198
cantiere	626	57	50	203
regime	402	37	32	129

**Tabella 16: Emissioni orarie nei differenti scenari – Interporto (f.e. 2012)**

### 7.3 La variazione percentuale delle sostanze emesse

Nella tabella a seguire si riporta la variazione percentuale delle sostanze inquinanti rispetto allo scenario attuale ante-operam.

Scenario	CO(delta %)	PM10 (delta %)	PM2.5 (delta %)	NO2 (delta %)
attuale ante-operam	0.00%	0.00%	0.00%	0.00%
cantiere	3.25%	3.24%	3.25%	3.24%
regime	-2.85%	-2.79%	-2.79%	-2.78%

**Tabella 17: Variazione percentuale delle sostanze inquinanti nei differenti scenari**

Il risultato atteso è coerente con i dati di traffico simulati, rispetto ai quali:

- lo scenario di cantiere evidenzia un aumento dei mezzi circolanti per effetto delle lavorazioni previste;
- lo scenario a regime, in ragione delle politiche di trasferimento gomma-ferro, presenta un trend in diminuzione rispetto allo scenario attuale.

## **8 Conclusioni**

Le considerazioni svolte in merito allo studio dell'impatto sulla qualità dell'aria del progetto di ampliamento dell'Interporto di Prato hanno tenuto conto del fatto che l'intervento previsto non modifica nella sostanza la struttura urbanistica della zona e che, allo stato attuale, nella zona assunta a riferimento nello studio (stazioni di fondo della zona "Agglomerato Firenze"), non sono registrati valori di concentrazione maggiori dei valori soglia.

Le valutazioni effettuate hanno evidenziato che l'intervento in esame genera, nei due scenari analizzati (di cantiere e post operam, a regime), variazioni percentuali delle sostanze emesse estremamente basse e quindi variazioni altrettanto modeste dei valori di concentrazione registrati.

Nel dettaglio, analizzando singolarmente ciascun inquinante, i valori di concentrazione registrati risultano sempre sufficientemente lontani dai rispettivi valori soglia: la "distanza" percentuale è sempre molto maggiore della variazione indotta nella stima delle emissioni, che peraltro risulta negativa nello scenario di regime (tenuto conto delle politiche di trasferimento modale gomma-ferro che verranno attuate dal soggetto gestore dell'intervento, così come indicato nel documento rif. 1 § 3).



## **9 Appendice A – distribuzione delle percorrenze per tipologia veicolare**

Nelle tabelle a seguire si riportano le percorrenze (espresse in veicoli\*km) per gli anni 2011 e 2012: la banca dati di riferimento è quella “SINAnet – Rete del Sistema Informativa Nazionale Ambientale”, coerente al Programma Copert 4 (versione 10.0 – Novembre 2012).

Sector	Subsector	Technology	2011	2012
Passenger Cars	Gasoline <0,8 l	PC Euro 4 - 98/69/EC Stage2005		0 1227058000
Passenger Cars	Gasoline <0,8 l	PC Euro 5 - EC 715/2007		0 30600
Passenger Cars	Gasoline <0,8 l	PC Euro 6 - EC 715/2007		0 0
Passenger Cars	Gasoline 0,8 - 1,4 l	PRE ECE	504544000	491324000
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/00-01	285846000	278356000
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/02	228310000	222328000
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/03	301124000	293234000
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/04	3450250000	3359846000
Passenger Cars	Gasoline 0,8 - 1,4 l	Improved Conventional		0 0
Passenger Cars	Gasoline 0,8 - 1,4 l	Open Loop		0 0
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 1 - 91/441/EEC	4468964000	4067768000
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 2 - 94/12/EEC	20029100000	18841920000
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 3 - 98/69/EC Stage2000	20188515000	16466346000
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 4 - 98/69/EC Stage2005	50522175000	41744596000
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 5 - EC 715/2007	126744467000	13474170000
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 6 - EC 715/2007		0 21032400
Passenger Cars	Gasoline 1,4 - 2,0 l	PRE ECE	44588000	44226000
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/00-01	41428000	41092000
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/02	47400000	47014000
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/03	62860000	62350000
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/04	1519938000	1005062000
Passenger Cars	Gasoline 1,4 - 2,0 l	Improved Conventional		0 0
Passenger Cars	Gasoline 1,4 - 2,0 l	Open Loop		0 0
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	1683284000	1553244000
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	6173472000	4707820000
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	3888656000	2737860000
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	9469884000	6839568000
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	1891552000	1917163500
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 6 - EC 715/2007		0 6138250
Passenger Cars	Gasoline >2,0 l	PRE ECE	30538000	31404000
Passenger Cars	Gasoline >2,0 l	ECE 15/00-01	17880000	18388000
Passenger Cars	Gasoline >2,0 l	ECE 15/02	15424000	15862000
Passenger Cars	Gasoline >2,0 l	ECE 15/03	14298000	14702000
Passenger Cars	Gasoline >2,0 l	ECE 15/04	157503500	92550000
Passenger Cars	Gasoline >2,0 l	PC Euro 1 - 91/441/EEC	128920000	126732000
Passenger Cars	Gasoline >2,0 l	PC Euro 2 - 94/12/EEC	403578000	312125000
Passenger Cars	Gasoline >2,0 l	PC Euro 3 - 98/69/EC Stage2000	498664000	332676000
Passenger Cars	Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	1647960000	1187470000
Passenger Cars	Gasoline >2,0 l	PC Euro 5 - EC 715/2007	293137000	261475292
Passenger Cars	Gasoline >2,0 l	PC Euro 6 - EC 715/2007	13000	108000
Passenger Cars	Diesel <1,4 l	PC Euro 4 - 98/69/EC Stage2005	40661260000	32433040000
Passenger Cars	Diesel <1,4 l	PC Euro 5 - EC 715/2007	6951735000	8811582500
Passenger Cars	Diesel <1,4 l	PC Euro 6 - EC 715/2007		0 648000
Passenger Cars	Diesel 1,4 - 2,0 l	Conventional	1170189000	782830000
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	1605618000	847692000
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	12390021000	7218585000
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	42639832620	41952048000
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	67740700000	54984220500
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	24815784000	29079137500

Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	2948000	9378000
Passenger Cars	Diesel >2,0 l	Conventional	841012000	421668000
Passenger Cars	Diesel >2,0 l	PC Euro 1 - 91/441/EEC	851726087	412396000
Passenger Cars	Diesel >2,0 l	PC Euro 2 - 94/12/EEC	4735763637	2307954000
Passenger Cars	Diesel >2,0 l	PC Euro 3 - 98/69/EC Stage2000	11756106024	9603244000
Passenger Cars	Diesel >2,0 l	PC Euro 4 - 98/69/EC Stage2005	14051380000	11309505000
Passenger Cars	Diesel >2,0 l	PC Euro 5 - EC 715/2007	4340867600	4806095000
Passenger Cars	Diesel >2,0 l	PC Euro 6 - EC 715/2007	52668000	153904356
Passenger Cars	LPG	Conventional	533894000	515114000
Passenger Cars	LPG	PC Euro 1 - 91/441/EEC	608392000	410796708
Passenger Cars	LPG	PC Euro 2 - 94/12/EEC	2311764000	1834645000
Passenger Cars	LPG	PC Euro 3 - 98/69/EC Stage2000	2129831000	2000420000
Passenger Cars	LPG	PC Euro 4 - 98/69/EC Stage2005	13473857124	13537572000
Passenger Cars	LPG	PC Euro 5 - EC 715/2007	1360975000	3431862500
Passenger Cars	LPG	PC Euro 6 - EC 715/2007	0	1217835
Passenger Cars	E85	PC Euro 4 - 98/69/EC Stage2005	1890500	1805000
Passenger Cars	E85	PC Euro 5 - EC 715/2007	907800	1509600
Passenger Cars	E85	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	CNG	PC Euro 4 - 98/69/EC Stage2005	0	0
Passenger Cars	CNG	PC Euro 5 - EC 715/2007	0	0
Passenger Cars	CNG	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	Natural Gas < 1,4 l	Conventional	91492000	65607000
Passenger Cars	Natural Gas < 1,4 l	PC Euro 1 - 91/441/EEC	86598000	66965000
Passenger Cars	Natural Gas < 1,4 l	PC Euro 2 - 94/12/EEC	624664120	439257000
Passenger Cars	Natural Gas < 1,4 l	PC Euro 3 - 98/69/EC Stage2000	566179458	576993600
Passenger Cars	Natural Gas < 1,4 l	PC Euro 4 - 98/69/EC Stage2005	4146112000	4139283500
Passenger Cars	Natural Gas < 1,4 l	PC Euro 5 - EC 715/2007	1517191500	2367057000
Passenger Cars	Natural Gas < 1,4 l	PC Euro 6 - EC 715/2007	0	99000
Passenger Cars	Natural Gas 1,4 - 2,0 l	Conventional	77994000	50151000
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	124880000	80880000
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	743425000	446920000
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	627386000	624805000
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	1654112000	1666512308
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	40528000	120870000
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	Natural Gas > 2,0 l	Conventional	4370000	2637000
Passenger Cars	Natural Gas > 2,0 l	PC Euro 1 - 91/441/EEC	5490000	2935000
Passenger Cars	Natural Gas > 2,0 l	PC Euro 2 - 94/12/EEC	19050000	14580000
Passenger Cars	Natural Gas > 2,0 l	PC Euro 3 - 98/69/EC Stage2000	14948000	15125600
Passenger Cars	Natural Gas > 2,0 l	PC Euro 4 - 98/69/EC Stage2005	54546070	62356000
Passenger Cars	Natural Gas > 2,0 l	PC Euro 5 - EC 715/2007	4811000	5916000
Passenger Cars	Natural Gas > 2,0 l	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	2-Stroke	Conventional	0	0
Passenger Cars	Hybrid Gasoline <1,4 l	PC Euro 4 - 98/69/EC Stage2005	113297000	108594500
Passenger Cars	Hybrid Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	147573600	200532000
Passenger Cars	Hybrid Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0	1836000
Light Commercial	Gasoline <3,5t	Conventional	164544000	160556928
Light Commercial	Gasoline <3,5t	LD Euro 1 - 93/59/EEC	206255000	196520000
Light Commercial	Gasoline <3,5t	LD Euro 2 - 96/69/EEC	634220000	481536000
Light Commercial	Gasoline <3,5t	LD Euro 3 - 98/69/EC Stage2000	523540000	495250000

Light Commercial Gasoline <3,5t	LD Euro 4 - 98/69/EC Stage2005	612864000	601832000
Light Commercial Gasoline <3,5t	LD Euro 5 - 2008 Standards	260532000	317790000
Light Commercial Gasoline <3,5t	LD Euro 6	0	0
Light Commercial Diesel <3,5 t	Conventional	4572468700	2262632000
Light Commercial Diesel <3,5 t	LD Euro 1 - 93/59/EEC	2802984000	2371096000
Light Commercial Diesel <3,5 t	LD Euro 2 - 96/69/EEC	14019900000	11244799500
Light Commercial Diesel <3,5 t	LD Euro 3 - 98/69/EC Stage2000	21841463000	20739369000
Light Commercial Diesel <3,5 t	LD Euro 4 - 98/69/EC Stage2005	20023192300	19692662000
Light Commercial Diesel <3,5 t	LD Euro 5 - 2008 Standards	2102664451	4169900000
Light Commercial Diesel <3,5 t	LD Euro 6	23050	483000
Heavy Duty Truc Gasoline >3,5 t	Conventional	1535000	1655000
Heavy Duty Truc Rigid <=7,5 t	Conventional	1945312000	1193590000
Heavy Duty Truc Rigid <=7,5 t	HD Euro I - 91/542/EEC Stage I	393116000	387665000
Heavy Duty Truc Rigid <=7,5 t	HD Euro II - 91/542/EEC Stage II	1130045000	1108590000
Heavy Duty Truc Rigid <=7,5 t	HD Euro III - 2000 Standards	1487732000	1487226000
Heavy Duty Truc Rigid <=7,5 t	HD Euro IV - 2005 Standards	561504000	601086000
Heavy Duty Truc Rigid <=7,5 t	HD Euro V - 2008 Standards	347116000	470704000
Heavy Duty Truc Rigid <=7,5 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 7,5 - 12 t	Conventional	1379376000	826110000
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro I - 91/542/EEC Stage I	329590000	319677000
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro II - 91/542/EEC Stage II	905328000	884880000
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	1241472000	1246719000
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	197670000	202608000
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	404600000	493712000
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 12 - 14 t	Conventional	299568000	179960000
Heavy Duty Truc Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	30475000	29739000
Heavy Duty Truc Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	65512000	65322000
Heavy Duty Truc Rigid 12 - 14 t	HD Euro III - 2000 Standards	117018000	120852000
Heavy Duty Truc Rigid 12 - 14 t	HD Euro IV - 2005 Standards	23632000	24339000
Heavy Duty Truc Rigid 12 - 14 t	HD Euro V - 2008 Standards	64620000	76616000
Heavy Duty Truc Rigid 12 - 14 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 14 - 20 t	Conventional	578192000	345570000
Heavy Duty Truc Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	203389000	198444000
Heavy Duty Truc Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	786324000	769440000
Heavy Duty Truc Rigid 14 - 20 t	HD Euro III - 2000 Standards	1134972000	1135728000
Heavy Duty Truc Rigid 14 - 20 t	HD Euro IV - 2005 Standards	190792000	194883000
Heavy Duty Truc Rigid 14 - 20 t	HD Euro V - 2008 Standards	599520000	685152000
Heavy Duty Truc Rigid 14 - 20 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 20 - 26 t	Conventional	1370912000	799260000
Heavy Duty Truc Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	344540000	320551000
Heavy Duty Truc Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	1662026000	1574994000
Heavy Duty Truc Rigid 20 - 26 t	HD Euro III - 2000 Standards	2002275000	1973290000
Heavy Duty Truc Rigid 20 - 26 t	HD Euro IV - 2005 Standards	226490000	229746000
Heavy Duty Truc Rigid 20 - 26 t	HD Euro V - 2008 Standards	1093200000	1266846000
Heavy Duty Truc Rigid 20 - 26 t	HD Euro VI	0	62000
Heavy Duty Truc Rigid 26 - 28 t	Conventional	800000	470000
Heavy Duty Truc Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	46000	23000
Heavy Duty Truc Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	663000	663000
Heavy Duty Truc Rigid 26 - 28 t	HD Euro III - 2000 Standards	2900000	2668000

Heavy Duty Truc Rigid 26 - 28 t	HD Euro IV - 2005 Standards	295000	240000
Heavy Duty Truc Rigid 26 - 28 t	HD Euro V - 2008 Standards	244000	252000
Heavy Duty Truc Rigid 26 - 28 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 28 - 32 t	Conventional	5056000	3240000
Heavy Duty Truc Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	44482000	41423000
Heavy Duty Truc Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	541268000	509340000
Heavy Duty Truc Rigid 28 - 32 t	HD Euro III - 2000 Standards	1260417000	1197228000
Heavy Duty Truc Rigid 28 - 32 t	HD Euro IV - 2005 Standards	205884000	196308000
Heavy Duty Truc Rigid 28 - 32 t	HD Euro V - 2008 Standards	582464000	624512000
Heavy Duty Truc Rigid 28 - 32 t	HD Euro VI	0	64000
Heavy Duty Truc Rigid >32 t	Conventional	20752000	12930000
Heavy Duty Truc Rigid >32 t	HD Euro I - 91/542/EEC Stage I	4370000	4094000
Heavy Duty Truc Rigid >32 t	HD Euro II - 91/542/EEC Stage II	17543000	16695000
Heavy Duty Truc Rigid >32 t	HD Euro III - 2000 Standards	18821000	17759000
Heavy Duty Truc Rigid >32 t	HD Euro IV - 2005 Standards	6993000	7434000
Heavy Duty Truc Rigid >32 t	HD Euro V - 2008 Standards	9472000	10880000
Heavy Duty Truc Rigid >32 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 14 - 20 t	Conventional	4256000	2690000
Heavy Duty Truc Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	1128000	880000
Heavy Duty Truc Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	6148000	6032000
Heavy Duty Truc Articulated 14 - 20 t	HD Euro III - 2000 Standards	10560000	9405000
Heavy Duty Truc Articulated 14 - 20 t	HD Euro IV - 2005 Standards	3348000	3192000
Heavy Duty Truc Articulated 14 - 20 t	HD Euro V - 2008 Standards	3339000	3894000
Heavy Duty Truc Articulated 14 - 20 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 20 - 28 t	Conventional	3376000	2040000
Heavy Duty Truc Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	912000	600000
Heavy Duty Truc Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	1325000	1352000
Heavy Duty Truc Articulated 20 - 28 t	HD Euro III - 2000 Standards	1020000	770000
Heavy Duty Truc Articulated 20 - 28 t	HD Euro IV - 2005 Standards	62000	57000
Heavy Duty Truc Articulated 20 - 28 t	HD Euro V - 2008 Standards	252000	354000
Heavy Duty Truc Articulated 20 - 28 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 28 - 34 t	Conventional	10272000	6230000
Heavy Duty Truc Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	1056000	720000
Heavy Duty Truc Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	4293000	4108000
Heavy Duty Truc Articulated 28 - 34 t	HD Euro III - 2000 Standards	4620000	4368000
Heavy Duty Truc Articulated 28 - 34 t	HD Euro IV - 2005 Standards	0	0
Heavy Duty Truc Articulated 28 - 34 t	HD Euro V - 2008 Standards	4536000	4484000
Heavy Duty Truc Articulated 28 - 34 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 34 - 40 t	Conventional	14016000	8600000
Heavy Duty Truc Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	3360000	2780000
Heavy Duty Truc Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	9328000	9776000
Heavy Duty Truc Articulated 34 - 40 t	HD Euro III - 2000 Standards	8820000	8736000
Heavy Duty Truc Articulated 34 - 40 t	HD Euro IV - 2005 Standards	682000	627000
Heavy Duty Truc Articulated 34 - 40 t	HD Euro V - 2008 Standards	1071000	1534000
Heavy Duty Truc Articulated 34 - 40 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 40 - 50 t	Conventional	247280000	142090000
Heavy Duty Truc Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	158712000	113140000
Heavy Duty Truc Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	1595052000	1345344000
Heavy Duty Truc Articulated 40 - 50 t	HD Euro III - 2000 Standards	3455040000	3082750000
Heavy Duty Truc Articulated 40 - 50 t	HD Euro IV - 2005 Standards	451647000	415500000

Heavy Duty Truc Articulated 40 - 50 t	HD Euro V - 2008 Standards	2530240000	2716025000
Heavy Duty Truc Articulated 40 - 50 t	HD Euro VI	0	366000
Heavy Duty Truc Articulated 50 - 60 t	Conventional	6288000	3630000
Heavy Duty Truc Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	2136000	1600000
Heavy Duty Truc Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	12528000	11284000
Heavy Duty Truc Articulated 50 - 60 t	HD Euro III - 2000 Standards	21594000	21106000
Heavy Duty Truc Articulated 50 - 60 t	HD Euro IV - 2005 Standards	6048000	5795000
Heavy Duty Truc Articulated 50 - 60 t	HD Euro V - 2008 Standards	15939000	17324000
Heavy Duty Truc Articulated 50 - 60 t	HD Euro VI	0	0
Buses Urban Buses Midi <=15 t	Conventional	35596000	22380000
Buses Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	15232000	14400000
Buses Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	45638000	44612000
Buses Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	66240000	65160000
Buses Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	35144000	35006000
Buses Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	19364000	27871000
Buses Urban Buses Midi <=15 t	HD Euro VI	0	0
Buses Urban Buses Standard 15 -	Conventional	38302000	23040000
Buses Urban Buses Standard 15 -	HD Euro I - 91/542/EEC Stage I	10144000	9376000
Buses Urban Buses Standard 15 -	HD Euro II - 91/542/EEC Stage II	86222000	83296000
Buses Urban Buses Standard 15 -	HD Euro III - 2000 Standards	71235000	70875000
Buses Urban Buses Standard 15 -	HD Euro IV - 2005 Standards	15686000	15640000
Buses Urban Buses Standard 15 -	HD Euro V - 2008 Standards	29093000	34686000
Buses Urban Buses Standard 15 -	HD Euro VI	0	0
Buses Urban Buses Articulated >1	Conventional	5324000	3090000
Buses Urban Buses Articulated >1	HD Euro I - 91/542/EEC Stage I	2688000	2592000
Buses Urban Buses Articulated >1	HD Euro II - 91/542/EEC Stage II	19570000	19228000
Buses Urban Buses Articulated >1	HD Euro III - 2000 Standards	35370000	35505000
Buses Urban Buses Articulated >1	HD Euro IV - 2005 Standards	5842000	5750000
Buses Urban Buses Articulated >1	HD Euro V - 2008 Standards	21216000	24432000
Buses Urban Buses Articulated >1	HD Euro VI	0	48000
Buses Coaches Standard <=18 t	Conventional	446400000	237870000
Buses Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	181202000	167313000
Buses Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	885696000	846576000
Buses Coaches Standard <=18 t	HD Euro III - 2000 Standards	844792000	823628000
Buses Coaches Standard <=18 t	HD Euro IV - 2005 Standards	329000000	322840000
Buses Coaches Standard <=18 t	HD Euro V - 2008 Standards	328980000	418620000
Buses Coaches Standard <=18 t	HD Euro VI	0	60000
Buses Coaches Articulated >18 t	Conventional	32225000	16155000
Buses Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	19135000	18318000
Buses Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	131328000	127344000
Buses Coaches Articulated >18 t	HD Euro III - 2000 Standards	225666000	223074000
Buses Coaches Articulated >18 t	HD Euro IV - 2005 Standards	37968000	36680000
Buses Coaches Articulated >18 t	HD Euro V - 2008 Standards	140940000	159900000
Buses Coaches Articulated >18 t	HD Euro VI	0	240000
Buses Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	60000	20000
Buses Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	8424000	8016000
Buses Urban CNG Buses	HD Euro III - 2000 Standards	9075000	8875000
Buses Urban CNG Buses	EEV	76674000	79950000
Buses Urban Biodiesel Buses	Conventional	0	0
Buses Urban Biodiesel Buses	HD Euro I - 91/542/EEC Stage I	0	0

Buses	Urban Biodiesel Buses	HD Euro II - 91/542/EEC Stage II	0	0
Buses	Urban Biodiesel Buses	HD Euro III - 2000 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro IV - 2005 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro V - 2008 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro VI	0	0
Mopeds	2-stroke <50 cm <sup>3</sup>	Conventional	4123288000	2839593000
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro I	2793675500	2737801500
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro II	4155420000	4308564000
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro III	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Conventional	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro I	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro II	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro III	0	0
Motorcycles	2-stroke >50 cm <sup>3</sup>	Conventional	2005210000	1520743500
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro I	875938500	854388000
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro II	294840000	295824000
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro III	175060000	206095000
Motorcycles	4-stroke <250 cm <sup>3</sup>	Conventional	277232000	207411000
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro I	3139965000	3379625000
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro II	2867265600	2881110000
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro III	4204755000	4641530000
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Conventional	1279320000	961165500
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro I	2085235000	2229337000
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro II	3255114500	3185952000
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro III	4057789910	4385888370
Motorcycles	4-stroke >750 cm <sup>3</sup>	Conventional	351724000	266136000
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro I	956202500	933504000
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro II	862758000	840102000
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro III	1593136170	1755031077

## **10 Appendice B – distribuzione percentuale delle percorrenze**

Nelle tabelle a seguire si riporta la distribuzione percentuale delle percorrenze per ambito (“rural”, “urban”, “highway”). La banca dati di riferimento è quella “SINAnet – Rete del Sistema Informativa Nazionale Ambientale”, coerente al Programma Copert 4 (versione 10.0 – Novembre 2012).



Sector	Subsector	Technology	2011	2012
Passenger Cars	Gasoline <0,8 l	PC Euro 4 - 98/69/EC Stage2005	0	30
Passenger Cars	Gasoline <0,8 l	PC Euro 5 - EC 715/2007	0	30
Passenger Cars	Gasoline <0,8 l	PC Euro 6 - EC 715/2007	0	30
Passenger Cars	Gasoline 0,8 - 1,4 l	PRE ECE	60	60
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/00-01	60	60
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/02	60	60
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/03	60	60
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/04	40	40
Passenger Cars	Gasoline 0,8 - 1,4 l	Improved Conventional	0	0
Passenger Cars	Gasoline 0,8 - 1,4 l	Open Loop	0	0
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 1 - 91/441/EEC	35	35
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 6 - EC 715/2007	0	30
Passenger Cars	Gasoline 1,4 - 2,0 l	PRE ECE	35	35
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/00-01	35	35
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/02	35	35
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/03	35	35
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/04	30	30
Passenger Cars	Gasoline 1,4 - 2,0 l	Improved Conventional	0	0
Passenger Cars	Gasoline 1,4 - 2,0 l	Open Loop	0	0
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	25	25
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	20	20
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	20	20
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	20	20
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	20	20
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0	20
Passenger Cars	Gasoline >2,0 l	PRE ECE	30	30
Passenger Cars	Gasoline >2,0 l	ECE 15/00-01	30	30
Passenger Cars	Gasoline >2,0 l	ECE 15/02	20	20
Passenger Cars	Gasoline >2,0 l	ECE 15/03	20	20
Passenger Cars	Gasoline >2,0 l	ECE 15/04	15	15
Passenger Cars	Gasoline >2,0 l	PC Euro 1 - 91/441/EEC	15	15
Passenger Cars	Gasoline >2,0 l	PC Euro 2 - 94/12/EEC	15	15
Passenger Cars	Gasoline >2,0 l	PC Euro 3 - 98/69/EC Stage2000	15	15
Passenger Cars	Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	15	15
Passenger Cars	Gasoline >2,0 l	PC Euro 5 - EC 715/2007	15	15
Passenger Cars	Gasoline >2,0 l	PC Euro 6 - EC 715/2007	15	15
Passenger Cars	Diesel <1,4 l	PC Euro 4 - 98/69/EC Stage2005	15	15
Passenger Cars	Diesel <1,4 l	PC Euro 5 - EC 715/2007	15	15
Passenger Cars	Diesel <1,4 l	PC Euro 6 - EC 715/2007	15	15
Passenger Cars	Diesel 1,4 - 2,0 l	Conventional	15	15
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	15	15
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	15	15
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	15	15
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	15	15
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	15	15

Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	15	15
Passenger Cars	Diesel >2,0 l	Conventional	10	10
Passenger Cars	Diesel >2,0 l	PC Euro 1 - 91/441/EEC	10	10
Passenger Cars	Diesel >2,0 l	PC Euro 2 - 94/12/EEC	10	10
Passenger Cars	Diesel >2,0 l	PC Euro 3 - 98/69/EC Stage2000	10	10
Passenger Cars	Diesel >2,0 l	PC Euro 4 - 98/69/EC Stage2005	10	10
Passenger Cars	Diesel >2,0 l	PC Euro 5 - EC 715/2007	10	10
Passenger Cars	Diesel >2,0 l	PC Euro 6 - EC 715/2007	10	10
Passenger Cars	LPG	Conventional	30	30
Passenger Cars	LPG	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	LPG	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	LPG	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	LPG	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	LPG	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	LPG	PC Euro 6 - EC 715/2007	0	30
Passenger Cars	E85	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	E85	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	E85	PC Euro 6 - EC 715/2007	0	30
Passenger Cars	CNG	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	CNG	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	CNG	PC Euro 6 - EC 715/2007	30	30
Passenger Cars	Natural Gas < 1,4 l	Conventional	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 6 - EC 715/2007	0	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	Conventional	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	Natural Gas > 2,0 l	Conventional	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	2-Stroke	Conventional	0	0
Passenger Cars	Hybrid Gasoline <1,4 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Hybrid Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Hybrid Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0	30
Light Commercial Vehicles	Gasoline <3,5t	Conventional	25	25
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 1 - 93/59/EEC	25	25
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 2 - 96/69/EEC	25	25
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 3 - 98/69/EC Stage2000	25	25

Light Commercial Vehicles	Gasoline <3,5t	LD Euro 4 - 98/69/EC Stage2005	25	25
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 5 - 2008 Standards	25	25
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 6	0	0
Light Commercial Vehicles	Diesel <3,5 t	Conventional	25	25
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 1 - 93/59/EEC	25	25
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 2 - 96/69/EEC	25	25
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 3 - 98/69/EC Stage2000	25	25
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 4 - 98/69/EC Stage2005	25	25
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 5 - 2008 Standards	25	25
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 6	25	25
Heavy Duty Trucks	Gasoline >3,5 t	Conventional	20	20
Heavy Duty Trucks	Rigid <=7,5 t	Conventional	15	15
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro I - 91/542/EEC Stage I	15	15
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro II - 91/542/EEC Stage II	15	15
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro III - 2000 Standards	15	15
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro IV - 2005 Standards	15	15
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro V - 2008 Standards	15	15
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro VI	0	0
Heavy Duty Trucks	Rigid 7,5 - 12 t	Conventional	10	10
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro VI	0	0
Heavy Duty Trucks	Rigid 12 - 14 t	Conventional	10	10
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro VI	0	0
Heavy Duty Trucks	Rigid 14 - 20 t	Conventional	10	10
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro VI	0	0
Heavy Duty Trucks	Rigid 20 - 26 t	Conventional	10	10
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro VI	0	10
Heavy Duty Trucks	Rigid 26 - 28 t	Conventional	10	10
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro III - 2000 Standards	10	10

Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro VI	0	0
Heavy Duty Trucks	Rigid 28 - 32 t	Conventional	10	10
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro VI	0	10
Heavy Duty Trucks	Rigid >32 t	Conventional	10	10
Heavy Duty Trucks	Rigid >32 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Rigid >32 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Rigid >32 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Rigid >32 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Rigid >32 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Rigid >32 t	HD Euro VI	0	0
Heavy Duty Trucks	Articulated 14 - 20 t	Conventional	10	10
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro VI	0	0
Heavy Duty Trucks	Articulated 20 - 28 t	Conventional	10	10
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro VI	0	0
Heavy Duty Trucks	Articulated 28 - 34 t	Conventional	10	10
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro VI	0	0
Heavy Duty Trucks	Articulated 34 - 40 t	Conventional	10	10
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro VI	0	0
Heavy Duty Trucks	Articulated 40 - 50 t	Conventional	10	10
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro IV - 2005 Standards	10	10

Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro VI	0	10
Heavy Duty Trucks	Articulated 50 - 60 t	Conventional	10	10
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	10	10
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	10	10
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro III - 2000 Standards	10	10
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro IV - 2005 Standards	10	10
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro V - 2008 Standards	10	10
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro VI	0	0
Buses	Urban Buses Midi <=15 t	Conventional	90	90
Buses	Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	90	90
Buses	Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	90	90
Buses	Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	90	90
Buses	Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	90	90
Buses	Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	90	90
Buses	Urban Buses Midi <=15 t	HD Euro VI	0	0
Buses	Urban Buses Standard 15 -	Conventional	90	90
Buses	Urban Buses Standard 15 -	HD Euro I - 91/542/EEC Stage I	90	90
Buses	Urban Buses Standard 15 -	HD Euro II - 91/542/EEC Stage II	90	90
Buses	Urban Buses Standard 15 -	HD Euro III - 2000 Standards	90	90
Buses	Urban Buses Standard 15 -	HD Euro IV - 2005 Standards	90	90
Buses	Urban Buses Standard 15 -	HD Euro V - 2008 Standards	90	90
Buses	Urban Buses Standard 15 -	HD Euro VI	0	0
Buses	Urban Buses Articulated >1	Conventional	90	90
Buses	Urban Buses Articulated >1	HD Euro I - 91/542/EEC Stage I	90	90
Buses	Urban Buses Articulated >1	HD Euro II - 91/542/EEC Stage II	90	90
Buses	Urban Buses Articulated >1	HD Euro III - 2000 Standards	90	90
Buses	Urban Buses Articulated >1	HD Euro IV - 2005 Standards	90	90
Buses	Urban Buses Articulated >1	HD Euro V - 2008 Standards	90	90
Buses	Urban Buses Articulated >1	HD Euro VI	0	90
Buses	Coaches Standard <=18 t	Conventional	10	10
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	10	10
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	10	10
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards	10	10
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards	10	10
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards	10	10
Buses	Coaches Standard <=18 t	HD Euro VI	0	10
Buses	Coaches Articulated >18 t	Conventional	10	10
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	10	10
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	10	10
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards	10	10
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards	10	10
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards	10	10
Buses	Coaches Articulated >18 t	HD Euro VI	0	10
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	90	90
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	90	90
Buses	Urban CNG Buses	HD Euro III - 2000 Standards	90	90
Buses	Urban CNG Buses	EEV	90	90
Buses	Urban Biodiesel Buses	Conventional	0	0
Buses	Urban Biodiesel Buses	HD Euro I - 91/542/EEC Stage I	0	0

Buses	Urban Biodiesel Buses	HD Euro II - 91/542/EEC Stage II	0	0
Buses	Urban Biodiesel Buses	HD Euro III - 2000 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro IV - 2005 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro V - 2008 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro VI	0	0
Mopeds	2-stroke <50 cm <sup>3</sup>	Conventional	70	70
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro I	70	70
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro II	70	70
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro III	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Conventional	70	70
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro I	70	70
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro II	70	70
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro III	0	0
Motorcycles	2-stroke >50 cm <sup>3</sup>	Conventional	60	60
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro I	60	60
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro II	60	60
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro III	60	60
Motorcycles	4-stroke <250 cm <sup>3</sup>	Conventional	60	60
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro I	60	60
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro II	60	60
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro III	60	60
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Conventional	60	60
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro I	60	60
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro II	60	60
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro III	60	60
Motorcycles	4-stroke >750 cm <sup>3</sup>	Conventional	60	60
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro I	60	60
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro II	60	60
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro III	60	60

Sector	Subsector	Technology	2011	2012
Passenger Cars	Gasoline <0,8 l	PC Euro 4 - 98/69/EC Stage2005	0	45
Passenger Cars	Gasoline <0,8 l	PC Euro 5 - EC 715/2007	0	45
Passenger Cars	Gasoline <0,8 l	PC Euro 6 - EC 715/2007	0	45
Passenger Cars	Gasoline 0,8 - 1,4 l	PRE ECE	39	39
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/00-01	39	39
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/02	39	39
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/03	39	39
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/04	40	40
Passenger Cars	Gasoline 0,8 - 1,4 l	Improved Conventional	0	0
Passenger Cars	Gasoline 0,8 - 1,4 l	Open Loop	0	0
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 1 - 91/441/EEC	45	45
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 2 - 94/12/EEC	45	45
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 3 - 98/69/EC Stage2000	45	45
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 4 - 98/69/EC Stage2005	45	45
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 5 - EC 715/2007	45	45
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 6 - EC 715/2007	0	45
Passenger Cars	Gasoline 1,4 - 2,0 l	PRE ECE	60	60
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/00-01	60	60
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/02	60	60
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/03	60	60
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/04	50	50
Passenger Cars	Gasoline 1,4 - 2,0 l	Improved Conventional	0	0
Passenger Cars	Gasoline 1,4 - 2,0 l	Open Loop	0	0
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	50	50
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	45	45
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	45	45
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	45	45
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	45	45
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0	45
Passenger Cars	Gasoline >2,0 l	PRE ECE	60	60
Passenger Cars	Gasoline >2,0 l	ECE 15/00-01	60	60
Passenger Cars	Gasoline >2,0 l	ECE 15/02	60	60
Passenger Cars	Gasoline >2,0 l	ECE 15/03	55	55
Passenger Cars	Gasoline >2,0 l	ECE 15/04	55	55
Passenger Cars	Gasoline >2,0 l	PC Euro 1 - 91/441/EEC	50	50
Passenger Cars	Gasoline >2,0 l	PC Euro 2 - 94/12/EEC	50	50
Passenger Cars	Gasoline >2,0 l	PC Euro 3 - 98/69/EC Stage2000	50	50
Passenger Cars	Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	50	50
Passenger Cars	Gasoline >2,0 l	PC Euro 5 - EC 715/2007	50	50
Passenger Cars	Gasoline >2,0 l	PC Euro 6 - EC 715/2007	50	50
Passenger Cars	Diesel <1,4 l	PC Euro 4 - 98/69/EC Stage2005	55	55
Passenger Cars	Diesel <1,4 l	PC Euro 5 - EC 715/2007	55	55
Passenger Cars	Diesel <1,4 l	PC Euro 6 - EC 715/2007	55	55
Passenger Cars	Diesel 1,4 - 2,0 l	Conventional	55	55
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	55	55
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	55	55
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	55	55
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	55	55
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	55	55

Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	55	55
Passenger Cars	Diesel >2,0 l	Conventional	50	50
Passenger Cars	Diesel >2,0 l	PC Euro 1 - 91/441/EEC	50	50
Passenger Cars	Diesel >2,0 l	PC Euro 2 - 94/12/EEC	50	50
Passenger Cars	Diesel >2,0 l	PC Euro 3 - 98/69/EC Stage2000	50	50
Passenger Cars	Diesel >2,0 l	PC Euro 4 - 98/69/EC Stage2005	50	50
Passenger Cars	Diesel >2,0 l	PC Euro 5 - EC 715/2007	50	50
Passenger Cars	Diesel >2,0 l	PC Euro 6 - EC 715/2007	50	50
Passenger Cars	LPG	Conventional	40	40
Passenger Cars	LPG	PC Euro 1 - 91/441/EEC	40	40
Passenger Cars	LPG	PC Euro 2 - 94/12/EEC	40	40
Passenger Cars	LPG	PC Euro 3 - 98/69/EC Stage2000	40	40
Passenger Cars	LPG	PC Euro 4 - 98/69/EC Stage2005	40	40
Passenger Cars	LPG	PC Euro 5 - EC 715/2007	40	40
Passenger Cars	LPG	PC Euro 6 - EC 715/2007	0	40
Passenger Cars	E85	PC Euro 4 - 98/69/EC Stage2005	45	45
Passenger Cars	E85	PC Euro 5 - EC 715/2007	45	45
Passenger Cars	E85	PC Euro 6 - EC 715/2007	0	45
Passenger Cars	CNG	PC Euro 4 - 98/69/EC Stage2005	40	40
Passenger Cars	CNG	PC Euro 5 - EC 715/2007	40	40
Passenger Cars	CNG	PC Euro 6 - EC 715/2007	40	40
Passenger Cars	Natural Gas < 1,4 l	Conventional	40	40
Passenger Cars	Natural Gas < 1,4 l	PC Euro 1 - 91/441/EEC	40	40
Passenger Cars	Natural Gas < 1,4 l	PC Euro 2 - 94/12/EEC	40	40
Passenger Cars	Natural Gas < 1,4 l	PC Euro 3 - 98/69/EC Stage2000	40	40
Passenger Cars	Natural Gas < 1,4 l	PC Euro 4 - 98/69/EC Stage2005	40	40
Passenger Cars	Natural Gas < 1,4 l	PC Euro 5 - EC 715/2007	40	40
Passenger Cars	Natural Gas < 1,4 l	PC Euro 6 - EC 715/2007	0	40
Passenger Cars	Natural Gas 1,4 - 2,0 l	Conventional	40	40
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	40	40
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	40	40
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	40	40
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	40	40
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	40	40
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	Natural Gas > 2,0 l	Conventional	40	40
Passenger Cars	Natural Gas > 2,0 l	PC Euro 1 - 91/441/EEC	40	40
Passenger Cars	Natural Gas > 2,0 l	PC Euro 2 - 94/12/EEC	40	40
Passenger Cars	Natural Gas > 2,0 l	PC Euro 3 - 98/69/EC Stage2000	40	40
Passenger Cars	Natural Gas > 2,0 l	PC Euro 4 - 98/69/EC Stage2005	40	40
Passenger Cars	Natural Gas > 2,0 l	PC Euro 5 - EC 715/2007	40	40
Passenger Cars	Natural Gas > 2,0 l	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	2-Stroke	Conventional	0	0
Passenger Cars	Hybrid Gasoline <1,4 l	PC Euro 4 - 98/69/EC Stage2005	45	45
Passenger Cars	Hybrid Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	45	45
Passenger Cars	Hybrid Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0	45
Light Commercial	Gasoline <3,5t	Conventional	55	55
Light Commercial	Gasoline <3,5t	LD Euro 1 - 93/59/EEC	55	55
Light Commercial	Gasoline <3,5t	LD Euro 2 - 96/69/EEC	55	55
Light Commercial	Gasoline <3,5t	LD Euro 3 - 98/69/EC Stage2000	55	55



Light Commercial Gasoline <3,5t	LD Euro 4 - 98/69/EC Stage2005	55	55
Light Commercial Gasoline <3,5t	LD Euro 5 - 2008 Standards	55	55
Light Commercial Gasoline <3,5t	LD Euro 6	0	0
Light Commercial Diesel <3,5 t	Conventional	55	55
Light Commercial Diesel <3,5 t	LD Euro 1 - 93/59/EEC	55	55
Light Commercial Diesel <3,5 t	LD Euro 2 - 96/69/EEC	55	55
Light Commercial Diesel <3,5 t	LD Euro 3 - 98/69/EC Stage2000	55	55
Light Commercial Diesel <3,5 t	LD Euro 4 - 98/69/EC Stage2005	55	55
Light Commercial Diesel <3,5 t	LD Euro 5 - 2008 Standards	55	55
Light Commercial Diesel <3,5 t	LD Euro 6	55	55
Heavy Duty Truc Gasoline >3,5 t	Conventional	60	60
Heavy Duty Truc Rigid <=7,5 t	Conventional	45	45
Heavy Duty Truc Rigid <=7,5 t	HD Euro I - 91/542/EEC Stage I	45	45
Heavy Duty Truc Rigid <=7,5 t	HD Euro II - 91/542/EEC Stage II	45	45
Heavy Duty Truc Rigid <=7,5 t	HD Euro III - 2000 Standards	45	45
Heavy Duty Truc Rigid <=7,5 t	HD Euro IV - 2005 Standards	45	45
Heavy Duty Truc Rigid <=7,5 t	HD Euro V - 2008 Standards	45	45
Heavy Duty Truc Rigid <=7,5 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 7,5 - 12 t	Conventional	40	40
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro I - 91/542/EEC Stage I	40	40
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro II - 91/542/EEC Stage II	40	40
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	40	40
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	40	40
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	40	40
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 12 - 14 t	Conventional	40	40
Heavy Duty Truc Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	40	40
Heavy Duty Truc Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	40	40
Heavy Duty Truc Rigid 12 - 14 t	HD Euro III - 2000 Standards	40	40
Heavy Duty Truc Rigid 12 - 14 t	HD Euro IV - 2005 Standards	40	40
Heavy Duty Truc Rigid 12 - 14 t	HD Euro V - 2008 Standards	40	40
Heavy Duty Truc Rigid 12 - 14 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 14 - 20 t	Conventional	35	35
Heavy Duty Truc Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	35	35
Heavy Duty Truc Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	35	35
Heavy Duty Truc Rigid 14 - 20 t	HD Euro III - 2000 Standards	35	35
Heavy Duty Truc Rigid 14 - 20 t	HD Euro IV - 2005 Standards	35	35
Heavy Duty Truc Rigid 14 - 20 t	HD Euro V - 2008 Standards	35	35
Heavy Duty Truc Rigid 14 - 20 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 20 - 26 t	Conventional	35	35
Heavy Duty Truc Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	35	35
Heavy Duty Truc Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	35	35
Heavy Duty Truc Rigid 20 - 26 t	HD Euro III - 2000 Standards	35	35
Heavy Duty Truc Rigid 20 - 26 t	HD Euro IV - 2005 Standards	35	35
Heavy Duty Truc Rigid 20 - 26 t	HD Euro V - 2008 Standards	35	35
Heavy Duty Truc Rigid 20 - 26 t	HD Euro VI	0	35
Heavy Duty Truc Rigid 26 - 28 t	Conventional	35	35
Heavy Duty Truc Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	35	35
Heavy Duty Truc Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	35	35
Heavy Duty Truc Rigid 26 - 28 t	HD Euro III - 2000 Standards	35	35

Heavy Duty Truc Rigid 26 - 28 t	HD Euro IV - 2005 Standards	35	35
Heavy Duty Truc Rigid 26 - 28 t	HD Euro V - 2008 Standards	35	35
Heavy Duty Truc Rigid 26 - 28 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 28 - 32 t	Conventional	35	35
Heavy Duty Truc Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	35	35
Heavy Duty Truc Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	35	35
Heavy Duty Truc Rigid 28 - 32 t	HD Euro III - 2000 Standards	35	35
Heavy Duty Truc Rigid 28 - 32 t	HD Euro IV - 2005 Standards	35	35
Heavy Duty Truc Rigid 28 - 32 t	HD Euro V - 2008 Standards	35	35
Heavy Duty Truc Rigid 28 - 32 t	HD Euro VI	0	35
Heavy Duty Truc Rigid >32 t	Conventional	30	30
Heavy Duty Truc Rigid >32 t	HD Euro I - 91/542/EEC Stage I	30	30
Heavy Duty Truc Rigid >32 t	HD Euro II - 91/542/EEC Stage II	30	30
Heavy Duty Truc Rigid >32 t	HD Euro III - 2000 Standards	30	30
Heavy Duty Truc Rigid >32 t	HD Euro IV - 2005 Standards	30	30
Heavy Duty Truc Rigid >32 t	HD Euro V - 2008 Standards	30	30
Heavy Duty Truc Rigid >32 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 14 - 20 t	Conventional	30	30
Heavy Duty Truc Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	30	30
Heavy Duty Truc Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	30	30
Heavy Duty Truc Articulated 14 - 20 t	HD Euro III - 2000 Standards	30	30
Heavy Duty Truc Articulated 14 - 20 t	HD Euro IV - 2005 Standards	30	30
Heavy Duty Truc Articulated 14 - 20 t	HD Euro V - 2008 Standards	30	30
Heavy Duty Truc Articulated 14 - 20 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 20 - 28 t	Conventional	30	30
Heavy Duty Truc Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	30	30
Heavy Duty Truc Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	30	30
Heavy Duty Truc Articulated 20 - 28 t	HD Euro III - 2000 Standards	30	30
Heavy Duty Truc Articulated 20 - 28 t	HD Euro IV - 2005 Standards	30	30
Heavy Duty Truc Articulated 20 - 28 t	HD Euro V - 2008 Standards	30	30
Heavy Duty Truc Articulated 20 - 28 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 28 - 34 t	Conventional	30	30
Heavy Duty Truc Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	30	30
Heavy Duty Truc Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	30	30
Heavy Duty Truc Articulated 28 - 34 t	HD Euro III - 2000 Standards	30	30
Heavy Duty Truc Articulated 28 - 34 t	HD Euro IV - 2005 Standards	30	30
Heavy Duty Truc Articulated 28 - 34 t	HD Euro V - 2008 Standards	30	30
Heavy Duty Truc Articulated 28 - 34 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 34 - 40 t	Conventional	30	30
Heavy Duty Truc Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	30	30
Heavy Duty Truc Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	30	30
Heavy Duty Truc Articulated 34 - 40 t	HD Euro III - 2000 Standards	30	30
Heavy Duty Truc Articulated 34 - 40 t	HD Euro IV - 2005 Standards	30	30
Heavy Duty Truc Articulated 34 - 40 t	HD Euro V - 2008 Standards	30	30
Heavy Duty Truc Articulated 34 - 40 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 40 - 50 t	Conventional	30	30
Heavy Duty Truc Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	30	30
Heavy Duty Truc Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	30	30
Heavy Duty Truc Articulated 40 - 50 t	HD Euro III - 2000 Standards	30	30
Heavy Duty Truc Articulated 40 - 50 t	HD Euro IV - 2005 Standards	30	30

Heavy Duty Truc Articulated 40 - 50 t	HD Euro V - 2008 Standards	30	30
Heavy Duty Truc Articulated 40 - 50 t	HD Euro VI	0	30
Heavy Duty Truc Articulated 50 - 60 t	Conventional	30	30
Heavy Duty Truc Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	30	30
Heavy Duty Truc Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	30	30
Heavy Duty Truc Articulated 50 - 60 t	HD Euro III - 2000 Standards	30	30
Heavy Duty Truc Articulated 50 - 60 t	HD Euro IV - 2005 Standards	30	30
Heavy Duty Truc Articulated 50 - 60 t	HD Euro V - 2008 Standards	30	30
Heavy Duty Truc Articulated 50 - 60 t	HD Euro VI	0	0
Buses Urban Buses Midi <=15 t	Conventional	10	10
Buses Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	10	10
Buses Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	10	10
Buses Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	10	10
Buses Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	10	10
Buses Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	10	10
Buses Urban Buses Midi <=15 t	HD Euro VI	0	0
Buses Urban Buses Standard 15 -	Conventional	10	10
Buses Urban Buses Standard 15 -	HD Euro I - 91/542/EEC Stage I	10	10
Buses Urban Buses Standard 15 -	HD Euro II - 91/542/EEC Stage II	10	10
Buses Urban Buses Standard 15 -	HD Euro III - 2000 Standards	10	10
Buses Urban Buses Standard 15 -	HD Euro IV - 2005 Standards	10	10
Buses Urban Buses Standard 15 -	HD Euro V - 2008 Standards	10	10
Buses Urban Buses Standard 15 -	HD Euro VI	0	0
Buses Urban Buses Articulated >1	Conventional	10	10
Buses Urban Buses Articulated >1	HD Euro I - 91/542/EEC Stage I	10	10
Buses Urban Buses Articulated >1	HD Euro II - 91/542/EEC Stage II	10	10
Buses Urban Buses Articulated >1	HD Euro III - 2000 Standards	10	10
Buses Urban Buses Articulated >1	HD Euro IV - 2005 Standards	10	10
Buses Urban Buses Articulated >1	HD Euro V - 2008 Standards	10	10
Buses Urban Buses Articulated >1	HD Euro VI	0	10
Buses Coaches Standard <=18 t	Conventional	30	30
Buses Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	30	30
Buses Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	30	30
Buses Coaches Standard <=18 t	HD Euro III - 2000 Standards	30	30
Buses Coaches Standard <=18 t	HD Euro IV - 2005 Standards	30	30
Buses Coaches Standard <=18 t	HD Euro V - 2008 Standards	30	30
Buses Coaches Standard <=18 t	HD Euro VI	0	30
Buses Coaches Articulated >18 t	Conventional	30	30
Buses Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	30	30
Buses Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	30	30
Buses Coaches Articulated >18 t	HD Euro III - 2000 Standards	30	30
Buses Coaches Articulated >18 t	HD Euro IV - 2005 Standards	30	30
Buses Coaches Articulated >18 t	HD Euro V - 2008 Standards	30	30
Buses Coaches Articulated >18 t	HD Euro VI	0	30
Buses Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	10	10
Buses Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	10	10
Buses Urban CNG Buses	HD Euro III - 2000 Standards	10	10
Buses Urban CNG Buses	EEV	10	10
Buses Urban Biodiesel Buses	Conventional	0	0
Buses Urban Biodiesel Buses	HD Euro I - 91/542/EEC Stage I	0	0

Buses	Urban Biodiesel Buses	HD Euro II - 91/542/EEC Stage II	0	0
Buses	Urban Biodiesel Buses	HD Euro III - 2000 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro IV - 2005 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro V - 2008 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro VI	0	0
Mopeds	2-stroke <50 cm <sup>3</sup>	Conventional	30	30
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro I	30	30
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro II	30	30
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro III	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Conventional	30	30
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro I	30	30
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro II	30	30
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro III	0	0
Motorcycles	2-stroke >50 cm <sup>3</sup>	Conventional	35	35
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro I	35	35
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro II	35	35
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro III	35	35
Motorcycles	4-stroke <250 cm <sup>3</sup>	Conventional	35	35
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro I	35	35
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro II	35	35
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro III	35	35
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Conventional	35	35
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro I	35	35
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro II	35	35
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro III	35	35
Motorcycles	4-stroke >750 cm <sup>3</sup>	Conventional	35	35
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro I	35	35
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro II	35	35
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro III	35	35

Sector	Subsector	Technology	2011	2012
Passenger Cars	Gasoline <0,8 l	PC Euro 4 - 98/69/EC Stage2005	0	25
Passenger Cars	Gasoline <0,8 l	PC Euro 5 - EC 715/2007	0	25
Passenger Cars	Gasoline <0,8 l	PC Euro 6 - EC 715/2007	0	25
Passenger Cars	Gasoline 0,8 - 1,4 l	PRE ECE	1	1
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/00-01	1	1
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/02	1	1
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/03	1	1
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/04	20	20
Passenger Cars	Gasoline 0,8 - 1,4 l	Improved Conventional	0	0
Passenger Cars	Gasoline 0,8 - 1,4 l	Open Loop	0	0
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 1 - 91/441/EEC	20	20
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 2 - 94/12/EEC	25	25
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 3 - 98/69/EC Stage2000	25	25
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 4 - 98/69/EC Stage2005	25	25
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 5 - EC 715/2007	25	25
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 6 - EC 715/2007	0	25
Passenger Cars	Gasoline 1,4 - 2,0 l	PRE ECE	5	5
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/00-01	5	5
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/02	5	5
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/03	5	5
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/04	20	20
Passenger Cars	Gasoline 1,4 - 2,0 l	Improved Conventional	0	0
Passenger Cars	Gasoline 1,4 - 2,0 l	Open Loop	0	0
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	25	25
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	35	35
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	35	35
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	35	35
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	35	35
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0	35
Passenger Cars	Gasoline >2,0 l	PRE ECE	10	10
Passenger Cars	Gasoline >2,0 l	ECE 15/00-01	10	10
Passenger Cars	Gasoline >2,0 l	ECE 15/02	20	20
Passenger Cars	Gasoline >2,0 l	ECE 15/03	25	25
Passenger Cars	Gasoline >2,0 l	ECE 15/04	30	30
Passenger Cars	Gasoline >2,0 l	PC Euro 1 - 91/441/EEC	35	35
Passenger Cars	Gasoline >2,0 l	PC Euro 2 - 94/12/EEC	35	35
Passenger Cars	Gasoline >2,0 l	PC Euro 3 - 98/69/EC Stage2000	35	35
Passenger Cars	Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	35	35
Passenger Cars	Gasoline >2,0 l	PC Euro 5 - EC 715/2007	35	35
Passenger Cars	Gasoline >2,0 l	PC Euro 6 - EC 715/2007	35	35
Passenger Cars	Diesel <1,4 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Diesel <1,4 l	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	Diesel <1,4 l	PC Euro 6 - EC 715/2007	30	30
Passenger Cars	Diesel 1,4 - 2,0 l	Conventional	30	30
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	30	30

Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	30	30
Passenger Cars	Diesel >2,0 l	Conventional	40	40
Passenger Cars	Diesel >2,0 l	PC Euro 1 - 91/441/EEC	40	40
Passenger Cars	Diesel >2,0 l	PC Euro 2 - 94/12/EEC	40	40
Passenger Cars	Diesel >2,0 l	PC Euro 3 - 98/69/EC Stage2000	40	40
Passenger Cars	Diesel >2,0 l	PC Euro 4 - 98/69/EC Stage2005	40	40
Passenger Cars	Diesel >2,0 l	PC Euro 5 - EC 715/2007	40	40
Passenger Cars	Diesel >2,0 l	PC Euro 6 - EC 715/2007	40	40
Passenger Cars	LPG	Conventional	30	30
Passenger Cars	LPG	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	LPG	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	LPG	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	LPG	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	LPG	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	LPG	PC Euro 6 - EC 715/2007	0	30
Passenger Cars	E85	PC Euro 4 - 98/69/EC Stage2005	25	25
Passenger Cars	E85	PC Euro 5 - EC 715/2007	25	25
Passenger Cars	E85	PC Euro 6 - EC 715/2007	0	25
Passenger Cars	CNG	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	CNG	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	CNG	PC Euro 6 - EC 715/2007	30	30
Passenger Cars	Natural Gas < 1,4 l	Conventional	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	Natural Gas < 1,4 l	PC Euro 6 - EC 715/2007	0	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	Conventional	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	Natural Gas > 2,0 l	Conventional	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 1 - 91/441/EEC	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 2 - 94/12/EEC	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 3 - 98/69/EC Stage2000	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 4 - 98/69/EC Stage2005	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 5 - EC 715/2007	30	30
Passenger Cars	Natural Gas > 2,0 l	PC Euro 6 - EC 715/2007	0	0
Passenger Cars	2-Stroke	Conventional	0	0
Passenger Cars	Hybrid Gasoline <1,4 l	PC Euro 4 - 98/69/EC Stage2005	25	25
Passenger Cars	Hybrid Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	25	25
Passenger Cars	Hybrid Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0	25
Light Commercial	Gasoline <3,5t	Conventional	20	20
Light Commercial	Gasoline <3,5t	LD Euro 1 - 93/59/EEC	20	20
Light Commercial	Gasoline <3,5t	LD Euro 2 - 96/69/EEC	20	20
Light Commercial	Gasoline <3,5t	LD Euro 3 - 98/69/EC Stage2000	20	20

Light Commercial Gasoline <3,5t	LD Euro 4 - 98/69/EC Stage2005	20	20
Light Commercial Gasoline <3,5t	LD Euro 5 - 2008 Standards	20	20
Light Commercial Gasoline <3,5t	LD Euro 6	0	0
Light Commercial Diesel <3,5 t	Conventional	20	20
Light Commercial Diesel <3,5 t	LD Euro 1 - 93/59/EEC	20	20
Light Commercial Diesel <3,5 t	LD Euro 2 - 96/69/EEC	20	20
Light Commercial Diesel <3,5 t	LD Euro 3 - 98/69/EC Stage2000	20	20
Light Commercial Diesel <3,5 t	LD Euro 4 - 98/69/EC Stage2005	20	20
Light Commercial Diesel <3,5 t	LD Euro 5 - 2008 Standards	20	20
Light Commercial Diesel <3,5 t	LD Euro 6	20	20
Heavy Duty Truc Gasoline >3,5 t	Conventional	20	20
Heavy Duty Truc Rigid <=7,5 t	Conventional	40	40
Heavy Duty Truc Rigid <=7,5 t	HD Euro I - 91/542/EEC Stage I	40	40
Heavy Duty Truc Rigid <=7,5 t	HD Euro II - 91/542/EEC Stage II	40	40
Heavy Duty Truc Rigid <=7,5 t	HD Euro III - 2000 Standards	40	40
Heavy Duty Truc Rigid <=7,5 t	HD Euro IV - 2005 Standards	40	40
Heavy Duty Truc Rigid <=7,5 t	HD Euro V - 2008 Standards	40	40
Heavy Duty Truc Rigid <=7,5 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 7,5 - 12 t	Conventional	50	50
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro I - 91/542/EEC Stage I	50	50
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro II - 91/542/EEC Stage II	50	50
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	50	50
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	50	50
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	50	50
Heavy Duty Truc Rigid 7,5 - 12 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 12 - 14 t	Conventional	50	50
Heavy Duty Truc Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	50	50
Heavy Duty Truc Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	50	50
Heavy Duty Truc Rigid 12 - 14 t	HD Euro III - 2000 Standards	50	50
Heavy Duty Truc Rigid 12 - 14 t	HD Euro IV - 2005 Standards	50	50
Heavy Duty Truc Rigid 12 - 14 t	HD Euro V - 2008 Standards	50	50
Heavy Duty Truc Rigid 12 - 14 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 14 - 20 t	Conventional	55	55
Heavy Duty Truc Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	55	55
Heavy Duty Truc Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	55	55
Heavy Duty Truc Rigid 14 - 20 t	HD Euro III - 2000 Standards	55	55
Heavy Duty Truc Rigid 14 - 20 t	HD Euro IV - 2005 Standards	55	55
Heavy Duty Truc Rigid 14 - 20 t	HD Euro V - 2008 Standards	55	55
Heavy Duty Truc Rigid 14 - 20 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 20 - 26 t	Conventional	55	55
Heavy Duty Truc Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	55	55
Heavy Duty Truc Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	55	55
Heavy Duty Truc Rigid 20 - 26 t	HD Euro III - 2000 Standards	55	55
Heavy Duty Truc Rigid 20 - 26 t	HD Euro IV - 2005 Standards	55	55
Heavy Duty Truc Rigid 20 - 26 t	HD Euro V - 2008 Standards	55	55
Heavy Duty Truc Rigid 20 - 26 t	HD Euro VI	0	55
Heavy Duty Truc Rigid 26 - 28 t	Conventional	55	55
Heavy Duty Truc Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	55	55
Heavy Duty Truc Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	55	55
Heavy Duty Truc Rigid 26 - 28 t	HD Euro III - 2000 Standards	55	55

Heavy Duty Truc Rigid 26 - 28 t	HD Euro IV - 2005 Standards	55	55
Heavy Duty Truc Rigid 26 - 28 t	HD Euro V - 2008 Standards	55	55
Heavy Duty Truc Rigid 26 - 28 t	HD Euro VI	0	0
Heavy Duty Truc Rigid 28 - 32 t	Conventional	55	55
Heavy Duty Truc Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	55	55
Heavy Duty Truc Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	55	55
Heavy Duty Truc Rigid 28 - 32 t	HD Euro III - 2000 Standards	55	55
Heavy Duty Truc Rigid 28 - 32 t	HD Euro IV - 2005 Standards	55	55
Heavy Duty Truc Rigid 28 - 32 t	HD Euro V - 2008 Standards	55	55
Heavy Duty Truc Rigid 28 - 32 t	HD Euro VI	0	55
Heavy Duty Truc Rigid >32 t	Conventional	60	60
Heavy Duty Truc Rigid >32 t	HD Euro I - 91/542/EEC Stage I	60	60
Heavy Duty Truc Rigid >32 t	HD Euro II - 91/542/EEC Stage II	60	60
Heavy Duty Truc Rigid >32 t	HD Euro III - 2000 Standards	60	60
Heavy Duty Truc Rigid >32 t	HD Euro IV - 2005 Standards	60	60
Heavy Duty Truc Rigid >32 t	HD Euro V - 2008 Standards	60	60
Heavy Duty Truc Rigid >32 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 14 - 20 t	Conventional	60	60
Heavy Duty Truc Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	60	60
Heavy Duty Truc Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	60	60
Heavy Duty Truc Articulated 14 - 20 t	HD Euro III - 2000 Standards	60	60
Heavy Duty Truc Articulated 14 - 20 t	HD Euro IV - 2005 Standards	60	60
Heavy Duty Truc Articulated 14 - 20 t	HD Euro V - 2008 Standards	60	60
Heavy Duty Truc Articulated 14 - 20 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 20 - 28 t	Conventional	60	60
Heavy Duty Truc Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	60	60
Heavy Duty Truc Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	60	60
Heavy Duty Truc Articulated 20 - 28 t	HD Euro III - 2000 Standards	60	60
Heavy Duty Truc Articulated 20 - 28 t	HD Euro IV - 2005 Standards	60	60
Heavy Duty Truc Articulated 20 - 28 t	HD Euro V - 2008 Standards	60	60
Heavy Duty Truc Articulated 20 - 28 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 28 - 34 t	Conventional	60	60
Heavy Duty Truc Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	60	60
Heavy Duty Truc Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	60	60
Heavy Duty Truc Articulated 28 - 34 t	HD Euro III - 2000 Standards	60	60
Heavy Duty Truc Articulated 28 - 34 t	HD Euro IV - 2005 Standards	60	60
Heavy Duty Truc Articulated 28 - 34 t	HD Euro V - 2008 Standards	60	60
Heavy Duty Truc Articulated 28 - 34 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 34 - 40 t	Conventional	60	60
Heavy Duty Truc Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	60	60
Heavy Duty Truc Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	60	60
Heavy Duty Truc Articulated 34 - 40 t	HD Euro III - 2000 Standards	60	60
Heavy Duty Truc Articulated 34 - 40 t	HD Euro IV - 2005 Standards	60	60
Heavy Duty Truc Articulated 34 - 40 t	HD Euro V - 2008 Standards	60	60
Heavy Duty Truc Articulated 34 - 40 t	HD Euro VI	0	0
Heavy Duty Truc Articulated 40 - 50 t	Conventional	60	60
Heavy Duty Truc Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	60	60
Heavy Duty Truc Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	60	60
Heavy Duty Truc Articulated 40 - 50 t	HD Euro III - 2000 Standards	60	60
Heavy Duty Truc Articulated 40 - 50 t	HD Euro IV - 2005 Standards	60	60



Heavy Duty Truc Articulated 40 - 50 t	HD Euro V - 2008 Standards	60	60
Heavy Duty Truc Articulated 40 - 50 t	HD Euro VI	0	60
Heavy Duty Truc Articulated 50 - 60 t	Conventional	60	60
Heavy Duty Truc Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	60	60
Heavy Duty Truc Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	60	60
Heavy Duty Truc Articulated 50 - 60 t	HD Euro III - 2000 Standards	60	60
Heavy Duty Truc Articulated 50 - 60 t	HD Euro IV - 2005 Standards	60	60
Heavy Duty Truc Articulated 50 - 60 t	HD Euro V - 2008 Standards	60	60
Heavy Duty Truc Articulated 50 - 60 t	HD Euro VI	0	0
Buses Urban Buses Midi <=15 t	Conventional	0	0
Buses Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	0	0
Buses Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	0	0
Buses Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	0	0
Buses Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	0	0
Buses Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	0	0
Buses Urban Buses Midi <=15 t	HD Euro VI	0	0
Buses Urban Buses Standard 15 -	Conventional	0	0
Buses Urban Buses Standard 15 -	HD Euro I - 91/542/EEC Stage I	0	0
Buses Urban Buses Standard 15 -	HD Euro II - 91/542/EEC Stage II	0	0
Buses Urban Buses Standard 15 -	HD Euro III - 2000 Standards	0	0
Buses Urban Buses Standard 15 -	HD Euro IV - 2005 Standards	0	0
Buses Urban Buses Standard 15 -	HD Euro V - 2008 Standards	0	0
Buses Urban Buses Standard 15 -	HD Euro VI	0	0
Buses Urban Buses Articulated >1	Conventional	0	0
Buses Urban Buses Articulated >1	HD Euro I - 91/542/EEC Stage I	0	0
Buses Urban Buses Articulated >1	HD Euro II - 91/542/EEC Stage II	0	0
Buses Urban Buses Articulated >1	HD Euro III - 2000 Standards	0	0
Buses Urban Buses Articulated >1	HD Euro IV - 2005 Standards	0	0
Buses Urban Buses Articulated >1	HD Euro V - 2008 Standards	0	0
Buses Urban Buses Articulated >1	HD Euro VI	0	0
Buses Coaches Standard <=18 t	Conventional	60	60
Buses Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	60	60
Buses Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	60	60
Buses Coaches Standard <=18 t	HD Euro III - 2000 Standards	60	60
Buses Coaches Standard <=18 t	HD Euro IV - 2005 Standards	60	60
Buses Coaches Standard <=18 t	HD Euro V - 2008 Standards	60	60
Buses Coaches Standard <=18 t	HD Euro VI	0	60
Buses Coaches Articulated >18 t	Conventional	60	60
Buses Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	60	60
Buses Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	60	60
Buses Coaches Articulated >18 t	HD Euro III - 2000 Standards	60	60
Buses Coaches Articulated >18 t	HD Euro IV - 2005 Standards	60	60
Buses Coaches Articulated >18 t	HD Euro V - 2008 Standards	60	60
Buses Coaches Articulated >18 t	HD Euro VI	0	60
Buses Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	0	0
Buses Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	0	0
Buses Urban CNG Buses	HD Euro III - 2000 Standards	0	0
Buses Urban CNG Buses	EEV	0	0
Buses Urban Biodiesel Buses	Conventional	0	0
Buses Urban Biodiesel Buses	HD Euro I - 91/542/EEC Stage I	0	0

Buses	Urban Biodiesel Buses	HD Euro II - 91/542/EEC Stage II	0	0
Buses	Urban Biodiesel Buses	HD Euro III - 2000 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro IV - 2005 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro V - 2008 Standards	0	0
Buses	Urban Biodiesel Buses	HD Euro VI	0	0
Mopeds	2-stroke <50 cm <sup>3</sup>	Conventional	0	0
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro I	0	0
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro II	0	0
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro III	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Conventional	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro I	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro II	0	0
Mopeds	4-stroke <50 cm <sup>3</sup>	Mop - Euro III	0	0
Motorcycles	2-stroke >50 cm <sup>3</sup>	Conventional	5	5
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro I	5	5
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro II	5	5
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro III	5	5
Motorcycles	4-stroke <250 cm <sup>3</sup>	Conventional	5	5
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro I	5	5
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro II	5	5
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro III	5	5
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Conventional	5	5
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro I	5	5
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro II	5	5
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro III	5	5
Motorcycles	4-stroke >750 cm <sup>3</sup>	Conventional	5	5
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro I	5	5
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro II	5	5
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro III	5	5

## **11 Appendice C – fattori di emissione unitari anno 2011**

La banca dati di riferimento è quella “SINAnet – Rete del Sistema Informativa Nazionale Ambientale”, coerente al Programma Copert 4 (versione 10.0 – Novembre 2012).

Sector	Subsector	Technology	CO_2011_g_km_U	NO2_2011_g_km_U	PM2.5_2011_g_km_U	PM10_2011_g_km_U
Passenger Cars	Gasoline 0,8 - 1,4 l	PRE ECE	56,450549	0,062286	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/00-01	41,378428	0,062286	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/02	35,206846	0,056655	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/03	35,528516	0,059045	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/04	25,429607	0,059588	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 1 - 91/441/EEC	10,623167	0,021746	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 2 - 94/12/EEC	6,827518	0,015276	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 3 - 98/69/EC Stage2000	5,592491	0,005172	0,012411	0,022478
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 4 - 98/69/EC Stage2005	1,665932	0,003754	0,012411	0,022478
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 5 - EC 715/2007	1,642003	0,003219	0,012411	0,022478
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 6 - EC 715/2007	n. d.	n. d.	n. d.	n. d.
Passenger Cars	Gasoline 1,4 - 2,0 l	PRE ECE	72,20835	0,072196	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/00-01	52,928945	0,072196	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/02	45,034607	0,065101	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/03	45,446069	0,063535	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/04	29,436173	0,071791	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	9,930836	0,030457	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	7,797951	0,022494	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	6,985356	0,00762	0,012411	0,022478
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	2,098542	0,005125	0,012411	0,022478
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	2,072307	0,004078	0,012411	0,022478
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	n. d.	n. d.	n. d.	n. d.
Passenger Cars	Gasoline >2,0 l	PRE ECE	78,112991	0,089485	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	ECE 15/00-01	57,257066	0,089485	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	ECE 15/02	50,937378	0,074067	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	ECE 15/03	51,402771	0,104227	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	ECE 15/04	30,777668	0,08699	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	PC Euro 1 - 91/441/EEC	7,867025	0,027771	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	PC Euro 2 - 94/12/EEC	5,8783	0,020375	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	PC Euro 3 - 98/69/EC Stage2000	5,608004	0,007655	0,012411	0,022478
Passenger Cars	Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	1,960891	0,005168	0,012411	0,022478
Passenger Cars	Gasoline >2,0 l	PC Euro 5 - EC 715/2007	1,955663	0,004412	0,012411	0,022478
Passenger Cars	Gasoline >2,0 l	PC Euro 6 - EC 715/2007	1,928365	0,002682	0,012411	0,022478
Passenger Cars	Diesel 1,4 - 2,0 l	Conventional	1,12838	0,078049	0,385339	0,395406
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	0,786442	0,094019	0,107249	0,117316
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	0,687939	0,103637	0,090767	0,100834
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,208809	0,230753	0,063347	0,073413
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,217	0,42483	0,065985	0,076052
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	0,217	0,380029	0,013874	0,023941
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0,217	0,099642	0,013874	0,023941
Passenger Cars	Diesel >2,0 l	Conventional	1,12838	0,11923	0,385339	0,395406
Passenger Cars	Diesel >2,0 l	PC Euro 1 - 91/441/EEC	0,786442	0,094019	0,107249	0,117316
Passenger Cars	Diesel >2,0 l	PC Euro 2 - 94/12/EEC	0,687939	0,103637	0,090767	0,100834
Passenger Cars	Diesel >2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,208809	0,230753	0,063347	0,073413
Passenger Cars	Diesel >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,217	0,42483	0,065985	0,076052
Passenger Cars	Diesel >2,0 l	PC Euro 5 - EC 715/2007	0,217	0,380029	0,013874	0,023941
Passenger Cars	Diesel >2,0 l	PC Euro 6 - EC 715/2007	0,217	0,099642	0,013874	0,023941
Passenger Cars	LPG	Conventional	10,085844	0,087501	0,014351	0,024418
Passenger Cars	LPG	PC Euro 1 - 91/441/EEC	7,537725	0,03746	0,014351	0,024418
Passenger Cars	LPG	PC Euro 2 - 94/12/EEC	5,385662	0,019931	0,014351	0,024418
Passenger Cars	LPG	PC Euro 3 - 98/69/EC Stage2000	4,855162	0,008954	0,012411	0,022478
Passenger Cars	LPG	PC Euro 4 - 98/69/EC Stage2005	1,435409	0,006263	0,012411	0,022478
Passenger Cars	LPG	PC Euro 5 - EC 715/2007	1,435409	0,005373	0,012411	0,022478
Passenger Cars	LPG	PC Euro 6 - EC 715/2007	n. d.	n. d.	n. d.	n. d.
Passenger Cars	Natural Gas < 1,4 l	Conventional	27,860262	0,105304	0,014351	0,024418
Passenger Cars	Natural Gas < 1,4 l	PC Euro 1 - 91/441/EEC	7,915355	0,021265	0,014351	0,024418
Passenger Cars	Natural Gas < 1,4 l	PC Euro 2 - 94/12/EEC	0,883019	0,005567	0,014351	0,024418
Passenger Cars	Natural Gas < 1,4 l	PC Euro 3 - 98/69/EC Stage2000	0,489373	0,001744	0,012411	0,022478
Passenger Cars	Natural Gas < 1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas < 1,4 l	PC Euro 5 - EC 715/2007	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas < 1,4 l	PC Euro 6 - EC 715/2007	n. d.	n. d.	n. d.	n. d.
Passenger Cars	Natural Gas 1,4 - 2,0 l	Conventional	16,170667	0,114201	0,014351	0,024418
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	7,915355	0,021265	0,014351	0,024418
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	0,883019	0,005567	0,014351	0,024418
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,489373	0,001744	0,012411	0,022478
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	n. d.	n. d.	n. d.	n. d.
Passenger Cars	Natural Gas > 2,0 l	Conventional	16,170667	0,114201	0,014351	0,024418
Passenger Cars	Natural Gas > 2,0 l	PC Euro 1 - 91/441/EEC	7,915355	0,021265	0,014351	0,024418
Passenger Cars	Natural Gas > 2,0 l	PC Euro 2 - 94/12/EEC	0,883019	0,005567	0,014351	0,024418
Passenger Cars	Natural Gas > 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,489373	0,001744	0,012411	0,022478
Passenger Cars	Natural Gas > 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas > 2,0 l	PC Euro 5 - EC 715/2007	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas > 2,0 l	PC Euro 6 - EC 715/2007	n. d.	n. d.	n. d.	n. d.
Light Commercial Vehicles	Gasoline <3,5t	Conventional	58,820236	0,093143	0,020706	0,036463
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 1 - 93/59/EEC	26,413915	0,040242	0,020706	0,036463
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 2 - 96/69/EEC	19,580518	0,019687	0,020706	0,036463
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 3 - 98/69/EC Stage2000	17,579567	0,008105	0,018766	0,034523
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 4 - 98/69/EC Stage2005	6,452903	0,00411	0,018766	0,034523
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 5 - 2008 Standards	6,39323	0,003482	0,018766	0,034523
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 6	n. d.	n. d.	n. d.	n. d.
Light Commercial Vehicles	Diesel <3,5 t	Conventional	1,7309	0,329021	0,406917	0,422673
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 1 - 93/59/EEC	0,745265	0,170647	0,154776	0,170532
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 2 - 96/69/EEC	0,745265	0,170647	0,154776	0,170532
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 3 - 98/69/EC Stage2000	0,654351	0,322334	0,11818	0,133937
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 4 - 98/69/EC Stage2005	0,533493	0,572129	0,07418	0,089937
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 5 - 2008 Standards	0,533493	0,299832	0,020726	0,036482
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 6	0,533493	0,100964	0,020726	0,036482
Heavy Duty Trucks	Gasoline >3,5 t	Conventional	5,228918	0,184562	0,037447	0,075335
Heavy Duty Trucks	Rigid <=7,5 t	Conventional	2,786311	0,525245	0,434874	0,472762
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro I - 91/542/EEC Stage I	0,957637	0,367846	0,191538	0,229426
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro II - 91/542/EEC Stage II	0,712146	0,407697	0,102242	0,14013

Heavy Duty Trucks	Rigid <=7,5 t	HD Euro III - 2000 Standards	0,949256	0,427826	0,120006	0,157894
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro IV - 2005 Standards	0,451667	0,278528	0,051973	0,089861
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro V - 2008 Standards	0,742043	0,266725	0,054397	0,092286
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 7,5 - 12 t	Conventional	3,329047	1,021898	0,460236	0,498125
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro I - 91/542/EEC Stage I	1,519439	0,611893	0,298167	0,336055
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro II - 91/542/EEC Stage II	1,196308	0,673221	0,147839	0,185727
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	1,611004	0,700567	0,174235	0,212124
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	0,73004	0,454458	0,06307	0,100958
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	1,213969	0,44484	0,068628	0,106516
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 12 - 14 t	Conventional	3,545835	1,16356	0,490384	0,528273
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	1,676116	0,702333	0,316849	0,354738
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	1,34072	0,772387	0,161208	0,199096
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro III - 2000 Standards	1,735037	0,826185	0,183307	0,221196
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro IV - 2005 Standards	0,809684	0,535753	0,065468	0,103356
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro V - 2008 Standards	1,365038	0,498751	0,068703	0,106591
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 14 - 20 t	Conventional	4,965629	1,510916	0,666012	0,7039
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	2,269	0,920366	0,42446	0,462348
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	1,773088	1,01316	0,197615	0,235503
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro III - 2000 Standards	2,41918	1,083848	0,244766	0,282654
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro IV - 2005 Standards	1,124861	0,693492	0,07507	0,112958
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro V - 2008 Standards	1,846536	0,715464	0,080648	0,118536
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 20 - 26 t	Conventional	3,587612	1,651145	0,66316	0,703859
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	2,840281	1,174346	0,553126	0,593825
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	2,294828	1,285949	0,261985	0,302684
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro III - 2000 Standards	2,954024	1,351576	0,304722	0,345421
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro IV - 2005 Standards	1,34877	0,884339	0,093794	0,134493
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro V - 2008 Standards	2,218271	0,827806	0,100801	0,141501
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 26 - 28 t	Conventional	3,78994	1,716204	0,689532	0,730231
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	2,964771	1,234348	0,557323	0,598022
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	2,354576	1,336406	0,269258	0,309957
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro III - 2000 Standards	3,012327	1,38639	0,309434	0,350133
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro IV - 2005 Standards	1,393844	0,91005	0,096065	0,136764
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro V - 2008 Standards	2,301901	0,848784	0,105884	0,146583
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 28 - 32 t	Conventional	4,321828	1,892746	0,755995	0,796694
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	3,357586	1,383295	0,599155	0,639854
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	2,805363	1,497801	0,291972	0,332671
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro III - 2000 Standards	3,455238	1,55554	0,32563	0,366329
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro IV - 2005 Standards	1,51339	1,052314	0,102562	0,143261
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro V - 2008 Standards	2,618519	0,903171	0,111574	0,152273
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid >32 t	Conventional	4,256964	1,983691	0,775592	0,816291
Heavy Duty Trucks	Rigid >32 t	HD Euro I - 91/542/EEC Stage I	3,463136	1,424474	0,64822	0,688919
Heavy Duty Trucks	Rigid >32 t	HD Euro II - 91/542/EEC Stage II	2,743294	1,548573	0,311898	0,352597
Heavy Duty Trucks	Rigid >32 t	HD Euro III - 2000 Standards	3,53468	1,611321	0,342109	0,382808
Heavy Duty Trucks	Rigid >32 t	HD Euro IV - 2005 Standards	1,537854	1,073119	0,104259	0,144959
Heavy Duty Trucks	Rigid >32 t	HD Euro V - 2008 Standards	2,650639	0,921524	0,113149	0,153849
Heavy Duty Trucks	Rigid >32 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 14 - 20 t	Conventional	4,617969	1,482582	0,630233	0,670932
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	2,153872	0,90368	0,414375	0,455074
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	1,705238	0,99059	0,201703	0,242402
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro III - 2000 Standards	2,234023	1,059459	0,234555	0,275254
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro IV - 2005 Standards	1,039873	0,682797	0,080738	0,121437
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro V - 2008 Standards	1,742585	0,644254	0,085337	0,126036
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 20 - 28 t	Conventional	3,537041	1,662126	0,656512	0,700023
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	2,848209	1,209316	0,524796	0,568306
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	2,289786	1,292444	0,265215	0,308726
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro III - 2000 Standards	2,94943	1,357963	0,300405	0,343916
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro IV - 2005 Standards	1,308637	0,894902	0,099953	0,143463
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro V - 2008 Standards	2,255712	0,796237	0,106652	0,150163
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 28 - 34 t	Conventional	3,730664	1,77051	0,709254	0,755575
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	3,070987	1,279923	0,576579	0,6229
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	2,425157	1,3603	0,287827	0,334148
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro III - 2000 Standards	3,079481	1,427055	0,310834	0,357156
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro IV - 2005 Standards	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro V - 2008 Standards	2,426039	0,796812	0,116369	0,16269
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 34 - 40 t	Conventional	4,368307	2,056112	0,807396	0,853717
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	3,618322	1,469222	0,677166	0,723487
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	2,828421	1,589305	0,336592	0,382913
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro III - 2000 Standards	3,673103	1,649901	0,359183	0,405505
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro IV - 2005 Standards	1,542699	1,090852	0,118683	0,165005
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro V - 2008 Standards	2,750415	0,916805	0,128918	0,175239
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 40 - 50 t	Conventional	4,719243	2,302091	0,897471	0,946603
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	4,088779	1,625835	0,758125	0,807257
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	3,553493	1,752645	0,377833	0,426965
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro III - 2000 Standards	4,052297	1,818042	0,383567	0,4327
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro IV - 2005 Standards	1,645827	1,239044	0,131164	0,180297
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro V - 2008 Standards	2,997148	0,940856	0,142599	0,191731
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 50 - 60 t	Conventional	5,62746	2,815655	1,043406	1,092538
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	5,12486	1,971435	0,882738	0,931871
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	4,365582	2,102247	0,44712	0,496252
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro III - 2000 Standards	4,914697	2,178974	0,461108	0,510241
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro IV - 2005 Standards	1,913012	1,48973	0,143665	0,192797
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro V - 2008 Standards	3,531957	1,027062	0,158295	0,207427

Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Urban Buses Midi <=15 t	Conventional	6,010597	1,190042	0,944711	0,982599	
Buses	Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	2,060648	0,889811	0,336983	0,374871	
Buses	Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	1,8669	0,972575	0,179271	0,217159	
Buses	Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	2,054622	1,128693	0,191797	0,229685	
Buses	Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	1,020391	0,675936	0,072208	0,110096	
Buses	Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	1,978127	0,573078	0,072789	0,110677	
Buses	Urban Buses Midi <=15 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Urban Buses Standard 15 - 18 t	Conventional	6,187407	1,915833	0,843999	0,881887	
Buses	Urban Buses Standard 15 - 18 t	HD Euro I - 91/542/EEC Stage I	2,782661	1,181428	0,461458	0,499347	
Buses	Urban Buses Standard 15 - 18 t	HD Euro II - 91/542/EEC Stage II	2,547686	1,288698	0,234778	0,272666	
Buses	Urban Buses Standard 15 - 18 t	HD Euro III - 2000 Standards	2,845997	1,462181	0,243353	0,281241	
Buses	Urban Buses Standard 15 - 18 t	HD Euro IV - 2005 Standards	1,330779	0,900464	0,086688	0,124577	
Buses	Urban Buses Standard 15 - 18 t	HD Euro V - 2008 Standards	2,644329	0,750508	0,090074	0,127962	
Buses	Urban Buses Standard 15 - 18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Urban Buses Articulated >18 t	Conventional	7,856687	2,418104	1,03969	1,08039	
Buses	Urban Buses Articulated >18 t	HD Euro I - 91/542/EEC Stage I	3,788018	1,497193	0,575392	0,616091	
Buses	Urban Buses Articulated >18 t	HD Euro II - 91/542/EEC Stage II	3,489894	1,591991	0,309268	0,349967	
Buses	Urban Buses Articulated >18 t	HD Euro III - 2000 Standards	3,720248	1,810151	0,299549	0,340248	
Buses	Urban Buses Articulated >18 t	HD Euro IV - 2005 Standards	1,62195	1,188381	0,106323	0,147022	
Buses	Urban Buses Articulated >18 t	HD Euro V - 2008 Standards	3,361693	0,760105	0,112483	0,153182	
Buses	Urban Buses Articulated >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Coaches Standard <=18 t	Conventional	4,107689	1,645064	0,702211	0,7401	
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	3,259303	1,300142	0,571419	0,609308	
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	2,824485	1,49879	0,27241	0,310298	
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards	3,630929	1,767306	0,349961	0,387849	
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards	1,907992	1,110615	0,100802	0,13869	
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards	3,308443	1,085583	0,110037	0,147925	
Buses	Coaches Standard <=18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Coaches Articulated >18 t	Conventional	4,776982	2,044475	0,824669	0,865369	
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	3,723193	1,587884	0,65132	0,692019	
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	3,232239	1,769566	0,311029	0,351728	
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards	3,962912	1,949753	0,396015	0,436714	
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards	2,039326	1,246312	0,115109	0,155808	
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards	3,54174	1,186458	0,128766	0,169465	
Buses	Coaches Articulated >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	8,4	0,66	0,054447	0,092335	
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	2,7	0,6	0,044447	0,082335	
Buses	Urban CNG Buses	HD Euro III - 2000 Standards	1	0,4	0,044447	0,082335	
Buses	Urban CNG Buses	EEV	0,923508	0,154947	0,04511	0,082998	
Mopeds	2-stroke <50 cm³	Conventional	13,669124	0,002065	0,181095	0,185892	
Mopeds	2-stroke <50 cm³	Mop - Euro I	4,277413	0,006637	0,050095	0,054892	
Mopeds	2-stroke <50 cm³	Mop - Euro II	2,603643	0,006268	0,031095	0,035892	
Mopeds	2-stroke <50 cm³	Mop - Euro III	n. d.	n. d.	n. d.	n. d.	
Motorcycles	2-stroke >50 cm³	Conventional	14,710928	0,000974	0,205095	0,209892	
Motorcycles	2-stroke >50 cm³	Mot - Euro I	9,704379	0,001453	0,085095	0,089892	
Motorcycles	2-stroke >50 cm³	Mot - Euro II	7,678406	0,001654	0,045095	0,049892	
Motorcycles	2-stroke >50 cm³	Mot - Euro III	4,431843	0,000773	0,017095	0,021892	
Motorcycles	4-stroke <250 cm³	Conventional	14,839647	0,010314	0,025095	0,029892	
Motorcycles	4-stroke <250 cm³	Mot - Euro I	9,754522	0,010896	0,025095	0,029892	
Motorcycles	4-stroke <250 cm³	Mot - Euro II	3,443759	0,00878	0,010095	0,014892	
Motorcycles	4-stroke <250 cm³	Mot - Euro III	1,987577	0,00856	0,010095	0,014892	
Motorcycles	4-stroke 250 - 750 cm³	Conventional	20,495059	0,009242	0,025095	0,029892	
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro I	10,24169	0,008933	0,025095	0,029892	
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro II	2,417129	0,002823	0,010095	0,014892	
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro III	1,395226	0,001481	0,010095	0,014892	
Motorcycles	4-stroke >750 cm³	Conventional	20,495059	0,004745	0,025095	0,029892	
Motorcycles	4-stroke >750 cm³	Mot - Euro I	10,24169	0,005156	0,025095	0,029892	
Motorcycles	4-stroke >750 cm³	Mot - Euro II	2,417129	0,003953	0,010095	0,014892	
Motorcycles	4-stroke >750 cm³	Mot - Euro III	1,395226	0,00213	0,010095	0,014892	







Buses	Urban Buses Standard 15 - 18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Urban Buses Articulated >18 t	Conventional	3,898916	1,565628	0,508883	0,53797	
Buses	Urban Buses Articulated >18 t	HD Euro I - 91/542/EEC Stage I	2,125242	0,941305	0,3375	0,366586	
Buses	Urban Buses Articulated >18 t	HD Euro II - 91/542/EEC Stage II	1,601072	0,977614	0,20521	0,234296	
Buses	Urban Buses Articulated >18 t	HD Euro III - 2000 Standards	1,771609	0,960127	0,1738	0,202886	
Buses	Urban Buses Articulated >18 t	HD Euro IV - 2005 Standards	0,752395	0,717981	0,066315	0,095401	
Buses	Urban Buses Articulated >18 t	HD Euro V - 2008 Standards	1,401264	0,236093	0,064706	0,093792	
Buses	Urban Buses Articulated >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Coaches Standard <=18 t	Conventional	1,782553	0,963355	0,335119	0,361788	
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	1,503137	0,731498	0,271427	0,298096	
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	1,233361	0,824329	0,154722	0,18139	
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards	1,4973	0,841591	0,168538	0,195207	
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards	0,812721	0,591456	0,059615	0,086284	
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards	1,386048	0,361305	0,054147	0,080816	
Buses	Coaches Standard <=18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Coaches Articulated >18 t	Conventional	2,093781	1,176335	0,397143	0,426229	
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	1,766174	0,879001	0,316778	0,345865	
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	1,430951	0,962857	0,183019	0,212106	
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards	1,706616	0,943969	0,185511	0,214597	
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards	0,875249	0,661965	0,067813	0,096899	
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards	1,522794	0,3849	0,063556	0,092642	
Buses	Coaches Articulated >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	8,4	0,66	0,045715	0,072384	
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	2,7	0,6	0,035715	0,062384	
Buses	Urban CNG Buses	HD Euro III - 2000 Standards	1	0,4	0,035715	0,062384	
Buses	Urban CNG Buses	EEV	0,428125	0,089826	0,032337	0,059005	
Mopeds	2-stroke <50 cm³	Conventional	13,669124	0,002065	0,17994	0,183397	
Mopeds	2-stroke <50 cm³	Mop - Euro I	4,277413	0,006637	0,04894	0,052397	
Mopeds	2-stroke <50 cm³	Mop - Euro II	2,603643	0,006268	0,02994	0,033397	
Mopeds	2-stroke <50 cm³	Mop - Euro III	n. d.	n. d.	n. d.	n. d.	
Motorcycles	2-stroke >50 cm³	Conventional	16,967804	0,001107	0,203652	0,206773	
Motorcycles	2-stroke >50 cm³	Mot - Euro I	11,194267	0,001761	0,083652	0,086773	
Motorcycles	2-stroke >50 cm³	Mot - Euro II	8,854502	0,002054	0,043652	0,046773	
Motorcycles	2-stroke >50 cm³	Mot - Euro III	5,113502	0,001151	0,015652	0,018773	
Motorcycles	4-stroke <250 cm³	Conventional	15,246261	0,014844	0,023652	0,026773	
Motorcycles	4-stroke <250 cm³	Mot - Euro I	12,339859	0,015659	0,023652	0,026773	
Motorcycles	4-stroke <250 cm³	Mot - Euro II	4,890265	0,012981	0,008652	0,011773	
Motorcycles	4-stroke <250 cm³	Mot - Euro III	2,823957	0,011464	0,008652	0,011773	
Motorcycles	4-stroke 250 - 750 cm³	Conventional	18,087201	0,014691	0,023363	0,026149	
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro I	8,362423	0,014396	0,023363	0,026149	
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro II	2,267941	0,004871	0,008363	0,011149	
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro III	1,30976	0,002591	0,008363	0,011149	
Motorcycles	4-stroke >750 cm³	Conventional	18,385386	0,007476	0,023074	0,025525	
Motorcycles	4-stroke >750 cm³	Mot - Euro I	8,156419	0,010078	0,023074	0,025525	
Motorcycles	4-stroke >750 cm³	Mot - Euro II	2,56219	0,008646	0,008074	0,010525	
Motorcycles	4-stroke >750 cm³	Mot - Euro III	1,479492	0,004631	0,008074	0,010525	



Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	0,746349	0,484498	0,075923	0,088565
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	0,360606	0,348053	0,034351	0,046993
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	0,721013	0,076156	0,029617	0,042259
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 12 - 14 t	Conventional	1,73629	0,846127	0,236999	0,252446
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	0,887811	0,506521	0,155469	0,170916
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	0,823756	0,536132	0,116726	0,129368
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro III - 2000 Standards	0,850695	0,513757	0,08482	0,097462
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro IV - 2005 Standards	0,405367	0,363934	0,034832	0,047474
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro V - 2008 Standards	0,759188	0,085624	0,031024	0,043666
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 14 - 20 t	Conventional	2,277492	0,995953	0,298481	0,313929
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	1,145851	0,587995	0,187484	0,202932
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	1,02561	0,630853	0,135827	0,148469
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro III - 2000 Standards	1,115717	0,606522	0,101272	0,113914
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro IV - 2005 Standards	0,509259	0,438438	0,038042	0,050684
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro V - 2008 Standards	0,919773	0,143936	0,032817	0,045459
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 20 - 26 t	Conventional	1,755357	0,995254	0,323135	0,340606
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	1,47334	0,706359	0,239499	0,256971
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	1,449699	0,748738	0,172473	0,187041
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro III - 2000 Standards	1,42577	0,761713	0,12887	0,143437
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro IV - 2005 Standards	0,609704	0,550291	0,047315	0,061882
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro V - 2008 Standards	1,156609	0,144379	0,043311	0,057878
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 26 - 28 t	Conventional	1,856622	1,040242	0,338996	0,356467
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	1,57414	0,73619	0,252136	0,269608
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	1,509991	0,770341	0,184157	0,198725
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro III - 2000 Standards	1,503278	0,774432	0,131343	0,14591
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro IV - 2005 Standards	0,6197	0,559071	0,047559	0,062126
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro V - 2008 Standards	1,1609	0,141638	0,044372	0,05894
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid 28 - 32 t	Conventional	2,099581	1,20214	0,376423	0,393894
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	1,841063	0,856458	0,28724	0,304711
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	1,602307	0,890398	0,213518	0,228086
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro III - 2000 Standards	1,719783	0,885408	0,150295	0,164862
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro IV - 2005 Standards	0,691981	0,581092	0,052838	0,067405
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro V - 2008 Standards	1,298843	0,148766	0,048597	0,063164
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Rigid >32 t	Conventional	2,103865	1,174757	0,382367	0,399838
Heavy Duty Trucks	Rigid >32 t	HD Euro I - 91/542/EEC Stage I	1,841248	0,837149	0,291308	0,308779
Heavy Duty Trucks	Rigid >32 t	HD Euro II - 91/542/EEC Stage II	1,850138	0,876737	0,215459	0,230026
Heavy Duty Trucks	Rigid >32 t	HD Euro III - 2000 Standards	1,759334	0,896639	0,150363	0,16493
Heavy Duty Trucks	Rigid >32 t	HD Euro IV - 2005 Standards	0,702129	0,651561	0,052289	0,066857
Heavy Duty Trucks	Rigid >32 t	HD Euro V - 2008 Standards	1,365601	0,165217	0,049423	0,063991
Heavy Duty Trucks	Rigid >32 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 14 - 20 t	Conventional	2,156745	0,92461	0,28751	0,304981
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	1,113807	0,550157	0,189966	0,207437
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	0,999411	0,581129	0,137016	0,151583
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro III - 2000 Standards	1,082186	0,57327	0,105355	0,119922
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro IV - 2005 Standards	0,461367	0,413005	0,040749	0,055316
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro V - 2008 Standards	0,858937	0,112858	0,037297	0,051865
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 20 - 28 t	Conventional	1,765093	0,967923	0,327239	0,346734
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	1,534686	0,690661	0,251393	0,270888
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	1,460365	0,709223	0,184274	0,200767
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro III - 2000 Standards	1,46578	0,70295	0,136937	0,15343
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro IV - 2005 Standards	0,582508	0,507947	0,050583	0,067076
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro V - 2008 Standards	1,055223	0,141047	0,047832	0,064325
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 28 - 34 t	Conventional	1,850055	1,013999	0,350842	0,372361
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	1,643153	0,7174	0,277475	0,298994
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	1,573919	0,731795	0,201947	0,220366
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro III - 2000 Standards	1,546669	0,732044	0,145755	0,164173
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro IV - 2005 Standards	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro V - 2008 Standards	0,986309	0,14159	0,053611	0,07203
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 34 - 40 t	Conventional	2,144279	1,137779	0,393353	0,414872
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	1,908846	0,806717	0,307812	0,329331
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	1,881095	0,83895	0,228377	0,246795
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro III - 2000 Standards	1,811598	0,863555	0,15953	0,177949
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro IV - 2005 Standards	0,680384	0,619311	0,059776	0,078194
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro V - 2008 Standards	1,194103	0,164867	0,057499	0,075917
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 40 - 50 t	Conventional	2,341536	1,268625	0,437448	0,460991
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	2,131864	0,894218	0,349698	0,373241
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	1,869465	0,922323	0,259219	0,279562
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro III - 2000 Standards	2,001316	0,948778	0,173103	0,193446
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro IV - 2005 Standards	0,733379	0,643145	0,067137	0,08748
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro V - 2008 Standards	1,295988	0,167799	0,065759	0,086102
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Heavy Duty Trucks	Articulated 50 - 60 t	Conventional	2,763094	1,524433	0,508684	0,532227
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	2,575336	1,06221	0,412009	0,435552
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	2,247232	1,082322	0,306139	0,326483
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro III - 2000 Standards	2,392279	1,110854	0,205394	0,225738
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro IV - 2005 Standards	0,848459	0,741083	0,072512	0,092856
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro V - 2008 Standards	1,48828	0,198609	0,072522	0,092865
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Buses	Urban Buses Midi <=15 t	Conventional	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Buses	Urban Buses Standard 15 - 18 t	Conventional	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro I - 91/542/EEC Stage I	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro II - 91/542/EEC Stage II	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro III - 2000 Standards	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro IV - 2005 Standards	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro V - 2008 Standards	-	-	-	-

Buses	Urban Buses Standard >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Buses	Urban Buses Articulated >18 t	Conventional	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro I - 91/542/EEC Stage I	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro II - 91/542/EEC Stage II	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro III - 2000 Standards	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro IV - 2005 Standards	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro V - 2008 Standards	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Buses	Coaches Standard <=18 t	Conventional	1,277922	0,875476	0,247719	0,257556
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	1,033071	0,652871	0,176694	0,183917
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	1,084137	0,717135	0,115786	0,123009
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards	1,25114	0,713534	0,107098	0,11432
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards	0,628455	0,514367	0,038854	0,046077
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards	1,100407	0,174863	0,028565	0,035788
Buses	Coaches Standard <=18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Buses	Coaches Articulated >18 t	Conventional	1,68806	1,031648	0,313191	0,324855
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	1,344077	0,74333	0,214772	0,223819
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	1,294965	0,803152	0,141593	0,15064
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards	1,374454	0,759429	0,121121	0,130167
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards	0,67358	0,557566	0,044994	0,054041
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards	1,212218	0,185608	0,036185	0,045231
Buses	Coaches Articulated >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	-	-	-	-
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	-	-	-	-
Buses	Urban CNG Buses	HD Euro III - 2000 Standards	-	-	-	-
Buses	Urban CNG Buses	EEV	-	-	-	-
Mopeds	2-stroke <50 cm <sup>3</sup>	Conventional	-	-	-	-
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro I	-	-	-	-
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro II	-	-	-	-
Mopeds	2-stroke <50 cm <sup>3</sup>	Mop - Euro III	n. d.	n. d.	n. d.	n. d.
Motorcycles	2-stroke >50 cm <sup>3</sup>	Conventional	26,579881	0,001421	0,20201	0,20316
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro I	17,537276	0,002223	0,08201	0,08316
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro II	13,872659	0,002565	0,04201	0,04316
Motorcycles	2-stroke >50 cm <sup>3</sup>	Mot - Euro III	8,010595	0,001592	0,01401	0,01516
Motorcycles	4-stroke <250 cm <sup>3</sup>	Conventional	23,149953	0,020905	0,02201	0,02316
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro I	23,134913	0,022033	0,02201	0,02316
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro II	8,504242	0,022447	0,00701	0,00816
Motorcycles	4-stroke <250 cm <sup>3</sup>	Mot - Euro III	4,909008	0,019668	0,00701	0,00816
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Conventional	22,284529	0,023938	0,02201	0,02316
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro I	10,920806	0,022663	0,02201	0,02316
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro II	6,75397	0,01091	0,00701	0,00816
Motorcycles	4-stroke 250 - 750 cm <sup>3</sup>	Mot - Euro III	3,900632	0,00576	0,00701	0,00816
Motorcycles	4-stroke >750 cm <sup>3</sup>	Conventional	25,973904	0,023447	0,02201	0,02316
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro I	16,335068	0,023421	0,02201	0,02316
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro II	11,450601	0,029058	0,00701	0,00816
Motorcycles	4-stroke >750 cm <sup>3</sup>	Mot - Euro III	6,613617	0,015436	0,00701	0,00816





Buses	Urban Buses Standard 15 - 18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Urban Buses Articulated >18 t	Conventional		7,46091	2,332856	0,98661	1,026148
Buses	Urban Buses Articulated >18 t	HD Euro I - 91/542/EEC Stage I		3,62174	1,441604	0,551603	0,591141
Buses	Urban Buses Articulated >18 t	HD Euro II - 91/542/EEC Stage II		3,301012	1,530553	0,298862	0,3384
Buses	Urban Buses Articulated >18 t	HD Euro III - 2000 Standards		3,525384	1,725149	0,286974	0,326512
Buses	Urban Buses Articulated >18 t	HD Euro IV - 2005 Standards		1,534995	1,141341	0,102322	0,14186
Buses	Urban Buses Articulated >18 t	HD Euro V - 2008 Standards		3,165651	0,707704	0,107705	0,147243
Buses	Urban Buses Articulated >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Coaches Standard <=18 t	Conventional		1,712288	0,978799	0,319388	0,33708
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I		1,396714	0,741186	0,244587	0,26071
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II		1,303014	0,827459	0,143129	0,159252
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards		1,562967	0,857328	0,149816	0,165939
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards		0,811688	0,597119	0,051277	0,0674
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards		1,406903	0,321868	0,044387	0,06051
Buses	Coaches Standard <=18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Coaches Articulated >18 t	Conventional		2,118668	1,176337	0,389524	0,409318
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I		1,708618	0,868487	0,289029	0,307253
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II		1,529488	0,947705	0,170965	0,189189
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards		1,732948	0,933823	0,167927	0,186151
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards		0,870655	0,65776	0,058851	0,077075
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards		1,538343	0,34548	0,053654	0,071878
Buses	Coaches Articulated >18 t	HD Euro VI	n. d.	n. d.	n. d.	n. d.	
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I		8,4	0,66	0,053573	0,09034
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II		2,7	0,6	0,043573	0,08034
Buses	Urban CNG Buses	HD Euro III - 2000 Standards		1	0,4	0,043573	0,08034
Buses	Urban CNG Buses	EEV		0,87397	0,148435	0,043833	0,080599
Mopeds	2-stroke <50 cm³	Conventional		13,669124	0,002065	0,180749	0,185143
Mopeds	2-stroke <50 cm³	Mop - Euro I		4,277413	0,006637	0,049749	0,054143
Mopeds	2-stroke <50 cm³	Mop - Euro II		2,603643	0,006268	0,030749	0,035143
Mopeds	2-stroke <50 cm³	Mop - Euro III	n. d.	n. d.	n. d.	n. d.	
Motorcycles	2-stroke >50 cm³	Conventional		16,094282	0,001042	0,204436	0,208464
Motorcycles	2-stroke >50 cm³	Mot - Euro I		10,617485	0,001599	0,084436	0,088464
Motorcycles	2-stroke >50 cm³	Mot - Euro II		8,399752	0,00184	0,044436	0,048464
Motorcycles	2-stroke >50 cm³	Mot - Euro III		4,849361	0,000946	0,016436	0,020464
Motorcycles	4-stroke <250 cm³	Conventional		15,397477	0,012429	0,024436	0,028464
Motorcycles	4-stroke <250 cm³	Mot - Euro I		11,328409	0,01312	0,024436	0,028464
Motorcycles	4-stroke <250 cm³	Mot - Euro II		4,20306	0,010933	0,009436	0,013464
Motorcycles	4-stroke <250 cm³	Mot - Euro III		2,426382	0,010132	0,009436	0,013464
Motorcycles	4-stroke 250 - 750 cm³	Conventional		19,741783	0,011884	0,024335	0,028245
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro I		9,617902	0,011532	0,024335	0,028245
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro II		2,581755	0,003944	0,009335	0,013245
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro III		1,490583	0,002084	0,009335	0,013245
Motorcycles	4-stroke >750 cm³	Conventional		20,030616	0,006636	0,024233	0,028027
Motorcycles	4-stroke >750 cm³	Mot - Euro I		9,816514	0,007792	0,024233	0,028027
Motorcycles	4-stroke >750 cm³	Mot - Euro II		2,919574	0,00685	0,009233	0,013027
Motorcycles	4-stroke >750 cm³	Mot - Euro III		1,685639	0,003671	0,009233	0,013027

## **12 Appendice D – fattori di emissione unitari anno 2012**

La banca dati di riferimento è quella “SINAnet – Rete del Sistema Informativa Nazionale Ambientale”, coerente al Programma Copert 4 (versione 10.0 – Novembre 2012).



Sector	Subsector	Technology	CO 2012 g/km U	NO2 2012 g/km U	PM2.5 2012 g/km U	PM10 2012 g/km U
Passenger Cars	Gasoline <0,8 l	PC Euro 4 - 98/69/EC Stage2005	1,676081	0,003754	0,012411	0,022478
Passenger Cars	Gasoline <0,8 l	PC Euro 5 - EC 715/2007	1,652899	0,003219	0,012411	0,022478
Passenger Cars	Gasoline <0,8 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Gasoline 0,8 - 1,4 l	PRE ECE	56,450549	0,062286	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/00-01	41,378428	0,062286	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/02	35,206846	0,056655	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/03	35,528516	0,059045	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/04	25,429607	0,059588	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 1 - 91/441/EEC	10,623167	0,021746	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 2 - 94/12/EEC	6,856247	0,015276	0,014351	0,024418
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 3 - 98/69/EC Stage2000	5,616716	0,005172	0,012411	0,022478
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 4 - 98/69/EC Stage2005	1,676081	0,003754	0,012411	0,022478
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 5 - EC 715/2007	1,652899	0,003219	0,012411	0,022478
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 6 - EC 715/2007	1,594038	0,002146	0,012411	0,022478
Passenger Cars	Gasoline 1,4 - 2,0 l	PRE ECE	72,208350	0,072196	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/00-01	52,928945	0,072196	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/02	45,034607	0,065101	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/03	45,446069	0,063535	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/04	29,436173	0,071791	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	9,930836	0,030457	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	7,797951	0,022494	0,014351	0,024418
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	6,997430	0,007711	0,012411	0,022478
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	2,102995	0,005210	0,012411	0,022478
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	2,077147	0,004147	0,012411	0,022478
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	2,067467	0,002673	0,012411	0,022478
Passenger Cars	Gasoline >2,0 l	PRE ECE	78,112991	0,089485	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	ECE 15/00-01	57,257066	0,089485	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	ECE 15/02	50,937378	0,074067	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	ECE 15/03	51,402771	0,104227	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	ECE 15/04	30,777668	0,086990	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	PC Euro 1 - 91/441/EEC	7,867025	0,027771	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	PC Euro 2 - 94/12/EEC	5,878300	0,020375	0,014351	0,024418
Passenger Cars	Gasoline >2,0 l	PC Euro 3 - 98/69/EC Stage2000	5,620077	0,007746	0,012411	0,022478
Passenger Cars	Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	1,965537	0,005256	0,012411	0,022478
Passenger Cars	Gasoline >2,0 l	PC Euro 5 - EC 715/2007	1,960697	0,004484	0,012411	0,022478
Passenger Cars	Gasoline >2,0 l	PC Euro 6 - EC 715/2007	1,933399	0,002730	0,012411	0,022478
Passenger Cars	Diesel <1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,217000	0,424830	0,065985	0,076052
Passenger Cars	Diesel <1,4 l	PC Euro 5 - EC 715/2007	0,217000	0,380029	0,013874	0,023941
Passenger Cars	Diesel <1,4 l	PC Euro 6 - EC 715/2007	0,217000	0,099642	0,013874	0,023941
Passenger Cars	Diesel 1,4 - 2,0 l	Conventional	1,128380	0,078049	0,385339	0,395406
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	0,786442	0,094019	0,107249	0,117316
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	0,687939	0,103637	0,090767	0,100834
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,208809	0,230753	0,063347	0,073413
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,217000	0,424830	0,065985	0,076052
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	0,217000	0,380029	0,013874	0,023941
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0,217000	0,099642	0,013874	0,023941
Passenger Cars	Diesel >2,0 l	Conventional	1,128380	0,119230	0,385339	0,395406
Passenger Cars	Diesel >2,0 l	PC Euro 1 - 91/441/EEC	0,786442	0,094019	0,107249	0,117316
Passenger Cars	Diesel >2,0 l	PC Euro 2 - 94/12/EEC	0,687939	0,103637	0,090767	0,100834
Passenger Cars	Diesel >2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,208809	0,230753	0,063347	0,073413
Passenger Cars	Diesel >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,217000	0,424830	0,065985	0,076052
Passenger Cars	Diesel >2,0 l	PC Euro 5 - EC 715/2007	0,217000	0,380029	0,013874	0,023941
Passenger Cars	Diesel >2,0 l	PC Euro 6 - EC 715/2007	0,217000	0,099642	0,013874	0,023941
Passenger Cars	LPG	Conventional	10,085844	0,087501	0,014351	0,024418
Passenger Cars	LPG	PC Euro 1 - 91/441/EEC	7,537725	0,037460	0,014351	0,024418
Passenger Cars	LPG	PC Euro 2 - 94/12/EEC	5,385662	0,019931	0,014351	0,024418
Passenger Cars	LPG	PC Euro 3 - 98/69/EC Stage2000	4,855162	0,008954	0,012411	0,022478
Passenger Cars	LPG	PC Euro 4 - 98/69/EC Stage2005	1,435409	0,006263	0,012411	0,022478
Passenger Cars	LPG	PC Euro 5 - EC 715/2007	1,435409	0,005373	0,012411	0,022478
Passenger Cars	LPG	PC Euro 6 - EC 715/2007	1,435409	0,005373	0,012411	0,022478
Passenger Cars	E85	PC Euro 4 - 98/69/EC Stage2005	1,351448	0,003630	0,012411	0,022478
Passenger Cars	E85	PC Euro 5 - EC 715/2007	1,351448	0,003127	0,012411	0,022478
Passenger Cars	E85	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Natural Gas < 1,4 l	Conventional	27,860262	0,105304	0,014351	0,024418
Passenger Cars	Natural Gas < 1,4 l	PC Euro 1 - 91/441/EEC	7,915355	0,021265	0,014351	0,024418
Passenger Cars	Natural Gas < 1,4 l	PC Euro 2 - 94/12/EEC	0,883019	0,005567	0,014351	0,024418
Passenger Cars	Natural Gas < 1,4 l	PC Euro 3 - 98/69/EC Stage2000	0,489373	0,001744	0,012411	0,022478
Passenger Cars	Natural Gas < 1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas < 1,4 l	PC Euro 5 - EC 715/2007	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas < 1,4 l	PC Euro 6 - EC 715/2007	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas 1,4 - 2,0 l	Conventional	16,170667	0,114201	0,014351	0,024418
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	7,915355	0,021265	0,014351	0,024418
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	0,883019	0,005567	0,014351	0,024418
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,489373	0,001744	0,012411	0,022478
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Natural Gas > 2,0 l	Conventional	16,170667	0,114201	0,014351	0,024418
Passenger Cars	Natural Gas > 2,0 l	PC Euro 1 - 91/441/EEC	7,915355	0,021265	0,014351	0,024418
Passenger Cars	Natural Gas > 2,0 l	PC Euro 2 - 94/12/EEC	0,883019	0,005567	0,014351	0,024418
Passenger Cars	Natural Gas > 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,489373	0,001744	0,012411	0,022478
Passenger Cars	Natural Gas > 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas > 2,0 l	PC Euro 5 - EC 715/2007	0,167922	0,001603	0,012411	0,022478
Passenger Cars	Natural Gas > 2,0 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Hybrid Gasoline <1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,112883	0,000120	0,011131	0,021198
Passenger Cars	Hybrid Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,081132	0,000128	0,011131	0,021198
Passenger Cars	Hybrid Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,076667	0,000118	0,011131	0,021198
Light Commercial Vehicles	Gasoline <3,5t	Conventional	58,820236	0,093143	0,020706	0,036463
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 1 - 93/59/EEC	26,413915	0,040242	0,020706	0,036463
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 2 - 96/69/EEC	19,580518	0,019687	0,020706	0,036463
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 3 - 98/69/EC Stage2000	17,579567	0,008105	0,018766	0,034523
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 4 - 98/69/EC Stage2005	6,545125	0,004196	0,018766	0,034523
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 5 - 2008 Standards	6,496301	0,003549	0,018766	0,034523

Light Commercial Vehicles	Gasoline <3,5t	LD Euro 6	n.d.	n.d.	n.d.	n.d.	
Light Commercial Vehicles	Diesel <3,5 t	Conventional	1,730900	0,329021	0,406917	0,422673	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 1 - 93/59/EEC	0,745265	0,170647	0,154776	0,170532	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 2 - 96/69/EEC	0,745265	0,170647	0,154776	0,170532	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 3 - 98/69/EEC Stage2000	0,654351	0,322334	0,118180	0,133937	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 4 - 98/69/EEC Stage2005	0,533493	0,572129	0,074180	0,089937	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 5 - 2008 Standards	0,533493	0,299832	0,020726	0,036482	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 6	0,533493	0,100964	0,020726	0,036482	
Heavy Duty Trucks	Gasoline >3,5 t	Conventional	5,228918	0,184562	0,037447	0,075335	
Heavy Duty Trucks	Rigid <=7,5 t	Conventional	2,786311	0,525245	0,434874	0,472762	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro I - 91/542/EEC Stage I	0,957637	0,367846	0,191538	0,229426	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro II - 91/542/EEC Stage II	0,712146	0,407697	0,102242	0,140130	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro III - 2000 Standards	0,949256	0,427826	0,120006	0,157894	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro IV - 2005 Standards	0,451667	0,278528	0,051973	0,089861	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro V - 2008 Standards	0,742043	0,266725	0,054397	0,092286	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 7,5 - 12 t	Conventional	3,329047	1,021898	0,460236	0,498125	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro I - 91/542/EEC Stage I	1,519439	0,611893	0,298167	0,336055	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro II - 91/542/EEC Stage II	1,196308	0,673221	0,147839	0,185727	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	1,611004	0,700567	0,174235	0,212124	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	0,730040	0,454458	0,063070	0,100958	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	1,213969	0,444840	0,068628	0,106516	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 12 - 14 t	Conventional	3,545835	1,163560	0,490384	0,528273	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	1,676116	0,702333	0,316849	0,354738	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	1,340720	0,772387	0,161208	0,199096	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro III - 2000 Standards	1,735037	0,826185	0,183307	0,221196	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro IV - 2005 Standards	0,809684	0,535753	0,065468	0,103356	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro V - 2008 Standards	1,365038	0,498751	0,068703	0,106591	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 14 - 20 t	Conventional	4,965629	1,510916	0,666012	0,703900	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	2,269000	0,920366	0,424460	0,462348	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	1,773088	1,013160	0,197615	0,235503	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro III - 2000 Standards	2,419180	1,083848	0,244766	0,282654	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro IV - 2005 Standards	1,124861	0,693492	0,075070	0,112958	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro V - 2008 Standards	1,846536	0,715464	0,080648	0,118536	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 20 - 26 t	Conventional	3,587612	1,651145	0,663160	0,703859	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	2,840281	1,174346	0,553126	0,593825	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	2,294828	1,285949	0,261985	0,302684	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro III - 2000 Standards	2,954024	1,351576	0,304722	0,345421	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro IV - 2005 Standards	1,348770	0,884339	0,093794	0,134493	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro V - 2008 Standards	2,218271	0,827806	0,100801	0,141501	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro VI	1,413425	0,131187	0,046426	0,087125	
Heavy Duty Trucks	Rigid 26 - 28 t	Conventional	3,789940	1,716204	0,689532	0,730231	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	2,964771	1,234348	0,557323	0,598022	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	2,354576	1,336406	0,269258	0,309957	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro III - 2000 Standards	3,012327	1,386390	0,309434	0,350133	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro IV - 2005 Standards	1,393844	0,910050	0,096065	0,136764	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro V - 2008 Standards	2,301901	0,848784	0,105884	0,146583	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 28 - 32 t	Conventional	4,321828	1,892746	0,755995	0,796694	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	3,357586	1,383295	0,599155	0,639854	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	2,805363	1,497801	0,291972	0,332671	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro III - 2000 Standards	3,455238	1,555540	0,325630	0,366329	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro IV - 2005 Standards	1,513390	1,052314	0,102562	0,143261	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro V - 2008 Standards	2,618519	0,903171	0,111574	0,152273	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro VI	1,583565	0,118202	0,047332	0,088031	
Heavy Duty Trucks	Rigid >32 t	Conventional	4,256964	1,983691	0,775592	0,816291	
Heavy Duty Trucks	Rigid >32 t	HD Euro I - 91/542/EEC Stage I	3,463136	1,424474	0,648220	0,688919	
Heavy Duty Trucks	Rigid >32 t	HD Euro II - 91/542/EEC Stage II	2,743294	1,548573	0,311898	0,352597	
Heavy Duty Trucks	Rigid >32 t	HD Euro III - 2000 Standards	3,534680	1,611321	0,342109	0,382808	
Heavy Duty Trucks	Rigid >32 t	HD Euro IV - 2005 Standards	1,537854	1,073119	0,104259	0,144959	
Heavy Duty Trucks	Rigid >32 t	HD Euro V - 2008 Standards	2,650639	0,921524	0,113149	0,153849	
Heavy Duty Trucks	Rigid >32 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 14 - 20 t	Conventional	4,617969	1,482582	0,630233	0,670932	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	2,153872	0,903680	0,414375	0,455074	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	1,705238	0,990590	0,201703	0,242402	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro III - 2000 Standards	2,234023	1,059459	0,234555	0,275254	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro IV - 2005 Standards	1,039873	0,682797	0,080738	0,121437	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro V - 2008 Standards	1,742585	0,644254	0,085337	0,126036	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 20 - 28 t	Conventional	3,537041	1,662126	0,656512	0,700023	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	2,848209	1,209316	0,524796	0,568306	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	2,289786	1,292444	0,265215	0,308726	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro III - 2000 Standards	2,949430	1,357963	0,300405	0,343916	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro IV - 2005 Standards	1,308637	0,894902	0,099953	0,143463	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro V - 2008 Standards	2,255712	0,796237	0,106652	0,150163	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 28 - 34 t	Conventional	3,730664	1,770510	0,709254	0,755575	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	3,070987	1,279923	0,576579	0,622900	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	2,425157	1,360300	0,287827	0,334148	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro III - 2000 Standards	3,079481	1,427055	0,310834	0,357156	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro IV - 2005 Standards	-	-	-	-	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro V - 2008 Standards	2,426039	0,796812	0,116369	0,162690	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 34 - 40 t	Conventional	4,368307	2,056112	0,807396	0,853717	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	3,618322	1,469222	0,677166	0,723487	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	2,828421	1,589305	0,336592	0,382913	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro III - 2000 Standards	3,673103	1,649901	0,359183	0,405505	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro IV - 2005 Standards	1,542699	1,090852	0,118683	0,165005	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro V - 2008 Standards	2,750415	0,916805	0,128918	0,175239	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 40 - 50 t	Conventional	4,719243	2,302091	0,897471	0,946603	

Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	4,088779	1,625835	0,758125	0,807257
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	3,553493	1,752645	0,377833	0,426965
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro III - 2000 Standards	4,052297	1,818042	0,383567	0,432700
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro IV - 2005 Standards	1,645827	1,239044	0,131164	0,180297
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro V - 2008 Standards	2,997148	0,940856	0,142599	0,191731
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro VI	1,717183	0,101403	0,067955	0,117088
Heavy Duty Trucks	Articulated 50 - 60 t	Conventional	5,627460	2,815655	1,043406	1,092538
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	5,124860	1,971435	0,882738	0,931871
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	4,365582	2,102247	0,447120	0,496252
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro III - 2000 Standards	4,914697	2,178974	0,461108	0,510241
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro IV - 2005 Standards	1,913012	1,489730	0,143665	0,192797
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro V - 2008 Standards	3,531957	1,027062	0,158295	0,207427
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Midi <=15 t	Conventional	6,010597	1,190042	0,944711	0,982599
Buses	Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	2,060648	0,889811	0,336983	0,374871
Buses	Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	1,866900	0,972575	0,179271	0,217159
Buses	Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	2,054622	1,128693	0,191797	0,229685
Buses	Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	1,020391	0,675936	0,072208	0,110096
Buses	Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	1,978127	0,573078	0,072789	0,110677
Buses	Urban Buses Midi <=15 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Standard 15 - 18 t	Conventional	6,187407	1,915833	0,843999	0,881887
Buses	Urban Buses Standard 15 - 18 t	HD Euro I - 91/542/EEC Stage I	2,782661	1,181428	0,461458	0,499347
Buses	Urban Buses Standard 15 - 18 t	HD Euro II - 91/542/EEC Stage II	2,547686	1,288698	0,234778	0,272666
Buses	Urban Buses Standard 15 - 18 t	HD Euro III - 2000 Standards	2,845997	1,462181	0,243353	0,281241
Buses	Urban Buses Standard 15 - 18 t	HD Euro IV - 2005 Standards	1,330779	0,900464	0,086688	0,124577
Buses	Urban Buses Standard 15 - 18 t	HD Euro V - 2008 Standards	2,644329	0,750508	0,090074	0,127962
Buses	Urban Buses Standard 15 - 18 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Articulated >18 t	Conventional	7,856687	2,418104	1,039690	1,080390
Buses	Urban Buses Articulated >18 t	HD Euro I - 91/542/EEC Stage I	3,788018	1,497193	0,575392	0,616091
Buses	Urban Buses Articulated >18 t	HD Euro II - 91/542/EEC Stage II	3,489894	1,591991	0,309268	0,349967
Buses	Urban Buses Articulated >18 t	HD Euro III - 2000 Standards	3,720248	1,810151	0,299549	0,340248
Buses	Urban Buses Articulated >18 t	HD Euro IV - 2005 Standards	1,621950	1,188381	0,106323	0,147022
Buses	Urban Buses Articulated >18 t	HD Euro V - 2008 Standards	3,361693	0,760105	0,112483	0,153182
Buses	Urban Buses Articulated >18 t	HD Euro VI	1,669967	0,058393	0,047737	0,088437
Buses	Coaches Standard <=18 t	Conventional	4,107689	1,645064	0,702211	0,740100
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	3,259303	1,300142	0,571419	0,609308
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	2,824485	1,498790	0,272410	0,310298
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards	3,630929	1,767306	0,349961	0,387849
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards	1,907992	1,110615	0,100802	0,138690
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards	3,308443	1,085583	0,110037	0,147925
Buses	Coaches Standard <=18 t	HD Euro VI	2,027315	0,178572	0,041384	0,079272
Buses	Coaches Articulated >18 t	Conventional	4,776982	2,044475	0,824669	0,865369
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	3,723193	1,587884	0,651320	0,692019
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	3,232239	1,769566	0,311029	0,351728
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards	3,962912	1,949753	0,396015	0,436714
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards	2,039326	1,246312	0,115109	0,155808
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards	3,541740	1,186458	0,128766	0,169465
Buses	Coaches Articulated >18 t	HD Euro VI	2,156009	0,182918	0,048726	0,089425
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	8,400000	0,660000	0,054447	0,092335
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	2,700000	0,600000	0,044447	0,082335
Buses	Urban CNG Buses	HD Euro III - 2000 Standards	1,000000	0,400000	0,044447	0,082335
Buses	Urban CNG Buses	EEV	0,923508	0,154947	0,045110	0,082998
Mopeds	2-stroke <50 cm³	Conventional	13,669124	0,002065	0,181095	0,185892
Mopeds	2-stroke <50 cm³	Mop - Euro I	4,277413	0,006637	0,050095	0,054892
Mopeds	2-stroke <50 cm³	Mop - Euro II	2,603643	0,006268	0,031095	0,035892
Mopeds	2-stroke <50 cm³	Mop - Euro III	n.d.	n.d.	n.d.	n.d.
Motorcycles	2-stroke >50 cm³	Conventional	14,710928	0,000974	0,205095	0,209892
Motorcycles	2-stroke >50 cm³	Mot - Euro I	9,704379	0,001453	0,085095	0,089892
Motorcycles	2-stroke >50 cm³	Mot - Euro II	7,678406	0,001654	0,045095	0,049892
Motorcycles	2-stroke >50 cm³	Mot - Euro III	4,431843	0,000773	0,017095	0,021892
Motorcycles	4-stroke <250 cm³	Conventional	14,839647	0,010314	0,025095	0,029892
Motorcycles	4-stroke <250 cm³	Mot - Euro I	9,754522	0,010896	0,025095	0,029892
Motorcycles	4-stroke <250 cm³	Mot - Euro II	3,443759	0,008780	0,010095	0,014892
Motorcycles	4-stroke <250 cm³	Mot - Euro III	1,987577	0,008560	0,010095	0,014892
Motorcycles	4-stroke 250 - 750 cm³	Conventional	20,495059	0,009242	0,025095	0,029892
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro I	10,241690	0,008933	0,025095	0,029892
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro II	2,417129	0,002823	0,010095	0,014892
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro III	1,395226	0,001481	0,010095	0,014892
Motorcycles	4-stroke >750 cm³	Conventional	20,495059	0,004745	0,025095	0,029892
Motorcycles	4-stroke >750 cm³	Mot - Euro I	10,241690	0,005156	0,025095	0,029892
Motorcycles	4-stroke >750 cm³	Mot - Euro II	2,417129	0,003953	0,010095	0,014892
Motorcycles	4-stroke >750 cm³	Mot - Euro III	1,395226	0,002130	0,010095	0,014892

Sector	Subsector	Technology	CO 2012 g/km R	NO2 2012 g/km R	PM2.5 2012 g/km R	PM10 2012 g/km R
Passenger Cars	Gasoline <0,8 l	PC Euro 4 - 98/69/EC Stage2005	0,288919	0,001008	0,008901	0,015512
Passenger Cars	Gasoline <0,8 l	PC Euro 5 - EC 715/2007	0,280246	0,000756	0,008901	0,015512
Passenger Cars	Gasoline <0,8 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Gasoline 0,8 - 1,4 l	PRE ECE	20,926721	0,073267	0,011132	0,019126
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/00-01	13,548241	0,073267	0,011132	0,019126
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/02	8,573423	0,070244	0,010518	0,017821
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/03	9,942196	0,074189	0,010518	0,017821
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/04	5,247173	0,071431	0,010518	0,017821
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 1 - 91/441/EEC	1,542829	0,009963	0,009905	0,016516
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 2 - 94/12/EEC	0,631434	0,005470	0,009905	0,016516
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 3 - 98/69/EC Stage2000	0,724024	0,001829	0,008901	0,015512
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,288919	0,001008	0,008901	0,015512
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 5 - EC 715/2007	0,280246	0,000756	0,008901	0,015512
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 6 - EC 715/2007	0,258222	0,000504	0,008901	0,015512
Passenger Cars	Gasoline 1,4 - 2,0 l	PRE ECE	20,926721	0,089695	0,011132	0,019126
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/00-01	13,371565	0,092847	0,010518	0,017821
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/02	8,573423	0,079462	0,010518	0,017821
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/03	9,942196	0,086154	0,010518	0,017821
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/04	5,932525	0,093327	0,010518	0,017821
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	1,788588	0,010542	0,009905	0,016516
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	0,693211	0,005646	0,009905	0,016516
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,632748	0,001829	0,008901	0,015512
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,266120	0,001008	0,008901	0,015512
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	0,266120	0,000756	0,008901	0,015512
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0,266120	0,000504	0,008901	0,015512
Passenger Cars	Gasoline >2,0 l	PRE ECE	21,125960	0,127329	0,011132	0,019126
Passenger Cars	Gasoline >2,0 l	ECE 15/00-01	13,517608	0,134980	0,010518	0,017821
Passenger Cars	Gasoline >2,0 l	ECE 15/02	12,502489	0,090076	0,010518	0,017821
Passenger Cars	Gasoline >2,0 l	ECE 15/03	14,267611	0,117744	0,010518	0,017821
Passenger Cars	Gasoline >2,0 l	ECE 15/04	10,052132	0,094918	0,010518	0,017821
Passenger Cars	Gasoline >2,0 l	PC Euro 1 - 91/441/EEC	2,579995	0,012135	0,009905	0,016516
Passenger Cars	Gasoline >2,0 l	PC Euro 2 - 94/12/EEC	1,061065	0,006241	0,009905	0,016516
Passenger Cars	Gasoline >2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,906576	0,001829	0,008901	0,015512
Passenger Cars	Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,266120	0,001008	0,008901	0,015512
Passenger Cars	Gasoline >2,0 l	PC Euro 5 - EC 715/2007	0,266120	0,000756	0,008901	0,015512
Passenger Cars	Gasoline >2,0 l	PC Euro 6 - EC 715/2007	0,266120	0,000504	0,008901	0,015512
Passenger Cars	Diesel <1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,060377	0,248620	0,039599	0,046902
Passenger Cars	Diesel <1,4 l	PC Euro 5 - EC 715/2007	0,060377	0,222402	0,010224	0,017527
Passenger Cars	Diesel <1,4 l	PC Euro 6 - EC 715/2007	0,060377	0,058313	0,010224	0,017527
Passenger Cars	Diesel 1,4 - 2,0 l	Conventional	0,551761	0,051221	0,168816	0,176119
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	0,294648	0,064160	0,065641	0,072944
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	0,206743	0,065217	0,050530	0,057833
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,070628	0,173070	0,040051	0,047354
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,060377	0,248620	0,039599	0,046902
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	0,060377	0,222402	0,010224	0,017527
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0,060377	0,058313	0,010224	0,017527
Passenger Cars	Diesel >2,0 l	Conventional	0,574573	0,085105	0,180822	0,187434
Passenger Cars	Diesel >2,0 l	PC Euro 1 - 91/441/EEC	0,301708	0,065537	0,071837	0,078448
Passenger Cars	Diesel >2,0 l	PC Euro 2 - 94/12/EEC	0,204244	0,065835	0,053417	0,060029
Passenger Cars	Diesel >2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,070776	0,175280	0,042622	0,049234
Passenger Cars	Diesel >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,063366	0,249421	0,041154	0,047765
Passenger Cars	Diesel >2,0 l	PC Euro 5 - EC 715/2007	0,063366	0,223118	0,009719	0,016331
Passenger Cars	Diesel >2,0 l	PC Euro 6 - EC 715/2007	0,063366	0,058501	0,009719	0,016331
Passenger Cars	LPG	Conventional	1,868958	0,126491	0,009905	0,016516
Passenger Cars	LPG	PC Euro 1 - 91/441/EEC	1,324271	0,014443	0,009905	0,016516
Passenger Cars	LPG	PC Euro 2 - 94/12/EEC	0,873664	0,005171	0,009905	0,016516
Passenger Cars	LPG	PC Euro 3 - 98/69/EC Stage2000	0,650534	0,003161	0,008901	0,015512
Passenger Cars	LPG	PC Euro 4 - 98/69/EC Stage2005	0,266120	0,001681	0,008901	0,015512
Passenger Cars	LPG	PC Euro 5 - EC 715/2007	0,266120	0,001260	0,008901	0,015512
Passenger Cars	LPG	PC Euro 6 - EC 715/2007	0,266120	0,001260	0,008901	0,015512
Passenger Cars	E85	PC Euro 4 - 98/69/EC Stage2005	0,133060	0,000948	0,008901	0,015512
Passenger Cars	E85	PC Euro 5 - EC 715/2007	0,133060	0,000711	0,008901	0,015512
Passenger Cars	E85	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Natural Gas < 1,4 l	Conventional	6,111068	0,083267	0,009905	0,016516
Passenger Cars	Natural Gas < 1,4 l	PC Euro 1 - 91/441/EEC	1,432236	0,007618	0,009905	0,016516
Passenger Cars	Natural Gas < 1,4 l	PC Euro 2 - 94/12/EEC	0,571407	0,004153	0,009905	0,016516
Passenger Cars	Natural Gas < 1,4 l	PC Euro 3 - 98/69/EC Stage2000	0,650534	0,001328	0,008901	0,015512
Passenger Cars	Natural Gas < 1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,266120	0,000756	0,008901	0,015512
Passenger Cars	Natural Gas < 1,4 l	PC Euro 5 - EC 715/2007	0,266120	0,000756	0,008901	0,015512
Passenger Cars	Natural Gas < 1,4 l	PC Euro 6 - EC 715/2007	0,266120	0,000504	0,008901	0,015512
Passenger Cars	Natural Gas 1,4 - 2,0 l	Conventional	2,596119	0,093820	0,009905	0,016516
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	1,432236	0,007618	0,009905	0,016516
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	0,571407	0,004153	0,009905	0,016516
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,650534	0,001328	0,008901	0,015512
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,266120	0,000756	0,008901	0,015512
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	0,266120	0,000756	0,008901	0,015512
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Natural Gas > 2,0 l	Conventional	2,596119	0,093820	0,009905	0,016516
Passenger Cars	Natural Gas > 2,0 l	PC Euro 1 - 91/441/EEC	1,432236	0,007618	0,009905	0,016516
Passenger Cars	Natural Gas > 2,0 l	PC Euro 2 - 94/12/EEC	0,571407	0,004153	0,009905	0,016516
Passenger Cars	Natural Gas > 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,650534	0,001328	0,008901	0,015512
Passenger Cars	Natural Gas > 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,266120	0,000756	0,008901	0,015512
Passenger Cars	Natural Gas > 2,0 l	PC Euro 5 - EC 715/2007	0,266120	0,000756	0,008901	0,015512
Passenger Cars	Natural Gas > 2,0 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Hybrid Gasoline <1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,028281	0,000499	0,008065	0,014676
Passenger Cars	Hybrid Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,025442	0,000499	0,008065	0,014676
Passenger Cars	Hybrid Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,025442	0,000499	0,008065	0,014676
Light Commercial Vehicles	Gasoline <3,5t	Conventional	7,743227	0,115318	0,014521	0,024878
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 1 - 93/59/EEC	1,877275	0,015330	0,014521	0,024878
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 2 - 96/69/EEC	0,488945	0,005015	0,014521	0,024878
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 3 - 98/69/EC Stage2000	0,435985	0,002430	0,013517	0,023874
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 4 - 98/69/EC Stage2005	0,241360	0,001200	0,013517	0,023874
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 5 - 2008 Standards	0,241360	0,000840	0,013517	0,023874

Light Commercial Vehicles	Gasoline <3,5t	LD Euro 6	n.d.	n.d.	n.d.	n.d.
Light Commercial Vehicles	Diesel <3,5 t	Conventional	0,949608	0,096403	0,282538	0,292896
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 1 - 93/59/EEC	0,312338	0,110049	0,072958	0,083315
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 2 - 96/69/EEC	0,312338	0,110049	0,072958	0,083315
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 3 - 98/69/EC Stage2000	0,274237	0,207871	0,056891	0,067248
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 4 - 98/69/EC Stage2005	0,223586	0,368963	0,037572	0,047930
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 5 - 2008 Standards	0,223586	0,193360	0,014103	0,024461
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 6	0,223586	0,065111	0,014103	0,024461
Heavy Duty Trucks	Gasoline >3,5 t	Conventional	2,903946	0,157469	0,027715	0,054384
Heavy Duty Trucks	Rigid <=7,5 t	Conventional	1,547397	0,448140	0,252568	0,279236
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro I - 91/542/EEC Stage I	0,513471	0,320799	0,115717	0,142386
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro II - 91/542/EEC Stage II	0,477644	0,340483	0,075955	0,102624
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro III - 2000 Standards	0,491667	0,320130	0,072994	0,099663
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro IV - 2005 Standards	0,269886	0,230307	0,038571	0,065239
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro V - 2008 Standards	0,524682	0,085247	0,036570	0,063238
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Rigid 7,5 - 12 t	Conventional	1,741007	0,790226	0,248591	0,275260
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro I - 91/542/EEC Stage I	0,837863	0,470244	0,161594	0,188263
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro II - 91/542/EEC Stage II	0,745833	0,501563	0,101235	0,127903
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	0,788527	0,492247	0,097987	0,124656
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	0,417727	0,351652	0,044397	0,071065
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	0,776628	0,141328	0,042549	0,069217
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Rigid 12 - 14 t	Conventional	1,923707	0,842767	0,265342	0,292010
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	0,941963	0,506441	0,175666	0,202334
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	0,840838	0,543227	0,107946	0,134614
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro III - 2000 Standards	0,892877	0,540300	0,102980	0,129648
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro IV - 2005 Standards	0,447653	0,385537	0,045396	0,072064
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro V - 2008 Standards	0,846356	0,158864	0,043336	0,070004
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Rigid 14 - 20 t	Conventional	2,578579	1,032504	0,347760	0,374428
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	1,236552	0,611618	0,222741	0,249410
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	1,051591	0,668145	0,124384	0,151053
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro III - 2000 Standards	1,176281	0,676383	0,130116	0,156785
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro IV - 2005 Standards	0,602457	0,475938	0,050032	0,076700
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro V - 2008 Standards	1,076552	0,271299	0,047070	0,073739
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Rigid 20 - 26 t	Conventional	1,932977	1,076896	0,364764	0,393850
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	1,602604	0,759142	0,280436	0,309523
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	1,317893	0,824316	0,160937	0,190023
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro III - 2000 Standards	1,520429	0,838584	0,159272	0,188358
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro IV - 2005 Standards	0,728451	0,591181	0,061910	0,090996
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro V - 2008 Standards	1,330572	0,288567	0,059206	0,088293
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro VI	0,753259	0,028722	0,034445	0,063532
Heavy Duty Trucks	Rigid 26 - 28 t	Conventional	2,037345	1,133426	0,385479	0,414565
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	1,689549	0,798009	0,296735	0,325821
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	1,380895	0,857012	0,171288	0,200375
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro III - 2000 Standards	1,617194	0,847593	0,170759	0,199846
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro IV - 2005 Standards	0,752086	0,599826	0,064415	0,093501
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro V - 2008 Standards	1,347385	0,289433	0,061797	0,090883
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Rigid 28 - 32 t	Conventional	2,203759	1,304118	0,423143	0,452230
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	1,909151	0,929146	0,327396	0,356483
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	1,613877	0,987457	0,193838	0,222925
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro III - 2000 Standards	1,770986	0,976791	0,182676	0,211762
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro IV - 2005 Standards	0,834437	0,714085	0,068860	0,097946
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro V - 2008 Standards	1,532705	0,276668	0,066709	0,095795
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro VI	0,862720	0,029040	0,035171	0,064258
Heavy Duty Trucks	Rigid >32 t	Conventional	2,245923	1,298102	0,424031	0,453118
Heavy Duty Trucks	Rigid >32 t	HD Euro I - 91/542/EEC Stage I	1,942752	0,922263	0,330604	0,359690
Heavy Duty Trucks	Rigid >32 t	HD Euro II - 91/542/EEC Stage II	1,616651	0,987259	0,194604	0,223690
Heavy Duty Trucks	Rigid >32 t	HD Euro III - 2000 Standards	1,829624	1,005611	0,182336	0,211422
Heavy Duty Trucks	Rigid >32 t	HD Euro IV - 2005 Standards	0,838628	0,709915	0,068106	0,097192
Heavy Duty Trucks	Rigid >32 t	HD Euro V - 2008 Standards	1,565804	0,287911	0,066106	0,095192
Heavy Duty Trucks	Rigid >32 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Articulated 14 - 20 t	Conventional	2,432211	0,986193	0,335015	0,364102
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	1,192916	0,583640	0,217062	0,246148
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	1,027170	0,634880	0,129239	0,158325
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro III - 2000 Standards	1,142156	0,638990	0,129037	0,158123
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro IV - 2005 Standards	0,559215	0,452117	0,054738	0,083824
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro V - 2008 Standards	1,012068	0,225499	0,052415	0,081501
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Articulated 20 - 28 t	Conventional	1,879651	1,077422	0,363630	0,395134
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	1,618062	0,769088	0,287644	0,319149
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	1,328822	0,811194	0,170235	0,201739
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro III - 2000 Standards	1,520300	0,819271	0,162540	0,194045
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro IV - 2005 Standards	0,699938	0,580472	0,067286	0,098790
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro V - 2008 Standards	1,282312	0,261901	0,065228	0,096732
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Articulated 28 - 34 t	Conventional	1,947625	1,142288	0,383367	0,417289
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	1,707301	0,808962	0,304229	0,338151
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	1,407492	0,848617	0,185967	0,219889
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro III - 2000 Standards	1,594392	0,856671	0,172864	0,206787
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro IV - 2005 Standards	-	-	-	-
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro V - 2008 Standards	1,334789	0,249913	0,072583	0,106505
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Articulated 34 - 40 t	Conventional	2,272278	1,300417	0,438041	0,471963
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	1,995583	0,918140	0,348555	0,382477
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	1,648574	0,980418	0,209974	0,243897
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro III - 2000 Standards	1,866496	1,001771	0,195664	0,229586
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro IV - 2005 Standards	0,830178	0,708505	0,079062	0,112984
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro V - 2008 Standards	1,565907	0,287935	0,077711	0,111633
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Heavy Duty Trucks	Articulated 40 - 50 t	Conventional	2,461377	1,459233	0,483865	0,520205

Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	2,189364	1,024035	0,386485	0,422825
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	1,872505	1,085033	0,237547	0,273887
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro III - 2000 Standards	2,044283	1,109259	0,215821	0,252161
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro IV - 2005 Standards	0,893533	0,791973	0,088122	0,124462
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro V - 2008 Standards	1,694758	0,283145	0,087548	0,123888
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro VI	0,921009	0,029382	0,052354	0,088694
Heavy Duty Trucks	Articulated 50 - 60 t	Conventional	2,882410	1,766712	0,567312	0,603652
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	2,608387	1,228818	0,457685	0,494025
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	2,248498	1,292504	0,280560	0,316900
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro III - 2000 Standards	2,422612	1,322519	0,240160	0,276500
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro IV - 2005 Standards	1,037992	0,944464	0,094805	0,131145
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro V - 2008 Standards	1,944807	0,307912	0,095511	0,131851
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Midi <=15 t	Conventional	3,008118	0,800123	0,443100	0,469768
Buses	Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	1,058579	0,562152	0,201434	0,228103
Buses	Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	0,887925	0,605363	0,123685	0,150354
Buses	Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	0,979682	0,557866	0,118976	0,145644
Buses	Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	0,473400	0,394040	0,049073	0,075742
Buses	Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	0,919675	0,208144	0,045682	0,072351
Buses	Urban Buses Midi <=15 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Standard 15 - 18 t	Conventional	2,943203	1,240269	0,391124	0,417792
Buses	Urban Buses Standard 15 - 18 t	HD Euro I - 91/542/EEC Stage I	1,487674	0,747634	0,250268	0,276937
Buses	Urban Buses Standard 15 - 18 t	HD Euro II - 91/542/EEC Stage II	1,224107	0,791532	0,157840	0,184508
Buses	Urban Buses Standard 15 - 18 t	HD Euro III - 2000 Standards	1,322464	0,751778	0,145681	0,172350
Buses	Urban Buses Standard 15 - 18 t	HD Euro IV - 2005 Standards	0,620391	0,533146	0,055897	0,082565
Buses	Urban Buses Standard 15 - 18 t	HD Euro V - 2008 Standards	1,203431	0,228046	0,052713	0,079381
Buses	Urban Buses Standard 15 - 18 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Articulated >18 t	Conventional	3,898916	1,565628	0,508883	0,537970
Buses	Urban Buses Articulated >18 t	HD Euro I - 91/542/EEC Stage I	2,125242	0,941305	0,337500	0,366586
Buses	Urban Buses Articulated >18 t	HD Euro II - 91/542/EEC Stage II	1,601072	0,977614	0,205210	0,234296
Buses	Urban Buses Articulated >18 t	HD Euro III - 2000 Standards	1,771609	0,960127	0,173800	0,202886
Buses	Urban Buses Articulated >18 t	HD Euro IV - 2005 Standards	0,752395	0,717981	0,066315	0,095401
Buses	Urban Buses Articulated >18 t	HD Euro V - 2008 Standards	1,401264	0,236093	0,064706	0,093792
Buses	Urban Buses Articulated >18 t	HD Euro VI	0,771174	0,024478	0,035005	0,064091
Buses	Coaches Standard <=18 t	Conventional	1,782553	0,963355	0,335119	0,361788
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	1,503137	0,731498	0,271427	0,298096
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	1,233610	0,824329	0,154722	0,181390
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards	1,497300	0,841591	0,168538	0,195207
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards	0,812721	0,591456	0,059615	0,086284
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards	1,386048	0,361305	0,054147	0,080816
Buses	Coaches Standard <=18 t	HD Euro VI	0,855469	0,038613	0,029210	0,055878
Buses	Coaches Articulated >18 t	Conventional	2,093781	1,176335	0,397143	0,426229
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	1,766174	0,879001	0,316778	0,345865
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	1,430951	0,962857	0,183019	0,212106
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards	1,706616	0,943969	0,185511	0,214597
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards	0,875249	0,661965	0,067813	0,096899
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards	1,522794	0,384900	0,063556	0,092642
Buses	Coaches Articulated >18 t	HD Euro VI	0,913778	0,039352	0,035104	0,064190
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	8,400000	0,660000	0,045715	0,072384
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	2,700000	0,600000	0,035715	0,062384
Buses	Urban CNG Buses	HD Euro III - 2000 Standards	1,000000	0,400000	0,035715	0,062384
Buses	Urban CNG Buses	EEV	0,428125	0,089826	0,032337	0,059005
Mopeds	2-stroke <50 cm³	Conventional	13,669124	0,002065	0,179940	0,183397
Mopeds	2-stroke <50 cm³	Mop - Euro I	4,277413	0,006637	0,048940	0,052397
Mopeds	2-stroke <50 cm³	Mop - Euro II	2,603643	0,006268	0,029940	0,033397
Mopeds	2-stroke <50 cm³	Mop - Euro III	n.d.	n.d.	n.d.	n.d.
Motorcycles	2-stroke >50 cm³	Conventional	16,967804	0,001107	0,203652	0,206773
Motorcycles	2-stroke >50 cm³	Mot - Euro I	11,194267	0,001761	0,083652	0,086773
Motorcycles	2-stroke >50 cm³	Mot - Euro II	8,854502	0,002054	0,043652	0,046773
Motorcycles	2-stroke >50 cm³	Mot - Euro III	5,113502	0,001151	0,015652	0,018773
Motorcycles	4-stroke <250 cm³	Conventional	15,246261	0,014844	0,023652	0,026773
Motorcycles	4-stroke <250 cm³	Mot - Euro I	12,339859	0,015659	0,023652	0,026773
Motorcycles	4-stroke <250 cm³	Mot - Euro II	4,890265	0,012981	0,008652	0,011773
Motorcycles	4-stroke <250 cm³	Mot - Euro III	2,823957	0,011464	0,008652	0,011773
Motorcycles	4-stroke 250 - 750 cm³	Conventional	18,087201	0,014691	0,023363	0,026149
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro I	8,362423	0,014396	0,023363	0,026149
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro II	2,267941	0,004871	0,008363	0,011149
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro III	1,309760	0,002591	0,008363	0,011149
Motorcycles	4-stroke >750 cm³	Conventional	18,385386	0,007476	0,023074	0,025525
Motorcycles	4-stroke >750 cm³	Mot - Euro I	8,156419	0,010078	0,023074	0,025525
Motorcycles	4-stroke >750 cm³	Mot - Euro II	2,562190	0,008646	0,008074	0,010525
Motorcycles	4-stroke >750 cm³	Mot - Euro III	1,479492	0,004631	0,008074	0,010525

Sector	Subsector	Technology	CO 2012 g/km H	NO2 2012 g/km H	PM2.5 2012 g/km H	PM10 2012 g/km H
Passenger Cars	Gasoline <0,8 l	PC Euro 4 - 98/69/EC Stage2005	0,665401	0,000561	0,005785	0,008341
Passenger Cars	Gasoline <0,8 l	PC Euro 5 - EC 715/2007	0,645425	0,000421	0,005785	0,008341
Passenger Cars	Gasoline <0,8 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Gasoline 0,8 - 1,4 l	PRE ECE	14,830773	0,075480	0,006495	0,009051
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/00-01	17,314224	0,074595	0,006495	0,009051
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/02	7,680746	0,107265	0,006495	0,009051
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/03	7,085628	0,120797	0,006495	0,009051
Passenger Cars	Gasoline 0,8 - 1,4 l	ECE 15/04	4,077078	0,102302	0,006495	0,009051
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 1 - 91/441/EEC	2,181461	0,018683	0,006495	0,009051
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 2 - 94/12/EEC	0,910515	0,006756	0,006495	0,009051
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 3 - 98/69/EC Stage2000	1,444015	0,001568	0,005785	0,008341
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,665401	0,000561	0,005785	0,008341
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 5 - EC 715/2007	0,645425	0,000421	0,005785	0,008341
Passenger Cars	Gasoline 0,8 - 1,4 l	PC Euro 6 - EC 715/2007	0,594702	0,000280	0,005785	0,008341
Passenger Cars	Gasoline 1,4 - 2,0 l	PRE ECE	14,431619	0,115414	0,006495	0,009051
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/00-01	18,476564	0,117903	0,006495	0,009051
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/02	8,666411	0,135141	0,006495	0,009051
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/03	8,124295	0,141335	0,006495	0,009051
Passenger Cars	Gasoline 1,4 - 2,0 l	ECE 15/04	4,217628	0,140466	0,006495	0,009051
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	2,890808	0,024800	0,006495	0,009051
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	1,223618	0,007117	0,006495	0,009051
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	2,084064	0,002198	0,005785	0,008341
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	1,103968	0,000569	0,005785	0,008341
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	1,103968	0,000426	0,005785	0,008341
Passenger Cars	Gasoline 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	1,103968	0,000284	0,005785	0,008341
Passenger Cars	Gasoline >2,0 l	PRE ECE	14,952348	0,212114	0,006495	0,009051
Passenger Cars	Gasoline >2,0 l	ECE 15/00-01	19,787684	0,221609	0,006495	0,009051
Passenger Cars	Gasoline >2,0 l	ECE 15/02	8,666411	0,151292	0,006495	0,009051
Passenger Cars	Gasoline >2,0 l	ECE 15/03	8,906550	0,198532	0,006495	0,009051
Passenger Cars	Gasoline >2,0 l	ECE 15/04	4,661063	0,168784	0,006495	0,009051
Passenger Cars	Gasoline >2,0 l	PC Euro 1 - 91/441/EEC	2,890808	0,024800	0,006495	0,009051
Passenger Cars	Gasoline >2,0 l	PC Euro 2 - 94/12/EEC	1,223618	0,007117	0,006495	0,009051
Passenger Cars	Gasoline >2,0 l	PC Euro 3 - 98/69/EC Stage2000	2,084064	0,002198	0,005785	0,008341
Passenger Cars	Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	1,103968	0,000569	0,005785	0,008341
Passenger Cars	Gasoline >2,0 l	PC Euro 5 - EC 715/2007	1,103968	0,000426	0,005785	0,008341
Passenger Cars	Gasoline >2,0 l	PC Euro 6 - EC 715/2007	1,103968	0,000284	0,005785	0,008341
Passenger Cars	Diesel <1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,019695	0,413705	0,033633	0,036189
Passenger Cars	Diesel <1,4 l	PC Euro 5 - EC 715/2007	0,019695	0,370077	0,006047	0,008602
Passenger Cars	Diesel <1,4 l	PC Euro 6 - EC 715/2007	0,019695	0,097033	0,006047	0,008602
Passenger Cars	Diesel 1,4 - 2,0 l	Conventional	0,322063	0,071809	0,019780	0,200436
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	0,249989	0,083950	0,127264	0,129820
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	0,053159	0,092186	0,058402	0,060958
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,007464	0,225495	0,058117	0,060673
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,019695	0,413705	0,033633	0,036189
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	0,019695	0,370077	0,006047	0,008602
Passenger Cars	Diesel 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	0,019695	0,097033	0,006047	0,008602
Passenger Cars	Diesel >2,0 l	Conventional	0,314286	0,121167	0,219196	0,221752
Passenger Cars	Diesel >2,0 l	PC Euro 1 - 91/441/EEC	0,280929	0,087895	0,139897	0,142452
Passenger Cars	Diesel >2,0 l	PC Euro 2 - 94/12/EEC	0,067731	0,101529	0,062941	0,065496
Passenger Cars	Diesel >2,0 l	PC Euro 3 - 98/69/EC Stage2000	0,007163	0,250045	0,062887	0,065443
Passenger Cars	Diesel >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,019249	0,454168	0,035027	0,037583
Passenger Cars	Diesel >2,0 l	PC Euro 5 - EC 715/2007	0,019249	0,406274	0,006116	0,008672
Passenger Cars	Diesel >2,0 l	PC Euro 6 - EC 715/2007	0,019249	0,106523	0,006116	0,008672
Passenger Cars	LPG	Conventional	18,523000	0,150670	0,006495	0,009051
Passenger Cars	LPG	PC Euro 1 - 91/441/EEC	6,069800	0,017390	0,006495	0,009051
Passenger Cars	LPG	PC Euro 2 - 94/12/EEC	4,127464	0,006260	0,006495	0,009051
Passenger Cars	LPG	PC Euro 3 - 98/69/EC Stage2000	2,142644	0,003799	0,005785	0,008341
Passenger Cars	LPG	PC Euro 4 - 98/69/EC Stage2005	1,103968	0,000948	0,005785	0,008341
Passenger Cars	LPG	PC Euro 5 - EC 715/2007	1,103968	0,000711	0,005785	0,008341
Passenger Cars	LPG	PC Euro 6 - EC 715/2007	1,103968	0,000711	0,005785	0,008341
Passenger Cars	E85	PC Euro 4 - 98/69/EC Stage2005	0,306446	0,000527	0,005785	0,008341
Passenger Cars	E85	PC Euro 5 - EC 715/2007	0,306446	0,000395	0,005785	0,008341
Passenger Cars	E85	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Natural Gas < 1,4 l	Conventional	14,980200	0,100687	0,006495	0,009051
Passenger Cars	Natural Gas < 1,4 l	PC Euro 1 - 91/441/EEC	3,108823	0,018832	0,006495	0,009051
Passenger Cars	Natural Gas < 1,4 l	PC Euro 2 - 94/12/EEC	1,315898	0,005405	0,006495	0,009051
Passenger Cars	Natural Gas < 1,4 l	PC Euro 3 - 98/69/EC Stage2000	2,142644	0,001596	0,005785	0,008341
Passenger Cars	Natural Gas < 1,4 l	PC Euro 4 - 98/69/EC Stage2005	1,103968	0,000426	0,005785	0,008341
Passenger Cars	Natural Gas < 1,4 l	PC Euro 5 - EC 715/2007	1,103968	0,000426	0,005785	0,008341
Passenger Cars	Natural Gas < 1,4 l	PC Euro 6 - EC 715/2007	1,103968	0,000284	0,005785	0,008341
Passenger Cars	Natural Gas 1,4 - 2,0 l	Conventional	3,921800	0,191032	0,006495	0,009051
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 1 - 91/441/EEC	3,108823	0,018832	0,006495	0,009051
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 2 - 94/12/EEC	1,315898	0,005405	0,006495	0,009051
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 3 - 98/69/EC Stage2000	2,142644	0,001596	0,005785	0,008341
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	1,103968	0,000426	0,005785	0,008341
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 5 - EC 715/2007	1,103968	0,000426	0,005785	0,008341
Passenger Cars	Natural Gas 1,4 - 2,0 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Natural Gas > 2,0 l	Conventional	3,921800	0,191032	0,006495	0,009051
Passenger Cars	Natural Gas > 2,0 l	PC Euro 1 - 91/441/EEC	3,108823	0,018832	0,006495	0,009051
Passenger Cars	Natural Gas > 2,0 l	PC Euro 2 - 94/12/EEC	1,315898	0,005405	0,006495	0,009051
Passenger Cars	Natural Gas > 2,0 l	PC Euro 3 - 98/69/EC Stage2000	2,142644	0,001596	0,005785	0,008341
Passenger Cars	Natural Gas > 2,0 l	PC Euro 4 - 98/69/EC Stage2005	1,103968	0,000426	0,005785	0,008341
Passenger Cars	Natural Gas > 2,0 l	PC Euro 5 - EC 715/2007	1,103968	0,000426	0,005785	0,008341
Passenger Cars	Natural Gas > 2,0 l	PC Euro 6 - EC 715/2007	n.d.	n.d.	n.d.	n.d.
Passenger Cars	Hybrid Gasoline <1,4 l	PC Euro 4 - 98/69/EC Stage2005	0,016175	0,000516	0,004595	0,007151
Passenger Cars	Hybrid Gasoline 1,4 - 2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,014551	0,000516	0,004595	0,007151
Passenger Cars	Hybrid Gasoline >2,0 l	PC Euro 4 - 98/69/EC Stage2005	0,014551	0,000516	0,004595	0,007151
Light Commercial Vehicles	Gasoline <3,5t	Conventional	12,712285	0,134780	0,009147	0,013167
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 1 - 93/59/EEC	2,768230	0,018156	0,009147	0,013167
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 2 - 96/69/EEC	1,688620	0,006173	0,009147	0,013167
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 3 - 98/69/EC Stage2000	1,505717	0,002991	0,008437	0,012457
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 4 - 98/69/EC Stage2005	0,833560	0,001477	0,008437	0,012457
Light Commercial Vehicles	Gasoline <3,5t	LD Euro 5 - 2008 Standards	0,833560	0,001034	0,008437	0,012457

Light Commercial Vehicles	Gasoline <3,5t	LD Euro 6	n.d.	n.d.	n.d.	n.d.	
Light Commercial Vehicles	Diesel <3,5 t	Conventional	1,300374	0,213956	0,325742	0,329763	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 1 - 93/59/EEC	0,830202	0,160824	0,177055	0,181076	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 2 - 96/69/EEC	0,830202	0,160824	0,177055	0,181076	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 3 - 98/69/EC Stage2000	0,728927	0,303779	0,131791	0,135812	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 4 - 98/69/EC Stage2005	0,594295	0,539196	0,077369	0,081390	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 5 - 2008 Standards	0,594295	0,282573	0,011254	0,015274	
Light Commercial Vehicles	Diesel <3,5 t	LD Euro 6	0,594295	0,095152	0,011254	0,015274	
Heavy Duty Trucks	Gasoline >3,5 t	Conventional	2,547481	0,178120	0,014613	0,024449	
Heavy Duty Trucks	Rigid <=7,5 t	Conventional	1,385218	0,488749	0,220458	0,235905	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro I - 91/542/EEC Stage I	0,560261	0,362079	0,101481	0,116929	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro II - 91/542/EEC Stage II	0,472619	0,384828	0,074457	0,087099	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro III - 2000 Standards	0,439297	0,359093	0,054519	0,067161	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro IV - 2005 Standards	0,257863	0,260313	0,029298	0,041939	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro V - 2008 Standards	0,520816	0,053712	0,024605	0,037247	
Heavy Duty Trucks	Rigid <=7,5 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 7,5 - 12 t	Conventional	1,564098	0,818882	0,211949	0,227397	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro I - 91/542/EEC Stage I	0,785908	0,487486	0,140753	0,156200	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro II - 91/542/EEC Stage II	0,734185	0,518176	0,106721	0,119363	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro III - 2000 Standards	0,746349	0,484498	0,075923	0,088565	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro IV - 2005 Standards	0,360606	0,348053	0,034351	0,046993	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro V - 2008 Standards	0,721013	0,076156	0,029617	0,042259	
Heavy Duty Trucks	Rigid 7,5 - 12 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 12 - 14 t	Conventional	1,736290	0,846127	0,236999	0,252446	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro I - 91/542/EEC Stage I	0,887811	0,506521	0,155469	0,170916	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro II - 91/542/EEC Stage II	0,823756	0,536132	0,116726	0,129368	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro III - 2000 Standards	0,850695	0,513757	0,084820	0,097462	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro IV - 2005 Standards	0,405367	0,363934	0,034832	0,047474	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro V - 2008 Standards	0,759188	0,085624	0,031024	0,043666	
Heavy Duty Trucks	Rigid 12 - 14 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 14 - 20 t	Conventional	2,277492	0,995953	0,298481	0,313929	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro I - 91/542/EEC Stage I	1,145851	0,587995	0,187484	0,202932	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro II - 91/542/EEC Stage II	1,025610	0,630853	0,135827	0,148469	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro III - 2000 Standards	1,115171	0,606522	0,101272	0,113914	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro IV - 2005 Standards	0,509259	0,438438	0,038042	0,050684	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro V - 2008 Standards	0,919773	0,143936	0,032817	0,045459	
Heavy Duty Trucks	Rigid 14 - 20 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 20 - 26 t	Conventional	1,755357	0,995254	0,323135	0,340606	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro I - 91/542/EEC Stage I	1,473340	0,706359	0,239499	0,256971	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro II - 91/542/EEC Stage II	1,449699	0,748738	0,172473	0,187041	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro III - 2000 Standards	1,425770	0,761713	0,128870	0,143437	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro IV - 2005 Standards	0,609704	0,550291	0,047315	0,061882	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro V - 2008 Standards	1,156609	0,144379	0,043311	0,057878	
Heavy Duty Trucks	Rigid 20 - 26 t	HD Euro VI	0,626440	0,014396	0,022101	0,036669	
Heavy Duty Trucks	Rigid 26 - 28 t	Conventional	1,856622	1,040242	0,338996	0,356467	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro I - 91/542/EEC Stage I	1,574140	0,736190	0,252136	0,269608	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro II - 91/542/EEC Stage II	1,509991	0,770341	0,184157	0,198725	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro III - 2000 Standards	1,503278	0,774432	0,131343	0,145910	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro IV - 2005 Standards	0,619700	0,559071	0,047559	0,062126	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro V - 2008 Standards	1,160900	0,141638	0,044372	0,058940	
Heavy Duty Trucks	Rigid 26 - 28 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Rigid 28 - 32 t	Conventional	2,099581	1,202140	0,376423	0,393894	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro I - 91/542/EEC Stage I	1,841063	0,856458	0,287240	0,304711	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro II - 91/542/EEC Stage II	1,602307	0,890398	0,213518	0,228086	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro III - 2000 Standards	1,719783	0,885408	0,150295	0,164862	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro IV - 2005 Standards	0,691981	0,581092	0,052838	0,067405	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro V - 2008 Standards	1,298843	0,148766	0,048597	0,063164	
Heavy Duty Trucks	Rigid 28 - 32 t	HD Euro VI	0,712905	0,017494	0,022674	0,037241	
Heavy Duty Trucks	Rigid >32 t	Conventional	2,103865	1,174757	0,382367	0,399838	
Heavy Duty Trucks	Rigid >32 t	HD Euro I - 91/542/EEC Stage I	1,841248	0,837149	0,291308	0,308779	
Heavy Duty Trucks	Rigid >32 t	HD Euro II - 91/542/EEC Stage II	1,850138	0,876737	0,215459	0,230026	
Heavy Duty Trucks	Rigid >32 t	HD Euro III - 2000 Standards	1,759334	0,896639	0,150363	0,164930	
Heavy Duty Trucks	Rigid >32 t	HD Euro IV - 2005 Standards	0,702129	0,651561	0,052289	0,066857	
Heavy Duty Trucks	Rigid >32 t	HD Euro V - 2008 Standards	1,365601	0,165217	0,049423	0,063991	
Heavy Duty Trucks	Rigid >32 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 14 - 20 t	Conventional	2,156745	0,924610	0,287510	0,304981	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro I - 91/542/EEC Stage I	1,113807	0,550157	0,189966	0,207437	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro II - 91/542/EEC Stage II	0,999411	0,581129	0,137016	0,151583	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro III - 2000 Standards	1,082186	0,573270	0,105355	0,119922	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro IV - 2005 Standards	0,461367	0,413005	0,040749	0,055316	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro V - 2008 Standards	0,858937	0,112858	0,037297	0,051865	
Heavy Duty Trucks	Articulated 14 - 20 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 20 - 28 t	Conventional	1,765093	0,967923	0,327239	0,346734	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro I - 91/542/EEC Stage I	1,534686	0,690661	0,251393	0,270888	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro II - 91/542/EEC Stage II	1,460365	0,709223	0,184274	0,200767	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro III - 2000 Standards	1,465780	0,702950	0,136937	0,153430	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro IV - 2005 Standards	0,582508	0,507947	0,050583	0,067076	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro V - 2008 Standards	1,055223	0,141047	0,047832	0,064325	
Heavy Duty Trucks	Articulated 20 - 28 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 28 - 34 t	Conventional	1,850055	1,013999	0,350842	0,372361	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro I - 91/542/EEC Stage I	1,643153	0,717400	0,277475	0,298994	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro II - 91/542/EEC Stage II	1,573919	0,731795	0,201947	0,220366	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro III - 2000 Standards	1,546669	0,732044	0,145755	0,164173	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro IV - 2005 Standards	-	-	-	-	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro V - 2008 Standards	0,986309	0,141590	0,053611	0,072030	
Heavy Duty Trucks	Articulated 28 - 34 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 34 - 40 t	Conventional	2,144279	1,137779	0,393353	0,414872	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro I - 91/542/EEC Stage I	1,908846	0,806717	0,307812	0,329331	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro II - 91/542/EEC Stage II	1,881095	0,838950	0,228377	0,246795	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro III - 2000 Standards	1,811598	0,863555	0,159530	0,177949	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro IV - 2005 Standards	0,680384	0,619311	0,059776	0,078194	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro V - 2008 Standards	1,194103	0,164867	0,057499	0,075917	
Heavy Duty Trucks	Articulated 34 - 40 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.	
Heavy Duty Trucks	Articulated 40 - 50 t	Conventional	2,341536	1,268625	0,437448	0,460991	



Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	2,131864	0,894218	0,349698	0,373241
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	1,869465	0,922323	0,259219	0,279562
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro III - 2000 Standards	2,001316	0,948778	0,173103	0,193446
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro IV - 2005 Standards	0,733379	0,643145	0,067137	0,087480
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro V - 2008 Standards	1,295988	0,167799	0,065759	0,086102
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro VI	0,752523	0,020087	0,036251	0,056595
Heavy Duty Trucks	Articulated 50 - 60 t	Conventional	2,763094	1,524433	0,508684	0,532227
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	2,575336	1,062210	0,412009	0,435552
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	2,247232	1,082322	0,306139	0,326483
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro III - 2000 Standards	2,392279	1,110854	0,205394	0,225738
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro IV - 2005 Standards	0,848459	0,741083	0,072512	0,092856
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro V - 2008 Standards	1,488280	0,198609	0,072522	0,092865
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Midi <=15 t	Conventional	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	-	-	-	-
Buses	Urban Buses Midi <=15 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Standard 15 - 18 t	Conventional	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro I - 91/542/EEC Stage I	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro II - 91/542/EEC Stage II	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro III - 2000 Standards	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro IV - 2005 Standards	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro V - 2008 Standards	-	-	-	-
Buses	Urban Buses Standard 15 - 18 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Articulated >18 t	Conventional	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro I - 91/542/EEC Stage I	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro II - 91/542/EEC Stage II	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro III - 2000 Standards	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro IV - 2005 Standards	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro V - 2008 Standards	-	-	-	-
Buses	Urban Buses Articulated >18 t	HD Euro VI	-	-	-	-
Buses	Coaches Standard <=18 t	Conventional	1,277922	0,875476	0,247719	0,257556
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	1,033071	0,652871	0,176694	0,183917
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	1,084137	0,717135	0,115786	0,123009
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards	1,251140	0,713534	0,107098	0,114320
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards	0,628455	0,514367	0,038854	0,046077
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards	1,100407	0,174863	0,028565	0,035788
Buses	Coaches Standard <=18 t	HD Euro VI	0,654322	0,016189	0,013704	0,020926
Buses	Coaches Articulated >18 t	Conventional	1,688060	1,031648	0,313191	0,324855
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	1,344077	0,743330	0,214772	0,223819
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	1,294965	0,803152	0,141593	0,150640
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards	1,374454	0,759429	0,121121	0,130167
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards	0,673580	0,557566	0,044994	0,054041
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards	1,212218	0,185608	0,036185	0,045231
Buses	Coaches Articulated >18 t	HD Euro VI	0,699326	0,015308	0,018156	0,027203
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	-	-	-	-
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	-	-	-	-
Buses	Urban CNG Buses	HD Euro III - 2000 Standards	-	-	-	-
Buses	Urban CNG Buses	EEV	-	-	-	-
Mopeds	2-stroke <50 cm³	Conventional	-	-	-	-
Mopeds	2-stroke <50 cm³	Mop - Euro I	-	-	-	-
Mopeds	2-stroke <50 cm³	Mop - Euro II	-	-	-	-
Mopeds	2-stroke <50 cm³	Mop - Euro III	n.d.	n.d.	n.d.	n.d.
Motorcycles	2-stroke >50 cm³	Conventional	26,579881	0,001421	0,202010	0,203160
Motorcycles	2-stroke >50 cm³	Mot - Euro I	17,537276	0,002223	0,082010	0,083160
Motorcycles	2-stroke >50 cm³	Mot - Euro II	13,872659	0,002565	0,042010	0,043160
Motorcycles	2-stroke >50 cm³	Mot - Euro III	8,010595	0,001592	0,014010	0,015160
Motorcycles	4-stroke <250 cm³	Conventional	23,149953	0,020905	0,022010	0,023160
Motorcycles	4-stroke <250 cm³	Mot - Euro I	23,134913	0,022033	0,022010	0,023160
Motorcycles	4-stroke <250 cm³	Mot - Euro II	8,504242	0,022447	0,007010	0,008160
Motorcycles	4-stroke <250 cm³	Mot - Euro III	4,909008	0,019668	0,007010	0,008160
Motorcycles	4-stroke 250 - 750 cm³	Conventional	22,284529	0,023938	0,022010	0,023160
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro I	10,920806	0,022663	0,022010	0,023160
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro II	6,753970	0,010910	0,007010	0,008160
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro III	3,900632	0,005760	0,007010	0,008160
Motorcycles	4-stroke >750 cm³	Conventional	25,973904	0,023447	0,022010	0,023160
Motorcycles	4-stroke >750 cm³	Mot - Euro I	16,335068	0,023421	0,022010	0,023160
Motorcycles	4-stroke >750 cm³	Mot - Euro II	11,450601	0,029058	0,007010	0,008160
Motorcycles	4-stroke >750 cm³	Mot - Euro III	6,613617	0,015436	0,007010	0,008160





Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro I - 91/542/EEC Stage I	2,344805	1,006325	0,401577	0,431518
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro II - 91/542/EEC Stage II	2,038780	1,054168	0,264579	0,292600
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro III - 2000 Standards	2,219304	1,083849	0,206965	0,234986
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro IV - 2005 Standards	0,872670	0,747383	0,079835	0,107856
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro V - 2008 Standards	1,585735	0,279709	0,079979	0,108001
Heavy Duty Trucks	Articulated 40 - 50 t	HD Euro VI	0,899535	0,031007	0,044252	0,072274
Heavy Duty Trucks	Articulated 50 - 60 t	Conventional	3,085325	1,726239	0,579745	0,609686
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro I - 91/542/EEC Stage I	2,840204	1,203115	0,472785	0,502726
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro II - 91/542/EEC Stage II	2,459447	1,247369	0,312564	0,340585
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro III - 2000 Standards	2,653621	1,281165	0,241395	0,269417
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro IV - 2005 Standards	1,011774	0,876962	0,086315	0,114337
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro V - 2008 Standards	1,829606	0,314245	0,087996	0,116017
Heavy Duty Trucks	Articulated 50 - 60 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Midi <=15 t	Conventional	5,710349	1,151050	0,894550	0,931316
Buses	Urban Buses Midi <=15 t	HD Euro I - 91/542/EEC Stage I	1,960441	0,857045	0,323428	0,360194
Buses	Urban Buses Midi <=15 t	HD Euro II - 91/542/EEC Stage II	1,769003	0,935854	0,173712	0,210478
Buses	Urban Buses Midi <=15 t	HD Euro III - 2000 Standards	1,947128	1,071610	0,184515	0,221281
Buses	Urban Buses Midi <=15 t	HD Euro IV - 2005 Standards	0,965692	0,647746	0,069894	0,106661
Buses	Urban Buses Midi <=15 t	HD Euro V - 2008 Standards	1,872281	0,536584	0,070078	0,106844
Buses	Urban Buses Midi <=15 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Standard 15 - 18 t	Conventional	5,862987	1,848276	0,798711	0,835477
Buses	Urban Buses Standard 15 - 18 t	HD Euro I - 91/542/EEC Stage I	2,653163	1,138048	0,440339	0,477106
Buses	Urban Buses Standard 15 - 18 t	HD Euro II - 91/542/EEC Stage II	2,415328	1,238981	0,227084	0,263850
Buses	Urban Buses Standard 15 - 18 t	HD Euro III - 2000 Standards	2,693644	1,391140	0,233586	0,270352
Buses	Urban Buses Standard 15 - 18 t	HD Euro IV - 2005 Standards	1,259740	0,863733	0,083609	0,120376
Buses	Urban Buses Standard 15 - 18 t	HD Euro V - 2008 Standards	2,500239	0,698262	0,086338	0,123104
Buses	Urban Buses Standard 15 - 18 t	HD Euro VI	n.d.	n.d.	n.d.	n.d.
Buses	Urban Buses Articulated >18 t	Conventional	7,460910	2,332856	0,986610	1,026148
Buses	Urban Buses Articulated >18 t	HD Euro I - 91/542/EEC Stage I	3,621740	1,441604	0,551603	0,591141
Buses	Urban Buses Articulated >18 t	HD Euro II - 91/542/EEC Stage II	3,301012	1,530553	0,298862	0,338400
Buses	Urban Buses Articulated >18 t	HD Euro III - 2000 Standards	3,525384	1,725149	0,286974	0,326512
Buses	Urban Buses Articulated >18 t	HD Euro IV - 2005 Standards	1,534995	1,141341	0,102322	0,141860
Buses	Urban Buses Articulated >18 t	HD Euro V - 2008 Standards	3,165651	0,707704	0,107705	0,147243
Buses	Urban Buses Articulated >18 t	HD Euro VI	1,580088	0,055001	0,046464	0,086002
Buses	Coaches Standard <=18 t	Conventional	1,712288	0,978799	0,319388	0,337080
Buses	Coaches Standard <=18 t	HD Euro I - 91/542/EEC Stage I	1,396714	0,741186	0,244587	0,260710
Buses	Coaches Standard <=18 t	HD Euro II - 91/542/EEC Stage II	1,303014	0,827459	0,143129	0,159252
Buses	Coaches Standard <=18 t	HD Euro III - 2000 Standards	1,562967	0,857328	0,149816	0,165939
Buses	Coaches Standard <=18 t	HD Euro IV - 2005 Standards	0,811688	0,597119	0,051277	0,067400
Buses	Coaches Standard <=18 t	HD Euro V - 2008 Standards	1,406903	0,321868	0,044387	0,060510
Buses	Coaches Standard <=18 t	HD Euro VI	0,851966	0,039154	0,021123	0,037246
Buses	Coaches Articulated >18 t	Conventional	2,118668	1,176337	0,389524	0,409318
Buses	Coaches Articulated >18 t	HD Euro I - 91/542/EEC Stage I	1,708618	0,868487	0,289029	0,307253
Buses	Coaches Articulated >18 t	HD Euro II - 91/542/EEC Stage II	1,529488	0,947705	0,170965	0,189189
Buses	Coaches Articulated >18 t	HD Euro III - 2000 Standards	1,732948	0,933823	0,167927	0,186151
Buses	Coaches Articulated >18 t	HD Euro IV - 2005 Standards	0,870655	0,657760	0,058851	0,077075
Buses	Coaches Articulated >18 t	HD Euro V - 2008 Standards	1,538343	0,345480	0,053654	0,071878
Buses	Coaches Articulated >18 t	HD Euro VI	0,909330	0,039282	0,026297	0,044521
Buses	Urban CNG Buses	HD Euro I - 91/542/EEC Stage I	8,400000	0,660000	0,053573	0,090340
Buses	Urban CNG Buses	HD Euro II - 91/542/EEC Stage II	2,700000	0,600000	0,043573	0,080340
Buses	Urban CNG Buses	HD Euro III - 2000 Standards	1,000000	0,400000	0,043573	0,080340
Buses	Urban CNG Buses	EEV	0,873970	0,148435	0,043833	0,080599
Mopeds	2-stroke <50 cm³	Conventional	13,669124	0,002065	0,180749	0,185143
Mopeds	2-stroke <50 cm³	Mop - Euro I	4,277413	0,006637	0,049749	0,054143
Mopeds	2-stroke <50 cm³	Mop - Euro II	2,603643	0,006268	0,030749	0,035143
Mopeds	2-stroke <50 cm³	Mop - Euro III	n.d.	n.d.	n.d.	n.d.
Motorcycles	2-stroke >50 cm³	Conventional	16,094282	0,001042	0,204436	0,208464
Motorcycles	2-stroke >50 cm³	Mot - Euro I	10,617485	0,001599	0,084436	0,088464
Motorcycles	2-stroke >50 cm³	Mot - Euro II	8,399752	0,001840	0,044436	0,048464
Motorcycles	2-stroke >50 cm³	Mot - Euro III	4,849361	0,000946	0,016436	0,020464
Motorcycles	4-stroke <250 cm³	Conventional	15,397477	0,012429	0,024436	0,028464
Motorcycles	4-stroke <250 cm³	Mot - Euro I	11,328409	0,013120	0,024436	0,028464
Motorcycles	4-stroke <250 cm³	Mot - Euro II	4,203060	0,010933	0,009436	0,013464
Motorcycles	4-stroke <250 cm³	Mot - Euro III	2,426382	0,010132	0,009436	0,013464
Motorcycles	4-stroke 250 - 750 cm³	Conventional	19,741783	0,011884	0,024335	0,028245
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro I	9,617902	0,011532	0,024335	0,028245
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro II	2,581755	0,003944	0,009335	0,013245
Motorcycles	4-stroke 250 - 750 cm³	Mot - Euro III	1,490583	0,002084	0,009335	0,013245
Motorcycles	4-stroke >750 cm³	Conventional	20,030616	0,006636	0,024233	0,028027
Motorcycles	4-stroke >750 cm³	Mot - Euro I	9,816514	0,007792	0,024233	0,028027
Motorcycles	4-stroke >750 cm³	Mot - Euro II	2,919574	0,006850	0,009233	0,013027
Motorcycles	4-stroke >750 cm³	Mot - Euro III	1,685639	0,003671	0,009233	0,013027

## **13 Appendice E– emissioni per singolo arco – attuale rif. f.e. 2011**

**SCENARIO ATTUALE - EMISSIONI 2011 (g)**

id arco	CO	PM10	PM25	No2
360	33,073367	2,683001	2,359065	7,986789
361	291,220858	24,703238	21,709273	75,240836
362	540,365605	50,27802	44,139638	159,845145
363	329,543193	27,080881	23,807565	81,163568
364	33,846303	3,134683	2,752107	9,945854
365	1,259985	0,101528	0,089277	0,301146
366	28,759669	2,386561	2,097852	7,188859
369	164,302164	15,415205	13,532005	49,184432
370	420,939866	35,131559	30,879517	106,134171
411	206,993214	17,062223	14,999337	51,218151
425	2,314949	0,186873	0,16432	0,554828
430	750,646598	61,429969	54,007483	183,711402
433	97,236975	8,035733	7,063969	24,154047
472	205,861846	19,727651	17,31385	63,50834
484	3,381625	0,305074	0,267916	0,95672
485	21,966891	1,86186	1,636223	5,668544
490	199,924112	19,431085	17,051137	62,917964
491	10,122643	0,931713	0,818055	2,948156
513	0,000951	0,000075	0,000066	0,000219
514	1,469342	0,127783	0,112264	0,39395
517	2,023488	0,163329	0,143618	0,484904
546	129,697245	12,020889	10,553703	38,152765
551	58,00796	5,361217	4,707005	16,994793
554	4,38654	0,406885	0,357221	1,291847
555	4,801854	0,440402	0,386692	1,391343
556	0,990269	0,082505	0,072521	0,249035
557	2,014047	0,166658	0,146502	0,501281
558	1,480914	0,125146	0,109983	0,380451
559	18,905743	1,690612	1,484837	5,28054
570	12,482697	1,007704	0,886089	2,991962
571	2,033021	0,167944	0,147635	0,504709
573	52,890724	4,964533	4,358021	15,84307
578	0,024751	0,002034	0,001788	0,006096
579	1,040248	0,091064	0,079999	0,28163
580	11,654973	1,073271	0,94234	3,396801
608	24,009254	2,221994	1,950823	7,047783
610	0,157814	0,014522	0,012751	0,045946
615	5,03239	0,442453	0,388671	1,371144
616	0,317758	0,030239	0,026541	0,097066
617	14,361238	1,224334	1,075887	3,738311
622	4,744824	0,419887	0,368822	1,305176
638	6,736106	0,570501	0,501367	1,736266
639	4,673935	0,396469	0,348418	1,207552
640	15,383285	1,292892	1,136319	3,919721
641	6,537656	0,549459	0,482918	1,66582
643	2,597418	0,221135	0,194326	0,674749
644	8,592419	0,799593	0,701971	2,542246
645	2,790428	0,247382	0,217292	0,769609
646	7,99283	0,685783	0,602589	2,100501
665	8,848942	0,796734	0,699707	2,496346
666	15,763072	1,43331	1,258626	4,510871
667	27,139867	2,429438	2,133712	7,591812
668	12,231867	1,10318	0,968816	3,459152
669	8,962202	0,816273	0,716777	2,570859
670	4,704882	0,428514	0,376282	1,349602
671	10,910027	0,989371	0,868817	3,109971
673	4,283771	0,389019	0,341612	1,223609
676	6,645841	0,544328	0,478553	1,628574
677	4,054596	0,341792	0,300389	1,037786
678	2,845506	0,252008	0,221358	0,783627
679	7,520366	0,666534	0,585463	2,073342

680	0,627672	0,052593	0,046225	0,159204
681	13,869238	1,145415	1,006908	3,441763
684	0,00592	0,000466	0,00041	0,001366
687	1,195442	0,105829	0,092958	0,329016
688	1,590015	0,146967	0,129033	0,465898
689	2,566629	0,237236	0,208287	0,75206
690	200,65189	16,387684	14,40793	48,957235
693	55,549246	4,587445	4,032717	13,784143
694	5,642065	0,488421	0,429126	1,502469
695	7,890132	0,728295	0,639432	2,307372
698	0,033296	0,002885	0,002535	0,008878
699	4,988357	0,415854	0,365527	1,25559
700	6,269522	0,51754	0,454959	1,55474
701	4,339953	0,373505	0,328183	1,145718
702	74,680009	6,405958	5,628856	19,618636
703	66,016586	5,762595	5,062543	17,79736
705	168,769695	14,033226	12,335293	42,314821
707	0	0	0	0
721	39,263185	3,601025	3,161861	11,376577
722	345,384695	28,165859	24,763659	84,077192
727	6,533796	0,568496	0,499452	1,753056
728	4,483706	0,378804	0,332909	1,151441
729	2,740195	0,243516	0,213891	0,758431
730	14,395366	1,224024	1,075646	3,732523
731	2,180927	0,171816	0,151125	0,503394
733	40,634673	3,421485	3,007067	10,382731
745	0,406473	0,037134	0,032607	0,117115
746	0,005531	0,000436	0,000383	0,001277
749	1,140523	0,10582	0,092903	0,336014
750	0,321377	0,02936	0,025781	0,092597
778	33,209854	3,119046	2,737978	9,956166
779	30,440321	2,897363	2,543029	9,300981
782	241,932989	22,913415	20,112237	73,401828
783	4,162832	0,390016	0,342375	1,243651
784	12,042994	1,168902	1,025747	3,78282
785	16,48818	1,519762	1,334349	4,811873
786	9,933668	0,936809	0,822319	2,995592
790	402,924801	37,984044	33,342071	121,44041
793	24,207806	2,21735	1,946959	7,001178
794	17,549909	1,631	1,431891	5,182668
797	28,020632	2,566205	2,253277	8,102127
798	0,565039	0,05406	0,047446	0,173916
800	4,100812	0,37417	0,328556	1,179395
801	1,094125	0,100382	0,08814	0,317182
802	3,369296	0,301911	0,265158	0,943889
803	4,302231	0,382342	0,335827	1,190817
804	18,132008	1,616153	1,419491	5,040418
806	36,614521	3,256119	2,85997	10,144427
807	99,566644	9,61675	8,439407	31,059499
808	116,67114	11,047713	9,697144	35,387771
810	40,389818	3,736375	3,280405	11,848924
811	63,956052	5,889495	5,171018	18,639654
812	3,369556	0,288634	0,253624	0,883358
813	19,016256	1,688078	1,482731	5,254831
815	965,896497	86,442223	75,920152	270,096268
816	476,52628	42,603704	37,418231	133,057879
817	0,400676	0,051688	0,045245	0,184171
818	0	0	0	0
821	75,720364	6,425487	5,646712	19,574295
822	961,725941	81,557326	71,673028	248,372386
823	73,069781	6,191817	5,441451	18,849245
829	10,013907	0,842833	0,740751	2,557104
831	314,838662	26,44219	23,240138	80,137774

832	177,84357	14,693145	12,91634	44,158935
833	6,987761	0,573226	0,503949	1,716432
837	236,828086	19,427475	17,079599	58,172124
854	241,128113	21,983541	19,303758	69,267943
856	364,437089	30,713566	26,993188	93,244348
861	2455,370055	208,185888	182,955281	633,947432
870	13,306542	1,245473	1,093347	3,969794
873	2,217032	0,211672	0,185779	0,680374
876	22,363073	2,053316	1,802882	6,490157
877	0	0	0	0
879	1308,269604	120,965263	106,203773	383,526323
904	0,068958	0,006085	0,005345	0,018888
906	24,252742	2,150966	1,889329	6,692933
907	0,038788	0,003178	0,002794	0,009509
908	45,037395	3,716238	3,266891	11,161565
931	11,48479	1,054248	0,925668	3,33193
932	0,089061	0,007657	0,006728	0,023474
933	8,737822	0,714209	0,627921	2,134556
936	1,320083	0,137295	0,1204	0,456421
937	63,02478	5,089796	4,475514	15,115118
939	248,31718	22,803827	20,022503	72,084323
951	10,91348	0,982907	0,863204	3,080075
991	0	0	0	0
992	0	0	0	0
993	0	0	0	0
994	0	0	0	0
995	0	0	0	0
996	0	0	0	0
997	0	0	0	0
1001	0	0	0	0
1005	0	0	0	0
1006	0	0	0	0
1007	0	0	0	0
1016	92,385763	8,226852	7,225842	25,646595
1105	552,740229	46,689376	41,032746	141,907393
1109	54,168924	4,645465	4,081937	14,225407
1111	3,942882	0,321236	0,282437	0,958438
1143	40,411536	3,619141	3,178581	11,311956
1144	14,802923	1,326187	1,164745	4,145806
1145	13,413264	1,200202	1,054111	3,749837
1153	33,398648	3,083551	2,707305	9,770237
1155	0,007423	0,000585	0,000514	0,001713
1156	1,74191	0,158376	0,139074	0,49842
1174	278,393961	24,642097	21,645177	76,606064
1175	472,485624	41,645994	36,582799	129,211835
1176	308,341935	28,075373	24,653337	88,412063
1177	156,721915	14,130946	12,409868	44,30406
1179	5,112761	0,462414	0,406081	1,451801
1245	13,558989	1,217369	1,069149	3,809384
1250	0,12232	0,011214	0,009847	0,035423
1251	17,997946	1,725704	1,514544	5,556776
1254	0,079529	0,007758	0,006807	0,025157
1255	2,616627	0,227421	0,199803	0,700926
1261	200,76206	19,259345	16,902662	62,028034
1262	86,33611	7,482615	6,574137	23,030719
1263	68,617985	5,937858	5,217022	18,262576
1264	146,388049	14,046161	12,327366	45,242058
1268	345,938457	31,896223	28,004734	101,003877
1277	112,683526	10,466599	9,18891	33,250916
1285	1,583079	0,144627	0,126994	0,456124
1295	164,528058	14,423627	12,670806	44,637291
1296	81,538414	7,91726	6,947609	25,626049
1301	11,541106	1,015005	0,891625	3,145898



1302	13,833644	1,273419	1,118075	4,029583
1303	23,838794	2,274522	1,996309	7,308977
1304	41,194783	3,842253	3,373071	12,228206
1305	13,15237	1,324183	1,161591	4,348198
1306	47,255154	4,679354	4,105457	15,265851
1307	48,11258	4,219011	3,706287	13,058385
1308	30,246473	2,646556	2,324984	8,183003
1315	13,127712	1,432244	1,255444	4,843749
1316	45,377298	4,538196	3,981224	14,863311
1317	10,752193	1,038769	0,911594	3,355283
1318	32,733731	3,234252	2,837651	10,542125
1322	275,651844	27,284108	23,937967	88,995973
1323	77,524505	7,152981	6,280237	22,657961
1324	309,996802	27,930236	24,528671	87,538657
1325	30,655129	2,761285	2,425	8,653402
1329	40,443466	3,687023	3,237578	11,617175
1374	108,282031	10,855584	9,523056	35,587418
1376	75,979022	7,347768	6,448126	23,743579
1380	21,7818	2,104455	1,846809	6,797664
1381	0,031339	0,003032	0,002661	0,009799
1382	47,791457	4,151383	3,647264	12,791388
1387	22,715944	2,17845	1,911889	7,015114
1389	0,017551	0,001383	0,001216	0,004051
1390	11,18925	0,971462	0,853498	2,992585
1393	0,011965	0,000943	0,000829	0,002762
1410	535,379686	48,574406	42,655424	152,721481
1414	530,199668	45,832739	40,269278	140,892732
1432	792,236451	74,846636	65,698271	239,515431
1437	0	0	0	0
1658	0	0	0	0
1659	0	0	0	0
1666	1,489653	0,133766	0,117479	0,418608
1667	26,504777	2,477057	2,174535	7,890181
1668	8,162415	0,772847	0,678368	2,475481
1669	12,731392	1,193805	1,04797	3,808073
1672	0,15611	0,015439	0,013546	0,050342
1673	129,896821	11,630737	10,214945	36,349432
1718	143,204913	12,200403	10,721214	37,239668
1721	8,515232	0,725224	0,6373	2,213273
1723	0,822974	0,076261	0,066953	0,242019
1724	5,832242	0,555651	0,487693	1,784436
1727	0,019942	0,001571	0,001382	0,004603
1728	236,38322	23,200837	20,357171	75,42271
1729	29,89118	2,459223	2,161943	7,374941
1820	301,034197	26,247062	23,058809	81,017755
1836	94,337181	8,089832	7,108483	24,772172
1837	14,464808	1,235028	1,085265	3,773765
1839	0,637544	0,05926	0,052026	0,18832
1840	5,080157	0,424963	0,373519	1,28533
1841	2,256428	0,186687	0,164109	0,561482
1846	139,740031	12,401879	10,893271	38,601746
1848	59,350958	5,364166	4,710716	16,836116
1930	101,928559	8,709391	7,653199	26,622371
1931	70,217537	6,000327	5,272659	18,342233
1933	167,012653	14,651083	12,870526	45,355298
1972	85,771419	7,288032	6,404618	22,216456
1975	375,797977	31,012185	27,262329	93,149084
1985	0,146071	0,013159	0,011556	0,04124
2002	2584,40473	258,287472	226,589457	845,70232
2013	64,164459	5,418199	4,761777	16,465454
2016	18,538072	1,562516	1,373244	4,743981
2022	2,541809	0,226424	0,198873	0,705974
2023	0,915318	0,089544	0,078571	0,290711

2024	3,444642	0,356629	0,312757	1,183561
2025	9,756608	0,894168	0,785126	2,823988
2026	0,861877	0,102697	0,089952	0,357493
2029	24,231317	2,207364	1,938304	6,952661
2030	1,643088	0,137895	0,121197	0,417759
2031	9,269907	0,995802	0,872999	3,349463
2037	15,715732	1,318804	1,159113	3,995183
2039	0,025386	0,002	0,001759	0,005859
2040	1,430405	0,153727	0,134769	0,517155
2041	0,002849	0,000224	0,000197	0,000658
2044	0	0	0	0
2045	0	0	0	0
2046	0	0	0	0
2047	0	0	0	0
2048	0	0	0	0
2049	0	0	0	0
2050	0	0	0	0
2051	0	0	0	0
2052	0	0	0	0
2053	7,782991	0,653499	0,574364	1,980289
2054	0	0	0	0
2066	77,988759	6,577629	5,780821	19,976835
2072	0	0	0	0
2074	0	0	0	0
2077	0	0	0	0
2078	0	0	0	0
2079	0	0	0	0
2080	0	0	0	0
2081	0	0	0	0
2082	0	0	0	0
2247	159,951935	13,707954	12,045176	41,962729
2250	49,379148	4,494123	3,946364	14,149636
2251	134,031716	13,003014	11,410595	42,072402
2252	9,613557	0,838989	0,737068	2,590892
2253	132,057416	11,538073	10,136298	35,650317
2266	40,766403	3,870908	3,397598	12,413674
2271	113,379669	10,601501	9,306697	33,776392
2272	146,453413	14,250878	12,505261	46,166487
2273	290,408848	27,876997	24,465651	89,806346
2274	151,717586	15,120239	13,264991	49,453166
2291	89,071943	7,888535	6,929106	24,529713
2293	1,592962	0,143109	0,125684	0,447942
2294	5,071251	0,451111	0,396226	1,405617
2295	5,151924	0,454617	0,399341	1,411252
2297	13,247856	1,156628	1,016116	3,572488
2298	1,382863	0,121248	0,106514	0,375257
2299	1,815461	0,15711	0,138037	0,483224
2310	13,443036	1,059055	0,931521	3,102878
2311	140,776924	13,159957	11,552708	41,923098
2392	102,928235	9,744157	8,552966	31,209238
2440	13,98997	1,184034	1,040559	3,602258
2453	12,976643	1,130111	0,992849	3,486418
2455	23,773726	2,067189	1,816141	6,372585
2457	0	0	0	0
2460	41,631854	3,706234	3,255285	11,552414
2463	76,013038	6,37147	5,600037	19,290655
2466	6,889628	0,574539	0,505006	1,734992
2467	106,612726	8,89011	7,814202	26,845536
2471	51,064087	4,573601	4,01685	14,295853
2482	0	0	0	0
2486	0	0	0	0
2487	24,689	2,143873	1,88354	6,604705
2493	112,450023	10,844761	9,517223	35,003959

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2597	0	0	0	0
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2599	0	0	0	0
2600	0	0	0	0
2649	59,082649	5,363038	4,709507	16,865365
2650	0,007542	0,000594	0,000523	0,001741
2651	9,075572	0,81027	0,71166	2,528979
2652	0,014995	0,001652	0,001448	0,005608
2654	506,146154	45,192055	39,692115	141,055967
2655	9,20073	0,82132	0,721366	2,563291
2656	3,351808	0,297884	0,261645	0,927783
2657	129,395085	10,563967	9,287803	31,552924
2658	22,36064	1,985789	1,744218	6,182774
2660	5,201604	0,559829	0,490782	1,884294
2663	47,362134	4,471122	3,924656	14,30332
2666	498,299724	45,282086	39,763607	142,471749
2667	17,351423	1,543449	1,355664	4,809173
2672	11,573757	1,046795	0,91927	3,28657
3005	34,517858	3,192623	2,803015	10,123797
3026	393,515475	35,318301	31,01826	110,499616
3039	59,354842	5,329241	4,68038	16,676484
3041	279,932899	25,398931	22,303963	79,857407
3043	14,001277	1,257862	1,104704	3,937213
3045	0,00441	0,000569	0,000498	0,002027
3046	8,501483	0,771806	0,677754	2,427286
3047	0,003039	0,000392	0,000343	0,001397
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3066	1,441935	0,113597	0,099917	0,332823
3085	0,396453	0,035513	0,03119	0,111012
3090	149,242369	12,854424	11,294537	39,446036
3109	0	0	0	0
3126	4,548984	0,424943	0,373047	1,35331
3128	3,60366	0,319466	0,280609	0,993847
3139	530,388004	45,355102	39,854512	138,692212
3140	4961,201153	424,653143	373,147865	1299,162679
3186	437,821746	35,539158	31,248056	105,827942
3187	685,147618	58,189229	51,136141	177,338706
3430	63,229529	5,372381	4,721174	16,376497
3434	21,509611	1,778537	1,563448	5,347481
3447	29,536021	2,498708	2,19594	7,600373
3535	0,625068	0,054338	0,047739	0,16749
3536	8,532819	0,776826	0,682142	2,446145
3537	1,48842	0,14141	0,124118	0,453595
3538	4,652435	0,440966	0,387054	1,413062
3542	15,177846	1,351928	1,187427	4,215047
3619	696,513346	69,95024	61,362768	229,471972

3620	937,380042	92,992135	81,585703	303,595876
3632	25,915515	2,270205	1,994337	7,023166
3636	173,408885	16,958233	14,880245	55,048282
3642	224,000063	21,738301	19,07605	70,345516
3670	82,139073	7,268116	6,384207	22,591208
3672	2,967784	0,268194	0,235524	0,841711
3912	15,692111	1,419265	1,246364	4,455967
3916	8,122646	0,692525	0,608557	2,114587
3917	11,885588	1,01062	0,888111	3,081772
4077	0,629141	0,056249	0,049403	0,175677
4078	0,064599	0,005936	0,005212	0,01877
4080	7,731068	0,709576	0,623034	2,242462
4081	0,121482	0,010429	0,009164	0,031952
4098	28,454376	2,440865	2,144764	7,475423
4256	155,703784	14,393113	12,636743	45,629121
4320	417,255096	41,744799	36,621342	136,740054
4321	24,571846	2,228749	1,957173	7,006463
4322	13,063905	1,325473	1,162636	4,365415
4466	0	0	0	0
4467	792,729183	67,808779	59,584844	207,383823
4468	164,103937	14,09474	12,384736	43,193049
4476	140,41266	12,098307	10,630132	37,132302
4477	57,056585	5,049757	4,435622	15,697527
4636	13,603536	1,105595	0,972088	3,294368
4637	0,35901	0,028283	0,024877	0,082866
4639	24,231331	2,112932	1,85627	6,522374
4642	0	0	0	0
4645	21,524922	1,738029	1,528272	5,160941
4646	18,254982	1,477596	1,299231	4,393314
4654	5,701672	0,525238	0,461161	1,66259
4661	156,156762	12,527278	11,016263	37,069266
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4826	0	0	0	0
5060	0,002755	0,000217	0,000191	0,000636
5061	25,604732	2,543964	2,231887	8,310391

5064	0,588754	0,057305	0,050285	0,185661
5065	4,411184	0,397033	0,348683	1,243796
5068	170,815117	16,689259	14,644364	54,155085
5071	168,205069	15,125771	13,283914	47,365437
5075	234,384103	20,922442	18,376197	65,297245
5115	358,016449	33,005411	28,978637	104,510122
5116	473,654196	45,864578	40,248521	148,284334
5117	404,501052	37,106151	32,580788	117,238231
5278	1353,958006	124,564912	109,36994	394,073215
5281	624,409685	56,614674	49,716306	177,94795
5282	76,835988	7,513538	6,592866	24,3891
5283	246,463469	24,103684	21,150113	78,244766
5284	163,749835	16,007335	14,045921	51,953295
5285	387,062396	35,268397	30,969382	111,099213
5287	2399,374777	231,941618	203,544152	749,36801
5292	1,741383	0,196859	0,172504	0,673835
5294	25,913977	2,041528	1,795682	5,981379
5296	18,671867	1,490815	1,311072	4,400126
5302	0,210347	0,023179	0,020316	0,078662
5303	248,594118	22,145541	19,450881	69,049306
5468	7,520179	0,666819	0,585711	2,074665
5509	0,35863	0,028253	0,024851	0,082778
5535	267,255918	23,689335	20,807967	73,692123
5664	7,013332	0,633974	0,556744	1,989957
5666	4,344533	0,391305	0,34365	1,226237
5667	9,976394	0,893652	0,784865	2,793469
5668	0,43759	0,036862	0,032397	0,111886
5672	448,773185	40,002745	35,134991	124,763105
5674	428,926918	38,348637	33,68106	119,76943
5683	214,516942	18,975481	16,667844	58,971845
5710	5,105981	0,434258	0,381615	1,324373
5718	8,192839	0,689846	0,606291	2,093386
5720	5,559739	0,446652	0,392771	1,322697
5721	61,001843	5,191352	4,562005	15,837112
5723	3,514639	0,298626	0,262429	0,910296
5763	43,893747	4,259168	3,73756	13,782022
5767	59,361384	5,758395	5,053196	18,631113
5768	6,722235	0,61864	0,543174	1,957395
5769	41,861831	3,793702	3,331466	11,921495
5771	94,90943	9,071001	7,961323	29,169597
5772	8,443647	0,819995	0,719567	2,654274
5783	8733,042423	739,38992	649,792046	2249,905314
5787	462,113002	45,849603	40,22563	149,695148
5788	2200,327784	221,754285	194,523896	728,457408
5789	2828,113087	273,582088	240,084695	884,161065
5790	457,692634	41,639231	36,564259	131,0768
5791	121,345041	11,255054	9,881264	35,733553
5792	246,157234	23,25158	20,40962	74,401344
5797	49,312643	4,274009	3,755093	13,155197
5799	32,796451	3,172844	2,784359	10,25428
5800	176,259643	14,817273	13,022814	44,927516
5803	394,792927	35,013545	30,75461	108,947267
5806	395,342927	38,320236	33,627632	123,943939
5808	202,644028	17,967262	15,781829	55,899389
5817	1,487284	0,118691	0,104382	0,350223
5855	10,973121	0,965749	0,84835	2,99425
5856	127,772896	11,716747	10,287844	37,013532
5857	516,581591	47,335241	41,562855	149,484193
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5972	329,475755	28,391692	24,94622	87,145005
5985	120,968492	10,712069	9,409246	33,307661
5988	29,308186	2,790696	2,449397	8,960032
5989	19,098324	1,834602	1,610088	5,911961
6000	185,695669	17,686784	15,523664	56,793372
6001	38,268482	3,489222	3,063885	10,994615
6006	375,788606	34,811795	30,563075	110,463456
6007	81,782624	7,723093	6,779144	24,710021
6008	30,175642	2,824539	2,479539	9,00307
6009	19,114001	1,775033	1,558353	5,63852
6010	90,613865	8,585501	7,535887	27,50788
6011	312,381486	29,055619	25,508343	92,360932
6012	442,340927	40,477845	35,542207	127,752246
6013	6,776316	0,74944	0,656847	2,54646
6014	37,148112	3,985737	3,494252	13,400598
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6072	4,456807	0,408235	0,358453	1,288992
6074	1,178072	0,11003	0,096592	0,350383
6077	0,4273	0,03914	0,034367	0,123583
6120	111,941584	10,078789	8,851381	31,578914
6121	119,95242	11,50908	10,100746	37,06951
6174	105,167315	9,036972	7,940545	27,699955
6350	0	0	0	0
6384	17,58339	1,648286	1,446936	5,257143
6385	69,354967	6,501823	5,707575	20,737874
6386	229,084061	21,597157	18,95779	69,05085
6399	47,197955	3,863361	3,396548	11,555058
6401	42,87412	3,679597	3,233208	11,271839
6446	1679,856782	136,750484	120,234696	407,832365
6447	106,017925	8,606412	7,567242	25,629071
6448	55,228304	4,43059	3,896181	13,110552
6449	50,197386	4,444115	3,903622	13,816909
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6680	126,083655	11,327861	9,948569	35,45803
6682	4,4332	0,43303	0,379973	1,404998
6691	2,621207	0,264076	0,23165	0,867362
6692	11,926651	1,018019	0,894574	3,110221
6693	15,346917	1,347227	1,183488	4,171961
6694	10,671021	0,949957	0,834373	2,961007
6695	9,162953	0,816396	0,717056	2,545694
6696	8,870348	0,805171	0,707054	2,532043
6697	0,071561	0,006996	0,006139	0,022706
6704	10,740658	0,868967	0,764076	2,583048
6705	12,044255	1,020877	0,897157	3,108174
6710	27,830921	2,539277	2,229722	8,003743
6722	802,189242	72,752837	63,887891	228,699407
6769	191,072288	17,04798	14,973333	53,193584
6856	12,609465	1,067401	0,938058	3,247732
6857	0,583037	0,045932	0,040401	0,134575
6858	7,536363	0,63849	0,561115	1,943509
6859	641,296854	57,391271	50,405402	179,322408
6943	212,796028	19,007459	16,69415	59,338095
6960	3,14407	0,282145	0,247794	0,882687
6961	3,471228	0,312239	0,274217	0,977884
6962	4,497524	0,4133	0,362888	1,306853
6963	4,695193	0,431631	0,378982	1,365048
6964	6,850088	0,622267	0,546434	1,957533
6965	8,247067	0,747909	0,656777	2,351003
6966	8,640572	0,78371	0,688215	2,463705
6967	0,117842	0,010458	0,009186	0,03255
6969	47,607403	4,438176	3,896245	14,121765
6970	36,342606	3,252707	2,856773	10,163727
6971	58,377867	5,359243	4,705607	16,938393
6973	15,128416	1,3821	1,213596	4,358863
6986	120,684394	10,803456	9,488391	33,760482
6987	118,223677	11,073963	9,721276	35,308414
6989	0,378632	0,034308	0,030128	0,107805
6990	3,970269	0,371029	0,325716	1,181814
6993	0,059251	0,005713	0,005014	0,018441
6994	12,733966	1,139751	1,001015	3,561442
7051	291,195472	28,981905	25,426168	94,740123
7174	54,457412	4,942107	4,33988	15,540106
7252	197,969721	18,5538	16,287358	59,171018
7413	79,97989	7,259154	6,374572	22,827078
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20502	0,237452	0,018707	0,016454	0,054808
20505	3996,080428	327,193281	287,657256	978,764389
20538	0	0	0	0
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20555	42,623946	4,090167	3,58966	13,17469
20615	79,405812	6,966755	6,120072	21,568314
20628	13,078041	1,175095	1,032013	3,678394
20634	318,427942	29,065005	25,521674	91,628823
20660	73,779303	6,49954	5,70938	20,160476
20662	143,528605	12,808406	11,249669	39,968591
20679	96,657152	8,735788	7,671617	27,418202
20703	0,8419	0,073325	0,064419	0,226216
20714	93,040947	8,52574	7,48605	26,924536

20716	51,142619	4,870575	4,274901	15,638968
20722	6,250842	0,52959	0,465412	1,612042
20724	33,958535	3,098495	2,720766	9,766577
20727	52,57733	4,525525	3,976382	13,882862
20747	7,947966	0,666963	0,586202	2,020497
20750	1,046694	0,112489	0,098617	0,378426
20757	27,588229	2,216551	1,94916	6,564323
20758	1,431987	0,112813	0,099228	0,330527
20767	134,939542	12,80817	11,24211	41,068241
20770	59,101364	5,630553	4,941915	18,081914
20773	160,203407	14,54326	12,77103	45,736631
20778	318,113253	29,239099	25,672642	92,462424
20779	270,050487	24,595304	21,597383	77,462096
20781	11,644293	1,070498	0,939921	3,385532
20784	4,887404	0,450264	0,395333	1,425317
20790	109,688937	9,70849	8,52777	30,180306
20806	66,81472	5,665842	4,979176	17,254214
20853	1474,104841	119,572492	105,135852	355,927631
20859	19,668848	1,593218	1,400884	4,738965
20861	4,740256	0,383114	0,336874	1,138203
20863	15,991059	1,351164	1,18746	4,10735
20865	10,038088	0,903395	0,793382	2,829959
20867	19,556892	1,94515	1,706514	6,356913
20869	7,831793	0,671434	0,589986	2,055758
20895	262,89551	23,527338	20,663505	73,512776
20912	70,202635	6,046625	5,312866	18,555105
20917	132,621842	10,680223	9,391559	31,66913
20928	14,028259	1,303942	1,144757	4,143721
20932	277,95177	25,290358	22,207948	79,616577
20935	127,198651	11,790642	10,351546	37,423834
20950	3,086717	0,273945	0,240621	0,852674
20953	78,380406	7,669273	6,729477	24,90079
20955	104,29661	10,192309	8,943451	33,075908
20966	3,159303	0,277135	0,243455	0,857908
20968	9,092218	0,841549	0,738846	2,669369
20970	46,258249	4,396399	3,858798	14,104305
20972	4,602884	0,419296	0,368187	1,320672
21005	65,445411	5,686566	4,996007	17,524128
21009	66,978201	5,635185	4,952684	17,093573
21013	35,082202	2,76381	2,430984	8,097559
21017	144,843633	11,530244	10,140444	33,976038
21019	56,149541	4,554446	4,004565	13,556851
21022	1,536527	0,122681	0,107889	0,362091
21026	32,857974	2,794172	2,455456	8,520951
21028	29,157119	2,490773	2,188722	7,612773
21031	0	0	0	0
21033	0	0	0	0
21035	34,033011	2,787213	2,450417	8,338656
21037	90,791511	7,767892	6,825775	23,759624
21039	98,764359	8,296834	7,292098	25,148034
21041	42,785784	3,602299	3,165983	10,930947
21043	0,210384	0,023183	0,02032	0,078676
21045	53,641948	4,523263	3,975328	13,73612
21047	0,078794	0,006207	0,00546	0,018187
21049	163,649612	12,918931	11,362911	37,893621
21081	4,378512	0,370055	0,325219	1,125057
21097	5,029374	0,405082	0,356204	1,201247
21099	0,139244	0,015968	0,013991	0,054915
21121	238,716977	20,262851	17,806914	61,736501
21148	19,709874	1,639476	1,441104	4,944483
21152	11,492659	0,925604	0,813921	2,744747
21154	26,595813	2,125778	1,869454	6,277888
21165	41,811583	3,394192	2,984365	10,107539



21225	1,375721	0,111368	0,097925	0,331153
21228	1,753407	0,145621	0,128004	0,438826
21232	22,065932	1,84894	1,625084	5,596981
21236	6,310342	0,544253	0,4782	1,671228
21240	20,75593	1,68436	1,48099	5,014943
21247	188,030084	15,407441	13,545577	46,10823
21250	12,862302	1,054591	0,927146	3,156959
21261	0,225759	0,029123	0,025493	0,10377
21263	0	0	0	0
21267	14,134063	1,181238	1,038254	3,571055
21271	0,690021	0,057537	0,050573	0,173741
21276	0,017299	0,001363	0,001199	0,003993
21278	0,632591	0,051407	0,045199	0,153171
21280	1,095824	0,095837	0,084192	0,296252
21299	7,966304	0,674796	0,593022	2,05384
21307	2,764108	0,22784	0,200293	0,683936
21309	0,022857	0,002949	0,002581	0,010506
21311	15,132054	1,209784	1,063907	3,573231
21313	6,358449	0,558976	0,491032	1,732153
21315	6,042998	0,52439	0,460716	1,614983
21317	2,917306	0,237419	0,208746	0,707952
21319	4,012649	0,356067	0,312754	1,108205
21321	16,360886	1,438074	1,263276	4,455967
21323	7,709533	0,620973	0,546046	1,841498
21325	16,870816	1,400036	1,230669	4,217295
21327	1,109515	0,089679	0,078855	0,266438
21340	0,859808	0,070602	0,062069	0,211516
21351	191,670429	15,704059	13,806368	46,993262
21368	4,639605	0,461248	0,404663	1,507125
21371	2,63152	0,236969	0,208111	0,742527
21373	6,086743	0,540177	0,474468	1,681312
21390	37,247131	3,348953	2,941157	10,48636
21407	3,799159	0,327653	0,287888	1,006096
21411	38,572906	3,422757	3,006406	10,652747
21413	5,534967	0,532881	0,467657	1,718778
21417	0,399873	0,037153	0,032617	0,118044
21427	27,653251	2,544847	2,234409	8,05189
21447	0,383443	0,034111	0,029961	0,10629
21449	3,873342	0,357192	0,313613	1,131186
21451	0,423875	0,039202	0,034418	0,124304
21463	17,504232	1,697734	1,489824	5,492601
21466	5,951751	0,547848	0,481017	1,733566
21469	16,465301	1,525631	1,339427	4,841544
21536	31,993888	2,552977	2,245188	7,532665
21587	35,081574	3,126954	2,74645	9,752329
21758	15,464454	1,325579	1,164783	4,058258
21759	17,21684	1,678658	1,473007	5,442512
21760	27,796723	2,789908	2,447418	9,150139
21768	19,226722	2,022823	1,773707	6,753147
21769	16,31155	1,664389	1,459835	5,493507
21770	60,60127	5,908476	5,184634	19,156072
21775	21,138434	2,054818	1,803138	6,653941
21776	120,558227	10,449727	9,180995	32,164859
21778	445,824151	44,532946	39,067893	145,783198
21786	22,640627	2,144149	1,882027	6,868471
21787	46,364674	4,731628	4,150106	15,618159
21788	31,361226	3,069542	2,69339	9,967505
21795	1,117784	0,094762	0,083278	0,288542
21796	0,601596	0,054812	0,048131	0,172659
21797	5,36156	0,507903	0,44581	1,627188
21804	0,405882	0,038116	0,033459	0,121663
21805	0,530691	0,04807	0,042213	0,151023
21806	4,031975	0,358311	0,31472	1,115954

21813	0,952783	0,087044	0,076432	0,27452
21814	0,473912	0,045082	0,039569	0,144687
21815	7,509958	0,704858	0,618747	2,249302
21832	0	0	0	0
21833	0	0	0	0
21834	0	0	0	0
21841	239,711486	21,202005	18,623618	65,888369
21844	47,998376	3,960123	3,481291	11,893381
21847	6,779957	0,55739	0,490015	1,670907
21848	3,131432	0,272916	0,239766	0,842253
21854	0,187149	0,015585	0,013699	0,047029
21855	1,335159	0,111384	0,097903	0,336422
21856	12,99423	1,073841	0,943981	3,227766
21863	0,878344	0,076519	0,067225	0,236102
21864	0,436117	0,045595	0,039982	0,151867
21865	7,039289	0,63028	0,553557	1,969802
21872	1,223229	0,104159	0,091531	0,317846
21873	5,39119	0,485024	0,425961	1,519141
21874	13,94362	1,231842	1,082051	3,82604
21881	4,335025	0,400931	0,352004	1,271319
21882	1,264627	0,111816	0,098219	0,347432
21883	2,118066	0,195741	0,171856	0,620469
21890	3,287636	0,269549	0,236974	0,806893
21891	4,05203	0,387515	0,340107	1,246452
21892	16,36305	1,568409	1,376501	5,049568
21899	2,212994	0,227861	0,19984	0,754662
21901	0,568841	0,049584	0,043561	0,153035
21903	7,399652	0,726176	0,637171	2,360575
21910	4,043015	0,428484	0,37569	1,434288
21911	7,443195	0,616173	0,541648	1,853758
21912	10,84083	0,955821	0,839612	2,965965
21919	8,626358	0,721122	0,633831	2,180337
21920	2,207867	0,193711	0,170169	0,599712
21921	4,365875	0,390791	0,343221	1,221159
21928	796,413211	67,265569	59,116106	204,436525
21931	35,725231	2,922246	2,56917	8,73708
21934	4,057682	0,333242	0,292965	0,998432
21935	2,95948	0,265667	0,233321	0,831259
21942	3,31287	0,303579	0,266559	0,958722
21943	5,988305	0,538453	0,472886	1,686071
21944	8,764861	0,786571	0,690806	2,460813
21951	0,198662	0,018149	0,015937	0,057239
21954	0,522096	0,048529	0,042605	0,154219
21955	0,163018	0,014973	0,013147	0,047333
21960	0,195855	0,018166	0,015949	0,057677
21961	0,578651	0,051798	0,045492	0,161862
21962	0,594038	0,053281	0,046795	0,166652
21969	0,14158	0,013593	0,011929	0,043791
21970	0,653695	0,058454	0,051339	0,182576
21971	8,993628	0,782146	0,687157	2,411329
21978	0,311409	0,027682	0,024315	0,086228
21979	0,781498	0,072855	0,063959	0,231815
21980	3,770681	0,342554	0,300808	1,077642
21987	7,31153	0,652305	0,572923	2,035269
21988	4,718328	0,461724	0,405143	1,499202
21989	111,647678	10,147439	8,910766	31,929387
21992	323,268592	28,665428	25,178703	89,187778
22002	11,378527	1,035953	0,909684	3,262184
22005	4,941133	0,488948	0,428984	1,594698
22006	7,460645	0,668744	0,587332	2,091064
22011	1,063351	0,090813	0,0798	0,277521
22012	0,604908	0,059064	0,051827	0,191607
22016	34,310394	3,409535	2,991271	11,138761

22023	34,470458	3,258693	2,86037	10,430924
22026	16,840332	1,417233	1,245582	4,29956
22027	10,130421	0,969414	0,850813	3,118948
22032	199,967941	18,544236	16,28076	58,871359
22035	246,581088	22,346878	19,624061	70,224691
22038	2,106762	0,187726	0,164883	0,585396
22039	1,97073	0,172353	0,151412	0,53278
22040	6,448847	0,5405	0,475059	1,63638
22042	2,543001	0,25131	0,220493	0,819215
22052	74,188093	6,897279	6,05525	21,920413
22055	10,158998	0,926347	0,813424	2,919046
22057	11,784222	1,10254	0,967876	3,5136
22060	21,35269	2,009197	1,76369	6,418609
22064	192,951943	17,071382	14,995272	53,05933
22067	441,779599	39,501706	34,693746	123,376344
22070	3,946668	0,342298	0,300737	1,053922
22073	5,699983	0,526547	0,462297	1,668772
22077	126,265074	11,284402	9,910972	35,236759
22080	4,233886	0,404737	0,355223	1,30162
22081	4,888357	0,428603	0,376517	1,326496
22086	13,468877	1,276122	1,120111	4,088646
22089	6,767083	0,621093	0,545343	1,962825
22090	6,755876	0,682619	0,598782	2,244605
22097	24,324969	2,113761	1,857071	6,514151
22100	41,660473	3,6389	3,196815	11,241935
22103	0,57741	0,049715	0,043682	0,15253
22104	0,45111	0,043132	0,037855	0,138722
22113	8,81423	0,769142	0,675707	2,375067
22116	46,798279	4,134587	3,631823	12,842137
22119	0,555858	0,046681	0,041028	0,141469
22120	0,461309	0,038812	0,034111	0,117731
22128	20,364314	1,770616	1,555587	5,458163
22131	9,113708	0,783501	0,688438	2,402118
22134	0,363014	0,030569	0,026866	0,092768
22135	0,465328	0,038207	0,033589	0,11446
22147	5,807703	0,510262	0,448242	1,580764
22148	2,232377	0,204759	0,179787	0,64691
22183	6,539804	0,704417	0,617533	2,37162
22186	0	0	0	0
22191	0	0	0	0
22194	0	0	0	0
22202	4,854716	0,433991	0,381168	1,355356
22205	0,838402	0,074272	0,065238	0,23098
22206	1,054664	0,094787	0,083246	0,296746
22251	43,288133	3,673675	3,228419	11,191801
22260	1300,32831	110,314493	96,944554	336,013093
22269	7584,657526	643,800356	565,769266	1961,515189
51247	563,693738	55,89739	49,041208	182,460584
51253	1388,077413	131,201144	115,164108	419,939111
51256	380,488188	38,035341	33,367423	124,549491
51259	144,392258	13,137252	11,53608	41,356321

**14 Appendice F– emissioni per singolo arco – cantiere rif. f.e. 2011**

**SCENARIO DI CANTIERE - EMISSIONI 2011 (g)**

id arco	CO	PM10	PM25	No2
360	33,394187	2,704603	2,378106	8,044107
361	302,207837	25,65001	22,541149	78,146842
362	550,807405	51,463754	45,178636	163,909864
363	334,103826	27,373906	24,066024	81,914294
364	34,767873	3,23982	2,844229	10,306813
365	1,354632	0,112382	0,098787	0,338473
366	28,413919	2,337927	2,055306	7,011562
369	161,02212	15,162267	13,309468	48,452256
370	407,938241	33,718675	29,641	101,362481
411	205,770597	17,068872	15,004067	51,405131
425	2,4192	0,194711	0,171218	0,577182
430	741,870211	60,854884	53,500387	182,215718
433	23,511977	2,056269	1,806431	6,356374
472	202,596403	19,293574	16,933967	61,948918
484	3,329231	0,275169	0,241892	0,82717
485	13,235977	1,125892	0,989405	3,433957
490	195,75161	19,37419	16,998138	63,193439
491	10,406925	0,969271	0,850925	3,08286
513	0	0	0	0
514	1,446706	0,126	0,110696	0,388726
517	2,102589	0,169235	0,148816	0,501674
546	137,875184	12,74712	11,191588	40,413846
551	58,743982	5,37883	4,722935	16,98072
554	4,503256	0,416853	0,36598	1,322308
555	4,931422	0,454739	0,399258	1,440067
556	1,003842	0,084349	0,074134	0,255696
557	1,962301	0,16138	0,141872	0,48386
558	1,43942	0,120209	0,105659	0,363274
559	18,928688	1,691841	1,485925	5,283202
570	13,070067	1,051952	0,925031	3,118308
571	2,251884	0,182593	0,160548	0,543408
573	54,416162	5,13346	4,506075	16,417306
578	0,011036	0,000869	0,000765	0,002547
579	0,932744	0,08231	0,072302	0,255518
580	11,523435	1,067187	0,936941	3,385933
608	23,918162	2,217113	1,946505	7,037216
610	0,14258	0,012974	0,011392	0,040843
615	4,927125	0,428569	0,376521	1,321373
616	0,201825	0,019024	0,016699	0,060818
617	13,333829	1,129793	0,992878	3,439193
622	4,856343	0,432555	0,379923	1,348608
638	6,489141	0,548314	0,481881	1,66682
639	4,445384	0,375412	0,32993	1,140894
640	14,112954	1,184199	1,040808	3,587252
641	5,995603	0,503094	0,442176	1,524022
643	2,142755	0,182015	0,159953	0,554761
644	8,104625	0,752864	0,660959	2,391835
645	2,79667	0,246285	0,216344	0,763808
646	7,768392	0,663151	0,582737	2,026143
665	9,10257	0,824164	0,723753	2,588829
666	16,171051	1,475801	1,295888	4,652201
667	27,455097	2,463268	2,16337	7,705563
668	12,27744	1,112036	0,976548	3,493665
669	8,971107	0,819861	0,719902	2,58607
670	4,691991	0,4285	0,376259	1,351192
671	10,978318	0,99926	0,877466	3,146281
673	4,458873	0,407216	0,35757	1,284083
676	6,543568	0,539134	0,473953	1,618017
677	3,975712	0,335298	0,29468	1,018304
678	2,696468	0,237636	0,208745	0,737242
679	7,234324	0,635503	0,558261	1,968604

680	0,567096	0,047095	0,041397	0,141916
681	13,825528	1,143976	1,00562	3,440807
684	0,00148	0,000117	0,000103	0,000342
687	1,062286	0,093882	0,082466	0,291645
688	1,578564	0,146217	0,128371	0,463946
689	2,553985	0,236485	0,207624	0,750258
690	194,620817	15,856768	13,941554	47,310987
693	53,488573	4,369783	3,841868	13,056436
694	5,501297	0,479149	0,420951	1,478261
695	7,670608	0,703944	0,61809	2,224549
698	0,053083	0,004967	0,004361	0,015831
699	4,894866	0,408711	0,359242	1,235022
700	6,209577	0,513145	0,451091	1,542398
701	4,337676	0,37435	0,328915	1,149858
702	72,300277	6,189976	5,439192	18,939469
703	67,99971	5,938469	5,217024	18,344596
705	168,81298	14,191396	12,472734	43,029987
707	0	0	0	0
721	40,383784	3,809583	3,343996	12,183277
722	331,112549	27,028565	23,763462	80,724069
727	6,466346	0,563182	0,494778	1,737487
728	4,514324	0,384167	0,337595	1,171954
729	2,766811	0,241905	0,212514	0,747679
730	14,20856	1,207687	1,061294	3,682021
731	2,155064	0,171956	0,151225	0,50735
733	40,926283	3,473048	3,05211	10,58031
745	0,416599	0,037293	0,032754	0,11654
746	0	0	0	0
749	1,038554	0,097787	0,085838	0,312478
750	0,329384	0,029486	0,025897	0,092142
778	32,51577	3,055951	2,682573	9,75762
779	29,299833	2,781633	2,441517	8,919806
782	240,813967	22,743934	19,964048	72,772981
783	4,034297	0,382589	0,335812	1,226279
784	12,845037	1,2463	1,09367	4,032706
785	18,349222	1,713381	1,50414	5,455608
786	10,174861	0,956849	0,839935	3,055999
790	413,454795	38,89003	34,138126	124,219137
793	24,627932	2,24457	1,970965	7,071366
794	17,450788	1,622232	1,424189	5,155419
797	28,539335	2,596307	2,279871	8,172817
798	0,494306	0,047403	0,041603	0,152647
800	3,802838	0,347026	0,304721	1,0939
801	1,029175	0,092428	0,081174	0,289263
802	3,26917	0,293236	0,257536	0,917191
803	4,252517	0,380837	0,334477	1,19033
804	18,324772	1,641373	1,441565	5,130632
806	35,824975	3,212685	2,821562	10,047701
807	97,802166	9,400664	8,250181	30,301017
808	112,865796	10,710566	9,401003	34,339208
810	40,968064	3,832661	3,364545	12,213556
811	64,510953	6,039866	5,302121	19,253718
812	3,02786	0,261715	0,229947	0,804489
813	18,493467	1,64555	1,445338	5,128046
815	1060,866366	94,88264	83,333734	296,384828
816	522,318239	46,696269	41,012686	145,837503
817	0,765306	0,089357	0,07828	0,309084
818	0	0	0	0
821	80,601959	6,828448	6,000947	20,784818
822	975,323976	82,635013	72,620868	251,540297
823	36,538775	3,180716	2,794402	9,810555
829	4,819729	0,412344	0,362333	1,261203
831	156,681542	13,384444	11,76134	40,907748

832	183,794046	15,320858	13,466735	46,256572
833	6,910399	0,569588	0,500723	1,709769
837	234,165275	19,29573	16,96287	57,913068
854	260,157223	23,963137	21,039744	75,849449
856	344,800831	28,564435	25,109406	85,968154
861	2666,16441	225,807084	198,443458	687,225448
870	13,86802	1,302851	1,143673	4,159287
873	2,19585	0,213585	0,187423	0,691805
876	22,802093	2,094974	1,839446	6,623708
877	0,006091	0,00048	0,000422	0,001406
879	1411,679145	130,769237	114,809114	414,94644
904	0,059081	0,004654	0,004094	0,013637
906	23,583925	2,069349	1,817855	6,406754
907	0,03345	0,002635	0,002318	0,007721
908	44,648828	3,700248	3,252668	11,138502
931	11,614015	1,069067	0,938652	3,382894
932	0,053419	0,004208	0,003702	0,01233
933	8,425917	0,686288	0,603399	2,047303
936	1,301286	0,138053	0,121042	0,462282
937	58,615729	4,711286	4,142924	13,955449
939	251,631263	23,177454	20,349913	73,362066
951	12,199781	1,117435	0,981172	3,528218
991	0	0	0	0
992	0	0	0	0
993	0	0	0	0
994	0	0	0	0
995	0	0	0	0
996	0	0	0	0
997	0	0	0	0
1001	0	0	0	0
1005	0	0	0	0
1006	0	0	0	0
1007	0	0	0	0
1016	90,468745	8,101237	7,115078	25,319895
1105	537,267083	44,97397	39,529309	136,073978
1109	53,195403	4,548971	3,997279	13,910486
1111	3,942882	0,321236	0,282437	0,958438
1143	40,880463	3,670066	3,223222	11,483908
1144	14,977292	1,344308	1,180636	4,206027
1145	13,983792	1,253845	1,1012	3,921151
1153	33,972899	3,159214	2,773526	10,041408
1155	0,022268	0,001754	0,001543	0,00514
1156	1,822571	0,164731	0,144664	0,517038
1174	286,560917	25,583123	22,469647	79,847282
1175	475,615638	41,995178	36,888818	130,40179
1176	310,841885	28,40876	24,945093	89,610786
1177	159,43513	14,47022	12,706921	45,502277
1179	4,825482	0,436228	0,383087	1,369299
1245	13,673786	1,229789	1,080037	3,851266
1250	0,144298	0,013735	0,012055	0,044091
1251	19,81496	1,934956	1,69788	6,277391
1254	0,125865	0,013199	0,011574	0,044013
1255	2,684909	0,234859	0,206323	0,726071
1261	220,217729	21,476042	18,844985	69,635237
1262	87,628521	7,607648	6,683861	23,434809
1263	70,194345	6,107327	5,365591	18,832758
1264	160,747529	15,707488	13,78287	50,971778
1268	347,963286	32,429221	28,469487	103,173025
1277	110,841766	10,321504	9,061288	32,825807
1285	0,949298	0,074787	0,065781	0,219114
1295	164,798721	14,545389	12,776814	45,157422
1296	85,97279	8,466178	7,428256	27,558949
1301	11,886062	1,049324	0,921734	3,258067

1302	14,696823	1,3687	1,201586	4,353117
1303	23,871217	2,290092	2,009863	7,375767
1304	41,378591	3,894438	3,418562	12,442435
1305	12,775403	1,30528	1,144847	4,310378
1306	44,388607	4,443826	3,898398	14,560011
1307	49,432167	4,371519	3,839902	13,584187
1308	29,868476	2,582592	2,269095	7,93999
1315	12,659574	1,374368	1,204765	4,640023
1316	46,355907	4,632059	4,063602	15,165593
1317	10,700455	1,038223	0,911076	3,359427
1318	32,662333	3,220237	2,825415	10,487419
1322	286,389065	28,078441	24,637205	91,239387
1323	77,75541	7,236722	6,353181	23,009942
1324	337,975584	30,961298	27,185738	97,764303
1325	33,264367	3,044805	2,673531	9,610898
1329	41,833544	3,81885	3,353288	12,039708
1374	106,651867	10,665102	9,356187	34,928387
1376	83,303779	8,180523	7,17782	26,599388
1380	23,901797	2,347569	2,059819	7,633742
1381	0,03355	0,002643	0,002325	0,007744
1382	49,137307	4,270433	3,751835	13,161369
1387	24,860954	2,424682	2,12763	7,862197
1389	0	0	0	0
1390	11,430361	0,99349	0,87284	3,062055
1393	0	0	0	0
1410	535,345933	48,636453	42,709296	153,008529
1414	530,140537	46,190517	40,580032	142,530548
1432	741,872452	69,88951	61,348848	223,382301
1437	0	0	0	0
1658	0	0	0	0
1659	0	0	0	0
1666	1,460647	0,13217	0,116068	0,415055
1667	25,983482	2,431524	2,134534	7,749514
1668	8,005815	0,757048	0,664509	2,423563
1669	12,312847	1,155264	1,014131	3,686097
1672	0,211302	0,021619	0,018961	0,071428
1673	125,917943	11,335825	9,955346	35,515559
1718	150,144576	12,747116	11,202091	38,841459
1721	8,926107	0,757594	0,665771	2,30811
1723	0,818689	0,074595	0,065502	0,234977
1724	5,645612	0,533735	0,468494	1,708489
1727	0,009971	0,000786	0,000691	0,002301
1728	228,652045	22,087374	19,383276	71,339924
1729	32,217192	2,661106	2,339311	7,996745
1820	293,907815	25,412223	22,327475	78,127031
1836	94,861157	8,157425	7,16765	25,013017
1837	14,18534	1,208477	1,06196	3,688598
1839	0,622183	0,058534	0,051382	0,18698
1840	5,046523	0,424996	0,373519	1,289792
1841	2,232597	0,186167	0,163637	0,562168
1846	136,078313	11,968846	10,513956	37,097866
1848	60,982617	5,5962	4,913684	17,684294
1930	98,6359	8,386302	7,36971	25,572161
1931	68,024316	5,783619	5,082525	17,635859
1933	164,33567	14,263422	12,53147	43,931964
1972	80,098958	6,760571	5,941551	20,539991
1975	373,500306	30,966884	27,221008	93,237119
1985	0,147692	0,012874	0,01131	0,039733
2002	2650,624486	265,368319	232,79735	869,480344
2013	36,735725	3,13625	2,755942	9,582702
2016	18,916893	1,599164	1,405406	4,862424
2022	2,574156	0,2279	0,200182	0,708551
2023	0,879064	0,083535	0,07332	0,267976



2024	3,629612	0,37776	0,331271	1,256138
2025	9,783247	0,897786	0,788292	2,837062
2026	0,646274	0,074112	0,064936	0,254876
2029	24,42172	2,232388	1,960206	7,042283
2030	1,775844	0,152037	0,133597	0,465186
2031	10,347808	1,132527	0,992696	3,834322
2037	17,016311	1,454374	1,277997	4,446242
2039	0,025386	0,002	0,001759	0,005859
2040	1,605768	0,17575	0,15405	0,59503
2041	0,002849	0,000224	0,000197	0,000658
2044	0	0	0	0
2045	0	0	0	0
2046	0	0	0	0
2047	0	0	0	0
2048	0	0	0	0
2049	0	0	0	0
2050	0	0	0	0
2051	0	0	0	0
2052	0	0	0	0
2053	8,445539	0,722247	0,634654	2,208639
2054	0	0	0	0
2066	76,379772	6,428159	5,649597	19,501963
2072	0	0	0	0
2074	0	0	0	0
2077	0	0	0	0
2078	0	0	0	0
2079	0	0	0	0
2080	0	0	0	0
2081	0	0	0	0
2082	0	0	0	0
2247	160,786655	13,535329	11,89593	41,06918
2250	45,622742	4,17858	3,669033	13,193241
2251	130,723552	12,742394	11,18136	41,308823
2252	9,876576	0,863146	0,758279	2,667261
2253	138,891995	12,270987	10,778839	38,11401
2266	41,031583	3,854481	3,383554	12,304838
2271	109,869844	10,330731	9,068471	32,992405
2272	148,730694	14,28658	12,538226	46,037323
2273	272,750432	26,151142	22,951265	84,205368
2274	155,463617	15,347956	13,466018	50,010701
2291	88,110666	7,726989	6,787947	23,916808
2293	1,63656	0,149213	0,131024	0,470165
2294	5,074321	0,450571	0,39576	1,402763
2295	5,084975	0,443349	0,389496	1,368492
2297	12,969696	1,123228	0,986863	3,455945
2298	1,384327	0,120991	0,106291	0,373896
2299	1,822214	0,157742	0,138592	0,485238
2310	13,052489	1,028288	0,904458	3,012733
2311	131,934684	12,333071	10,826815	39,288507
2392	106,482176	10,170155	8,926077	32,694875
2440	14,116172	1,203866	1,057896	3,676452
2453	13,627294	1,16927	1,027423	3,581465
2455	24,942171	2,135692	1,87665	6,534983
2457	0	0	0	0
2460	40,323969	3,55625	3,123873	11,036615
2463	74,233763	6,222066	5,468725	18,837906
2466	6,702094	0,55884	0,491207	1,68749
2467	103,88433	8,660862	7,612716	26,150605
2471	50,44432	4,529365	3,977891	14,173712
2482	0	0	0	0
2486	0	0	0	0
2487	23,924776	2,063444	1,813017	6,336166
2493	104,697366	10,054581	8,824148	32,396983

2576	0	0	0	0
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2578	0	0	0	0
2579	0	0	0	0
2580	0	0	0	0
2581	0	0	0	0
2582	0	0	0	0
2583	0	0	0	0
2587	0	0	0	0
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2592	0	0	0	0
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2594	0	0	0	0
2595	0	0	0	0
2596	0	0	0	0
2597	0	0	0	0
2598	0	0	0	0
2599	0	0	0	0
2600	0	0	0	0
2649	58,00714	5,239052	4,600878	16,438243
2650	0,020969	0,002074	0,001819	0,006762
2651	9,31093	0,83536	0,733657	2,613141
2652	0,01123	0,000885	0,000778	0,002592
2654	519,228626	46,562916	40,894196	145,625815
2655	9,425935	0,845708	0,742745	2,645554
2656	3,47887	0,309057	0,271459	0,962407
2657	135,828817	11,146097	9,799013	33,380929
2658	23,223958	2,063957	1,812863	6,428315
2660	5,283306	0,565661	0,495918	1,900395
2663	47,267114	4,468431	3,922237	14,303233
2666	490,63419	44,472861	39,054063	139,76683
2667	17,835546	1,595288	1,401112	4,983341
2672	11,428464	1,030011	0,904565	3,228711
3005	34,959536	3,243738	2,847797	10,300106
3026	396,921132	35,666872	31,323983	111,651457
3039	59,852041	5,380508	4,725342	16,846364
3041	276,034378	25,19801	22,126083	79,441506
3043	14,100733	1,26728	1,112971	3,967383
3045	0	0	0	0
3046	8,381044	0,765272	0,671974	2,412947
3047	0,001819	0,000143	0,000126	0,00042
3064	0	0	0	0
3065	0	0	0	0
3066	0,974829	0,076798	0,06755	0,225007
3085	0,358999	0,031707	0,027851	0,098466
3090	146,015556	12,567303	11,04235	38,551281
3109	0	0	0	0
3126	4,655182	0,439216	0,385537	1,404737
3128	3,684176	0,327701	0,287832	1,021051
3139	549,024933	47,033374	41,328399	143,950974
3140	5164,051555	442,977513	389,240094	1356,662806
3186	442,82748	35,911329	31,575651	106,882261
3187	696,325899	59,226064	52,04642	180,630572
3430	58,981088	4,97483	4,37218	15,109482
3434	20,804683	1,71367	1,506494	5,142249
3447	28,902198	2,451844	2,154685	7,468057
3535	0,645657	0,056294	0,049456	0,173764
3536	9,194826	0,848808	0,74524	2,689297
3537	1,696474	0,164562	0,144409	0,53243
3538	4,976219	0,477917	0,419431	1,539938
3542	15,371167	1,371047	1,204201	4,277389
3619	711,795147	71,470312	62,696353	234,439857

3620	932,075056	92,533136	81,182424	302,184269
3632	25,842578	2,237393	1,965771	6,883003
3636	174,174054	17,166008	15,061396	55,89696
3642	213,953259	20,797388	18,250068	67,345722
3670	84,009836	7,479734	6,569643	23,315711
3672	2,785808	0,251808	0,221133	0,790369
3912	15,481405	1,423153	1,249561	4,500687
3916	8,005082	0,681524	0,5989	2,079526
3917	11,755274	0,999016	0,877919	3,045596
4077	0,615056	0,054973	0,048282	0,171664
4078	0,071035	0,006674	0,005859	0,021309
4080	8,246444	0,768677	0,674817	2,445714
4081	0,104241	0,00877	0,007708	0,026603
4098	11,360459	1,068032	0,937536	3,410671
4256	170,142016	15,986777	14,033535	51,040437
4320	428,939132	42,648473	37,416376	139,360352
4321	24,198006	2,269442	1,992203	7,239791
4322	13,378478	1,364364	1,19669	4,502312
4466	0	0	0	0
4467	776,085086	65,76881	57,798454	200,221575
4468	172,206936	15,041227	13,213896	46,46735
4476	137,667341	11,81176	10,378855	36,178453
4477	56,327882	4,9789	4,373444	15,468047
4636	3,009256	0,270967	0,237968	0,849032
4637	2,872082	0,226265	0,199018	0,662925
4639	10,168002	0,974792	0,855517	3,138637
4642	0	0	0	0
4645	20,525182	1,668877	1,467342	4,973964
4646	21,248755	1,711475	1,504968	5,075339
4654	5,798963	0,534764	0,46952	1,693528
4661	161,208233	12,945099	11,383553	38,32573
4757	0	0	0	0
4767	0	0	0	0
4768	0	0	0	0
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4771	0	0	0	0
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4823	0	0	0	0
4824	0	0	0	0
4825	0	0	0	0
4826	0	0	0	0
5060	0,002755	0,000217	0,000191	0,000636
5061	25,541375	2,551036	2,237977	8,350738

5064	0,593576	0,057684	0,050619	0,186774
5065	4,655538	0,418231	0,367307	1,30907
5068	171,723919	16,887117	14,817023	54,940169
5071	177,772255	15,964684	14,020876	49,961926
5075	248,679686	22,162582	19,465758	69,115992
5115	343,831115	31,761291	27,885713	100,659112
5116	428,298089	41,938089	36,798711	136,205592
5117	373,388078	34,473685	30,267301	109,230476
5278	1466,290335	135,314507	118,80439	428,658624
5281	622,675089	57,034482	50,079512	180,083127
5282	79,815693	7,853475	6,890724	25,556185
5283	257,511279	25,332287	22,226871	82,427158
5284	170,79868	16,774188	14,718128	54,544173
5285	401,699941	36,881395	32,383142	116,57309
5287	2392,923339	231,737525	203,36133	749,264823
5292	2,187691	0,198869	0,174632	0,625798
5294	96,150337	7,574816	6,662636	22,193105
5296	28,019868	2,214041	1,947349	6,497569
5302	27,913777	2,291587	2,014622	6,864507
5303	228,027501	20,419399	17,933757	63,819722
5468	6,753301	0,597107	0,524495	1,855297
5509	0,376561	0,029666	0,026093	0,086917
5535	259,488723	22,754309	19,989052	70,427015
5664	6,932725	0,629717	0,552977	1,980893
5666	4,375977	0,394177	0,346172	1,235297
5667	10,055678	0,901415	0,791677	2,818681
5668	0,448945	0,03704	0,032562	0,111242
5672	453,673328	40,500782	35,571836	126,404472
5674	426,943826	38,640673	33,933056	121,354249
5683	213,341815	18,706671	16,43332	57,897589
5710	4,756045	0,40126	0,352651	1,218863
5718	8,251634	0,700243	0,615372	2,133222
5720	5,436812	0,442014	0,388636	1,317316
5721	60,901394	5,229913	4,595417	16,025691
5723	3,505923	0,300803	0,264312	0,92133
5763	42,264894	4,122533	3,617469	13,36818
5767	57,280778	5,591021	4,906015	18,1351
5768	6,903483	0,642461	0,564023	2,042708
5769	43,333342	3,988113	3,501612	12,61876
5771	94,707908	9,216946	8,087934	29,860434
5772	8,141391	0,7845	0,688473	2,531275
5783	8989,562628	762,041435	669,689258	2320,244368
5787	459,699887	45,639258	40,040836	149,04595
5788	2279,15108	229,339507	201,180736	752,918459
5789	2820,950878	273,291445	239,826078	883,754595
5790	474,394611	43,542584	38,232018	137,609127
5791	127,556302	11,933224	10,475715	38,027684
5792	251,802876	24,055825	21,113109	77,342427
5797	23,797893	2,151689	1,889568	6,754519
5799	64,78334	5,64371	4,95821	17,413696
5800	43,141568	3,990079	3,503156	12,652299
5803	389,233186	34,854305	30,611516	108,934183
5806	372,578651	36,191309	31,758724	117,160675
5808	199,808437	17,882456	15,70573	55,876357
5817	1,459188	0,119014	0,104638	0,355293
5855	10,272178	0,910528	0,799779	2,83246
5856	123,305373	11,333568	9,951148	35,840082
5857	498,467667	45,790267	40,205212	144,765787
5925	0	0	0	0
5926	0	0	0	0
5927	0	0	0	0
5928	0	0	0	0
5929	0	0	0	0

5930	0	0	0	0
5931	0	0	0	0
5932	0	0	0	0
5933	0	0	0	0
5934	0	0	0	0
5935	0	0	0	0
5936	0	0	0	0
5937	0	0	0	0
5938	0	0	0	0
5972	338,454021	28,693129	25,215769	87,367924
5985	117,740015	10,341839	9,084859	32,034425
5988	27,747045	2,640461	2,31755	8,475543
5989	19,306156	1,846104	1,620258	5,937737
6000	181,308787	17,27197	15,159555	55,465441
6001	37,738845	3,470526	3,04719	10,977299
6006	375,266682	34,816552	30,566761	110,55202
6007	80,836747	7,639058	6,705332	24,448327
6008	29,982792	2,809346	2,466176	8,958557
6009	19,5059	1,80293	1,582923	5,715412
6010	92,364897	8,693866	7,631524	27,777252
6011	316,130978	29,341426	25,759837	93,182718
6012	453,691768	41,399808	36,352843	130,498577
6013	6,553641	0,725678	0,636014	2,466725
6014	36,31375	3,910243	3,427956	13,163532
6070	0,102232	0,008054	0,007084	0,023597
6071	0	0	0	0
6072	4,655072	0,416714	0,365989	1,302219
6074	1,09547	0,102928	0,090353	0,328611
6077	0,470789	0,041881	0,036786	0,130502
6120	111,803172	10,081884	8,853951	31,610754
6121	131,661297	12,835902	11,263394	41,614725
6174	110,788179	9,690571	8,513145	29,957788
6350	0	0	0	0
6384	17,91149	1,690611	1,483985	5,407954
6385	70,723541	6,676981	5,860908	21,360605
6386	233,064858	22,169414	19,458323	71,148223
6399	46,605389	3,825027	3,36274	11,456326
6401	17,122084	1,608129	1,411656	5,133284
6446	1680,777921	136,694726	120,187047	407,460252
6447	107,112543	8,67763	7,630047	25,813301
6448	44,685897	3,746076	3,292511	11,342571
6449	36,25688	3,120955	2,742246	9,574377
6507	0	0	0	0
6508	0	0	0	0
6509	0	0	0	0
6510	0	0	0	0
6511	0	0	0	0
6512	0	0	0	0
6513	0	0	0	0
6514	0	0	0	0
6515	0	0	0	0
6516	0	0	0	0
6517	0	0	0	0
6518	0	0	0	0
6519	0	0	0	0
6520	0	0	0	0
6521	0	0	0	0
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6523	0	0	0	0
6524	0	0	0	0
6525	0	0	0	0
6526	0	0	0	0
6527	0	0	0	0

6603	0	0	0	0
6606	0	0	0	0
6615	0	0	0	0
6616	0	0	0	0
6617	0	0	0	0
6680	132,015452	11,860051	10,415967	37,122807
6682	4,446319	0,437328	0,383717	1,422899
6691	2,857745	0,293123	0,257086	0,969404
6692	12,507676	1,062203	0,933454	3,237088
6693	15,81168	1,377339	1,210045	4,249606
6694	11,021882	0,983764	0,864041	3,070086
6695	9,615782	0,856312	0,752119	2,669542
6696	8,717469	0,787658	0,69171	2,47184
6697	0,067467	0,005655	0,00497	0,01712
6704	11,236179	0,913839	0,803481	2,724008
6705	12,6075	1,07198	0,942034	3,268849
6710	28,691654	2,618926	2,299651	8,256362
6722	791,638823	71,473746	62,7677	224,223223
6769	194,727754	17,440968	15,317855	54,515796
6856	6,228331	0,543026	0,477065	1,67615
6857	3,54307	0,279126	0,245513	0,8178
6858	3,713541	0,324001	0,284642	1,000426
6859	691,622993	61,875203	54,343724	193,304248
6943	213,368503	19,097423	16,772792	59,674656
6960	3,179472	0,286205	0,251351	0,896648
6961	3,529792	0,319693	0,280743	1,004347
6962	4,606223	0,428709	0,376368	1,363137
6963	4,582351	0,425816	0,373833	1,35301
6964	6,762913	0,619509	0,543963	1,956139
6965	8,181422	0,748266	0,657031	2,361042
6966	8,584991	0,785279	0,68953	2,477976
6967	0,15295	0,015865	0,013913	0,05269
6969	42,895838	4,043283	3,549164	12,926216
6970	36,324266	3,270621	2,87232	10,247705
6971	62,102068	5,784949	5,07861	18,400878
6973	15,505314	1,388009	1,219051	4,337486
6986	119,191372	10,664678	9,366555	33,319468
6987	122,647416	11,663447	10,237154	37,42752
6989	0,421742	0,038176	0,033525	0,119904
6990	4,136871	0,39203	0,344102	1,256155
6993	0,049879	0,004452	0,00391	0,013895
6994	12,692524	1,135965	0,99769	3,549502
7051	287,208845	28,73368	25,207118	94,119968
7174	53,713513	4,905863	4,307757	15,47029
7252	203,686026	19,436949	17,059452	62,462578
7413	78,562793	7,099292	6,234485	22,28026
20487	0	0	0	0
20490	0	0	0	0
20493	0	0	0	0
20496	0	0	0	0
20502	0,237452	0,018707	0,016454	0,054808
20505	3988,097839	324,859241	285,622819	969,152179
20538	0	0	0	0
20552	0	0	0	0
20555	40,952965	3,910207	3,431896	12,568833
20615	81,535983	7,208807	6,332168	22,398248
20628	13,703824	1,231129	1,081226	3,853522
20634	306,366215	27,807713	24,419126	87,44565
20660	75,858945	6,722394	5,904756	20,90941
20662	143,353153	12,839258	11,276321	40,13166
20679	90,813496	8,208602	7,208642	25,764932
20703	0,8419	0,073325	0,064419	0,226216
20714	98,557587	9,05731	7,952553	28,63969

20716	55,175899	5,262354	4,618696	16,907254
20722	5,635148	0,482366	0,423861	1,475766
20724	31,347299	2,823684	2,4798	8,849023
20727	54,37172	4,711998	4,139909	14,502583
20747	8,601603	0,736248	0,64695	2,252432
20750	1,170352	0,12809	0,112275	0,433667
20757	22,961964	1,85209	1,628587	5,496504
20758	1,067922	0,084132	0,074001	0,246494
20767	135,868419	12,769998	11,209745	40,775269
20770	57,725567	5,498841	4,826318	17,658072
20773	163,841771	15,038649	13,204493	47,52763
20778	323,299964	29,717603	26,092763	93,978059
20779	277,013617	25,127786	22,065917	78,996034
20781	11,819695	1,086309	0,953806	3,435097
20784	4,980826	0,459448	0,403392	1,455194
20790	111,722634	9,881187	8,679534	30,706586
20806	71,323225	6,041206	5,309118	18,386802
20853	1487,710436	120,480492	105,936289	358,321382
20859	21,156661	1,696231	1,491646	5,017681
20861	4,517964	0,360228	0,316802	1,06241
20863	16,533147	1,386345	1,218487	4,198186
20865	10,362262	0,937512	0,823297	2,94387
20867	18,490317	1,778739	1,561038	5,735333
20869	8,06286	0,680803	0,598324	2,068839
20895	248,893128	22,264493	19,554472	69,553001
20912	44,862197	3,997359	3,510953	12,464963
20917	129,274329	10,403237	9,148072	30,836023
20928	12,928167	1,217276	1,068528	3,889801
20932	284,938486	25,840778	22,692085	81,229228
20935	134,904719	12,46209	10,941438	39,495769
20950	3,009293	0,264652	0,232482	0,820253
20953	76,19535	7,440587	6,528945	24,138794
20955	96,504421	9,436731	8,280402	30,631669
20966	3,977414	0,353691	0,31066	1,101893
20968	6,955575	0,640898	0,562709	2,02891
20970	49,683228	4,726877	4,14882	15,171228
20972	5,118903	0,488286	0,428562	1,568902
21005	67,498604	5,788613	5,086414	17,725988
21009	70,376198	5,783357	5,084311	17,33326
21013	43,714166	3,443844	3,029127	10,08996
21017	146,474213	11,60567	10,207364	34,110756
21019	56,678512	4,590451	4,036295	13,65312
21022	2,292818	0,181174	0,159351	0,531699
21026	31,028525	2,685985	2,359906	8,26244
21028	21,090833	1,839431	1,615989	5,678618
21031	0	0	0	0
21033	0	0	0	0
21035	102,324188	8,120856	7,142273	23,889971
21037	61,932961	5,553928	4,877775	17,369888
21039	65,55525	5,541643	4,870205	16,849702
21041	46,447202	4,042939	3,551906	12,469528
21043	6,197676	0,494868	0,435203	1,460643
21045	34,427116	3,0095	2,643857	9,301015
21047	17,282835	1,374779	1,209081	4,049409
21049	159,968697	13,164708	11,573268	39,485245
21081	6,983642	0,583304	0,512701	1,762883
21097	16,645339	1,316321	1,157752	3,864738
21099	0,176628	0,016136	0,014169	0,050891
21121	254,25825	21,534645	18,92504	65,539837
21148	19,940177	1,654104	1,454008	4,981623
21152	11,242636	0,904753	0,795593	2,681778
21154	27,227961	2,17323	1,911218	6,413096
21165	42,238135	3,421875	3,008778	10,179015

21225	1,415593	0,115692	0,101715	0,345746
21228	1,666844	0,138577	0,12181	0,417822
21232	17,137415	1,452626	1,276582	4,422757
21236	6,148021	0,541708	0,47585	1,680434
21240	22,936909	1,880773	1,653484	5,630413
21247	186,230259	15,348184	13,492559	46,068876
21250	12,754673	1,051202	0,924109	3,15531
21261	0,720761	0,056782	0,049944	0,166364
21263	0,044963	0,003542	0,003116	0,010378
21267	5,952139	0,483969	0,425525	1,442448
21271	0,447329	0,035947	0,03161	0,106467
21276	0,142714	0,011243	0,009889	0,032941
21278	0,141557	0,012723	0,011174	0,039832
21280	0,478345	0,045463	0,039903	0,145851
21299	3,911002	0,340705	0,299322	1,051235
21307	1,620326	0,136611	0,120063	0,414828
21309	0	0	0	0
21311	13,078873	1,048033	0,921634	3,099322
21313	5,529015	0,476432	0,418615	1,46233
21315	5,185367	0,453604	0,398489	1,40235
21317	3,610899	0,289892	0,254924	0,858162
21319	5,46639	0,460877	0,405049	1,399478
21321	17,375581	1,611364	1,414683	5,115537
21323	7,602223	0,609603	0,536077	1,803441
21325	16,685409	1,372638	1,206709	4,116213
21327	1,048324	0,083597	0,073519	0,246568
21340	0,633988	0,053051	0,046629	0,160481
21351	196,314379	16,015701	14,081071	47,818142
21368	4,364243	0,419494	0,368155	1,352156
21371	2,938244	0,269128	0,236309	0,84975
21373	6,368983	0,58559	0,514161	1,85207
21390	40,018339	3,650189	3,205217	11,503821
21407	4,508537	0,41189	0,361673	1,299019
21411	37,64563	3,438619	3,019392	10,843857
21413	6,09455	0,544688	0,478394	1,700868
21417	0,467937	0,041762	0,036679	0,130321
21427	28,320847	2,634572	2,312925	8,375175
21447	0,446332	0,041668	0,036579	0,132662
21449	3,989205	0,373358	0,327755	1,19
21451	0,320323	0,029545	0,02594	0,093573
21463	16,874009	1,64681	1,445046	5,341326
21466	6,119825	0,56979	0,500222	1,812008
21469	16,83744	1,569189	1,377585	4,992331
21536	31,265367	2,549696	2,241714	7,611078
21587	35,557869	3,16187	2,77719	9,850389
21758	16,242446	1,403277	1,232946	4,31259
21759	16,349914	1,615437	1,417343	5,265538
21760	27,352229	2,745729	2,408659	9,005799
21768	18,689261	1,931136	1,693597	6,404246
21769	17,396382	1,764494	1,547727	5,81062
21770	65,371269	6,359993	5,580955	20,602143
21775	22,253371	2,136926	1,87542	6,885186
21776	122,271253	10,553859	9,272923	32,419815
21778	446,203318	44,352023	38,911047	144,910214
21786	22,413317	2,1617	1,897079	6,977575
21787	46,630906	4,818842	4,226097	15,981436
21788	31,99345	3,122586	2,740012	10,128184
21795	1,120736	0,097149	0,085354	0,299039
21796	0,601596	0,054812	0,048131	0,172659
21797	5,492378	0,523923	0,45984	1,683422
21804	0,418081	0,039077	0,034305	0,124479
21805	0,580424	0,051487	0,045224	0,16022
21806	4,086532	0,365219	0,320768	1,140438



21813	1,057556	0,095898	0,084213	0,301433
21814	0,448968	0,041329	0,036288	0,130783
21815	7,703167	0,73336	0,643672	2,354412
21832	0	0	0	0
21833	0	0	0	0
21834	0	0	0	0
21841	229,727532	20,0779	17,638548	62,045791
21844	48,131144	3,981678	3,50013	11,974585
21847	6,749061	0,552955	0,486136	1,654659
21848	3,111193	0,271067	0,238142	0,836422
21854	0,178777	0,014505	0,012753	0,043181
21855	1,060998	0,090612	0,079624	0,276907
21856	12,749682	1,057214	0,929328	3,183345
21863	0,892831	0,076353	0,067093	0,233487
21864	0,22903	0,025443	0,022299	0,086584
21865	6,556445	0,580142	0,509588	1,803222
21872	1,244865	0,105084	0,092354	0,319289
21873	5,747059	0,52173	0,458153	1,64079
21874	14,341071	1,275276	1,120123	3,973016
21881	4,331739	0,401509	0,352503	1,274373
21882	1,176107	0,104422	0,09172	0,325085
21883	2,087987	0,193172	0,169598	0,612619
21890	3,124105	0,257006	0,225938	0,770698
21891	4,062005	0,390079	0,342343	1,256858
21892	16,13007	1,537339	1,349311	4,937855
21899	2,143359	0,213663	0,187446	0,69889
21901	0,565664	0,048936	0,042996	0,15049
21903	7,14869	0,69116	0,606538	2,233183
21910	4,028384	0,436812	0,382911	1,474109
21911	7,47756	0,61888	0,544029	1,86169
21912	10,282396	0,914023	0,802824	2,847078
21919	8,504784	0,711743	0,625579	2,153181
21920	2,200725	0,193149	0,169674	0,598063
21921	4,273011	0,380166	0,333912	1,184648
21928	778,858786	65,622899	57,674074	199,201261
21931	34,619278	2,868567	2,521591	8,634218
21934	4,024777	0,333143	0,29285	1,002197
21935	2,949408	0,265722	0,23336	0,832799
21942	3,24231	0,295066	0,259103	0,928975
21943	6,009372	0,540594	0,474764	1,693127
21944	8,762749	0,791091	0,694731	2,481679
21951	0,207334	0,01852	0,016266	0,057818
21954	0,474855	0,044808	0,039331	0,143315
21955	0,170412	0,015289	0,013428	0,047827
21960	0,197956	0,018984	0,016661	0,061131
21961	0,514329	0,045436	0,039911	0,14112
21962	0,597926	0,053962	0,04739	0,169257
21969	0,211479	0,022026	0,019315	0,07326
21970	0,722943	0,067387	0,059159	0,214406
21971	9,240582	0,808818	0,71054	2,501217
21978	0,36788	0,035674	0,031306	0,115407
21979	0,750497	0,068856	0,060458	0,217566
21980	3,951674	0,361758	0,317646	1,141951
21987	7,0605	0,650135	0,570824	2,057553
21988	5,057969	0,501339	0,439849	1,636187
21989	110,657077	10,008626	8,78933	31,423826
21992	332,788004	29,699645	26,085287	92,680305
22002	11,209479	1,017914	0,893869	3,201652
22005	4,997712	0,493405	0,432905	1,607757
22006	7,65174	0,681451	0,598534	2,124476
22011	1,144136	0,10049	0,088276	0,311264
22012	0,609945	0,059461	0,052176	0,192769
22016	34,204262	3,417313	2,997937	11,187802

22023	34,773188	3,272088	2,872266	10,453165
22026	17,553201	1,476778	1,297919	4,479524
22027	10,167782	0,970644	0,851913	3,119764
22032	201,127035	18,701678	16,418524	59,44021
22035	252,348902	22,675876	19,914803	70,984625
22038	1,91805	0,169893	0,14923	0,528321
22039	2,098643	0,183435	0,161149	0,566886
22040	6,235143	0,549937	0,483074	1,706764
22042	2,364961	0,235739	0,206814	0,771083
22052	78,986104	7,335615	6,440144	23,302837
22055	9,817363	0,897479	0,788054	2,831289
22057	12,267577	1,15277	1,011925	3,680534
22060	21,770783	2,068366	1,815449	6,634635
22064	193,516914	17,14169	15,056833	53,307291
22067	448,780974	40,089984	35,210783	125,159614
22070	3,895039	0,331771	0,291547	1,012572
22073	5,661271	0,518654	0,455407	1,637767
22077	128,437284	11,537395	10,132609	36,111162
22080	4,233886	0,404737	0,355223	1,30162
22081	5,031372	0,43987	0,386427	1,359506
22086	13,098797	1,244032	1,091917	3,989853
22089	6,3968	0,581722	0,510824	1,83088
22090	6,67757	0,677682	0,594426	2,232148
22097	25,079482	2,192557	1,926167	6,776496
22100	44,134851	3,905203	3,430274	12,138263
22103	0,523467	0,043279	0,038045	0,13012
22104	0,452885	0,043272	0,037978	0,139132
22113	9,013371	0,809746	0,711151	2,534564
22116	46,017707	4,084014	3,587221	12,711732
22119	0,555858	0,046681	0,041028	0,141469
22120	0,418258	0,034851	0,030633	0,105197
22128	19,955944	1,742253	1,530597	5,381257
22131	8,41956	0,728816	0,640338	2,241897
22134	0,328909	0,028023	0,024625	0,085537
22135	0,468684	0,038472	0,033822	0,115234
22147	5,831747	0,511961	0,449739	1,585424
22148	2,169133	0,198226	0,174058	0,625245
22183	7,318927	0,802715	0,703592	2,719673
22186	0	0	0	0
22191	0	0	0	0
22194	0	0	0	0
22202	5,004025	0,445366	0,391178	1,388054
22205	0,765457	0,066944	0,05881	0,206939
22206	1,052136	0,094272	0,082796	0,294722
22251	46,057373	3,901075	3,428334	11,873074
22260	1349,516407	114,559323	100,674192	349,051293
22269	7744,638555	658,502398	578,678041	2008,003818
51247	561,484253	55,760426	48,920335	182,119653
51253	1415,304422	135,054322	118,53471	434,00712
51256	390,966437	39,150899	34,34549	128,289776
51259	149,703733	13,741157	12,065245	43,427369

## **15 Appendice G– emissioni per singolo arco – regime rif. f.e. 2011**

**SCENARIO DI REGIME - EMISSIONI 2011 (g)**

id arco	CO	PM10	PM25	No2
360	32,195137	2,610475	2,295309	7,768867
361	298,144598	25,378628	22,301919	77,430995
362	510,533273	46,920437	41,197332	148,369228
363	315,518852	25,725693	22,618294	76,78584
364	32,077577	2,950048	2,590199	9,331223
365	0,81008	0,067216	0,059085	0,20246
366	28,796358	2,365678	2,079742	7,089003
369	161,12722	15,094002	13,250255	48,127731
370	435,908807	35,984046	31,632897	108,100257
411	268,264244	22,163794	19,48358	66,611676
425	0,785107	0,064476	0,056683	0,193173
430	761,494301	62,700017	55,120072	188,10828
433	22,047569	1,818518	1,59864	5,460714
472	202,575359	19,297274	16,937164	61,968476
484	3,124984	0,271967	0,238935	0,838755
485	22,051014	1,80722	1,588829	5,408793
490	207,957017	20,562259	18,040675	67,042782
491	9,606442	0,881061	0,773611	2,783511
513	0,005705	0,000449	0,000395	0,001317
514	1,167448	0,102101	0,089695	0,315615
517	0,710857	0,058287	0,051243	0,174489
546	143,476231	13,180179	11,572587	41,669314
551	58,958452	5,524917	4,850026	17,618891
554	2,892708	0,277865	0,243861	0,895399
555	4,154778	0,385453	0,338404	1,223892
556	1,262279	0,104709	0,092043	0,315348
557	2,02189	0,166781	0,146615	0,500836
558	1,252856	0,107457	0,094422	0,329078
559	14,455227	1,320339	1,159367	4,163716
570	4,265795	0,350241	0,30791	1,049219
571	0,912172	0,075752	0,066588	0,228272
573	39,918789	3,88276	3,407168	12,576305
578	0,013042	0,001027	0,000904	0,00301
579	1,043838	0,095619	0,083959	0,301922
580	11,591378	1,07147	0,94072	3,396742
608	24,210099	2,242407	1,968729	7,115058
610	0,191702	0,017018	0,014947	0,052974
615	5,042947	0,431341	0,379027	1,319159
616	0,311498	0,028575	0,02509	0,090284
617	12,192819	1,03688	0,911187	3,162056
622	3,693954	0,325957	0,286325	1,01185
638	6,794825	0,573989	0,504447	1,744635
639	4,383984	0,370673	0,32576	1,12717
640	14,424883	1,21825	1,070656	3,702431
641	6,128168	0,517565	0,454861	1,572972
643	2,131206	0,181688	0,159659	0,55475
644	8,097408	0,753125	0,66118	2,393951
645	2,381444	0,201917	0,177446	0,614857
646	8,034438	0,681471	0,598879	2,075521
665	6,898128	0,622953	0,547071	1,954504
666	11,715382	1,058443	0,92951	3,321495
667	24,89466	2,217266	1,947474	6,91277
668	11,994146	1,071288	0,940907	3,344298
669	8,425898	0,762643	0,669729	2,395222
670	4,749285	0,423746	0,372179	1,322189
671	10,15438	0,913306	0,802092	2,860216
673	3,477437	0,318159	0,279365	1,004064
676	8,605264	0,708955	0,623243	2,1276
677	4,737808	0,396175	0,348218	1,19803
678	2,552625	0,223016	0,195922	0,68906
679	7,350416	0,646827	0,568198	2,005327

680	0,563263	0,047035	0,041342	0,142133
681	15,916425	1,315715	1,156601	3,955388
684	0,00296	0,000233	0,000205	0,000683
687	1,228931	0,1132	0,09939	0,358313
688	1,587014	0,147034	0,129089	0,466588
689	2,588067	0,239415	0,210198	0,759241
690	217,27	17,596466	15,472239	52,335457
693	51,49166	4,240125	3,727522	12,72155
694	5,554323	0,484538	0,425678	1,496022
695	7,615344	0,698735	0,613518	2,207896
698	0,039537	0,003377	0,002967	0,010319
699	5,029106	0,422839	0,37163	1,282192
700	6,290408	0,519841	0,456977	1,56255
701	4,377782	0,377509	0,331694	1,159116
702	65,677953	5,739526	5,042212	17,73564
703	63,988806	5,630343	4,945918	17,454611
705	201,986851	16,923212	14,874291	51,226323
707	0,005564	0,000438	0,000386	0,001284
721	47,021719	4,34589	3,815575	13,776318
722	351,452501	28,863536	25,374933	86,478591
727	5,0158	0,440418	0,38689	1,364001
728	2,721059	0,237384	0,208547	0,73294
729	2,784393	0,246998	0,216954	0,768633
730	15,761074	1,345391	1,182248	4,110519
731	0,499108	0,040046	0,035216	0,118511
733	37,021483	3,153777	2,771413	9,625944
745	0,342939	0,030851	0,027094	0,096627
746	0	0	0	0
749	0,934109	0,084996	0,074637	0,267581
750	0,271145	0,024392	0,021422	0,076398
778	31,489318	2,963517	2,601396	9,467981
779	28,827224	2,765514	2,42711	8,906927
782	235,590856	22,308842	19,581608	71,459818
783	4,281265	0,41014	0,359958	1,320171
784	11,647191	1,126531	0,9886	3,640481
785	16,440053	1,508319	1,324367	4,765899
786	9,870542	0,923937	0,811084	2,945032
790	404,296768	37,845876	33,223218	120,635015
793	24,028163	2,190462	1,923447	6,901681
794	17,067422	1,583398	1,390125	5,027601
797	25,536845	2,331071	2,046888	7,349033
798	0,43045	0,040854	0,035858	0,130988
800	4,423306	0,393025	0,345211	1,223978
801	1,065877	0,096738	0,08495	0,304198
802	3,492348	0,31213	0,27414	0,974683
803	4,72596	0,420546	0,369379	1,310597
804	14,079777	1,250285	1,098189	3,892628
806	38,673603	3,440856	3,022216	10,722315
807	88,485626	8,524104	7,480729	27,500864
808	110,197354	10,371924	9,104536	33,138134
810	37,666378	3,4729	3,04919	10,997402
811	62,223661	5,725784	5,027317	18,115708
812	2,792652	0,240135	0,210999	0,736303
813	18,768598	1,676622	1,472567	5,23437
815	1064,786902	95,498748	83,872309	298,68973
816	524,731907	46,98949	41,269476	146,864258
817	0,658705	0,080959	0,070894	0,284478
818	0	0	0	0
821	78,739399	6,61152	5,810904	20,035062
822	932,674855	78,305522	68,823282	237,278335
823	21,005622	1,793118	1,575683	5,478507
829	2,701371	0,222751	0,195819	0,668787
831	87,923731	7,258925	6,381175	21,807999

832	179,781117	14,976669	13,164299	45,202527
833	7,088025	0,585884	0,515032	1,761262
837	240,16333	19,851498	17,450807	59,676789
854	217,693276	19,510629	17,135451	61,003222
856	391,312319	32,503557	28,571181	97,956395
861	2546,462762	214,065808	188,141216	649,065786
870	14,244937	1,331974	1,169294	4,243682
873	2,206523	0,214425	0,188163	0,694269
876	25,260492	2,316388	2,033895	7,317543
877	0,012182	0,00096	0,000844	0,002812
879	1408,948462	130,494922	114,568477	414,046457
904	0,049752	0,00392	0,003448	0,011484
906	24,89787	2,196227	1,9292	6,816492
907	0,040721	0,003208	0,002822	0,009399
908	57,681284	4,763511	4,187493	14,313171
931	8,340469	0,78592	0,689877	2,512231
932	0,083944	0,006613	0,005817	0,019376
933	9,425714	0,763139	0,671016	2,269352
936	1,354612	0,141414	0,124008	0,470765
937	69,041924	5,563832	4,892466	16,503976
939	179,660532	16,978591	14,903283	54,33987
951	10,645908	0,971464	0,853035	3,062224
991	0	0	0	0
992	0	0	0	0
993	0	0	0	0
994	0	0	0	0
995	0	0	0	0
996	0	0	0	0
997	0	0	0	0
1001	0	0	0	0
1005	0	0	0	0
1006	0	0	0	0
1007	0	0	0	0
1016	50,361884	4,357166	3,82823	13,399643
1105	320,251811	26,718994	23,485235	80,705333
1109	38,187559	3,282042	2,883836	10,060954
1111	3,911258	0,318745	0,280245	0,951139
1143	32,548923	2,891845	2,540041	9,00561
1144	11,904082	1,057631	0,928966	3,293612
1145	11,362437	1,024142	0,89941	3,210428
1153	29,975111	2,766224	2,428708	8,763052
1155	0,014846	0,00117	0,001029	0,003427
1156	1,640617	0,140246	0,123238	0,428788
1174	235,326197	21,280506	18,688057	66,808057
1175	495,777307	43,708931	38,394834	135,626824
1176	279,814726	25,555095	22,439523	80,584123
1177	132,738542	12,062192	10,592187	37,951209
1179	5,851457	0,514686	0,452123	1,595315
1245	13,571256	1,21987	1,071332	3,819208
1250	0,111847	0,009863	0,008664	0,030609
1251	18,474676	1,777722	1,560141	5,732705
1254	0,105648	0,010413	0,009136	0,033906
1255	2,522931	0,218895	0,192316	0,674087
1261	204,998491	19,717452	17,304251	63,572511
1262	82,490335	7,125473	6,260592	21,896228
1263	64,950866	5,620657	4,938327	17,287186
1264	150,833538	14,544573	12,764148	46,9434
1268	336,660029	31,238491	27,425412	99,195944
1277	96,040762	8,971522	7,875873	28,571331
1285	0,711974	0,05609	0,049335	0,164335
1295	154,856585	13,5501	11,903684	41,896444
1296	78,054612	7,533359	6,611128	24,323241
1301	10,99467	0,962432	0,845487	2,976374

1302	13,560591	1,243897	1,092196	3,930058
1303	21,795983	2,068533	1,815616	6,632168
1304	39,308676	3,675682	3,226754	11,710925
1305	12,779212	1,313785	1,152239	4,348642
1306	44,143276	4,431772	3,887717	14,53653
1307	45,276293	3,909124	3,434657	12,009846
1308	28,493235	2,442018	2,1458	7,475698
1315	12,560768	1,368983	1,200003	4,628151
1316	44,69027	4,452159	3,905895	14,559322
1317	11,096069	1,070449	0,939409	3,455568
1318	31,571631	3,115344	2,733359	10,149242
1322	262,057134	25,852215	22,682429	84,213675
1323	75,330768	6,991628	6,138189	22,20388
1324	315,095466	28,370552	24,915543	88,891573
1325	31,141208	2,8034	2,462003	8,783011
1329	39,633027	3,566149	3,13188	11,170264
1374	100,0162	10,074077	8,837076	33,085727
1376	76,93371	7,402725	6,496686	23,871649
1380	22,109973	2,128134	1,86766	6,863505
1381	0,00671	0,000529	0,000465	0,001549
1382	46,393267	4,015188	3,527752	12,349989
1387	23,170034	2,229146	1,956318	7,187921
1389	0,005864	0,000756	0,000662	0,002695
1390	10,803416	0,935001	0,821494	2,875893
1393	0,004997	0,000645	0,000564	0,002297
1410	469,59148	43,197429	37,928067	136,651948
1414	502,764747	43,709541	38,401346	134,734132
1432	740,059148	70,208377	61,624299	225,067622
1437	0	0	0	0
1658	0	0	0	0
1659	0	0	0	0
1666	1,435141	0,12954	0,113762	0,40634
1667	24,436745	2,28344	2,004568	7,272982
1668	7,241191	0,686642	0,602692	2,200744
1669	11,984344	1,113947	0,977957	3,539933
1672	0,119634	0,010733	0,009427	0,033576
1673	125,796533	11,357175	9,973789	35,6284
1718	150,913866	12,768908	11,22168	38,842168
1721	8,996038	0,761571	0,669286	2,31727
1723	0,748898	0,066705	0,058588	0,207971
1724	5,540354	0,521835	0,458067	1,66776
1727	0,043226	0,003824	0,003359	0,011883
1728	223,715365	21,620859	18,973783	69,84687
1729	33,269894	2,770131	2,434924	8,358615
1820	253,292898	22,221361	19,520769	68,792618
1836	103,016302	8,799895	7,732753	26,895361
1837	15,092494	1,286745	1,13073	3,928977
1839	0,626029	0,058837	0,051648	0,187868
1840	6,403508	0,535627	0,470787	1,619986
1841	3,025436	0,251053	0,220682	0,756218
1846	144,543539	12,773733	11,220417	39,680535
1848	67,257186	6,077018	5,336747	19,071061
1930	104,260023	8,843529	7,771723	26,934794
1931	71,896608	6,10007	5,360744	18,581537
1933	165,870234	14,154522	12,438181	43,239092
1972	71,283769	6,037662	5,306005	18,37571
1975	482,729598	39,880506	35,057876	119,854467
1985	0,106701	0,010057	0,008828	0,032153
2002	2572,057693	256,474667	225,004085	839,024473
2013	64,530614	5,272141	4,635209	15,753009
2016	19,483717	1,623406	1,426949	4,90024
2022	2,60028	0,223306	0,196214	0,684272
2023	1,513551	0,13352	0,117286	0,414426

2024	3,530318	0,329447	0,289216	1,048724
2025	7,289225	0,645377	0,566886	2,006562
2026	0,748925	0,087355	0,076527	0,302059
2029	18,048972	1,58615	1,393356	4,914349
2030	1,050642	0,088838	0,078074	0,270152
2031	5,481505	0,565241	0,495723	1,873081
2037	10,058029	0,850322	0,747294	2,585572
2039	0,330211	0,030274	0,026582	0,095627
2040	0,8544	0,08793	0,077117	0,291163
2041	0,002849	0,000224	0,000197	0,000658
2044	0	0	0	0
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2046	0	0	0	0
2047	0	0	0	0
2048	0	0	0	0
2049	0	0	0	0
2050	0	0	0	0
2051	0	0	0	0
2052	0	0	0	0
2053	4,066024	0,336878	0,29613	1,01393
2054	0	0	0	0
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2072	0	0	0	0
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2078	0	0	0	0
2079	0	0	0	0
2080	0	0	0	0
2081	0	0	0	0
2082	0	0	0	0
2247	166,853852	14,277235	12,545625	43,672188
2250	54,408854	4,811928	4,226751	14,95316
2251	78,909425	7,627373	6,693531	24,642076
2252	9,922987	0,836731	0,735372	2,54095
2253	125,400016	10,937966	9,609279	33,76906
2266	36,136448	3,424055	3,005448	10,970907
2271	99,020215	9,47025	8,311674	30,46199
2272	123,345074	12,033757	10,559443	39,025453
2273	272,194399	26,226345	23,016119	84,619291
2274	146,506674	14,627341	12,832344	47,875042
2291	76,031634	6,755588	5,933739	21,038529
2293	1,761672	0,158802	0,139461	0,497827
2294	4,71968	0,42159	0,37028	1,316157
2295	4,254703	0,377141	0,331269	1,17321
2297	11,22296	0,989766	0,869428	3,071669
2298	1,274071	0,114915	0,100919	0,360341
2299	1,854827	0,16171	0,142067	0,499139
2310	3,001045	0,236425	0,207954	0,692691
2311	134,093055	12,578857	11,042179	40,131843
2392	95,464506	9,056032	7,948795	29,030259
2440	13,581601	1,158587	1,018104	3,538644
2453	12,135987	1,030884	0,905929	3,142016
2455	22,281731	1,888815	1,659909	5,75102
2457	0	0	0	0
2460	41,008461	3,621912	3,1815	11,248086
2463	63,06297	5,286634	4,646542	16,007128
2466	6,940098	0,58345	0,51279	1,769127
2467	107,336052	9,023376	7,93059	27,36007
2471	39,165816	3,434312	3,016952	10,629417
2482	0	0	0	0
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2487	25,519405	2,212663	1,94401	6,811733
2493	107,32204	10,261355	9,006022	33,002801



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2649	57,74471	5,190989	4,558901	16,252872
2650	0,030225	0,003647	0,003194	0,012743
2651	8,54717	0,749675	0,658568	2,32059
2652	0	0	0	0
2654	475,454551	41,640104	36,580224	128,804515
2655	8,674483	0,760842	0,668377	2,355156
2656	3,471181	0,301942	0,265272	0,930972
2657	138,463503	11,196839	9,845349	33,274492
2658	23,153556	2,012322	1,767946	6,202057
2660	4,890507	0,513541	0,450305	1,713244
2663	47,527071	4,48092	3,933309	14,326827
2666	482,427252	43,447245	38,156075	136,145296
2667	16,294753	1,424745	1,25164	4,403706
2672	11,350134	1,016608	0,892854	3,177676
3005	35,050165	3,247614	2,851242	10,306152
3026	392,593699	35,236763	30,946638	110,246215
3039	59,344285	5,331098	4,681984	16,686296
3041	261,613552	23,999969	21,072986	75,830638
3043	13,987424	1,256454	1,103469	3,932573
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3090	104,255443	9,156735	8,043804	28,362525
3109	0	0	0	0
3126	4,300898	0,403642	0,35433	1,288046
3128	3,196165	0,285472	0,250728	0,89117
3139	552,358044	47,529774	41,76248	145,785703
3140	5173,610519	446,038689	391,90755	1369,386238
3186	440,799689	35,742704	31,427428	106,373777
3187	676,51441	57,078366	50,163732	173,383363
3430	52,278812	4,425866	3,889552	13,467018
3434	11,794516	1,00384	0,882144	3,062552
3447	30,570899	2,549553	2,240995	7,699424
3535	0,50855	0,044156	0,038794	0,136029
3536	8,228279	0,759731	0,66703	2,407278
3537	1,603783	0,155207	0,136203	0,501681
3538	4,547601	0,434593	0,381429	1,397459
3542	13,668256	1,221982	1,07325	3,816402
3619	695,726904	69,596446	61,054751	227,960673

3620	920,030472	91,057215	79,889966	297,0027
3632	24,39857	2,162728	1,899672	6,727842
3636	141,390357	13,819781	12,126428	44,851014
3642	212,309726	20,619568	18,094187	66,746101
3670	63,660803	5,61675	4,933829	17,434711
3672	3,392037	0,298657	0,26235	0,926146
3912	11,185474	1,013691	0,890179	3,185486
3916	8,817424	0,752478	0,661234	2,29873
3917	13,013189	1,110827	0,976127	3,393865
4077	0,607899	0,05471	0,048047	0,171383
4078	0,054502	0,005141	0,004513	0,01644
4080	7,906819	0,735755	0,645927	2,339225
4081	0,135827	0,011946	0,010493	0,037024
4098	15,733202	1,404472	1,233549	4,383299
4256	158,308833	14,851009	13,036752	47,381707
4320	397,540079	39,805115	34,919442	130,428317
4321	27,229968	2,487672	2,184378	7,845614
4322	11,683324	1,182848	1,037554	3,892463
4466	0	0	0	0
4467	814,76506	69,327446	60,922991	211,479744
4468	169,66693	14,753087	12,961411	45,479933
4476	134,470037	11,635161	10,222704	35,783516
4477	55,414312	4,940551	4,339348	15,410387
4636	2,992908	0,23955	0,210662	0,707974
4637	0,224381	0,017677	0,015548	0,051791
4639	6,802002	0,615188	0,540243	1,93144
4642	0,034943	0,002753	0,002421	0,008066
4645	21,160298	1,749657	1,538061	5,260654
4646	19,49446	1,600886	1,407395	4,79625
4654	6,058023	0,559428	0,491167	1,772711
4661	1,792696	0,227297	0,19899	0,805954
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5061	20,529318	2,03286	1,783541	6,631948

5064	0,583933	0,056925	0,049951	0,184548
5065	3,120686	0,281179	0,246935	0,881283
5068	139,115069	13,577429	11,913947	44,038311
5071	118,587484	10,694996	9,392376	33,535006
5075	159,079153	14,15985	12,436995	44,133674
5115	309,165303	28,178264	24,743423	88,775371
5116	369,929409	35,608622	31,250269	114,845131
5117	348,165985	31,56981	27,723083	99,231086
5278	1437,539637	132,774334	116,573103	420,768677
5281	615,09377	56,350778	49,479081	177,93936
5282	75,498342	7,45766	6,543179	24,305911
5283	241,488435	23,861015	20,935045	77,776601
5284	160,076937	15,810528	13,871809	51,52723
5285	382,962507	35,184166	30,8927	111,240827
5287	2400,087287	231,724009	203,355723	748,285148
5292	1,054331	0,096321	0,084578	0,303778
5294	18,408405	1,450232	1,275591	4,248967
5296	15,125838	1,191628	1,048129	3,491296
5302	0,420694	0,046359	0,040633	0,157323
5303	246,108161	20,493796	18,013867	61,841608
5468	7,789364	0,71824	0,630611	2,274469
5509	0,430356	0,033904	0,029821	0,099333
5535	274,315825	24,220666	21,275584	75,208413
5664	6,599848	0,601818	0,528456	1,896427
5666	4,38144	0,393817	0,345864	1,232954
5667	10,026353	0,898021	0,788704	2,806976
5668	0,484079	0,040286	0,035411	0,121528
5672	450,259949	40,19454	35,302878	125,446496
5674	394,436797	36,023704	31,631839	113,595765
5683	217,010198	19,250228	16,908654	59,904226
5710	4,190564	0,354997	0,311977	1,080529
5718	7,461796	0,63567	0,558601	1,940213
5720	6,579712	0,534215	0,469711	1,59097
5721	61,112376	5,224158	4,590598	15,972429
5723	3,578346	0,305448	0,268409	0,933215
5763	42,496405	4,147805	3,639621	13,453665
5767	57,253228	5,587985	4,903354	18,124797
5768	6,383642	0,58536	0,513973	1,849142
5769	40,150281	3,653122	3,207877	11,500274
5771	93,134152	9,125328	8,006998	29,644655
5772	7,461315	0,704637	0,618513	2,254528
5783	8904,031293	756,768759	665,035603	2307,180247
5787	454,019623	44,9388	39,427478	146,582214
5788	2463,747276	247,792758	217,369295	813,345189
5789	2817,370374	272,370964	239,023382	880,019216
5790	454,124397	41,725344	36,63601	131,926461
5791	123,120352	11,56697	10,153749	36,927307
5792	252,121584	24,160229	21,204079	77,777308
5797	41,191827	3,544449	3,114363	10,871619
5799	20,622929	1,88652	1,656495	5,953144
5800	64,87022	5,598398	4,918922	17,196097
5803	389,078032	34,855149	30,612116	108,957912
5806	307,0123	29,476756	25,869592	94,967956
5808	199,640106	17,878136	15,701832	55,878243
5817	0,572409	0,047124	0,041427	0,141366
5855	11,46878	1,057069	0,928105	3,346834
5856	124,440254	11,462524	10,064146	36,282242
5857	503,027642	46,317995	40,667559	146,586034
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5985	114,017551	9,870885	8,67255	30,365541
5988	26,986784	2,580567	2,264868	8,300062
5989	17,100919	1,644365	1,443117	5,301107
6000	163,798848	15,729671	13,804754	50,681819
6001	32,190181	2,950493	2,590681	9,318817
6006	321,333295	29,994191	26,331354	95,490389
6007	71,453176	6,795113	5,964155	21,805375
6008	27,076091	2,547473	2,236196	8,137821
6009	17,26392	1,598235	1,403183	5,070024
6010	78,203394	7,502909	6,584803	24,165427
6011	251,001874	23,170879	20,343662	73,412763
6012	390,847793	35,672375	31,323563	112,454852
6013	4,46672	0,494931	0,433776	1,68276
6014	25,146211	2,674142	2,344582	8,96232
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6072	3,831997	0,344731	0,302752	1,079704
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6077	0,367396	0,033051	0,029027	0,103517
6120	105,237523	9,515639	8,356427	29,872035
6121	122,652177	11,796139	10,352429	38,03153
6174	108,524052	9,448967	8,301322	29,147057
6350	0,12902	0,010164	0,00894	0,02978
6384	15,800411	1,479574	1,298848	4,716892
6385	62,531785	5,855148	5,13996	18,665675
6386	204,905593	19,460464	17,080924	62,413435
6399	47,920597	3,945338	3,468381	11,835982
6401	23,810623	2,125909	1,867183	6,635421
6446	1658,352178	135,114661	118,795229	403,134528
6447	103,238328	8,369198	7,358792	24,904405
6448	50,928012	4,058621	3,569366	11,966749
6449	67,749483	5,714429	5,022184	17,355811
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6680	88,203632	7,921931	6,957374	24,793162
6682	3,602463	0,351916	0,308797	1,141859
6691	2,520894	0,244536	0,214589	0,791181
6692	11,839792	0,999518	0,878428	3,037053
6693	14,865539	1,282209	1,126595	3,937393
6694	10,281911	0,908034	0,797621	2,819848
6695	6,395255	0,569268	0,500004	1,77433
6696	8,672173	0,779442	0,684534	2,440206
6697	0,075608	0,007315	0,006419	0,02364
6704	11,532819	0,92607	0,81436	2,741724
6705	10,973599	0,916001	0,805134	2,767508
6710	27,082878	2,434679	2,138216	7,622998
6722	788,60322	70,799122	62,179049	221,538277
6769	123,099833	10,914247	9,586705	33,955762
6856	3,5982	0,306938	0,269721	0,93746
6857	0	0	0	0
6858	2,143615	0,182733	0,160577	0,557922
6859	695,79075	62,427194	54,826812	195,285318
6943	218,287082	19,457995	17,090236	60,687292
6960	3,170454	0,284576	0,249929	0,890385
6961	3,42745	0,309792	0,272054	0,972348
6962	4,41905	0,411436	0,361202	1,308416
6963	4,358327	0,406117	0,356529	1,291963
6964	6,490072	0,595137	0,522558	1,880054
6965	7,891617	0,724119	0,635805	2,288153
6966	8,254079	0,757317	0,664956	2,392973
6967	0,261368	0,023526	0,020661	0,073702
6969	38,081344	3,450594	3,030168	10,842584
6970	35,275697	3,175915	2,789149	9,950546
6971	59,987948	5,579906	4,898678	17,737521
6973	13,047275	1,170578	1,028063	3,661758
6986	123,525036	11,106581	9,754151	34,77765
6987	119,304342	11,122428	9,764303	35,390758
6989	0,742645	0,07548	0,066206	0,248759
6990	4,251594	0,40074	0,351767	1,281139
6993	0,234109	0,019925	0,017509	0,060786
6994	5,185492	0,460153	0,404179	1,432177
7051	227,032793	22,478525	19,721686	73,329743
7174	50,671432	4,647284	4,080523	14,681914
7252	193,398441	18,509263	16,244754	59,55391
7413	78,138191	7,020092	6,16532	21,973796
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20502	1,068532	0,08418	0,074043	0,246635
20505	4076,708474	332,566345	292,39392	992,914309
20538	0	0	0	0
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20555	40,952965	3,910207	3,431896	12,568833
20615	74,718655	6,450981	5,668	19,818832
20628	9,155951	0,822334	0,722208	2,573647
20634	338,220063	30,457925	26,748662	95,439316
20660	64,7654	5,730398	5,033502	17,810998
20662	111,032854	9,980308	8,765052	31,246638
20679	110,487229	9,728821	8,546115	30,170644
20703	0,653043	0,057341	0,050372	0,177589
20714	88,304934	8,060641	7,07796	25,412221

20716	47,382066	4,460797	3,915704	14,25372
20722	5,553431	0,469524	0,412635	1,427724
20724	30,214853	2,734469	2,401328	8,587635
20727	41,55095	3,577914	3,143743	10,978085
20747	5,074204	0,429053	0,377067	1,30473
20750	0,619966	0,06393	0,056067	0,211848
20757	16,022566	1,305397	1,147729	3,894775
20758	0,24271	0,019121	0,016818	0,056021
20767	119,540684	11,322845	9,93861	36,273685
20770	52,095502	5,002168	4,390033	16,116467
20773	152,51916	13,676945	12,011874	42,773973
20778	361,268779	33,104862	29,067815	104,546478
20779	312,843566	28,392697	24,932853	89,281067
20781	13,247746	1,213614	1,065621	3,832164
20784	5,193034	0,479587	0,421068	1,519764
20790	70,773953	6,361917	5,587252	19,918533
20806	69,208364	5,81258	5,108698	17,61608
20853	1437,107166	116,538608	102,468611	346,844933
20859	18,327476	1,477714	1,299396	4,384564
20861	4,641994	0,374298	0,329131	1,110626
20863	17,254623	1,435659	1,261944	4,330427
20865	7,87289	0,711374	0,624718	2,232481
20867	18,723195	1,776756	1,559515	5,696455
20869	8,705048	0,730202	0,641786	2,211627
20895	254,020878	23,046755	20,23842	72,460286
20912	76,699099	6,651037	5,843487	20,476601
20917	195,134648	15,651471	13,763651	46,309689
20928	11,628012	1,058053	0,929096	3,330914
20932	322,056323	29,185993	25,629884	91,715121
20935	140,56219	12,907791	11,333466	40,801608
20950	3,196281	0,282431	0,248087	0,877302
20953	75,519127	7,338847	6,439983	23,761869
20955	100,09367	9,76403	8,567803	31,663053
20966	3,015029	0,265769	0,233458	0,824607
20968	7,760123	0,744686	0,65356	2,39872
20970	45,69127	4,250639	3,73169	13,512801
20972	4,506933	0,423882	0,372089	1,353864
21005	88,930553	7,536748	6,623385	22,944892
21009	83,647482	6,835521	6,009699	20,426751
21013	0,661463	0,08533	0,074693	0,304041
21017	218,203836	17,442213	15,339037	51,512917
21019	54,683224	4,433827	3,898526	13,195157
21022	1,225272	0,096528	0,084904	0,282813
21026	33,888932	2,827826	2,485574	8,542177
21028	32,008687	2,7302	2,399155	8,338297
21031	0,132073	0,017038	0,014914	0,060707
21033	0	0	0	0
21035	29,131482	2,341407	2,058944	6,935463
21037	95,728895	8,064246	7,087447	24,477234
21039	99,400764	8,466067	7,439657	25,837596
21041	48,207469	4,155147	3,650889	12,755225
21043	0,289164	0,02939	0,025779	0,096859
21045	57,183845	4,762657	4,186325	14,373027
21047	0,578433	0,05879	0,051567	0,193754
21049	178,826379	14,967824	13,155797	45,284575
21081	4,68623	0,39216	0,344686	1,186345
21097	3,864915	0,308913	0,271665	0,912279
21099	0,086133	0,008452	0,007416	0,027473
21121	248,140343	20,840081	18,316428	63,159046
21148	19,772243	1,633843	1,436264	4,910825
21152	16,982981	1,3616	1,197375	4,027785
21154	19,440302	1,560885	1,3726	4,620925
21165	40,705541	3,299867	2,901477	9,819485

21225	1,409911	0,115369	0,101429	0,345001
21228	1,761175	0,146982	0,129192	0,444029
21232	22,114133	1,858768	1,633663	5,635586
21236	5,561124	0,477034	0,419165	1,460957
21240	22,13149	1,792728	1,576308	5,332445
21247	191,676946	15,843307	13,927341	47,626923
21250	13,096421	1,082084	0,95123	3,252231
21261	0,090095	0,007098	0,006243	0,020795
21263	0	0	0	0
21267	4,935136	0,400085	0,351783	1,190558
21271	0,231385	0,018758	0,016493	0,05582
21276	0,010812	0,000852	0,000749	0,002496
21278	0,142194	0,011551	0,010156	0,034412
21280	0,311271	0,028152	0,024722	0,088386
21299	2,266889	0,193198	0,169774	0,589809
21307	1,575411	0,124112	0,109166	0,363631
21309	0	0	0	0
21311	14,316198	1,148823	1,010251	3,400011
21313	6,366152	0,541308	0,47569	1,650657
21315	6,601757	0,566262	0,497569	1,734169
21317	4,416717	0,355544	0,312646	1,054041
21319	4,608413	0,392205	0,344658	1,196523
21321	16,643892	1,495778	1,313647	4,682633
21323	7,246004	0,582998	0,51266	1,727864
21325	16,913618	1,389686	1,221714	4,164649
21327	1,086453	0,08761	0,077038	0,259966
21340	0,506729	0,040637	0,035736	0,120226
21351	181,322782	14,702991	12,927872	43,757921
21368	4,454875	0,422825	0,371126	1,355719
21371	2,566064	0,234391	0,205815	0,739169
21373	5,627376	0,506453	0,444779	1,586518
21390	37,581157	3,474769	3,050741	11,016843
21407	4,44547	0,435274	0,381932	1,413648
21411	36,194836	3,203078	2,813533	9,956524
21413	3,865386	0,3489	0,306402	1,094419
21417	0,318949	0,028517	0,025046	0,089066
21427	26,220496	2,403874	2,110717	7,593149
21447	0,413127	0,039609	0,034763	0,127538
21449	3,732491	0,339798	0,298382	1,069981
21451	0,363598	0,035015	0,030729	0,112953
21463	16,884164	1,64812	1,446193	5,345994
21466	5,652443	0,518613	0,455363	1,63871
21469	15,573669	1,432477	1,25774	4,53135
21536	12,214141	1,005532	0,883973	3,016482
21587	29,907212	2,657622	2,334307	8,276902
21758	16,312532	1,406274	1,23561	4,317265
21759	18,005083	1,778824	1,560696	5,797906
21760	26,82046	2,696507	2,365444	8,849663
21768	17,519053	1,857617	1,628729	6,219219
21769	15,040823	1,532334	1,344031	5,054642
21770	58,101297	5,627189	4,938137	18,194748
21775	18,323856	1,750025	1,535952	5,625831
21776	125,417232	10,863345	9,54447	33,426838
21778	414,83603	41,459288	36,371245	135,749117
21786	25,069196	2,425599	2,128604	7,839684
21787	48,074834	4,917876	4,313365	16,247646
21788	30,921293	3,017773	2,648042	9,787996
21795	1,186391	0,10304	0,090527	0,317466
21796	0,601596	0,054812	0,048131	0,172659
21797	4,983464	0,473422	0,415533	1,518528
21804	0,42009	0,038724	0,033999	0,122611
21805	0,548638	0,050235	0,044109	0,158589
21806	3,557441	0,317665	0,279004	0,99156

21813	0,980132	0,0886	0,077807	0,278102
21814	0,446628	0,041741	0,036643	0,132959
21815	8,019813	0,759302	0,666479	2,432038
21832	0	0	0	0
21833	0	0	0	0
21834	0	0	0	0
21841	208,633212	18,470808	16,224393	57,426293
21844	55,896328	4,618084	4,059631	13,879271
21847	6,747062	0,552548	0,48578	1,653058
21848	3,160739	0,274715	0,241354	0,846698
21854	0,202185	0,016769	0,014741	0,050499
21855	1,033067	0,087998	0,077329	0,268577
21856	14,559324	1,205351	1,059565	3,626427
21863	1,038276	0,087288	0,076717	0,264675
21864	0,345604	0,035724	0,031329	0,118486
21865	6,678615	0,582351	0,511612	1,79763
21872	1,235738	0,107872	0,094767	0,333159
21873	5,584128	0,507318	0,445493	1,596
21874	14,306391	1,272544	1,11772	3,965011
21881	4,331739	0,401509	0,352503	1,274373
21882	1,355088	0,125247	0,109964	0,397037
21883	2,096701	0,194058	0,170375	0,615538
21890	3,055126	0,250551	0,220272	0,750126
21891	4,062005	0,390079	0,342343	1,256858
21892	16,104809	1,535349	1,347561	4,932024
21899	2,100539	0,211119	0,1852	0,692787
21901	0,510308	0,042985	0,037779	0,130467
21903	7,049787	0,681764	0,59829	2,203043
21910	4,107355	0,440189	0,385913	1,479377
21911	7,782669	0,635229	0,558493	1,897084
21912	11,649676	1,022471	0,898204	3,166005
21919	8,980905	0,750444	0,659607	2,26851
21920	2,200725	0,193149	0,169674	0,598063
21921	4,484896	0,400515	0,351771	1,250217
21928	477,66602	40,877426	35,919573	125,045917
21931	41,723354	3,457965	3,039689	10,409433
21934	4,028079	0,333403	0,293079	1,002959
21935	2,953928	0,266643	0,234164	0,836419
21942	3,234473	0,294203	0,258346	0,926045
21943	6,015111	0,541046	0,475162	1,694452
21944	8,469439	0,766812	0,673389	2,40864
21951	0,16761	0,015078	0,013242	0,047226
21954	0,432765	0,039378	0,034579	0,123968
21955	0,142893	0,012855	0,011289	0,040262
21960	0,192236	0,018012	0,015811	0,057435
21961	0,559127	0,050518	0,044364	0,158535
21962	0,574837	0,051881	0,045562	0,162732
21969	0,182343	0,018267	0,016025	0,059867
21970	0,614193	0,054845	0,04817	0,171195
21971	8,597587	0,744449	0,654071	2,290318
21978	0,383395	0,034141	0,029987	0,106432
21979	0,835643	0,07751	0,068049	0,246087
21980	3,669195	0,32813	0,288191	1,024924
21987	7,218688	0,654381	0,574647	2,056627
21988	4,876511	0,48003	0,421182	1,562345
21989	108,407515	9,761423	8,572656	30,585719
21992	302,938712	26,392632	23,186898	81,436984
22002	11,121551	1,002593	0,880484	3,143112
22005	4,997712	0,493405	0,432905	1,607757
22006	7,59594	0,680576	0,597726	2,127641
22011	1,088263	0,097745	0,085844	0,305916
22012	0,609945	0,059461	0,052176	0,192769
22016	27,491978	2,71995	2,386384	8,870427



22023	34,24757	3,226498	2,832211	10,312791
22026	16,7962	1,404449	1,234438	4,246964
22027	10,113245	0,964635	0,846646	3,09937
22032	174,207312	16,25028	14,265923	51,720122
22035	201,420404	18,198978	15,982076	57,112031
22038	2,012474	0,180298	0,158349	0,563632
22039	2,118669	0,186019	0,16341	0,576091
22040	6,08064	0,516129	0,453572	1,572517
22042	2,334206	0,231772	0,203341	0,756946
22052	83,487992	7,683574	6,746273	24,311396
22055	10,058716	0,932122	0,818356	2,958214
22057	12,591407	1,177269	1,033485	3,750666
22060	21,735962	2,063874	1,811517	6,618629
22064	202,437351	17,896049	15,719789	55,601388
22067	364,888368	32,563288	28,600444	101,614895
22070	4,31341	0,373036	0,327753	1,146982
22073	5,642026	0,517138	0,454073	1,633325
22077	94,878987	8,466126	7,435837	26,41735
22080	4,233886	0,404737	0,355223	1,30162
22081	5,478502	0,479594	0,421319	1,483212
22086	12,686678	1,193424	1,0476	3,812066
22089	6,690918	0,611268	0,536743	1,927816
22090	6,653025	0,674516	0,591655	2,220866
22097	26,325802	2,302356	2,022618	7,117081
22100	32,177431	2,810252	2,468842	8,681433
22103	0,523507	0,044157	0,038808	0,134113
22104	0,45585	0,043654	0,038313	0,140494
22113	6,898366	0,576681	0,506875	1,743634
22116	29,213556	2,519898	2,214071	7,738251
22119	0,555858	0,046681	0,041028	0,141469
22120	0,398624	0,033114	0,029108	0,0998
22128	14,121373	1,196278	1,051308	3,641211
22131	7,724408	0,652213	0,573197	1,981937
22134	0,347382	0,0299	0,026272	0,091725
22135	0,467006	0,038339	0,033706	0,114847
22147	5,822409	0,51064	0,448583	1,580599
22148	2,190175	0,205118	0,180063	0,653956
22183	3,080559	0,326678	0,286426	1,093743
22186	0	0	0	0
22191	0	0	0	0
22194	0	0	0	0
22202	5,040491	0,437777	0,384617	1,348803
22205	0,770425	0,066071	0,058056	0,202322
22206	1,052136	0,094272	0,082796	0,294722
22251	44,998932	3,778834	3,321236	11,451716
22260	1331,177594	113,33932	99,598663	345,842461
22269	7505,438642	632,890069	556,223573	1921,953954
51247	553,229982	54,772112	48,05471	178,674152
51253	1421,166517	136,115514	119,461596	438,091264
51256	378,637216	37,738683	33,108128	123,434956
51259	143,357899	13,168366	11,562223	41,630652
57661	5,151855	0,47011	0,4128	1,481855
57664	2,040509	0,230919	0,202349	0,790699
57665	2,460468	0,208215	0,182985	0,633425

**16 Appendice H – emissioni per singolo arco – attuale rif. f.e. 2012**

**SCENARIO ATTUALE - EMISSIONI 2012 (g)**

id arco	CO	PM10	PM25	No2
360	30,382544	2,450784	2,126679	8,495442
361	268,427124	22,572403	19,578261	78,849208
362	501,775802	45,96977	39,836437	162,956758
363	303,021654	24,739334	21,464761	85,951393
364	31,417076	2,865991	2,483714	10,152477
365	1,156902	0,092736	0,080478	0,321077
366	26,464433	2,180361	1,89157	7,587994
369	152,675258	14,095049	12,213539	50,027402
370	387,513187	32,0975	27,844506	111,814096
411	190,377952	15,587285	13,523673	54,183413
425	2,125837	0,170692	0,148127	0,591175
430	690,02128	56,11673	48,691069	194,823851
433	89,448983	7,341223	6,369143	25,530384
472	191,638657	18,040584	15,6294	64,231055
484	3,132148	0,278876	0,241738	0,983914
485	20,246289	1,701251	1,475599	5,941947
490	186,338437	17,770933	15,393856	63,399962
491	9,391281	0,851816	0,73824	3,014631
513	0,000872	0,000068	0,000059	0,000236
514	1,35696	0,116781	0,101265	0,409619
517	1,858173	0,149188	0,129465	0,516687
546	120,396041	10,990563	9,524532	38,937311
551	53,83525	4,90161	4,247896	17,357957
554	4,072229	0,372012	0,322387	1,318121
555	4,453607	0,402627	0,348955	1,424146
556	0,911513	0,075379	0,065392	0,262512
557	1,852916	0,152256	0,132093	0,529614
558	1,364607	0,114348	0,099184	0,399183
559	17,498493	1,545344	1,339663	5,444657
570	11,463005	0,920452	0,798768	3,187916
571	1,870136	0,153429	0,133113	0,533539
573	49,149731	4,539384	3,933418	16,112652
578	0,022759	0,001858	0,001612	0,006456
579	0,961184	0,083228	0,072165	0,29224
580	10,813333	0,981239	0,850402	3,47292
608	22,284696	2,031525	1,760564	7,195667
610	0,146409	0,013277	0,011506	0,046985
615	4,651497	0,404388	0,350623	1,42093
616	0,295627	0,027652	0,023958	0,098352
617	13,242297	1,118766	0,970317	3,911314
622	4,387963	0,383781	0,332734	1,349924
638	6,208124	0,521285	0,452146	1,820456
639	4,308104	0,36227	0,314216	1,265468
640	14,169217	1,181293	1,024696	4,120026
641	6,021696	0,502031	0,43548	1,750947
643	2,394792	0,202066	0,175256	0,706282
644	7,978895	0,731078	0,633536	2,59163
645	2,580931	0,226112	0,196034	0,795565
646	7,373723	0,626679	0,54349	2,193259
665	8,194803	0,728307	0,63133	2,568777
666	14,609539	1,310296	1,135719	4,62856
667	25,121798	2,2207	1,925112	7,825387
668	11,329202	1,008445	0,874153	3,557775
669	8,307483	0,746224	0,646791	2,636678
670	4,361171	0,391741	0,339542	1,384159
671	10,109419	0,904442	0,783959	3,193573
673	3,969872	0,355628	0,30825	1,255993
676	6,109477	0,49725	0,431448	1,726588
677	3,735455	0,312296	0,270888	1,089755
678	2,63166	0,230339	0,1997	0,810303
679	6,955615	0,609225	0,528184	2,143436

680	0,578002	0,048052	0,041683	0,167506
681	12,757786	1,046415	0,907861	3,638679
684	0,005427	0,000426	0,00037	0,001469
687	1,105565	0,096729	0,083863	0,340258
688	1,475652	0,134368	0,116447	0,47584
689	2,382022	0,216899	0,187971	0,76811
690	184,418988	14,97005	12,989408	51,954187
693	51,09749	4,190942	3,636029	14,572983
694	5,208658	0,446354	0,387068	1,564448
695	7,321794	0,665854	0,577058	2,357518
698	0,030741	0,002636	0,002286	0,009242
699	4,591839	0,379937	0,329598	1,323281
700	5,766896	0,472806	0,410205	1,643948
701	4,00474	0,341322	0,296004	1,195165
702	68,894161	5,853856	5,076794	20,486565
703	60,985169	5,266576	4,566681	18,484082
705	155,324161	12,820936	11,122557	44,634279
707	0	0	0	0
721	36,415693	3,292152	2,853291	11,644792
722	317,40736	25,729059	22,325278	89,270161
727	6,034291	0,51955	0,45052	1,822507
728	4,131489	0,34612	0,30022	1,208234
729	2,53496	0,222583	0,192969	0,783446
730	13,27108	1,118462	0,970079	3,908536
731	1,999228	0,15691	0,136202	0,541058
733	37,433017	3,126194	2,71172	10,906722
745	0,376873	0,033948	0,029424	0,120009
746	0,00507	0,000398	0,000345	0,001372
749	1,058824	0,096751	0,083844	0,342823
750	0,297974	0,026841	0,023264	0,094885
778	30,862433	2,85195	2,471228	10,123953
779	28,320721	2,649475	2,295504	9,423762
782	224,991615	20,952364	18,153934	74,469815
783	3,867788	0,356612	0,309013	1,265453
784	11,2233	1,069024	0,92604	3,813134
785	15,298701	1,389452	1,204175	4,918415
786	9,23472	0,856609	0,742227	3,042677
790	374,562425	34,732148	30,094539	123,361815
793	22,449784	2,027143	1,756936	7,168863
794	16,294992	1,49123	1,292283	5,285277
797	25,985391	2,34607	2,033354	8,296535
798	0,525927	0,049436	0,04283	0,17597
800	3,801793	0,342065	0,29648	1,208971
801	1,014804	0,091772	0,079538	0,324628
802	3,119018	0,275973	0,239237	0,972638
803	3,98001	0,349474	0,302978	1,230082
804	16,777955	1,47725	1,280673	5,202071
806	33,874045	2,976223	2,580233	10,476852
807	92,750323	8,794775	7,61879	31,348259
808	108,499416	10,102179	8,752932	35,904565
810	37,48733	3,416083	2,960464	12,098994
811	59,337576	5,384473	4,666519	19,057374
812	3,108163	0,263755	0,228747	0,922843
813	17,590422	1,542952	1,337684	5,429928
815	894,057229	79,014984	68,497786	278,425607
816	441,048684	38,942873	33,759751	137,201611
817	0,384081	0,047343	0,040921	0,174851
818	0	0	0	0
821	69,795762	5,871258	5,092439	20,510575
822	886,433297	74,522266	64,637356	260,3068
823	67,345273	5,657686	4,907268	19,759808
829	9,224608	0,77009	0,667994	2,686516
831	289,975762	24,159655	20,957091	84,25221

832	163,596247	13,423225	11,645836	46,679423
833	6,424547	0,523655	0,454351	1,818768
837	217,739574	17,747451	15,398629	61,640647
854	223,531002	20,09715	17,419072	71,021293
856	335,745626	28,063006	24,342164	97,92159
861	2263,11046	190,227725	164,995511	664,446942
870	12,362415	1,138793	0,986801	4,040467
873	2,0632	0,193565	0,1677	0,688791
876	20,743138	1,87721	1,626951	6,641078
877	0	0	0	0
879	1214,204897	110,595454	95,845265	391,674718
904	0,063757	0,005561	0,004822	0,019553
906	22,432646	1,966032	1,704494	6,917825
907	0,035658	0,002903	0,002519	0,01008
908	41,425477	3,395015	2,945514	11,803633
931	10,652644	0,963827	0,835337	3,409643
932	0,082175	0,006997	0,006068	0,024495
933	8,031402	0,65243	0,566104	2,264603
936	1,23788	0,125615	0,10875	0,452345
937	57,877994	4,649113	4,034483	16,102928
939	230,332949	20,848035	18,068667	73,756899
951	10,106965	0,898492	0,778852	3,169173
991	0	0	0	0
992	0	0	0	0
993	0	0	0	0
994	0	0	0	0
995	0	0	0	0
996	0	0	0	0
997	0	0	0	0
1001	0	0	0	0
1005	0	0	0	0
1006	0	0	0	0
1007	0	0	0	0
1016	85,480179	7,519738	6,519145	26,476484
1105	509,312627	42,660803	37,003598	148,91561
1109	49,971277	4,245085	3,681586	14,855827
1111	3,623242	0,293442	0,254624	1,017965
1143	37,408015	3,308194	2,867842	11,658393
1144	13,703121	1,212248	1,050882	4,27232
1145	12,415468	1,097078	0,951054	3,865674
1153	30,993482	2,819185	2,443222	9,981933
1155	0,006804	0,000534	0,000464	0,001841
1156	1,614427	0,144784	0,125493	0,511435
1174	257,460827	22,523149	19,527303	79,226749
1175	436,8113	38,063812	33,002227	133,801789
1176	285,809627	25,66603	22,246131	90,683226
1177	145,153387	12,917437	11,197277	45,570617
1179	4,736542	0,422713	0,366411	1,491975
1245	12,553796	1,112795	0,964648	3,923148
1250	0,113445	0,010252	0,008886	0,036262
1251	16,755259	1,578131	1,367201	5,619179
1254	0,074148	0,007095	0,006146	0,025326
1255	2,416381	0,207839	0,180226	0,72894
1261	186,908242	17,612443	15,258337	62,716377
1262	79,711278	6,838209	5,929871	23,972126
1263	63,345081	5,426429	4,705694	19,018174
1264	136,288858	12,845065	11,128153	45,741567
1268	320,990415	29,161372	25,272762	103,231103
1277	104,621321	9,569626	8,292969	33,914294
1285	1,467798	0,132218	0,114597	0,467394
1295	152,040326	13,182493	11,430138	46,298757
1296	75,991161	7,240782	6,272294	25,828801
1301	10,66783	0,927685	0,804342	3,259834

1302	12,834276	1,164221	1,00899	4,120318
1303	22,183459	2,079953	1,802031	7,400688
1304	38,260653	3,513071	3,044285	12,457909
1305	12,296878	1,211305	1,048957	4,342885
1306	44,11614	4,280046	3,706933	15,309958
1307	44,461772	3,855978	3,343392	13,543323
1308	27,946542	2,418792	2,0973	8,49252
1315	12,366039	1,310755	1,134332	4,749234
1316	42,400391	4,15118	3,595016	14,869515
1317	10,016313	0,949983	0,822955	3,386259
1318	30,55337	2,95822	2,562154	10,578444
1322	257,3313	24,955779	21,614195	89,262783
1323	71,937897	6,539699	5,667606	23,152993
1324	287,096796	25,531573	22,131799	90,060742
1325	28,390001	2,52414	2,188032	8,903368
1329	37,491814	3,370641	2,921482	11,911411
1374	101,20027	9,929967	8,599397	35,581023
1376	70,785226	6,719782	5,821188	23,956463
1380	20,291152	1,924584	1,667235	6,860321
1381	0,029198	0,002773	0,002402	0,009885
1382	44,132091	3,793923	3,289893	13,304941
1387	21,147806	1,992163	1,725892	7,093578
1389	0,016089	0,001263	0,001096	0,004354
1390	10,332089	0,88781	0,769867	3,113214
1393	0,010968	0,000861	0,000747	0,002968
1410	496,111806	44,404859	38,489378	156,804859
1414	489,416707	41,884854	36,322109	146,769922
1432	736,604975	68,439793	59,300203	243,162689
1437	0	0	0	0
1658	0	0	0	0
1659	0	0	0	0
1666	1,379235	0,122275	0,105997	0,431091
1667	24,621079	2,264865	1,962605	8,03398
1668	7,590663	0,706701	0,612314	2,511686
1669	11,82988	1,091564	0,945859	3,873945
1672	0,145724	0,014121	0,012231	0,050504
1673	120,240414	10,631442	9,216313	37,464977
1718	132,0404	11,148369	9,669157	38,971409
1721	7,851173	0,662687	0,574761	2,316434
1723	0,763941	0,069724	0,060424	0,247011
1724	5,426576	0,508114	0,440226	1,807534
1727	0,01828	0,001435	0,001245	0,004947
1728	220,508696	21,219876	18,37988	75,810052
1729	27,487929	2,246606	1,949215	7,806917
1820	278,065813	23,987642	20,800068	84,173603
1836	87,026476	7,392588	6,411288	25,870408
1837	13,339352	1,12855	0,978787	3,946511
1839	0,591965	0,054182	0,046954	0,192039
1840	4,677556	0,388268	0,336814	1,353093
1841	2,075883	0,170553	0,147968	0,593247
1846	129,25996	11,335656	9,827628	39,89076
1848	54,98056	4,90359	4,250503	17,305481
1930	94,003334	7,958549	6,902372	27,834351
1931	64,758362	5,483038	4,755381	19,176737
1933	154,34438	13,390436	11,610364	47,034075
1972	79,068425	6,659466	5,776014	23,269244
1975	345,662498	28,331584	24,580451	98,503836
1985	0,135279	0,012029	0,010427	0,04243
2002	2414,709089	236,259838	204,607553	846,200566
2013	59,121775	4,950681	4,29419	17,280373
2016	17,07876	1,427673	1,238378	4,981749
2022	2,351881	0,206963	0,179423	0,728743
2023	0,853603	0,081897	0,070938	0,292448

2024	3,22878	0,326282	0,282485	1,174243
2025	9,048477	0,817468	0,7085	2,89117
2026	0,819099	0,094029	0,081319	0,344294
2029	22,461461	2,017941	1,74905	7,130306
2030	1,513247	0,125991	0,109291	0,439314
2031	8,719091	0,911256	0,788701	3,295275
2037	14,473734	1,204955	1,045237	4,201455
2039	0,023271	0,001826	0,001585	0,006298
2040	1,345468	0,140675	0,121756	0,508738
2041	0,002611	0,000205	0,000178	0,000707
2044	0	0	0	0
2045	0	0	0	0
2046	0	0	0	0
2047	0	0	0	0
2048	0	0	0	0
2049	0	0	0	0
2050	0	0	0	0
2051	0	0	0	0
2052	0	0	0	0
2053	7,168226	0,597086	0,517939	2,082135
2054	0	0	0	0
2066	71,853011	6,010016	5,213115	20,973726
2072	0	0	0	0
2074	0	0	0	0
2077	0	0	0	0
2078	0	0	0	0
2079	0	0	0	0
2080	0	0	0	0
2081	0	0	0	0
2082	0	0	0	0
2247	147,54918	12,526443	10,863737	43,831794
2250	45,769077	4,108439	3,56102	14,51495
2251	124,903818	11,891929	10,301407	42,414777
2252	8,880715	0,766771	0,664873	2,69104
2253	122,001716	10,544995	9,143546	37,015324
2266	37,920018	3,539673	3,066837	12,585618
2271	105,326251	9,693381	8,399699	34,387183
2272	136,515252	13,033406	11,289914	46,506068
2273	270,383638	25,493284	22,085688	90,78775
2274	141,720112	13,830501	11,977886	49,516744
2291	82,378001	7,210235	6,251155	25,364717
2293	1,474941	0,130816	0,1134	0,461236
2294	4,69179	0,412334	0,357472	1,451557
2295	4,763364	0,415516	0,360258	1,460885
2297	12,238362	1,057072	0,916592	3,710117
2298	1,277918	0,110815	0,096084	0,389208
2299	1,675961	0,143578	0,124508	0,503208
2310	12,323061	0,967181	0,83954	3,335031
2311	130,774704	12,03266	10,426802	42,684152
2392	95,717215	8,910177	7,720149	31,666954
2440	12,89274	1,081885	0,938398	3,777768
2453	11,985449	1,03282	0,895585	3,62352
2455	21,955132	1,889204	1,638203	6,62636
2457	0	0	0	0
2460	38,519121	3,387669	2,936906	11,927224
2463	69,999758	5,821392	5,04982	20,29419
2466	6,342135	0,524917	0,455368	1,828334
2467	98,140169	8,122285	7,046126	28,290376
2471	47,269208	4,180653	3,624164	14,733249
2482	0	0	0	0
2486	0	0	0	0
2487	22,797971	1,959267	1,69898	6,870591
2493	104,738074	9,917732	8,591707	35,343272

2576	0	0	0	0
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2578	0	0	0	0
2579	0	0	0	0
2580	0	0	0	0
2581	0	0	0	0
2582	0	0	0	0
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2587	0	0	0	0
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2592	0	0	0	0
2593	0	0	0	0
2594	0	0	0	0
2595	0	0	0	0
2596	0	0	0	0
2597	0	0	0	0
2598	0	0	0	0
2599	0	0	0	0
2600	0	0	0	0
2649	54,751296	4,902699	4,249557	17,313946
2650	0,006913	0,000543	0,000471	0,001871
2651	8,39895	0,740639	0,642072	2,608809
2652	0,014139	0,001512	0,001309	0,005486
2654	468,413455	41,308448	35,810934	145,50553
2655	8,514673	0,750739	0,650828	2,644322
2656	3,100777	0,272277	0,236052	0,958368
2657	118,923567	9,650093	8,373352	33,48882
2658	20,684737	1,815073	1,573597	6,387996
2660	4,893407	0,512304	0,443397	1,853034
2663	44,033473	4,088376	3,542431	14,524125
2666	461,811486	41,395579	35,880446	146,214287
2667	16,053053	1,410776	1,223068	4,966391
2672	10,722135	0,956921	0,829467	3,37749
3005	32,036881	2,91894	2,529631	10,337955
3026	364,331649	32,284318	27,986384	113,81163
3039	54,954731	4,871451	4,22291	17,174347
3041	259,401757	23,218734	20,125597	81,991724
3043	12,963949	1,149814	0,996733	4,054056
3045	0,004228	0,000521	0,00045	0,001925
3046	7,878332	0,705558	0,611562	2,491744
3047	0,002914	0,000359	0,00031	0,001326
3064	0	0	0	0
3065	0	0	0	0
3066	1,321804	0,103742	0,090051	0,357724
3085	0,366994	0,032462	0,028141	0,114404
3090	137,723666	11,74689	10,187148	41,138078
3109	0	0	0	0
3126	4,225528	0,38854	0,336688	1,378145
3128	3,333098	0,291999	0,253156	1,027376
3139	489,178536	41,445238	35,944766	144,970096
3140	4576,069926	388,048253	336,544576	1357,558063
3186	402,219161	32,463344	28,170039	112,543789
3187	631,580276	53,170437	46,117018	185,77107
3430	58,287958	4,909031	4,257796	17,152805
3434	19,787651	1,624829	1,409671	5,651157
3447	27,218637	2,283133	1,980338	7,971768
3535	0,577242	0,049659	0,043062	0,174173
3536	7,909185	0,710161	0,615535	2,509085
3537	1,384561	0,12931	0,112036	0,459809
3538	4,326928	0,403228	0,349369	1,43333
3542	14,043641	1,235729	1,071297	4,3511
3619	651,063044	63,986505	55,411769	229,331749



3620	875,254452	85,057676	73,666995	304,333746
3632	23,947083	2,074846	1,799049	7,28626
3636	161,711972	15,509942	13,434571	55,382242
3642	208,750981	19,88084	17,221768	70,912015
3670	75,960796	6,643124	5,759528	23,3664
3672	2,749217	0,245166	0,212514	0,86521
3912	14,537437	1,29741	1,124607	4,579254
3916	7,489818	0,632812	0,548844	2,212398
3917	10,957316	0,923462	0,800949	3,227097
4077	0,582302	0,051416	0,044573	0,181147
4078	0,059924	0,005427	0,004704	0,019202
4080	7,170821	0,648716	0,562235	2,294854
4081	0,112077	0,00953	0,008265	0,033357
4098	26,249938	2,230498	1,934413	7,806051
4256	144,505686	13,159235	11,404206	46,601787
4320	389,894238	38,184901	33,068881	136,784994
4321	22,769079	2,037433	1,766017	7,19438
4322	12,222675	1,212541	1,049959	4,351909
4466	0	0	0	0
4467	731,153388	61,963411	53,739677	216,750676
4468	151,405058	12,880088	11,170196	45,085647
4476	129,579111	11,055948	9,587914	38,720688
4477	52,765844	4,61553	4,001615	16,235132
4636	12,498464	1,009918	0,876344	3,501939
4637	0,3291	0,02583	0,022421	0,089065
4639	22,382699	1,931046	1,674439	6,776229
4642	0	0	0	0
4645	19,766888	1,587546	1,377669	5,498546
4646	16,76702	1,349686	1,171224	4,676729
4654	5,290094	0,4802	0,41617	1,699676
4661	143,3347	11,442079	9,930098	39,584339
4757	0	0	0	0
4767	0	0	0	0
4768	0	0	0	0
4769	0	0	0	0
4771	0	0	0	0
4802	0	0	0	0
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4824	0	0	0	0
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4826	0	0	0	0
5060	0,002525	0,000198	0,000172	0,000683
5061	23,910982	2,326924	2,015282	8,327428

5064	0,548815	0,052409	0,045398	0,187014
5065	4,084982	0,362933	0,314608	1,280014
5068	159,280381	15,263854	13,221519	54,496415
5071	155,755069	13,826585	11,985664	48,75753
5075	216,906902	19,124429	16,579301	67,361694
5115	332,193686	30,175429	26,15163	106,818682
5116	441,324806	41,94504	36,335582	149,564243
5117	375,17144	33,923466	29,401239	119,995558
5278	1256,087105	113,88283	98,698797	403,010401
5281	578,580687	51,754738	44,860409	182,740488
5282	71,652761	6,871854	5,952341	24,537486
5283	229,839821	22,045153	19,095304	78,718452
5284	152,69919	14,640218	12,681268	52,273744
5285	358,798647	32,241922	27,945622	113,929782
5287	2235,276916	212,11792	183,753399	756,168842
5292	1,646081	0,180195	0,155898	0,655752
5294	23,755015	1,864422	1,618371	6,428898
5296	17,132805	1,361622	1,181755	4,706576
5302	0,198335	0,021214	0,018358	0,076961
5303	230,019481	20,24214	17,548611	71,275529
5468	6,955693	0,609487	0,528409	2,144514
5509	0,328751	0,025802	0,022397	0,088971
5535	247,187912	21,652518	18,772222	76,181227
5664	6,496983	0,57954	0,502353	2,045336
5666	4,023485	0,357698	0,310068	1,261689
5667	9,235078	0,816873	0,708138	2,878837
5668	0,403126	0,033681	0,029215	0,117516
5672	415,261966	36,564676	31,698993	128,762107
5674	396,993567	35,053436	30,387977	123,498815
5683	198,376429	17,343722	15,036898	61,001329
5710	4,707285	0,396807	0,344163	1,386722
5718	7,547315	0,630309	0,546742	2,199034
5720	5,103758	0,407964	0,35405	1,411729
5721	56,241253	4,743668	4,114304	16,579412
5723	3,23996	0,272871	0,236672	0,953447
5763	40,905173	3,895234	3,374248	13,893468
5767	55,318293	5,266347	4,561987	18,783165
5768	6,236477	0,56559	0,490178	2,001613
5769	38,787789	3,46803	3,006063	12,24431
5771	88,331921	8,29513	7,18663	29,522266
5772	7,869314	0,749932	0,649625	2,675166
5783	8048,34032	675,603096	585,998216	2359,244511
5787	431,491112	41,937565	36,321365	150,054061
5788	2057,395897	202,852447	175,663234	727,387176
5789	2634,855986	250,200547	216,742222	892,019428
5790	424,217279	38,06567	32,993827	134,476229
5791	112,649722	10,290417	8,917718	36,460892
5792	228,86841	21,261229	18,421991	75,537944
5797	45,528867	3,905931	3,387094	13,692772
5799	30,555517	2,90168	2,513648	10,345227
5800	162,351919	13,53831	11,743582	47,219773
5803	365,164498	32,003189	27,74586	112,608507
5806	368,39093	35,045648	30,358598	124,981048
5808	187,4319	16,422463	14,237848	57,782635
5817	1,364643	0,108405	0,094086	0,37468
5855	10,143404	0,882671	0,765308	3,102017
5856	118,504767	10,711747	9,283831	37,88795
5857	479,081509	43,274869	37,506426	153,047826
5925	0	0	0	0
5926	0	0	0	0
5927	0	0	0	0
5928	0	0	0	0
5929	0	0	0	0

5930	0	0	0	0
5931	0	0	0	0
5932	0	0	0	0
5933	0	0	0	0
5934	0	0	0	0
5935	0	0	0	0
5936	0	0	0	0
5937	0	0	0	0
5938	0	0	0	0
5972	304,057728	25,945556	22,500422	90,869516
5985	111,87634	9,790977	8,488626	34,442762
5988	27,268328	2,55194	2,210991	9,077365
5989	17,782488	1,677736	1,45347	5,975443
6000	172,775396	16,17363	14,01274	57,532731
6001	35,475966	3,189816	2,76475	11,272639
6006	348,824107	31,827923	27,58253	112,751054
6007	76,037005	7,06198	6,118933	25,089215
6008	28,034738	2,582607	2,23791	9,163223
6009	17,746137	1,622913	1,406407	5,751345
6010	84,271529	7,850728	6,802148	27,905073
6011	290,064868	26,565828	23,02146	94,167597
6012	410,184634	37,005368	32,073041	130,847793
6013	6,39161	0,68592	0,593534	2,489492
6014	34,936752	3,647313	3,156816	13,187339
6070	0	0	0	0
6071	0	0	0	0
6072	4,13315	0,373216	0,323468	1,319858
6074	1,094288	0,100604	0,087178	0,35683
6077	0,396269	0,035782	0,031013	0,126542
6120	103,666444	9,213175	7,986405	32,495283
6121	111,67655	10,524928	9,118137	37,479252
6174	97,032679	8,258214	7,161863	28,909415
6350	0	0	0	0
6384	16,337903	1,507119	1,305948	5,348509
6385	64,442683	5,944977	5,151436	21,097919
6386	212,959567	19,748185	17,1113	70,142287
6399	43,386776	3,529215	3,062203	12,25307
6401	39,554031	3,36248	2,916117	11,768581
6446	1543,582	124,917753	108,393986	433,283685
6447	97,397355	7,861556	6,821853	27,254776
6448	50,693531	4,046782	3,512031	14,000031
6449	46,423656	4,061975	3,521678	14,288734
6507	0	0	0	0
6508	0	0	0	0
6509	0	0	0	0
6510	0	0	0	0
6511	0	0	0	0
6512	0	0	0	0
6513	0	0	0	0
6514	0	0	0	0
6515	0	0	0	0
6516	0	0	0	0
6517	0	0	0	0
6518	0	0	0	0
6519	0	0	0	0
6520	0	0	0	0
6521	0	0	0	0
6522	0	0	0	0
6523	0	0	0	0
6524	0	0	0	0
6525	0	0	0	0
6526	0	0	0	0
6527	0	0	0	0

6603	0	0	0	0
6606	0	0	0	0
6615	0	0	0	0
6616	0	0	0	0
6617	0	0	0	0
6680	116,742871	10,354824	8,976222	36,509719
6682	4,133745	0,396045	0,343054	1,413945
6691	2,450856	0,241566	0,209189	0,866164
6692	10,998431	0,930248	0,806803	3,252896
6693	14,183594	1,231311	1,067618	4,325476
6694	9,873153	0,868304	0,752768	3,057094
6695	8,478419	0,746228	0,64693	2,627644
6696	8,220057	0,736058	0,638	2,599396
6697	0,066732	0,006398	0,005542	0,022845
6704	9,864851	0,793741	0,688792	2,750127
6705	11,100893	0,932814	0,809086	3,258049
6710	25,801491	2,321395	2,01204	8,204545
6722	743,327876	66,507679	57,647944	234,841086
6769	176,817852	15,582877	13,50913	54,883166
6856	11,620679	0,975316	0,845962	3,405757
6857	0,534463	0,041948	0,036412	0,144643
6858	6,945834	0,583411	0,50603	2,037528
6859	593,598976	52,460124	45,477489	184,853502
6943	196,938658	17,374088	15,061808	61,20264
6960	2,910869	0,257907	0,223573	0,909179
6961	3,214374	0,28542	0,247418	1,00654
6962	4,172024	0,377855	0,327479	1,336924
6963	4,355526	0,394615	0,342003	1,396306
6964	6,348302	0,568857	0,49307	2,009162
6965	7,641896	0,683708	0,592629	2,414177
6966	8,006622	0,716437	0,620997	2,5298
6967	0,109004	0,009559	0,008287	0,033637
6969	44,214706	4,057925	3,51645	14,388988
6970	33,639807	2,973231	2,577481	10,476922
6971	54,148383	4,899592	4,246413	17,333057
6973	14,026747	1,26352	1,095126	4,466569
6986	111,710815	9,875225	8,560773	34,798862
6987	109,842474	10,125485	8,773992	35,929543
6989	0,350824	0,031363	0,027185	0,110729
6990	3,688085	0,339246	0,293971	1,20337
6993	0,055187	0,005225	0,004526	0,01862
6994	11,786979	1,041823	0,903151	3,671145
7051	271,974731	26,509572	22,958841	94,893431
7174	50,464226	4,517892	3,916023	15,954451
7252	183,94349	16,964738	14,700307	60,203003
7413	74,115922	6,636056	5,752001	23,434937
20487	0	0	0	0
20490	0	0	0	0
20493	0	0	0	0
20496	0	0	0	0
20502	0,217669	0,017084	0,014829	0,058908
20505	3673,482085	298,894607	259,341887	1037,784713
20538	0	0	0	0
20552	0	0	0	0
20555	39,683632	3,740416	3,240458	13,319863
20615	73,383484	6,36731	5,520857	22,365735
20628	12,10926	1,074157	0,931147	3,787391
20634	295,218047	26,571162	23,030125	93,916757
20660	68,205752	5,94046	5,150547	20,880062
20662	132,823039	11,707666	10,149609	41,235825
20679	89,539548	7,985719	6,922139	28,182697
20703	0,777598	0,067012	0,058108	0,235107
20714	86,28705	7,794412	6,755432	27,566183

20716	47,583768	4,45388	3,85882	15,843047
20722	5,761052	0,483905	0,419722	1,690015
20724	31,482394	2,83263	2,455145	10,011479
20727	48,516827	4,135588	3,586492	14,4814
20747	7,319847	0,609386	0,528611	2,124815
20750	0,984541	0,102939	0,089094	0,372267
20757	25,325754	2,024561	1,757003	7,005953
20758	1,312684	0,103027	0,08943	0,355256
20767	125,513814	11,712141	10,147648	41,641257
20770	54,99038	5,148851	4,460925	18,316117
20773	148,459977	13,29494	11,523767	46,951909
20778	295,095483	26,731533	23,167613	94,584417
20779	250,321753	22,484649	19,488608	79,445992
20781	10,801931	0,978692	0,848209	3,463026
20784	4,534635	0,411655	0,356764	1,457077
20790	101,440612	8,873663	7,693365	31,213395
20806	61,583646	5,17711	4,490401	18,083546
20853	1354,163761	109,223261	94,7791	378,607473
20859	18,066628	1,455307	1,26287	5,043377
20861	4,353401	0,349946	0,303679	1,212259
20863	14,735023	1,234582	1,070862	4,309766
20865	9,295705	0,825805	0,715849	2,912452
20867	18,264934	1,77921	1,540909	6,368254
20869	7,224717	0,613564	0,53212	2,147076
20895	243,342203	21,505833	18,643327	75,780086
20912	64,784302	5,52565	4,791959	19,351039
20917	121,766417	9,755307	8,465873	33,772081
20928	13,025349	1,192201	1,033146	4,225557
20932	257,625306	23,119909	20,039404	81,678346
20935	118,077745	10,780058	9,342097	38,192189
20950	2,855222	0,250393	0,217082	0,881147
20953	73,096926	7,014314	6,075706	25,048357
20955	97,255502	9,32181	8,074518	33,282582
20966	2,919652	0,253289	0,219618	0,889675
20968	8,439207	0,769412	0,666788	2,725301
20970	43,031767	4,02022	3,483163	14,296166
20972	4,266684	0,383314	0,332238	1,354421
21005	60,435694	5,196928	4,506492	18,226029
21009	61,69719	5,148811	4,466213	17,960864
21013	32,15941	2,524045	2,190941	8,703407
21017	132,875862	10,530806	9,140002	36,381103
21019	51,580795	4,160249	3,610081	14,420854
21022	1,409876	0,112049	0,097248	0,387309
21026	30,291989	2,553199	2,214471	8,922472
21028	26,889584	2,276038	1,97399	7,959939
21031	0	0	0	0
21033	0	0	0	0
21035	31,286104	2,546154	2,209216	8,840793
21037	83,740662	7,098282	6,15619	24,831015
21039	90,966547	7,58065	6,575756	26,43714
21041	39,414379	3,2914	2,855026	11,482929
21043	0,19837	0,021218	0,018361	0,076975
21045	49,420897	4,132925	3,584925	14,422555
21047	0,07223	0,005669	0,004921	0,019548
21049	150,037598	11,798378	10,241092	40,6984
21081	4,034675	0,338126	0,293286	1,180405
21097	4,617757	0,370002	0,321095	1,280949
21099	0,131813	0,014617	0,012645	0,053286
21121	220,043822	18,515118	16,059052	64,683563
21148	18,140127	1,49785	1,299427	5,214881
21152	10,552027	0,845447	0,733697	2,926916
21154	24,405516	1,941575	1,685077	6,71254
21165	38,411763	3,100435	2,690398	10,748708

21225	1,263598	0,101728	0,088277	0,3525
21228	1,613571	0,13304	0,115418	0,463065
21232	20,319792	1,689308	1,465411	5,888818
21236	5,823916	0,497365	0,431319	1,742178
21240	19,06773	1,53858	1,335105	5,333689
21247	172,860514	14,074943	12,212308	48,875819
21250	11,82515	0,96339	0,835893	3,345764
21261	0,216408	0,026675	0,023057	0,098519
21263	0	0	0	0
21267	13,013028	1,079234	0,93622	3,760471
21271	0,635183	0,052567	0,045602	0,183094
21276	0,015858	0,001245	0,00108	0,004292
21278	0,581199	0,046958	0,040748	0,162828
21280	1,012459	0,087589	0,075947	0,307504
21299	7,341986	0,616584	0,534804	2,153319
21307	2,542232	0,208144	0,180588	0,723535
21309	0,02191	0,002701	0,002334	0,009975
21311	13,886099	1,104956	0,95898	3,820295
21313	5,877136	0,510887	0,442962	1,79511
21315	5,579845	0,479233	0,41557	1,680349
21317	2,68059	0,216875	0,188188	0,752206
21319	3,711668	0,325454	0,282158	1,145263
21321	15,122234	1,314353	1,139606	4,618143
21323	7,078583	0,567197	0,492225	1,963654
21325	15,524438	1,279073	1,109658	4,451396
21327	1,018972	0,081915	0,071085	0,283767
21340	0,790566	0,064497	0,055961	0,224052
21351	176,20577	14,345897	12,447418	49,815786
21368	4,332929	0,421898	0,365392	1,509986
21371	2,43702	0,216618	0,187774	0,764039
21373	5,63024	0,493736	0,428053	1,737474
21390	34,489817	3,061301	2,653712	10,795011
21407	3,506292	0,299425	0,259665	1,048825
21411	35,679578	3,12849	2,712298	11,009022
21413	5,154609	0,487324	0,422174	1,736219
21417	0,371272	0,033969	0,029437	0,120389
21427	25,654945	2,326618	2,016403	8,233833
21447	0,354753	0,031179	0,02703	0,109762
21449	3,59406	0,326566	0,283019	1,156073
21451	0,393406	0,035841	0,031061	0,126937
21463	16,311791	1,552663	1,345001	5,537661
21466	5,521765	0,500869	0,434086	1,772624
21469	15,284126	1,394864	1,208807	4,941501
21536	29,355476	2,331727	2,023724	8,058978
21587	32,461806	2,858204	2,477862	10,065059
21758	14,265556	1,211327	1,050538	4,238746
21759	16,051317	1,535267	1,329869	5,479732
21760	25,981462	2,55204	2,210056	9,14591
21768	18,048763	1,850863	1,60221	6,67511
21769	15,269039	1,522631	1,318408	5,469052
21770	56,498594	5,403772	4,680823	19,287247
21775	19,70226	1,87926	1,627884	6,704641
21776	111,308374	9,549799	8,281264	33,478508
21778	416,531463	40,734899	35,277706	145,88777
21786	21,0551	1,960641	1,698775	6,968528
21787	43,401976	4,328633	3,74805	15,548085
21788	29,248012	2,807407	2,431732	10,025786
21795	1,030249	0,086588	0,075103	0,302437
21796	0,557663	0,050109	0,043432	0,177061
21797	4,986209	0,464434	0,402403	1,650767
21804	0,377189	0,034852	0,0302	0,123717
21805	0,491701	0,043943	0,03809	0,155135
21806	3,729985	0,327509	0,283935	1,152764

21813	0,8834	0,079576	0,068971	0,281303
21814	0,440892	0,041225	0,035718	0,146619
21815	6,978727	0,644496	0,558462	2,287626
21832	0	0	0	0
21833	0	0	0	0
21834	0	0	0	0
21841	221,673549	19,378768	16,801286	68,157911
21844	44,148627	3,617816	3,13882	12,578016
21847	6,234503	0,509197	0,441796	1,769222
21848	2,892416	0,249422	0,216278	0,875172
21854	0,172259	0,014239	0,012352	0,049582
21855	1,229095	0,101764	0,08828	0,354477
21856	11,953475	0,981031	0,851129	3,411701
21863	0,811275	0,069932	0,06064	0,245361
21864	0,409157	0,041718	0,036115	0,15033
21865	6,51599	0,576128	0,499441	2,030259
21872	1,127819	0,095177	0,082549	0,332682
21873	4,992338	0,443366	0,384333	1,56358
21874	12,893179	1,125903	0,976162	3,95922
21881	4,023425	0,366562	0,317672	1,298234
21882	1,169435	0,102201	0,088608	0,359435
21883	1,965694	0,178961	0,155093	0,633742
21890	3,022532	0,246238	0,21365	0,855158
21891	3,771413	0,354371	0,307013	1,261315
21892	15,232799	1,434284	1,242584	5,106735
21899	2,073269	0,208465	0,180491	0,749687
21901	0,525429	0,045316	0,039294	0,159008
21903	6,902644	0,664172	0,575283	2,372777
21910	3,797918	0,392075	0,339382	1,415358
21911	6,847934	0,562926	0,488378	1,958256
21912	10,022546	0,873607	0,757436	3,071049
21919	7,942316	0,658851	0,571542	2,295794
21920	2,040419	0,177044	0,153508	0,621883
21921	4,041218	0,357214	0,309667	1,258751
21928	733,835243	61,461545	53,311246	214,539611
21931	32,838774	2,669485	2,316256	9,267053
21934	3,730949	0,304427	0,264134	1,057551
21935	2,740042	0,242845	0,210515	0,856126
21942	3,072392	0,277539	0,240543	0,981563
21943	5,545034	0,492204	0,42667	1,735666
21944	8,114775	0,719001	0,623283	2,534648
21951	0,184195	0,016592	0,014381	0,058654
21954	0,484771	0,044371	0,038451	0,157265
21955	0,151214	0,013689	0,011864	0,048429
21960	0,18182	0,016609	0,014394	0,05885
21961	0,535623	0,047347	0,041045	0,166843
21962	0,549955	0,048704	0,04222	0,171679
21969	0,131819	0,01243	0,010769	0,044268
21970	0,605036	0,053431	0,04632	0,188252
21971	8,305757	0,714804	0,619833	2,507231
21978	0,288091	0,025303	0,021936	0,089065
21979	0,725805	0,066613	0,057724	0,236202
21980	3,494487	0,313152	0,271432	1,106042
21987	6,766032	0,596246	0,516898	2,099962
21988	4,400316	0,422293	0,365784	1,508045
21989	103,473606	9,276506	8,040585	32,766591
21992	299,00397	26,200835	22,715419	92,189538
22002	10,546955	0,94705	0,82086	3,346071
22005	4,612626	0,447222	0,38734	1,599583
22006	6,906637	0,611291	0,529918	2,154546
22011	0,980634	0,082983	0,071971	0,290202
22012	0,564029	0,054019	0,046791	0,192846
22016	32,041281	3,118652	2,700971	11,161091

22023	32,05166	2,979762	2,581823	10,587929
22026	15,512843	1,294914	1,123239	4,517318
22027	9,42935	0,886504	0,76803	3,155625
22032	185,635936	16,954846	14,693164	60,072614
22035	228,474407	20,428507	17,707272	72,12568
22038	1,949388	0,171591	0,148758	0,604223
22039	1,820805	0,157519	0,136583	0,553015
22040	5,938649	0,493836	0,428383	1,721556
22042	2,373655	0,229862	0,199086	0,821997
22052	68,885409	6,306229	5,464886	22,352062
22055	9,417742	0,846859	0,734008	2,992791
22057	10,947735	1,0081	0,873554	3,576548
22060	19,84653	1,837164	1,591884	6,523449
22064	178,436901	15,603384	13,528008	54,881992
22067	408,892679	36,10745	31,301676	127,214281
22070	3,644034	0,312821	0,271266	1,096758
22073	5,289749	0,481406	0,417204	1,704665
22077	116,861001	10,314735	8,941923	36,338187
22080	3,940533	0,370119	0,320658	1,317287
22081	4,517377	0,391723	0,33965	1,375814
22086	12,526125	1,166908	1,01105	4,147709
22089	6,276688	0,567823	0,492126	2,008689
22090	6,318475	0,624443	0,540735	2,239911
22097	22,463073	1,931758	1,675114	6,774908
22100	38,487306	3,325694	2,883712	11,673399
22103	0,532829	0,045431	0,039399	0,159092
22104	0,419861	0,039443	0,034172	0,140385
22113	8,142247	0,702936	0,609522	2,46696
22116	43,272917	3,779011	3,276417	13,288949
22119	0,511959	0,042651	0,036998	0,148736
22120	0,424937	0,035462	0,030761	0,123705
22128	18,806431	1,618166	1,403176	5,675637
22131	8,409072	0,715986	0,620929	2,506634
22134	0,334414	0,027931	0,024228	0,097447
22135	0,427852	0,034903	0,030284	0,121246
22147	5,367831	0,466362	0,40436	1,638508
22148	2,070491	0,187196	0,162242	0,662147
22183	6,152788	0,644619	0,557913	2,331864
22186	0	0	0	0
22191	0	0	0	0
22194	0	0	0	0
22202	4,493244	0,396699	0,3439	1,397607
22205	0,775411	0,067886	0,058856	0,238823
22206	0,976557	0,086646	0,07511	0,305517
22251	39,901404	3,356805	2,911524	11,726794
22260	1198,562367	100,79914	87,428426	352,114935
22269	6991,360475	588,270577	510,235387	2055,153406
51247	526,314931	51,127873	44,281135	182,923231
51253	1290,65753	119,970737	103,94915	426,279147
51256	355,512347	34,791608	30,130433	124,615543
51259	133,832301	12,009793	10,409609	42,427991



**17 Appendice I – emissioni per singolo arco – cantiere rif. f.e. 2012**

**SCENARIO DI CANTIERE - EMISSIONI 2012 (g)**

<b>id arco</b>	<b>CO</b>	<b>PM10</b>	<b>PM25</b>	<b>No2</b>
360	30,673573	2,470486	2,143814	8,561264
361	278,566492	23,437604	20,328578	81,879415
362	511,650578	47,055158	40,775446	166,908753
363	307,147051	25,00648	21,697223	86,834358
364	32,289008	2,962233	2,566973	10,503094
365	1,246498	0,102672	0,089073	0,357297
366	26,12964	2,135798	1,853073	7,421994
369	149,673044	13,864092	12,013015	49,234169
370	375,270593	30,804492	26,725496	107,131491
411	189,343089	15,594071	13,528674	54,266181
425	2,22109	0,177848	0,154341	0,615632
430	682,073116	55,592341	48,234879	193,082725
433	21,723283	1,879299	1,629521	6,5978
472	188,497764	17,642937	15,28576	62,757941
484	3,062615	0,251387	0,218099	0,874262
485	12,202614	1,028795	0,892304	3,595431
490	182,740304	17,720858	15,348041	63,384015
491	9,664527	0,886222	0,767974	3,142008
513	0	0	0	0
514	1,33621	0,115153	0,099852	0,404003
517	1,930412	0,154578	0,134147	0,535087
546	127,961028	11,65436	10,100018	41,273472
551	54,476274	4,917415	4,261964	17,389177
554	4,179866	0,381121	0,330287	1,349975
555	4,575826	0,415749	0,360309	1,471775
556	0,924601	0,077068	0,066852	0,268782
557	1,804479	0,147427	0,127912	0,51227
558	1,325179	0,109828	0,095275	0,382636
559	17,519044	1,546463	1,340639	5,448182
570	11,99975	0,960848	0,83385	3,32604
571	2,0686	0,166789	0,144732	0,578111
573	50,588749	4,693995	4,067203	16,673888
578	0,010116	0,000794	0,000689	0,002738
579	0,862399	0,075231	0,065226	0,264502
580	10,696323	0,975712	0,845568	3,456328
608	22,203108	2,027083	1,756688	7,181675
610	0,132154	0,01186	0,01028	0,0419
615	4,550339	0,39167	0,339632	1,373853
616	0,187616	0,017395	0,015072	0,061782
617	12,289137	1,032332	0,895407	3,60543
622	4,49343	0,395377	0,342766	1,392148
638	5,979456	0,501004	0,434565	1,748948
639	4,096049	0,343019	0,297532	1,197326
640	12,997534	1,08197	0,938555	3,772571
641	5,521749	0,459663	0,398735	1,602743
643	1,975253	0,166316	0,144253	0,581107
644	7,524816	0,688345	0,596514	2,439494
645	2,585328	0,225099	0,195168	0,791154
646	7,163856	0,605977	0,525563	2,119019
665	8,433515	0,753409	0,653055	2,659628
666	14,992161	1,349173	1,169375	4,768583
667	25,41827	2,251658	1,951907	7,937322
668	11,375371	1,01657	0,881159	3,588825
669	8,318055	0,749521	0,649628	2,649713
670	4,350189	0,391735	0,339528	1,384717
671	10,175781	0,913505	0,791786	3,227423
673	4,134058	0,372277	0,322663	1,315939
676	6,018114	0,492527	0,427323	1,711954
677	3,662909	0,306363	0,265741	1,069137
678	2,492844	0,217196	0,188314	0,763466
679	6,686316	0,580827	0,503607	2,040615

680	0,521868	0,043026	0,037327	0,149758
681	12,71939	1,045114	0,906715	3,63535
684	0,001357	0,000106	0,000092	0,000367
687	0,982288	0,085809	0,074396	0,301763
688	1,465282	0,133684	0,115852	0,473569
689	2,370636	0,216214	0,187375	0,765892
690	178,843847	14,484805	12,568684	50,248804
693	49,162349	3,991779	3,463628	13,854334
694	5,081135	0,437899	0,379713	1,536342
695	7,114673	0,643567	0,557773	2,276598
698	0,049316	0,004542	0,003936	0,016114
699	4,506322	0,373415	0,323935	1,30092
700	5,712218	0,468795	0,40672	1,630306
701	4,003506	0,3421	0,296671	1,198439
702	66,688913	5,656412	4,905654	19,789306
703	62,819458	5,427329	4,706049	19,049714
705	155,492939	12,966457	11,247537	45,225297
707	0	0	0	0
721	37,543265	3,483452	3,018305	12,373778
722	304,313487	24,690337	21,423751	85,680994
727	5,972461	0,514698	0,446307	1,805774
728	4,162018	0,351038	0,304464	1,226894
729	2,556265	0,221086	0,191702	0,776146
730	13,098485	1,10353	0,957132	3,856115
731	1,977337	0,157054	0,136308	0,542809
733	37,724181	3,173482	2,75252	11,086264
745	0,385623	0,034089	0,029552	0,120125
746	0	0	0	0
749	0,96535	0,089415	0,077476	0,317526
750	0,304892	0,026952	0,023365	0,094976
778	30,219156	2,794271	2,421233	9,920211
779	27,25366	2,543604	2,203829	9,043778
782	223,897983	20,797021	18,019795	73,887274
783	3,752213	0,349847	0,303118	1,243684
784	11,970379	1,139807	0,987359	4,0654
785	17,043904	1,566599	1,357538	5,556356
786	9,456686	0,874918	0,758111	3,10641
790	384,278888	35,560069	30,812536	126,260713
793	22,830005	2,051961	1,778529	7,25105
794	16,203329	1,483216	1,285335	5,257091
797	26,451904	2,373486	2,057245	8,384868
798	0,460182	0,043349	0,037555	0,154355
800	3,525583	0,31725	0,274972	1,121291
801	0,952899	0,084489	0,07324	0,297877
802	3,026577	0,268045	0,232362	0,944847
803	3,93645	0,348116	0,301779	1,226791
804	16,96303	1,500352	1,300639	5,287516
806	33,165933	2,936687	2,545753	10,351345
807	91,068551	8,596901	7,447696	30,621509
808	104,979941	9,794021	8,485765	34,820435
810	38,05972	3,504368	3,03666	12,43267
811	59,935217	5,522539	4,785442	19,594947
812	2,794935	0,239171	0,207407	0,838073
813	17,110069	1,504104	1,303974	5,295198
815	981,914557	86,72983	75,186203	305,580621
816	483,430199	42,683765	37,002759	150,380601
817	0,725792	0,081807	0,070759	0,298843
818	0	0	0	0
821	74,285994	6,239389	5,411828	21,790563
822	898,9038	75,506506	65,491649	263,704359
823	33,746687	2,906879	2,520641	10,197709
829	4,445413	0,376798	0,326789	1,318095
831	144,496309	12,230541	10,607456	42,77349

832	169,183548	13,997585	12,143023	48,751562
833	6,35568	0,52035	0,45146	1,808787
837	215,363704	17,627676	15,293987	61,27263
854	241,375543	21,908345	18,987087	77,543671
856	317,242997	26,09614	22,640073	90,792256
861	2457,189354	206,32729	178,961615	720,546427
870	12,88808	1,191285	1,032251	4,229049
873	2,04677	0,195337	0,169207	0,696966
876	21,15148	1,915302	1,659955	6,776505
877	0,005584	0,000438	0,00038	0,001511
879	1310,381588	119,56041	103,612776	423,543189
904	0,054159	0,004251	0,00369	0,014657
906	21,79542	1,891296	1,639871	6,64344
907	0,030663	0,002407	0,002089	0,008298
908	41,08148	3,380513	2,9328	11,762059
931	10,774972	0,977393	0,847072	3,459094
932	0,048968	0,003843	0,003336	0,013252
933	7,742689	0,626907	0,543979	2,174666
936	1,222516	0,126323	0,109345	0,456075
937	53,810278	4,303223	3,73451	14,892265
939	233,464806	21,19003	18,364555	75,001051
951	11,313789	1,02158	0,885409	3,612742
991	0	0	0	0
992	0	0	0	0
993	0	0	0	0
994	0	0	0	0
995	0	0	0	0
996	0	0	0	0
997	0	0	0	0
1001	0	0	0	0
1005	0	0	0	0
1006	0	0	0	0
1007	0	0	0	0
1016	83,744069	7,405196	6,4195	26,096171
1105	494,714486	41,090769	35,645055	143,215606
1109	49,062346	4,156824	3,605144	14,540072
1111	3,623242	0,293442	0,254624	1,017965
1143	37,84954	3,354799	2,908175	11,827159
1144	13,86662	1,228827	1,065235	4,332015
1145	12,945719	1,146128	0,993556	4,039822
1153	31,545269	2,888495	2,503122	10,238468
1155	0,020413	0,001602	0,001391	0,005524
1156	1,688368	0,150587	0,130531	0,531446
1174	265,195647	23,384603	20,272497	82,368814
1175	439,76613	38,383415	33,278765	134,962998
1176	288,215114	25,971442	22,510057	91,815011
1177	147,745268	13,228149	11,465899	46,714387
1179	4,470233	0,398774	0,345662	1,40738
1245	12,661846	1,124161	0,974485	3,964288
1250	0,13425	0,01256	0,010882	0,044672
1251	18,476037	1,769689	1,532908	6,317824
1254	0,118118	0,012077	0,010455	0,043537
1255	2,480692	0,214647	0,186118	0,753602
1261	205,313558	19,64158	17,013775	70,107592
1262	80,91538	6,952556	6,028927	24,379801
1263	64,827884	5,581511	4,839918	19,579034
1264	149,894191	14,365944	12,443738	51,291482
1268	323,158103	29,650721	25,694303	105,133809
1277	102,933003	9,437118	8,177948	33,457379
1285	0,87021	0,068299	0,059285	0,235508
1295	152,372224	13,294388	11,526398	46,742505
1296	80,222579	7,743465	6,706912	27,677218
1301	10,990006	0,959076	0,831529	3,372196

1302	13,648297	1,251426	1,08445	4,436744
1303	22,224038	2,094263	1,81434	7,457534
1304	38,4606	3,56099	3,085555	12,644883
1305	11,960324	1,194117	1,033945	4,289844
1306	41,480323	4,064883	3,520249	14,562441
1307	45,71192	3,995592	3,464161	14,052732
1308	27,571521	2,36014	2,046684	8,270567
1315	11,919389	1,257754	1,088507	4,554369
1316	43,311457	4,237017	3,66938	15,175165
1317	9,971831	0,94951	0,822514	3,386661
1318	30,480922	2,945364	2,551066	10,529275
1322	267,130968	25,680845	22,244018	91,733229
1323	72,204245	6,61663	5,733818	23,45606
1324	313,434353	28,30542	24,53243	100,102259
1325	30,846892	2,783605	2,412581	9,843006
1329	38,784696	3,491186	3,025926	12,339941
1374	99,654152	9,75558	8,44856	34,943921
1376	77,713043	7,482068	6,480664	26,732405
1380	22,298006	2,147135	1,859758	7,671597
1381	0,030755	0,002414	0,002095	0,008323
1382	45,376679	3,902735	3,384232	13,687655
1387	23,178547	2,21757	1,920884	7,915364
1389	0	0	0	0
1390	10,555642	0,907948	0,78732	3,184401
1393	0	0	0	0
1410	496,134842	44,461972	38,538394	157,039104
1414	489,664842	42,214107	36,604778	148,11422
1432	689,611589	63,905844	55,373159	226,95828
1437	0	0	0	0
1658	0	0	0	0
1659	0	0	0	0
1666	1,35322	0,120823	0,10473	0,42648
1667	24,13949	2,223252	1,926522	7,887914
1668	7,444222	0,692249	0,5998	2,459856
1669	11,441561	1,056328	0,915321	3,749234
1672	0,197846	0,019778	0,017125	0,071065
1673	116,6085	10,362243	8,982481	36,547422
1718	138,401901	11,647654	10,102551	40,693043
1721	8,227818	0,692248	0,600421	2,418367
1723	0,758905	0,068193	0,059106	0,240966
1724	5,249476	0,488049	0,422871	1,734186
1727	0,00914	0,000717	0,000623	0,002474
1728	213,000867	20,19951	17,498533	72,000813
1729	29,635701	2,431104	2,109203	8,453848
1820	271,305069	23,223331	20,138987	81,380465
1836	87,528749	7,454501	6,464802	26,099066
1837	13,079385	1,10427	0,957752	3,860177
1839	0,578287	0,053522	0,046377	0,190043
1840	4,648963	0,388317	0,336833	1,354808
1841	2,05517	0,170088	0,147553	0,592427
1846	125,78272	10,939187	9,484731	38,440309
1848	56,562611	5,116213	4,434172	18,098316
1930	90,931865	7,663047	6,646418	26,77868
1931	62,711224	5,284826	4,583707	18,467935
1933	151,742969	13,03518	11,30352	45,707165
1972	73,801333	6,177204	5,358094	21,559848
1975	343,66946	28,291154	24,544184	98,442669
1985	0,136421	0,011766	0,010202	0,041284
2002	2476,966818	242,739335	210,21583	869,617871
2013	33,877193	2,865855	2,485549	10,021664
2016	17,431697	1,461189	1,267412	5,101244
2022	2,380639	0,208303	0,180596	0,732745
2023	0,81774	0,076387	0,066183	0,271631

2024	3,40381	0,345625	0,299219	1,244722
2025	9,074165	0,820783	0,711365	2,903477
2026	0,611783	0,067844	0,05869	0,247315
2029	22,644362	2,040863	1,768861	7,215126
2030	1,638016	0,138932	0,120492	0,486061
2031	9,750406	1,036479	0,89695	3,756939
2037	15,693578	1,328994	1,15262	4,648254
2039	0,023271	0,001826	0,001585	0,006298
2040	1,513067	0,160845	0,139192	0,583018
2041	0,002611	0,000205	0,000178	0,000707
2044	0	0	0	0
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2046	0	0	0	0
2047	0	0	0	0
2048	0	0	0	0
2049	0	0	0	0
2050	0	0	0	0
2051	0	0	0	0
2052	0	0	0	0
2053	7,789384	0,659986	0,572394	2,308569
2054	0	0	0	0
2066	70,359127	5,873356	5,094686	20,489398
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2077	0	0	0	0
2078	0	0	0	0
2079	0	0	0	0
2080	0	0	0	0
2081	0	0	0	0
2082	0	0	0	0
2247	148,115501	12,367141	10,727519	43,145043
2250	42,309269	3,820134	3,310933	13,509509
2251	121,871267	11,653918	10,094807	41,594068
2252	9,124688	0,788857	0,684015	2,769178
2253	128,429119	11,215676	9,724035	39,440096
2266	38,131974	3,524412	3,053913	12,511478
2271	102,113624	9,446139	8,185037	33,537953
2272	138,482931	13,065014	11,318593	46,532205
2273	253,917182	23,914829	20,718437	85,151941
2274	145,097828	14,037996	12,158579	50,193365
2291	81,425224	7,062108	6,123318	24,804468
2293	1,517133	0,136409	0,118231	0,482059
2294	4,693952	0,411836	0,357046	1,449388
2295	4,696994	0,405185	0,351342	1,421805
2297	11,973795	1,02649	0,890145	3,59804
2298	1,278949	0,110578	0,095881	0,388173
2299	1,682234	0,144156	0,125009	0,505258
2310	11,965052	0,939082	0,81515	3,238141
2311	122,560451	11,276605	9,77165	40,002005
2392	99,096872	9,300231	8,057466	33,096127
2440	13,016678	1,100065	0,954094	3,846161
2453	12,571798	1,068498	0,926659	3,739569
2455	23,006587	1,951601	1,692569	6,827941
2457	0	0	0	0
2460	37,281037	3,250372	2,818134	11,426726
2463	68,361019	5,684885	4,931408	19,818164
2466	6,169453	0,510573	0,442925	1,77834
2467	95,627153	7,912825	6,864433	27,55987
2471	46,704904	4,140286	3,589085	14,596702
2482	0	0	0	0
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2487	22,080547	1,885676	1,635276	6,605175
2493	97,481643	9,194857	7,965781	32,747208

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2600	0	0	0	0
2649	53,732643	4,789196	4,151373	16,899932
2650	0,019574	0,001897	0,001643	0,006784
2651	8,620162	0,763597	0,661944	2,691751
2652	0,010294	0,000808	0,000701	0,002786
2654	480,689791	42,562743	36,896757	150,026744
2655	8,72666	0,773057	0,670144	2,72511
2656	3,218223	0,282488	0,244905	0,994249
2657	124,884081	10,182244	8,834623	35,367183
2658	21,484601	1,886531	1,635536	6,640251
2660	4,967799	0,517625	0,448022	1,871035
2663	43,950369	4,085951	3,540284	14,518527
2666	454,613307	40,655131	35,239491	143,542693
2667	16,50827	1,458213	1,264126	5,137864
2672	10,584494	0,941555	0,816176	3,321429
3005	32,455375	2,965734	2,570109	10,50872
3026	367,520533	32,603207	28,262495	114,957504
3039	55,420598	4,918354	4,263519	17,343051
3041	255,916629	23,035979	19,966043	81,422786
3043	13,05644	1,158427	1,004195	4,084666
3045	0	0	0	0
3046	7,770391	0,699611	0,606375	2,472941
3047	0,001668	0,000131	0,000114	0,000451
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3065	0	0	0	0
3066	0,893614	0,070136	0,06088	0,241842
3085	0,331946	0,02898	0,025126	0,101902
3090	134,738234	11,484449	9,959627	40,214157
3109	0	0	0	0
3126	4,327805	0,401616	0,347987	1,426638
3128	3,408485	0,299533	0,259679	1,054445
3139	506,437984	42,979374	37,274624	150,3812
3140	4763,975339	404,799207	351,064619	1416,669925
3186	406,789348	32,803075	28,465126	113,702458
3187	641,957564	54,118408	46,938533	189,12992
3430	54,341033	4,545532	3,942812	15,863149
3434	19,133668	1,565524	1,358274	5,441283
3447	26,640179	2,240355	1,943179	7,826031
3535	0,596394	0,051448	0,044611	0,180533
3536	8,532579	0,776036	0,672545	2,747667
3537	1,580923	0,150501	0,130372	0,536779
3538	4,633282	0,437052	0,378631	1,556562
3542	14,2241	1,253216	1,086443	4,413641
3619	665,335411	65,376901	56,615939	234,308394

3620	870,35718	84,638211	73,303242	302,863667
3632	23,857644	2,044693	1,77311	7,16668
3636	162,53643	15,700714	13,598893	56,125102
3642	199,416562	19,020517	16,476274	67,859302
3670	77,729286	6,836828	5,927114	24,071369
3672	2,580693	0,230188	0,19953	0,812379
3912	14,361376	1,301103	1,127635	4,603801
3916	7,380597	0,622753	0,540128	2,17671
3917	10,836743	0,912855	0,791754	3,189751
4077	0,569251	0,050249	0,043561	0,177026
4078	0,066016	0,006103	0,005288	0,021665
4080	7,658691	0,702818	0,609038	2,492077
4081	0,096022	0,008013	0,006951	0,027953
4098	10,55834	0,976579	0,846202	3,467208
4256	158,121591	14,617809	12,666346	51,894272
4320	400,590827	39,010063	33,78529	139,620631
4321	22,484898	2,075082	1,798091	7,364644
4322	12,522809	1,248156	1,080752	4,482852
4466	0	0	0	0
4467	715,288057	60,095359	52,124453	209,889102
4468	159,090009	13,746603	11,919692	48,251215
4476	127,003895	10,793771	9,360945	37,776138
4477	52,086631	4,550727	3,94548	16,003922
4636	2,786822	0,247695	0,214714	0,873645
4637	2,632801	0,206637	0,179366	0,712524
4639	9,465816	0,891432	0,772287	3,174013
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4645	18,858455	1,524459	1,322824	5,28655
4646	19,509729	1,563262	1,356631	5,412047
4654	5,380833	0,488913	0,423717	1,730792
4661	147,981888	11,823791	10,261264	40,912011
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5061	23,862967	2,333467	2,020857	8,356945



5064	0,553235	0,052756	0,045699	0,18821
5065	4,310602	0,382305	0,331407	1,347936
5068	160,218793	15,445422	13,378034	55,195296
5071	164,596261	14,593312	12,650468	51,450479
5075	230,106512	20,257775	17,562093	71,33538
5115	319,084574	29,038361	25,165716	102,824858
5116	399,452726	38,356731	33,223882	136,987344
5117	346,499285	31,518113	27,314893	111,59686
5278	1360,645638	123,713056	107,215288	438,00241
5281	577,454798	52,141986	45,191741	184,396629
5282	74,47197	7,18303	6,221542	25,671135
5283	240,266053	23,169657	20,068309	82,802518
5284	159,337239	15,342012	13,288617	54,815634
5285	372,600292	33,718179	29,22308	119,285337
5287	2229,616689	211,933641	183,590812	755,708779
5292	2,027552	0,181801	0,157579	0,642175
5294	88,139796	6,917689	6,004747	23,853564
5296	25,690971	2,022016	1,755109	6,976122
5302	25,665379	2,09343	1,816356	7,271901
5303	211,077997	18,66501	16,180533	65,776223
5468	6,244951	0,545759	0,473171	1,919404
5509	0,345189	0,027092	0,023517	0,09342
5535	239,798282	20,796367	18,031851	73,04275
5664	6,424838	0,575668	0,498974	2,033189
5666	4,052639	0,360325	0,312345	1,270973
5667	9,309021	0,823973	0,714288	2,904194
5668	0,412937	0,033839	0,029358	0,117646
5672	419,847294	37,020285	32,093506	130,397709
5674	395,549628	35,323246	30,618305	124,687624
5683	197,152193	17,09701	14,824267	60,049005
5710	4,381974	0,366635	0,318019	1,279551
5718	7,60602	0,639843	0,554968	2,235233
5720	4,995282	0,403763	0,350359	1,400153
5721	56,187941	4,779206	4,144751	16,728751
5723	3,234358	0,274878	0,238389	0,96202
5763	39,40509	3,770395	3,265956	13,458205
5767	53,40814	5,113469	4,429315	18,254015
5768	6,410585	0,58741	0,509036	2,082355
5769	40,202175	3,64612	3,159971	12,903648
5771	88,282178	8,429537	7,3019	30,079028
5772	7,582494	0,717436	0,621518	2,556376
5783	8285,526735	696,306496	603,948236	2432,042259
5787	429,262159	41,745328	36,154673	149,379521
5788	2130,799594	209,789177	181,672623	752,099432
5789	2628,518716	249,937014	216,511105	891,268466
5790	440,0179	39,807978	34,501122	140,822814
5791	118,501035	10,911065	9,454826	38,709887
5792	234,343569	21,998197	19,058594	78,286416
5797	22,046187	1,966947	1,704972	6,942054
5799	59,836542	5,157854	4,472494	18,096657
5800	40,040622	3,648034	3,161485	12,920095
5803	360,300494	31,859697	27,618896	112,27444
5806	347,243307	33,099082	28,671824	118,075445
5808	184,948155	16,345975	14,170257	57,598792
5817	1,341004	0,108717	0,094335	0,377218
5855	9,500858	0,83224	0,721533	2,928122
5856	114,3834	10,361593	8,980157	36,662546
5857	462,378319	41,863106	36,281995	148,111785
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5972	311,949411	26,218029	22,740443	91,57504
5985	108,820164	9,452061	8,195439	33,207296
5988	25,814522	2,414549	2,091968	8,587905
5989	17,968942	1,688207	1,462601	6,008739
6000	168,696261	15,794322	13,684088	56,184897
6001	35,009665	3,172902	2,749869	11,227591
6006	348,383935	31,832586	27,586181	112,793582
6007	75,161992	6,985169	6,052341	24,818868
6008	27,857955	2,568732	2,225866	9,115379
6009	18,102903	1,648369	1,42853	5,837407
6010	85,852	7,949488	6,88813	28,228559
6011	293,493987	26,826775	23,248051	95,061867
6012	420,61294	37,847542	32,803831	133,767765
6013	6,182298	0,664176	0,574714	2,41093
6014	34,16376	3,5783	3,096996	12,943743
6070	0,093715	0,007355	0,006385	0,025362
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6074	1,018073	0,094114	0,08155	0,334111
6077	0,435564	0,038281	0,033188	0,134765
6120	103,551242	9,216099	7,988822	32,513435
6121	122,747262	11,73945	10,168882	41,90032
6174	102,361086	8,856574	7,679435	31,094209
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6384	16,652414	1,545886	1,339457	5,491688
6385	65,753412	6,105407	5,290112	21,689939
6386	216,824472	20,272591	17,564264	72,099671
6399	42,850543	3,494264	3,031793	12,137367
6401	15,911848	1,470419	1,274124	5,219762
6446	1544,319349	124,865942	108,350122	433,031043
6447	98,388251	7,926491	6,878348	27,470028
6448	41,151254	3,422663	2,969017	11,932141
6449	33,456952	2,852042	2,473366	9,986969
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6680	122,234595	10,841296	9,397932	38,224576
6682	4,148494	0,399992	0,346452	1,429438
6691	2,676373	0,268166	0,232188	0,963888
6692	11,529724	0,970588	0,841833	3,39108
6693	14,604212	1,258766	1,091506	4,416395
6694	10,199926	0,899221	0,779551	3,167257
6695	8,89706	0,782711	0,678561	2,755889
6696	8,075352	0,720027	0,624132	2,540966
6697	0,062129	0,005166	0,004482	0,018011
6704	10,323956	0,834761	0,724348	2,894935
6705	11,622828	0,979531	0,849579	3,42302
6710	26,60039	2,394217	2,075148	8,462473
6722	733,282793	65,336445	56,635151	230,544186
6769	180,256366	15,9425	13,820386	56,183762
6856	5,753104	0,496281	0,430333	1,74146
6857	3,247888	0,254912	0,221271	0,878987
6858	3,430387	0,296111	0,256761	1,03918
6859	640,165413	56,558669	49,030653	199,285443
6943	197,500864	17,456558	15,133007	61,512881
6960	2,944381	0,261624	0,226788	0,922727
6961	3,270428	0,292248	0,25332	1,031721
6962	4,277378	0,391975	0,339676	1,38956
6963	4,25465	0,389325	0,337385	1,379838
6964	6,271817	0,566367	0,490873	2,002945
6965	7,586333	0,684072	0,592897	2,418621
6966	7,960634	0,71791	0,622225	2,538312
6967	0,14339	0,014515	0,012567	0,052252
6969	39,875895	3,697126	3,203471	13,131209
6970	33,639145	2,989726	2,591631	10,54496
6971	57,672681	5,289284	4,583534	18,753079
6973	14,352405	1,268751	1,099873	4,470895
6986	110,324532	9,74834	8,450816	34,349137
6987	114,09868	10,665502	9,24066	37,930568
6989	0,390735	0,034899	0,03025	0,123191
6990	3,847377	0,358479	0,310599	1,274232
6993	0,046159	0,00407	0,003528	0,014335
6994	11,748555	1,038361	0,900151	3,658909
7051	268,375166	26,283337	22,761894	94,151291
7174	49,800957	4,484947	3,887232	15,853742
7252	189,544602	17,774273	15,399267	63,243987
7413	72,77666	6,489728	5,6254	22,902564
20487	0	0	0	0
20490	0	0	0	0
20493	0	0	0	0
20496	0	0	0	0
20502	0,217669	0,017084	0,014829	0,058908
20505	3664,742121	296,751224	257,496107	1029,410766
20538	0	0	0	0
20552	0	0	0	0
20555	38,111559	3,575733	3,097926	12,724144
20615	75,39811	6,588878	5,712543	23,172546
20628	12,688525	1,125377	0,97555	3,967891
20634	283,905072	25,420814	22,034244	89,773088
20660	70,161365	6,14439	5,327054	21,617281
20662	132,699473	11,736152	10,173949	41,359809
20679	84,127005	7,503804	6,504401	26,482434
20703	0,777598	0,067012	0,058108	0,235107
20714	91,424969	8,28054	7,176567	29,298354

20716	51,342782	4,812185	4,169199	17,121238
20722	5,197721	0,440786	0,382283	1,542073
20724	29,031069	2,581181	2,237477	9,104592
20727	50,199352	4,306197	3,734196	15,095704
20747	7,933868	0,672783	0,583488	2,35368
20750	1,102785	0,117227	0,101446	0,424915
20757	21,084915	1,691717	1,468085	5,858241
20758	0,978951	0,076833	0,066694	0,264937
20767	126,272418	11,676509	10,11768	41,454189
20770	53,709745	5,028403	4,356575	17,88734
20773	151,96936	13,7488	11,915926	48,63727
20778	299,908376	27,16901	23,546751	96,13322
20779	256,691352	22,970826	19,910762	81,113156
20781	10,964382	0,993146	0,860737	3,514012
20784	4,621796	0,420055	0,36404	1,487096
20790	103,315287	9,031465	7,830234	31,764724
20806	65,733369	5,52005	4,787908	19,277708
20853	1366,499146	110,051354	95,499324	381,368426
20859	19,418643	1,549285	1,344568	5,359245
20861	4,145146	0,329008	0,285551	1,136963
20863	15,225672	1,266659	1,098771	4,416036
20865	9,600027	0,857021	0,742871	3,025038
20867	17,218492	1,626663	1,409206	5,794743
20869	7,429164	0,622059	0,53957	2,171276
20895	230,373157	20,351435	17,642657	71,707401
20912	41,510896	3,653793	3,167592	12,865994
20917	118,686728	9,502258	8,246334	32,89187
20928	12,016908	1,113053	0,964444	3,95264
20932	264,029941	23,62258	20,475736	83,411653
20935	125,195486	11,393704	9,874202	40,345266
20950	2,781586	0,241885	0,209724	0,849966
20953	71,046743	6,805075	5,89457	24,29426
20955	89,994296	8,630798	7,475924	30,818134
20966	3,679701	0,323287	0,280274	1,13802
20968	6,453609	0,585943	0,507812	2,07403
20970	46,222	4,32245	3,744983	15,373286
20972	4,763351	0,446516	0,386854	1,588693
21005	62,268025	5,289709	4,587544	18,511531
21009	64,712384	5,283299	4,583985	18,355692
21013	40,072222	3,145085	2,730022	10,844878
21017	134,326355	10,59932	9,199933	36,586779
21019	52,060967	4,193091	3,638638	14,530832
21022	2,102251	0,165461	0,14362	0,570856
21026	28,644935	2,454646	2,128614	8,603364
21028	19,482081	1,681091	1,457697	5,899293
21031	0	0	0	0
21033	0	0	0	0
21035	93,849054	7,416774	6,437451	25,608903
21037	57,336062	5,076795	4,400969	17,894858
21039	60,408271	5,063513	4,392011	17,67744
21041	42,89771	3,694869	3,203933	12,961918
21043	5,686844	0,451983	0,392277	1,562339
21045	31,806904	2,750483	2,384927	9,655622
21047	15,853985	1,255607	1,089787	4,337204
21049	147,110276	12,026549	10,434521	41,79408
21081	6,42945	0,532931	0,462313	1,856752
21097	15,26273	1,202163	1,043468	4,14817
21099	0,163766	0,014752	0,012786	0,052148
21121	234,329881	19,67691	17,067111	68,717005
21148	18,34831	1,511185	1,311032	5,258835
21152	10,321871	0,826396	0,71717	2,86056
21154	24,983039	1,984895	1,7227	6,86056
21165	38,797839	3,125676	2,712359	10,832328

21225	1,301135	0,105685	0,091701	0,366826
21228	1,534032	0,126605	0,109834	0,440747
21232	15,795175	1,327319	1,151264	4,635971
21236	5,683663	0,495112	0,429275	1,740315
21240	21,087522	1,718125	1,490743	5,966976
21247	171,279486	14,021399	12,165117	48,738775
21250	11,730734	0,96033	0,833193	3,338148
21261	0,660713	0,051856	0,045013	0,178811
21263	0,041217	0,003235	0,002808	0,011155
21267	5,468809	0,442089	0,383615	1,533089
21271	0,41065	0,032833	0,028494	0,113623
21276	0,130824	0,010268	0,008913	0,035405
21278	0,131074	0,01163	0,010082	0,041009
21280	0,444981	0,041573	0,036019	0,147835
21299	3,612354	0,311374	0,27	1,092472
21307	1,492807	0,124822	0,108272	0,435578
21309	0	0	0	0
21311	12,003974	0,957237	0,830756	3,310929
21313	5,102456	0,435384	0,377573	1,524845
21315	4,790978	0,414566	0,359465	1,455505
21317	3,314589	0,264781	0,229791	0,916144
21319	5,036188	0,421105	0,36527	1,469483
21321	16,130264	1,473257	1,276733	5,219899
21323	6,977781	0,556793	0,48322	1,926098
21325	15,343807	1,253962	1,087972	4,357435
21327	0,961827	0,076352	0,066267	0,263858
21340	0,583758	0,04847	0,042047	0,168924
21351	180,417597	14,630128	12,694608	50,764615
21368	4,063773	0,383627	0,332345	1,366452
21371	2,724858	0,246041	0,213245	0,870107
21373	5,908301	0,535371	0,463992	1,894401
21390	37,099318	3,33698	2,892292	11,793412
21407	4,18022	0,376551	0,326367	1,331117
21411	34,903726	3,143592	2,724639	11,112363
21413	5,640647	0,497883	0,431619	1,75402
21417	0,433037	0,038173	0,033093	0,13445
21427	26,297897	2,408817	2,087434	8,53868
21447	0,414574	0,038098	0,033014	0,13512
21449	3,706142	0,341379	0,295816	1,211208
21451	0,297231	0,027012	0,02341	0,095627
21463	15,733011	1,506148	1,304635	5,376531
21466	5,683095	0,520968	0,451457	1,846946
21469	15,637142	1,434743	1,243299	5,087221
21536	28,73279	2,329106	2,020981	8,081139
21587	32,896245	2,890073	2,505548	10,173448
21758	14,992418	1,282398	1,112088	4,493273
21759	15,260851	1,477565	1,279739	5,283691
21760	25,566358	2,51163	2,175059	9,001287
21768	17,514915	1,766788	1,529657	6,356751
21769	16,275705	1,614154	1,397726	5,793083
21770	60,934365	5,816644	5,038553	20,754575
21775	20,71953	1,954205	1,692988	6,959764
21776	112,852973	9,644684	8,363894	33,787921
21778	416,703198	40,568209	35,134836	145,191453
21786	20,876306	1,976915	1,712596	7,04509
21787	43,701284	4,408741	3,817013	15,862503
21788	29,830264	2,855872	2,473773	10,19477
21795	1,034753	0,088783	0,076989	0,311247
21796	0,557663	0,050109	0,043432	0,177061
21797	5,110895	0,479105	0,415088	1,704648
21804	0,388372	0,03573	0,030961	0,126743
21805	0,536873	0,04706	0,0408	0,165594
21806	3,782174	0,333836	0,289405	1,176084

21813	0,979944	0,087666	0,075987	0,309543
21814	0,416535	0,037785	0,032747	0,133728
21815	7,166918	0,670617	0,581021	2,385354
21832	0	0	0	0
21833	0	0	0	0
21834	0	0	0	0
21841	212,239796	18,34984	15,911064	64,415336
21844	44,27959	3,637578	3,155879	12,652558
21847	6,204512	0,505133	0,438286	1,754056
21848	2,87365	0,247731	0,214813	0,869197
21854	0,164233	0,013249	0,011497	0,045929
21855	0,978464	0,0828	0,071812	0,28956
21856	11,731502	0,965865	0,837942	3,360928
21863	0,823464	0,069771	0,060511	0,244052
21864	0,216122	0,023288	0,02015	0,084567
21865	6,063281	0,530255	0,459726	1,865105
21872	1,147002	0,096017	0,083285	0,335128
21873	5,325791	0,476948	0,413408	1,684377
21874	13,267629	1,165653	1,010562	4,103277
21881	4,021111	0,367095	0,318128	1,300556
21882	1,087938	0,095445	0,082747	0,335899
21883	1,937955	0,176613	0,153057	0,625533
21890	2,872909	0,234786	0,203706	0,815864
21891	3,78204	0,356725	0,309041	1,270457
21892	15,008622	1,405821	1,217988	5,00126
21899	2,002168	0,195438	0,169259	0,699744
21901	0,522184	0,044721	0,038782	0,15673
21903	6,659873	0,632088	0,547564	2,253354
21910	3,792414	0,399746	0,345958	1,447275
21911	6,879436	0,565398	0,490524	1,966781
21912	9,512469	0,835451	0,724297	2,940745
21919	7,831037	0,650287	0,564107	2,266378
21920	2,033872	0,17653	0,153062	0,620111
21921	3,95333	0,347488	0,301253	1,223307
21928	717,526673	59,959579	52,009742	209,210791
21931	31,852863	2,620694	2,273615	9,118098
21934	3,702865	0,304354	0,264049	1,058736
21935	2,731517	0,242901	0,210557	0,856808
21942	3,005247	0,269744	0,233803	0,952982
21943	5,564747	0,494162	0,428366	1,742698
21944	8,116748	0,723162	0,626854	2,551695
21951	0,191884	0,016929	0,014676	0,059634
21954	0,441465	0,040972	0,035501	0,145545
21955	0,157769	0,013976	0,012115	0,049265
21960	0,18429	0,01736	0,01504	0,061815
21961	0,475581	0,041529	0,036006	0,146034
21962	0,553831	0,049329	0,042759	0,174049
21969	0,198336	0,020152	0,017446	0,072582
21970	0,671416	0,061614	0,053392	0,218471
21971	8,538157	0,739213	0,640959	2,595559
21978	0,342814	0,032626	0,028262	0,116359
21979	0,696088	0,06295	0,054558	0,222673
21980	3,664527	0,330725	0,286642	1,169487
21987	6,550603	0,594386	0,515132	2,103702
21988	4,722387	0,458561	0,397155	1,640518
21989	102,514839	9,149314	7,930704	32,292968
21992	307,967427	27,147303	23,534523	95,617047
22002	10,388053	0,930543	0,806572	3,286429
22005	4,664492	0,451293	0,390873	1,61362
22006	7,079853	0,622879	0,539997	2,193152
22011	1,057452	0,091844	0,079634	0,322667
22012	0,568646	0,054381	0,047106	0,194096
22016	31,957455	3,125867	2,707095	11,195275

22023	32,320448	2,991923	2,59247	10,623835
22026	16,169144	1,349316	1,170433	4,706861
22027	9,462169	0,887616	0,769009	3,15847
22032	186,753625	17,099087	14,817798	60,608115
22035	233,657086	20,728095	17,968406	73,086418
22038	1,773924	0,155284	0,134629	0,546283
22039	1,9389	0,167648	0,145366	0,58852
22040	5,764665	0,502636	0,435795	1,767048
22042	2,20916	0,215631	0,186747	0,772037
22052	73,334024	6,706957	5,812208	23,768644
22055	9,10294	0,820482	0,711129	2,900711
22057	11,400957	1,054057	0,913341	3,742024
22060	20,251671	1,891382	1,638719	6,725526
22064	178,976325	15,667771	13,583676	55,118889
22067	415,341367	36,644947	31,767922	129,088842
22070	3,591318	0,303162	0,262938	1,059729
22073	5,250222	0,474164	0,410959	1,6769
22077	118,920529	10,546348	9,142262	37,184036
22080	3,940533	0,370119	0,320658	1,317287
22081	4,648477	0,402012	0,348582	1,411294
22086	12,184429	1,137581	0,985619	4,044893
22089	5,928745	0,531796	0,460942	1,878581
22090	6,247721	0,619944	0,536818	2,225106
22097	23,170871	2,003852	1,737526	7,034663
22100	40,815072	3,56939	3,09463	12,554861
22103	0,481557	0,039539	0,034303	0,137514
22104	0,421488	0,039571	0,034283	0,140825
22113	8,345582	0,740191	0,641645	2,609788
22116	42,566487	3,732901	3,236298	13,13625
22119	0,511959	0,042651	0,036998	0,148736
22120	0,384997	0,03184	0,027622	0,110887
22128	18,43526	1,592289	1,380681	5,588605
22131	7,772755	0,666044	0,577579	2,334426
22134	0,303267	0,025606	0,022209	0,089513
22135	0,430928	0,035145	0,030493	0,122079
22147	5,389709	0,467912	0,405707	1,643741
22148	2,011223	0,181219	0,157067	0,640641
22183	6,897796	0,734646	0,635739	2,663579
22186	0	0	0	0
22191	0	0	0	0
22194	0	0	0	0
22202	4,62979	0,407084	0,352919	1,433196
22205	0,707225	0,061183	0,053051	0,214798
22206	0,973976	0,086173	0,074702	0,303704
22251	42,447636	3,564542	3,091765	12,448435
22260	1243,960909	104,678289	90,79244	365,70419
22269	7139,763669	601,711746	521,884562	2102,711194
51247	524,320474	51,003048	44,172463	182,514202
51253	1317,041149	123,50149	106,999181	439,438777
51256	365,359599	35,8124	31,014003	128,302685
51259	138,855973	12,562594	10,887854	44,441091

**18 Appendice L – emissioni per singolo arco – regime rif. f.e. 2012**



**SCENARIO DI REGIME - EMISSIONI 2012 (g)**

id arco	CO	PM10	PM25	No2
360	29,574697	2,384526	2,069195	8,265048
361	274,882417	23,190103	20,113319	81,054076
362	473,588552	42,896478	37,177439	151,778625
363	289,95689	23,499975	20,391126	81,533502
364	29,757924	2,69706	2,337468	9,543853
365	0,745424	0,061409	0,053275	0,213708
366	26,478235	2,161125	1,875078	7,507958
369	149,705535	13,801218	11,9591	48,973233
370	400,962429	32,873767	28,521151	114,302409
411	246,773381	20,248192	17,567097	70,413458
425	0,721887	0,058901	0,051105	0,204614
430	700,311799	57,279479	49,696777	199,072778
433	20,278788	1,661324	1,441371	5,775618
472	188,482943	17,646354	15,28868	62,772812
484	2,886136	0,248552	0,215527	0,871918
485	20,272295	1,650926	1,432445	5,733092
490	194,117802	18,807431	16,289259	67,261334
491	8,909757	0,80549	0,698114	2,84913
513	0,005229	0,00041	0,000356	0,001415
514	1,078634	0,093314	0,080911	0,327603
517	0,653539	0,053246	0,0462	0,184921
546	133,0886	12,049794	10,443337	42,632282
551	54,780646	5,051725	4,377432	17,926791
554	2,693397	0,254107	0,22014	0,905023
555	3,857129	0,352418	0,305406	1,248726
556	1,161508	0,095662	0,082992	0,332897
557	1,859693	0,152365	0,132192	0,529704
558	1,155782	0,098196	0,085161	0,343648
559	13,402363	1,207056	1,04619	4,26684
570	3,922227	0,319956	0,277608	1,111445
571	0,839422	0,069208	0,06004	0,240885
573	37,208611	3,551042	3,076027	12,670155
578	0,011956	0,000938	0,000815	0,003236
579	0,968039	0,087417	0,075764	0,309147
580	10,757713	0,979616	0,848966	3,469174
608	22,472638	2,050199	1,776734	7,262707
610	0,177328	0,015555	0,013485	0,054739
615	4,651212	0,394157	0,341845	1,378766
616	0,288912	0,026124	0,022641	0,092407
617	11,240666	0,947459	0,821761	3,311028
622	3,415351	0,297922	0,258303	1,047442
638	6,261001	0,524463	0,454914	1,830757
639	4,039846	0,338692	0,293775	1,182463
640	13,291381	1,113133	0,965523	3,88549
641	5,646629	0,472907	0,410196	1,650731
643	1,965153	0,166022	0,143992	0,580426
644	7,518893	0,68859	0,596719	2,440816
645	2,194972	0,1845	0,160027	0,644439
646	7,405534	0,622688	0,540092	2,175122
665	6,389755	0,569462	0,493622	2,009462
666	10,85237	0,967561	0,838699	3,414465
667	23,034205	2,02669	1,757011	7,136054
668	11,100304	0,979228	0,848906	3,449439
669	7,806367	0,697168	0,604307	2,460963
670	4,394979	0,38733	0,335784	1,364183
671	9,402934	0,834861	0,723703	2,944112
673	3,224596	0,290864	0,252096	1,028444
676	7,914216	0,647667	0,561925	2,251171
677	4,362213	0,361965	0,313998	1,261347
678	2,358243	0,203821	0,176733	0,715454
679	6,794553	0,591184	0,512579	2,077584

680	0,518556	0,042973	0,037279	0,149714
681	14,641941	1,202003	1,042838	4,180378
684	0,002713	0,000213	0,000185	0,000734
687	1,140213	0,103494	0,089694	0,366313
688	1,473154	0,134431	0,1165	0,476234
689	2,402083	0,218892	0,189697	0,775265
690	199,56884	16,073273	13,947904	55,700426
693	47,354878	3,87356	3,360772	13,46264
694	5,130754	0,44283	0,383983	1,554041
695	7,0633	0,638804	0,553646	2,259681
698	0,036462	0,003085	0,002676	0,01079
699	4,632341	0,386341	0,335125	1,347542
700	5,786589	0,474912	0,412028	1,65159
701	4,040271	0,344986	0,299175	1,208389
702	60,677758	5,245533	4,548384	18,413602
703	59,149267	5,145988	4,461769	18,084123
705	186,001729	15,462104	13,412806	53,899017
707	0,005101	0,0004	0,000347	0,00138
721	43,639324	3,973326	3,443414	14,070666
722	323,15287	26,367734	22,877768	91,599084
727	4,635683	0,402525	0,349012	1,414088
728	2,51356	0,21695	0,18812	0,761356
729	2,575475	0,225762	0,195729	0,794411
730	14,534497	1,229395	1,066253	4,298999
731	0,458132	0,036577	0,031744	0,126544
733	34,134984	2,881827	2,499456	10,073864
745	0,317567	0,028201	0,024446	0,099455
746	0	0	0	0
749	0,865801	0,077702	0,067349	0,274507
750	0,251084	0,022297	0,019329	0,078634
778	29,26857	2,709775	2,347988	9,622183
779	26,838038	2,529031	2,190996	9,005698
782	219,090328	20,39951	17,674948	72,502965
783	3,985359	0,375065	0,324937	1,335307
784	10,851139	1,030252	0,892482	3,672988
785	15,2482	1,378948	1,195124	4,877785
786	9,170264	0,844799	0,732044	2,997401
790	375,614669	34,604259	29,985655	122,778846
793	22,274483	2,002499	1,735654	7,076541
794	15,844702	1,447692	1,254573	5,129618
797	23,67562	2,131061	1,847061	7,532391
798	0,400379	0,037358	0,032367	0,132819
800	4,091954	0,359238	0,311444	1,264411
801	0,987727	0,088435	0,076653	0,312301
802	3,232256	0,285309	0,247336	1,005134
803	4,372461	0,384398	0,333251	1,353288
804	13,024429	1,142799	0,990763	4,021933
806	35,780366	3,14509	2,72662	11,072124
807	82,409247	7,795395	6,753199	27,775543
808	102,426687	9,483866	8,217652	33,676916
810	34,949979	3,175126	2,751729	11,23992
811	57,726799	5,234776	4,536813	18,525487
812	2,576779	0,219443	0,190309	0,768287
813	17,370116	1,532546	1,328581	5,398689
815	985,764761	87,294619	75,673801	307,705273
816	485,728756	42,952263	37,234931	151,365859
817	0,628073	0,074137	0,064102	0,272397
818	0	0	0	0
821	72,520053	6,040792	5,240047	21,065291
822	858,999102	71,545882	62,062095	249,48833
823	19,370935	1,638521	1,421087	5,72967
829	2,4846	0,203496	0,176554	0,707421
831	80,875695	6,631506	5,753461	23,058287

832	165,481552	13,683061	11,87025	47,65085
833	6,520429	0,535248	0,464373	1,861489
837	220,931479	18,135808	15,73434	63,07276
854	201,525804	17,834421	15,460376	62,857626
856	360,108809	29,695444	25,761994	103,361869
861	2345,532509	195,588563	169,660072	682,184687
870	13,233119	1,217877	1,055339	4,320414
873	2,056554	0,196105	0,169874	0,699614
876	23,428203	2,117701	1,835403	7,490409
877	0,011167	0,000876	0,000761	0,003022
879	1307,82903	119,309483	103,395475	422,643816
904	0,045607	0,00358	0,003107	0,012343
906	23,019387	2,007329	1,740389	7,057015
907	0,037329	0,00293	0,002543	0,010102
908	53,05866	4,351791	3,77558	15,132291
931	7,753087	0,718633	0,62268	2,55228
932	0,07695	0,006039	0,005242	0,020825
933	8,657594	0,697078	0,604906	2,415526
936	1,270699	0,129387	0,112012	0,466157
937	63,393833	5,082026	4,410263	17,595698
939	167,048914	15,52526	13,451948	55,162834
951	9,869723	0,888108	0,769756	3,138924
991	0	0	0	0
992	0	0	0	0
993	0	0	0	0
994	0	0	0	0
995	0	0	0	0
996	0	0	0	0
997	0	0	0	0
1001	0	0	0	0
1005	0	0	0	0
1006	0	0	0	0
1007	0	0	0	0
1016	46,491108	3,981877	3,453014	13,954937
1105	294,813092	24,411408	21,176913	85,034023
1109	35,234276	2,999217	2,60104	10,499636
1111	3,594253	0,291167	0,252649	1,01012
1143	30,110473	2,643245	2,291579	9,30332
1144	11,01227	0,966711	0,838097	3,402493
1145	10,523411	0,93619	0,811525	3,302546
1153	27,815446	2,529056	2,191793	8,954055
1155	0,013609	0,001068	0,000927	0,003683
1156	1,513106	0,128156	0,111148	0,448246
1174	218,007287	19,453399	16,862403	68,659704
1175	458,352683	39,949367	34,636972	140,435012
1176	259,431465	23,362498	20,248959	82,582857
1177	123,018545	11,026907	9,557794	38,948305
1179	5,408755	0,470409	0,407864	1,653027
1245	12,566321	1,115089	0,966626	3,931946
1250	0,103406	0,009015	0,007816	0,031692
1251	17,204335	1,625736	1,4084	5,791671
1254	0,098589	0,009524	0,008249	0,034044
1255	2,329537	0,200045	0,173471	0,701406
1261	190,895461	18,03167	15,621164	64,233656
1262	76,140718	6,511674	5,646898	22,814936
1263	59,959871	5,13655	4,454315	18,002295
1264	140,487602	13,301267	11,522868	47,400084
1268	312,546086	28,561207	24,751169	101,203837
1277	89,211665	8,202973	7,108265	29,095748
1285	0,652657	0,051224	0,044464	0,176631
1295	143,081514	12,383972	10,737963	43,480953
1296	72,706307	6,889426	5,968253	24,554155
1301	10,158974	0,879607	0,762691	3,08856

1302	12,577289	1,137205	0,985608	4,022542
1303	20,273256	1,891522	1,638857	6,724961
1304	36,516681	3,360825	2,912287	11,922568
1305	11,970659	1,201941	1,040665	4,321552
1306	41,261498	4,053925	3,510675	14,528852
1307	41,789675	3,572374	3,097963	12,515564
1308	26,283968	2,231538	1,935332	7,808537
1315	11,830816	1,252853	1,084232	4,538854
1316	41,74398	4,072386	3,526895	14,579415
1317	10,335368	0,978947	0,848057	3,488778
1318	29,465267	2,849438	2,467964	10,187569
1322	244,568153	23,645603	20,480045	84,53696
1323	69,936494	6,392423	5,539667	22,651769
1324	291,802909	25,933959	22,480748	91,470527
1325	28,838772	2,562628	2,221408	9,038287
1329	36,701323	3,259857	2,825812	11,496526
1374	93,514378	9,215354	7,980218	33,041756
1376	71,643481	6,769832	5,864807	24,117365
1380	20,59017	1,946194	1,686013	6,933584
1381	0,006151	0,000483	0,000419	0,001665
1382	42,828662	3,669362	3,181996	12,860415
1387	21,576512	2,038564	1,766041	7,262185
1389	0,005621	0,000693	0,000599	0,002559
1390	9,973341	0,85447	0,740979	2,994754
1393	0,00479	0,00059	0,00051	0,002181
1410	435,642659	39,492996	34,227422	139,755862
1414	464,299287	39,946111	34,638897	140,106748
1432	688,334518	64,20025	55,624722	228,239665
1437	0	0	0	0
1658	0	0	0	0
1659	0	0	0	0
1666	1,329322	0,118417	0,102647	0,417825
1667	22,699736	2,087833	1,809201	7,40584
1668	6,734819	0,627881	0,544014	2,232039
1669	11,127549	1,018488	0,882609	3,609854
1672	0,110758	0,009811	0,008505	0,034586
1673	116,522993	10,381955	8,999324	36,633217
1718	139,074721	11,667287	10,119927	40,738361
1721	8,290644	0,69587	0,603578	2,429971
1723	0,692934	0,060972	0,052858	0,214685
1724	5,149979	0,477157	0,413448	1,694549
1727	0,039974	0,003495	0,00303	0,012292
1728	208,410743	19,772928	17,128918	70,485131
1729	30,622465	2,530851	2,195561	8,812841
1820	234,081246	20,309342	17,609487	71,337539
1836	95,004468	8,041235	6,974104	28,122244
1837	13,916635	1,175796	1,019779	4,110733
1839	0,581813	0,053799	0,046617	0,190997
1840	5,896002	0,489377	0,424524	1,70543
1841	2,783978	0,229362	0,198983	0,798211
1846	133,657794	11,675206	10,122423	41,057806
1848	62,303168	5,555225	4,815363	19,604335
1930	96,099234	8,080707	7,008836	28,227015
1931	66,270404	5,573903	4,834535	19,471295
1933	152,957993	12,934134	11,217795	45,226245
1972	65,696837	5,516811	4,7851	19,266286
1975	444,055861	36,433645	31,609428	126,697426
1985	0,099189	0,009196	0,007968	0,032663
2002	2402,689922	234,598471	203,1727	839,987474
2013	59,311522	4,816081	4,178865	16,715404
2016	17,934268	1,483186	1,286682	5,165323
2022	2,399037	0,204062	0,176972	0,714285
2023	1,399366	0,122036	0,105807	0,429039

2024	3,279013	0,301223	0,261026	1,068269
2025	6,741272	0,589883	0,51142	2,075042
2026	0,710183	0,079973	0,069174	0,292111
2029	16,682266	1,449688	1,25695	5,093502
2030	0,968172	0,081173	0,070408	0,283399
2031	5,136109	0,51713	0,447731	1,860083
2037	9,268401	0,776957	0,67392	2,712508
2039	0,306254	0,027677	0,023988	0,097892
2040	0,800418	0,080445	0,06965	0,289277
2041	0,002611	0,000205	0,000178	0,000707
2044	0	0	0	0
2045	0	0	0	0
2046	0	0	0	0
2047	0	0	0	0
2048	0	0	0	0
2049	0	0	0	0
2050	0	0	0	0
2051	0	0	0	0
2052	0	0	0	0
2053	3,741081	0,307768	0,267008	1,070789
2054	0	0	0	0
2066	43,712346	3,699028	3,208147	12,935931
2072	0	0	0	0
2074	0	0	0	0
2077	0	0	0	0
2078	0	0	0	0
2079	0	0	0	0
2080	0	0	0	0
2081	0	0	0	0
2082	0	0	0	0
2247	153,897387	13,046515	11,314954	45,639832
2250	50,314311	4,39813	3,813158	15,468637
2251	73,512153	6,97547	6,04271	24,866228
2252	9,142147	0,764524	0,663153	2,667936
2253	115,835871	9,996423	8,668024	35,080134
2266	33,60731	3,131016	2,712821	11,129151
2271	92,163121	8,660267	7,502927	30,824802
2272	115,001273	11,005873	9,533386	39,286054
2273	253,506749	23,984333	20,77774	85,46022
2274	136,874617	13,379792	11,587369	47,915112
2291	70,336009	6,17484	5,353316	21,733573
2293	1,631599	0,145165	0,125834	0,512097
2294	4,367987	0,385361	0,334074	1,357498
2295	3,935228	0,344714	0,298859	1,21283
2297	10,376045	0,904635	0,784336	3,180252
2298	1,180056	0,105047	0,091058	0,370607
2299	1,713297	0,14779	0,128151	0,518593
2310	2,75102	0,215915	0,18742	0,744518
2311	124,602191	11,501594	9,966292	40,821484
2392	88,791787	8,281054	7,174918	29,439884
2440	12,524004	1,058693	0,918209	3,701675
2453	11,187302	0,941972	0,817011	3,291232
2455	20,536694	1,725883	1,496961	6,028123
2457	0	0	0	0
2460	37,918292	3,310419	2,870155	11,640547
2463	58,074691	4,830219	4,190012	16,839171
2466	6,392516	0,533089	0,462419	1,859358
2467	98,866866	8,244518	7,151569	28,755841
2471	36,193765	3,138799	2,721551	11,024302
2482	0	0	0	0
2486	0	0	0	0
2487	23,562004	2,022113	1,753503	7,089241
2493	99,887649	9,383693	8,129697	33,398353

2576	0	0	0	0
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2578	0	0	0	0
2579	0	0	0	0
2580	0	0	0	0
2581	0	0	0	0
2582	0	0	0	0
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2592	0	0	0	0
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2595	0	0	0	0
2596	0	0	0	0
2597	0	0	0	0
2598	0	0	0	0
2599	0	0	0	0
2600	0	0	0	0
2649	53,46923	4,745113	4,113344	16,732133
2650	0,028763	0,003339	0,002887	0,012243
2651	7,898748	0,685169	0,594086	2,406601
2652	0	0	0	0
2654	439,332852	38,05677	32,998187	133,639254
2655	8,016403	0,695375	0,602935	2,442448
2656	3,205744	0,275945	0,239282	0,967934
2657	127,168445	10,227497	8,875259	35,432805
2658	21,381617	1,839055	1,594724	6,449972
2660	4,59006	0,469879	0,40676	1,694189
2663	44,182002	4,097302	3,550206	14,55306
2666	446,7739	39,715861	34,427454	140,085347
2667	15,054838	1,302124	1,129061	4,571293
2672	10,506657	0,929264	0,805569	3,274879
3005	32,535731	2,969251	2,57319	10,518966
3026	363,479229	32,209792	27,921771	113,549508
3039	54,947296	4,873165	4,224375	17,181807
3041	242,645559	21,94144	19,016489	77,612878
3043	12,950986	1,148526	0,995618	4,049432
3045	0,00121	0,000095	0,000082	0,000327
3046	7,359647	0,665538	0,576816	2,354209
3047	0	0	0	0
3064	0	0	0	0
3065	0	0	0	0
3066	0,18617	0,014612	0,012683	0,050384
3085	0,326144	0,027427	0,023789	0,095807
3090	96,356609	8,368916	7,2563	29,401609
3109	0	0	0	0
3126	3,996645	0,369075	0,319808	1,310014
3128	2,957975	0,26094	0,226212	0,919189
3139	509,688449	43,434332	37,66752	152,084795
3140	4774,663316	407,610826	353,485236	1427,695721
3186	404,923095	32,649016	28,331476	113,166117
3187	623,307014	52,152956	45,237538	182,014249
3430	48,179664	4,044047	3,50769	14,121848
3434	10,874161	0,917273	0,795574	3,205985
3447	28,1417	2,329354	2,020724	8,113455
3535	0,469595	0,040354	0,034993	0,141508
3536	7,63577	0,694596	0,601965	2,459392
3537	1,494242	0,141943	0,122961	0,506087
3538	4,2324	0,397421	0,344313	1,414394
3542	12,650628	1,11698	0,968315	3,935277
3619	650,098675	63,66138	55,132074	228,04239

3620	858,876416	83,286674	72,134625	297,89943
3632	22,566553	1,976777	1,713818	6,955031
3636	131,847132	12,639483	10,948256	45,129165
3642	197,869631	18,857788	16,335439	67,27031
3670	58,858808	5,133659	4,450962	18,048674
3672	3,135655	0,272966	0,23667	0,95936
3912	10,364102	0,92667	0,803231	3,27173
3916	8,131065	0,687601	0,596357	2,404328
3917	12,000462	1,015055	0,880356	3,549485
4077	0,562941	0,050011	0,043352	0,176378
4078	0,050668	0,004701	0,004073	0,016697
4080	7,342217	0,672709	0,582955	2,384699
4081	0,125549	0,010918	0,009466	0,038365
4098	14,560064	1,283776	1,112928	4,521846
4256	147,104473	13,57916	11,766529	48,195451
4320	371,499305	36,410808	31,532259	130,44472
4321	25,24705	2,274237	1,971142	8,039476
4322	10,928866	1,082054	0,936985	3,882442
4466	0	0	0	0
4467	751,172094	63,348824	54,944132	221,402544
4468	156,68818	13,482849	11,691507	47,290982
4476	124,135771	10,633015	9,220753	37,265226
4477	51,277221	4,515938	3,914991	15,90335
4636	2,746702	0,218795	0,189888	0,75662
4637	0,205688	0,016143	0,014013	0,055666
4639	6,301476	0,562369	0,487467	1,984894
4642	0,032032	0,002514	0,002182	0,008669
4645	19,466305	1,598445	1,386781	5,559395
4646	17,924625	1,462458	1,268892	5,080376
4654	5,621859	0,511466	0,443257	1,811015
4661	1,715137	0,208176	0,179959	0,767454
4757	0	0	0	0
4767	0	0	0	0
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4769	0	0	0	0
4771	0	0	0	0
4802	0	0	0	0
4803	0	0	0	0
4804	0	0	0	0
4805	0	0	0	0
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4824	0	0	0	0
4825	0	0	0	0
4826	0	0	0	0
5060	0	0	0	0
5061	19,165604	1,859388	1,610409	6,651123

5064	0,544395	0,052062	0,045097	0,185818
5065	2,890164	0,257031	0,222805	0,906665
5068	129,708765	12,417719	10,756304	44,328095
5071	109,835933	9,776568	8,474645	34,491385
5075	147,183436	12,942747	11,220601	45,567483
5115	286,596117	25,760258	22,327595	91,030066
5116	344,502814	32,564351	28,210894	116,015962
5117	322,613684	28,859795	25,015322	101,901828
5278	1334,060698	121,391339	105,202352	429,838021
5281	570,432991	51,516995	44,649979	182,191697
5282	70,467853	6,821166	5,907915	24,391247
5283	225,403789	21,824571	18,902543	78,043906
5284	149,409494	14,461127	12,525012	51,709561
5285	355,239504	32,166654	27,878224	113,807906
5287	2235,701713	211,917291	183,581613	755,319203
5292	0,977553	0,088057	0,076322	0,311285
5294	16,874751	1,324422	1,149635	4,56687
5296	13,865664	1,088253	0,944634	3,75251
5302	0,39667	0,042429	0,036715	0,153923
5303	226,526144	18,723592	16,24305	65,199853
5468	7,227656	0,656656	0,569092	2,324582
5509	0,394502	0,030963	0,026876	0,106765
5535	253,638905	22,137583	19,193487	77,839497
5664	6,118297	0,550177	0,476861	1,944326
5666	4,056988	0,35999	0,312061	1,269362
5667	9,281236	0,820866	0,7116	2,892856
5668	0,445543	0,036806	0,03193	0,128153
5672	416,687149	36,74035	31,850838	129,410916
5674	365,704104	32,932915	28,543916	116,412983
5683	200,727303	17,595177	15,254491	61,913556
5710	3,862175	0,324373	0,28135	1,132835
5718	6,880027	0,580856	0,503786	2,03048
5720	6,044768	0,487981	0,423444	1,691799
5721	56,36268	4,773795	4,140247	16,69719
5723	3,299863	0,279113	0,242075	0,976011
5763	39,62318	3,793523	3,285971	13,542012
5767	53,382163	5,110691	4,42691	18,243935
5768	5,920583	0,535151	0,463813	1,892844
5769	37,214043	3,339606	2,894636	11,798165
5771	86,866533	8,346092	7,229188	29,809952
5772	6,937149	0,644319	0,558277	2,289097
5783	8208,343798	691,501394	599,764609	2416,31831
5787	423,844115	41,103882	35,600065	147,021838
5788	2303,278748	226,668697	196,290723	812,55807
5789	2624,703963	249,091959	215,78309	887,986466
5790	421,252652	38,146858	33,061128	134,967909
5791	114,420654	10,576467	9,164531	37,54645
5792	234,701873	22,094094	19,141149	78,662807
5797	38,009713	3,239038	2,808989	11,34142
5799	19,12319	1,724677	1,494805	6,097988
5800	59,872675	5,116111	4,436712	17,92265
5803	360,169166	31,860558	27,61953	112,284944
5806	285,847164	26,956285	23,353092	96,000663
5808	184,801307	16,342091	14,166809	57,590556
5817	0,526412	0,04305	0,037351	0,149614
5855	10,641373	0,966431	0,837562	3,420976
5856	115,456723	10,479637	9,08228	37,092387
5857	466,698941	42,346221	36,699897	149,874806
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5972	304,972086	25,770832	22,351248	90,100757
5985	105,259597	9,020731	7,822569	31,617532
5988	25,1176	2,359851	2,044488	8,399295
5989	15,924065	1,503774	1,30275	5,35663
6000	152,509275	14,38469	12,461896	51,230314
6001	29,854118	2,697407	2,337843	9,540193
6006	298,465528	27,424596	23,764878	97,263334
6007	66,472853	6,213711	5,383599	22,098362
6008	25,165991	2,329349	2,018359	8,270982
6009	16,024293	1,461237	1,266336	5,175954
6010	72,807515	6,861325	5,944225	24,432943
6011	232,92373	21,184323	18,35923	75,00617
6012	362,356898	32,611588	28,265588	115,265441
6013	4,213907	0,452987	0,391969	1,644461
6014	23,629388	2,446962	2,118042	8,837228
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6072	3,548482	0,315122	0,273165	1,111305
6074	0,89496	0,080392	0,06968	0,284054
6077	0,340214	0,030213	0,02619	0,106547
6120	97,491722	8,698637	7,540074	30,700873
6121	114,213421	10,7876	9,345501	38,427876
6174	100,23284	8,635491	7,488075	30,29541
6350	0,118271	0,009283	0,008058	0,032008
6384	14,679906	1,352847	1,17228	4,800263
6385	58,096916	5,353646	4,639087	18,995965
6386	190,602032	17,795246	15,418098	63,274466
6399	44,070106	3,604254	3,127123	12,52626
6401	22,035515	1,943217	1,684606	6,84479
6446	1523,917661	123,424244	107,097075	428,167403
6447	94,834122	7,644794	6,633855	26,496824
6448	46,723822	3,706852	3,217249	12,808748
6449	62,419631	5,221308	4,528983	18,221506
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6617	0	0	0	0
6680	81,666954	7,24144	6,277362	25,531014
6682	3,359149	0,321859	0,278794	1,149104
6691	2,349192	0,223641	0,193729	0,797643
6692	10,909084	0,913271	0,792168	3,187636
6693	13,719719	1,171746	1,016148	4,104461
6694	9,507061	0,82994	0,719564	2,91831
6695	5,917041	0,520337	0,451101	1,831957
6696	8,029953	0,712492	0,617631	2,512301
6697	0,070441	0,006689	0,005795	0,023849
6704	10,58659	0,845854	0,734073	2,926763
6705	10,102312	0,836893	0,726002	2,915461
6710	25,077675	2,225554	1,929242	7,847736
6722	730,136825	64,717326	56,101501	228,15826
6769	113,8587	9,975854	8,648809	35,100013
6856	3,318001	0,280473	0,243256	0,980659
6857	0	0	0	0
6858	1,976584	0,166977	0,144821	0,583758
6859	644,17251	57,064325	49,467644	201,157994
6943	201,987208	17,785663	15,418912	62,632181
6960	2,935349	0,26013	0,2255	0,917048
6961	3,175079	0,283193	0,245476	0,999439
6962	4,10369	0,376182	0,32599	1,333647
6963	4,04758	0,371321	0,321775	1,316577
6964	6,019307	0,54409	0,47156	1,92447
6965	7,319574	0,66201	0,573758	2,341789
6966	7,655712	0,692361	0,600064	2,449121
6967	0,242041	0,021505	0,018642	0,075847
6969	35,284495	3,154373	2,734191	11,136652
6970	32,667842	2,903151	2,516587	10,239457
6971	55,702587	5,101763	4,421093	18,084276
6973	12,079311	1,070018	0,927573	3,771912
6986	114,380976	10,152604	8,800859	35,801059
6987	110,802516	10,169492	8,812508	36,060143
6989	0,694933	0,06905	0,059791	0,247885
6990	3,952268	0,366431	0,317504	1,301463
6993	0,21584	0,018206	0,015791	0,063633
6994	4,796548	0,420592	0,36464	1,480056
7051	211,949226	20,560325	17,807247	73,544048
7174	46,996536	4,248669	3,6823	15,0281
7252	180,016319	16,926253	14,664174	60,252259
7413	72,34927	6,417081	5,562737	22,625688
20487	0	0	0	0
20490	0	0	0	0
20493	0	0	0	0
20496	0	0	0	0
20502	0,97951	0,076877	0,066732	0,265088
20505	3746,576217	303,794762	263,603818	1054,117025
20538	0	0	0	0
20552	0	0	0	0
20555	38,111559	3,575733	3,097926	12,724144
20615	68,964605	5,895263	5,112374	20,653551
20628	8,477413	0,751695	0,65162	2,650239
20634	313,222489	27,842091	24,134764	98,203275
20660	59,89359	5,237633	4,540984	18,422548
20662	102,810992	9,123052	7,908408	32,169015
20679	102,136895	8,891936	7,709594	31,251866
20703	0,603553	0,052408	0,04544	0,18411
20714	81,868869	7,369023	6,386978	26,04632

20716	44,041821	4,078864	3,534277	14,484468
20722	5,11747	0,429014	0,37212	1,497788
20724	27,99297	2,499705	2,166753	8,823648
20727	38,343231	3,269636	2,835504	11,449912
20747	4,675903	0,392035	0,340044	1,368711
20750	0,580901	0,058488	0,050639	0,210378
20757	14,723658	1,192451	1,034708	4,136672
20758	0,222489	0,017462	0,015158	0,060213
20767	111,170821	10,353783	8,970907	36,800435
20770	48,504416	4,57445	3,962989	16,291385
20773	141,19825	12,501969	10,837701	44,067138
20778	335,044279	30,265166	26,230878	107,037722
20779	289,905084	25,955567	22,497779	91,660088
20781	12,285807	1,10951	0,961617	3,923794
20784	4,819178	0,438471	0,379996	1,552569
20790	65,533488	5,815463	5,041189	20,506209
20806	63,74297	5,310828	4,606833	18,520512
20853	1320,149049	106,451744	92,374376	368,982023
20859	16,828809	1,349755	1,171332	4,673744
20861	4,26243	0,341887	0,296693	1,183852
20863	15,880762	1,311643	1,137883	4,566809
20865	7,293006	0,650293	0,563685	2,294888
20867	17,415011	1,624712	1,407688	5,776293
20869	8,016853	0,667164	0,578733	2,326118
20895	235,389268	21,068457	18,261783	74,397946
20912	70,816787	6,07827	5,270849	21,309983
20917	179,109845	14,295614	12,406584	49,454728
20928	10,777695	0,96725	0,838373	3,417135
20932	298,406614	26,680511	23,126468	94,198761
20935	130,381618	11,800739	10,227521	41,748806
20950	2,955538	0,258142	0,22381	0,907784
20953	70,386429	6,711825	5,814045	23,944771
20955	93,321665	8,930012	7,735266	31,875561
20966	2,787398	0,242909	0,210608	0,853882
20968	7,224834	0,681008	0,589982	2,425127
20970	42,427695	3,886404	3,367881	13,776456
20972	4,188858	0,387586	0,335841	1,376155
21005	81,964226	6,886604	5,973178	24,052367
21009	76,883541	6,244233	5,418045	21,673012
21013	0,634066	0,078158	0,067556	0,288656
21017	200,234829	15,930822	13,826221	55,077872
21019	50,232385	4,050059	3,514476	14,037954
21022	1,123191	0,088154	0,07652	0,303973
21026	31,197376	2,583604	2,241275	8,999889
21028	29,515907	2,494797	2,163751	8,722782
21031	0,126603	0,015606	0,013489	0,057635
21033	0	0	0	0
21035	26,743168	2,138608	1,855971	7,401099
21037	88,189438	7,368284	6,39136	25,708636
21039	91,64928	7,736028	6,709599	27,041579
21041	44,489245	3,797159	3,292952	13,299374
21043	0,270587	0,026886	0,023281	0,096519
21045	52,634642	4,351276	3,774802	15,15262
21047	0,541271	0,053782	0,04657	0,193073
21049	164,66172	13,675443	11,863063	47,662847
21081	4,314973	0,358299	0,310815	1,248733
21097	3,546615	0,282145	0,244872	0,975447
21099	0,080347	0,00773	0,006696	0,027615
21121	228,544335	19,041127	16,51707	66,402127
21148	18,188502	1,492633	1,294989	5,19081
21152	15,587824	1,243643	1,079313	4,301973
21154	17,84517	1,42568	1,237276	4,932954
21165	37,391871	3,014244	2,615643	10,447356

21225	1,29603	0,10539	0,091445	0,365883
21228	1,621316	0,134288	0,116494	0,467798
21232	20,369008	1,698326	1,473186	5,923388
21236	5,130281	0,435921	0,378055	1,525582
21240	20,328688	1,637547	1,421011	5,674947
21247	176,327475	14,474027	12,55744	50,337596
21250	12,047312	0,988561	0,857663	3,437776
21261	0,082589	0,006482	0,005627	0,022351
21263	0	0	0	0
21267	4,533395	0,365456	0,317128	1,266673
21271	0,212549	0,017134	0,014869	0,059388
21276	0,009911	0,000778	0,000675	0,002682
21278	0,130639	0,010552	0,009156	0,036585
21280	0,288366	0,025735	0,022307	0,090832
21299	2,090216	0,176539	0,153115	0,617166
21307	1,444159	0,113345	0,098387	0,390838
21309	0	0	0	0
21311	13,140978	1,049306	0,910646	3,630312
21313	5,868951	0,494624	0,429004	1,728496
21315	6,090261	0,517458	0,448769	1,810918
21317	4,05508	0,324753	0,281829	1,124189
21319	4,24879	0,358383	0,310835	1,252583
21321	15,4112	1,367297	1,185257	4,821121
21323	6,652456	0,532506	0,462125	1,843192
21325	15,552227	1,269525	1,101489	4,410563
21327	0,997621	0,080023	0,069445	0,2771
21340	0,46511	0,037117	0,032212	0,128399
21351	166,565162	13,430384	11,654334	46,551751
21368	4,143677	0,386642	0,334995	1,374654
21371	2,379168	0,214281	0,185723	0,757469
21373	5,211201	0,462955	0,401313	1,632757
21390	34,879017	3,176892	2,753189	11,250961
21407	4,146058	0,398103	0,344829	1,421777
21411	33,47266	2,927644	2,538238	10,297825
21413	3,580372	0,31894	0,276465	1,125356
21417	0,295204	0,026067	0,022597	0,091838
21427	24,318117	2,197679	1,904724	7,773026
21447	0,3846	0,036222	0,031381	0,128973
21449	3,459691	0,310638	0,269247	1,097518
21451	0,33862	0,032022	0,027741	0,114091
21463	15,742745	1,507347	1,305672	5,380963
21466	5,242675	0,474131	0,410925	1,677163
21469	14,447668	1,309633	1,135022	4,634398
21536	11,232661	0,918601	0,796997	3,192477
21587	27,667072	2,42916	2,105973	8,55006
21758	15,054559	1,285118	1,114471	4,501196
21759	16,805644	1,627007	1,409173	5,818017
21760	25,072778	2,466627	2,136058	8,841883
21768	16,457776	1,699777	1,471328	6,136447
21769	14,077531	1,401811	1,213809	5,034023
21770	54,136547	5,146302	4,458061	18,350812
21775	17,052886	1,600333	1,386485	5,694956
21776	115,788274	9,927749	8,609069	34,799525
21778	387,597518	37,9235	32,842798	135,828897
21786	23,356518	2,218299	1,921651	7,908948
21787	45,012635	4,499081	3,895559	16,165528
21788	28,830458	2,76001	2,390739	9,852488
21795	1,095537	0,094167	0,081657	0,330227
21796	0,557663	0,050109	0,043432	0,177061
21797	4,635697	0,432912	0,375082	1,539366
21804	0,389787	0,035403	0,030683	0,125323
21805	0,508779	0,045926	0,039804	0,162404
21806	3,292264	0,290366	0,251723	1,022807

21813	0,907971	0,080992	0,070205	0,285842
21814	0,414887	0,038165	0,033072	0,135381
21815	7,458014	0,694315	0,601583	2,467644
21832	0	0	0	0
21833	0	0	0	0
21834	0	0	0	0
21841	192,948563	16,882545	14,636939	59,387376
21844	51,418404	4,218946	3,660309	14,671445
21847	6,202471	0,504759	0,437963	1,752622
21848	2,918856	0,251062	0,217706	0,880534
21854	0,186042	0,01532	0,013291	0,053312
21855	0,952515	0,08041	0,069741	0,281081
21856	13,395026	1,10119	0,955359	3,830765
21863	0,956355	0,079754	0,069181	0,278174
21864	0,323898	0,032683	0,028297	0,117598
21865	6,169086	0,532221	0,461497	1,867608
21872	1,14156	0,098587	0,085485	0,346011
21873	5,175119	0,463775	0,401987	1,638045
21874	13,235839	1,163158	1,008396	4,094673
21881	4,021111	0,367095	0,318128	1,300556
21882	1,257618	0,11451	0,099238	0,405515
21883	1,946108	0,177423	0,153759	0,628441
21890	2,808824	0,228884	0,198592	0,794924
21891	3,78204	0,356725	0,309041	1,270457
21892	14,985466	1,404004	1,21641	4,994993
21899	1,963607	0,193121	0,16724	0,692232
21901	0,470114	0,039276	0,034068	0,137034
21903	6,567871	0,623496	0,54012	2,2228
21910	3,862433	0,402811	0,348643	1,456203
21911	7,152712	0,580275	0,503504	2,013648
21912	10,766448	0,934496	0,810264	3,282693
21919	8,268485	0,68564	0,594783	2,388968
21920	2,033872	0,17653	0,153062	0,620111
21921	4,150613	0,366097	0,317375	1,289584
21928	440,578529	37,35376	32,396051	130,674952
21931	38,389882	3,159167	2,740767	10,992002
21934	3,705892	0,304591	0,264255	1,059555
21935	2,736132	0,243747	0,211286	0,86005
21942	2,997858	0,268953	0,233119	0,950115
21943	5,570008	0,494575	0,428725	1,744121
21944	7,846897	0,700981	0,60761	2,474536
21951	0,15521	0,013783	0,011948	0,048608
21954	0,401119	0,035999	0,031202	0,127177
21955	0,132321	0,011751	0,010186	0,04144
21960	0,178612	0,016469	0,014271	0,058441
21961	0,517942	0,04618	0,04003	0,16297
21962	0,532448	0,047426	0,04111	0,167337
21969	0,170407	0,016709	0,014471	0,059867
21970	0,568411	0,050132	0,04346	0,176589
21971	7,937292	0,680333	0,589968	2,384622
21978	0,354737	0,031206	0,027054	0,109876
21979	0,775764	0,070866	0,061413	0,251094
21980	3,396094	0,299935	0,260014	1,05676
21987	6,688758	0,598207	0,51852	2,112138
21988	4,550196	0,439051	0,380281	1,569203
21989	100,394318	8,923071	7,734923	31,472489
21992	279,807929	24,120553	20,915476	84,629329
22002	10,300449	0,916493	0,794449	3,233144
22005	4,664492	0,451293	0,390873	1,61362
22006	7,031639	0,622105	0,539294	2,192512
22011	1,007616	0,089349	0,077453	0,315017
22012	0,568646	0,054381	0,047106	0,194096
22016	25,663776	2,487833	2,15472	8,898018

22023	31,835133	2,950259	2,55634	10,477758
22026	15,464623	1,283174	1,113129	4,471471
22027	9,410746	0,882115	0,76425	3,138516
22032	161,800843	14,858059	12,875381	52,689973
22035	186,583928	16,636352	14,420675	58,709348
22038	1,862956	0,164808	0,14287	0,580831
22039	1,958096	0,170014	0,147412	0,597258
22040	5,604986	0,471611	0,409051	1,647593
22042	2,179679	0,211997	0,183606	0,758615
22052	77,455253	7,024683	6,088061	24,86036
22055	9,337223	0,852228	0,738551	3,01919
22057	11,696963	1,076424	0,932765	3,818564
22060	20,218293	1,887267	1,635163	6,71033
22064	187,196619	16,357046	14,18154	57,525396
22067	337,672664	29,764841	25,803727	104,835841
22070	3,981761	0,340905	0,295628	1,194662
22073	5,232581	0,472779	0,409758	1,672125
22077	87,801436	7,738552	6,708711	27,255709
22080	3,940533	0,370119	0,320658	1,317287
22081	5,062109	0,438322	0,380061	1,539091
22086	11,791511	1,091237	0,945548	3,87463
22089	6,203677	0,558823	0,484347	1,975451
22090	6,224193	0,617044	0,534311	2,214395
22097	24,323044	2,104207	1,824536	7,3874
22100	29,726281	2,568367	2,227035	9,014956
22103	0,482323	0,040346	0,034996	0,140802
22104	0,42433	0,039921	0,034585	0,142119
22113	6,351358	0,526884	0,457063	1,835954
22116	26,961905	2,302808	1,997014	8,066475
22119	0,511959	0,042651	0,036998	0,148736
22120	0,36684	0,030253	0,026246	0,105304
22128	13,014775	1,09308	0,9481	3,817463
22131	7,117301	0,595935	0,516911	2,080085
22134	0,320554	0,027324	0,023696	0,09568
22135	0,42939	0,035024	0,030389	0,121663
22147	5,380661	0,466701	0,404661	1,639228
22148	2,034878	0,18755	0,162517	0,66549
22183	2,893971	0,29892	0,258745	1,079161
22186	0	0	0	0
22191	0	0	0	0
22194	0	0	0	0
22202	4,654492	0,400082	0,346931	1,403017
22205	0,710723	0,060376	0,052362	0,211288
22206	0,973976	0,086173	0,074702	0,303704
22251	41,444963	3,452635	2,994964	12,040158
22260	1227,337432	103,565681	89,824724	361,99728
22269	6914,846419	578,274396	501,598774	2017,99241
51247	516,471905	50,098128	43,389888	179,198959
51253	1322,914845	124,474778	107,838843	443,140445
51256	353,689758	34,519639	29,89566	123,590773
51259	132,978048	12,038988	10,433979	42,593586
57661	4,77623	0,429772	0,372499	1,51898
57664	1,92904	0,211373	0,182871	0,769312
57665	2,267472	0,190251	0,165019	0,664314