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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

Working Party on Transport Statistics

Ad hoc Group of Experts on the E-Road Traffic Census

Ninth session

Geneva, 10 November 2008

Item 5 of the provisional agenda

**DRAFT RECOMMENDATIONS TO GOVERNMENTS ON THE E-ROAD TRAFFIC  
CENSUS OF MOTOR TRAFFIC AND INVENTORY OF STANDARDS AND PARAMETERS  
ON MAIN INTERNATIONAL TRAFFIC ARTERIES IN EUROPE IN 2010  
("2010 E-ROAD TRAFFIC CENSUS")**

Addendum

2010 E-Road Traffic Census Tables<sup>1</sup>

Each country should provide data in accordance with the following tables for the census year 2010.

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<sup>1</sup> For all definitions, consult document ECE/TRANS/WP.6/AC.2/2008/1/Add.2.

**Table 1**  
**Total length of E Roads by width and number of carriageways and lanes**  
**at the end of 2005 and 2010**

(All E roads)

Country:

Unit: km

E ROADS		2005	2010
<b>1. All E Roads</b>			
Of which since 2005 have become motorways <sup>1</sup>			
<b>By total number of lanes</b>			
<b>Ordinary road</b>			
	- With 1 lane		
	- With 2 lanes		
	- With 3 lanes		
	- With 4 lanes		
	- With 5 lanes and over		
	- unknown		
<b>Express road</b>			
	- With 1 lane		
	- With 2 lanes		
	- With 3 lanes		
	- With 4 lanes		
	- With 5 lanes and over		
	- unknown		
<b>Motorway</b>			
	- With 2 lanes		
	- With 3 lanes		
	- With 4 lanes		
	- With 5 lanes		
	- With 6 lanes		
	- With 7 lanes and over		
	- unknown		

<sup>1</sup> The total length should be given for roads that have, since 2005, become motorways as a result of an upgrading of an E Road or a change in the rating of an E Road.

**Symbols to be employed :**

- ... Not available
- Magnitude zero
- 0 Magnitude not zero, but less than half the unit employed

**Table 1 (continued)**  
**Length of E Roads by width and number of carriageways and lanes at the end of 2005 and 2010**  
(Sections of single carriageway roads)

Country:		Unit: km	
E ROADS	Number of lanes	2005	2010 <sup>1</sup>
<b>2. Sections of single carriageway roads <sup>1</sup></b>			
<b>2.1 By number of lanes</b>			
- With 1 lane			
- With 2 lanes			
- With 3 lanes			
- With 4 lanes			
- With 5 lanes and over			
- unknown			
<b>2.2 By width of carriageway</b>			
<b>a) Total by width of carriageway up to 5.99m</b>			
- Ordinary road	1		
	2		
<b>b) Total by width of carriageway of 6m - 6.99m</b>			
- Ordinary road	2		
<b>c) Total by width of carriageway of 7m - 8.99m</b>			
- Ordinary road	2		
	3		
- Express road	2		
- Motorway	2		
<b>d) Total by width of carriageway of 9m -10.49m</b>			
- Ordinary road	2		
	3		
- Express road	2		
	3		
- Motorway	2		
	3		
<b>e) Total by width of carriageway of 10.50m -11.99m</b>			
- Ordinary road	3		
	4		
- Express road	2		
	3		
- Motorway	2		
	3		
<b>f) Total by width of carriageway of 12m -13.99m</b>			
- Ordinary road	3		
	4		
- Express road	3		
	4		
- Motorway	3		
	4		
<b>g) Total by width of carriageway of 14m and over</b>			
- Ordinary road	3		
	4		
	5 and >		
- Express road	4		
	5 and >		
- Motorway	4		
	5 and >		

<sup>1</sup> Motorways could also, at special points temporarily, have only one carriageway and would then constitute a subdivision of this section.

Table 1 (continued)

## Length of E Roads by width and number of carriageways and lanes at the end of 2005 and 2010

(Sections of roads with two carriageways separated by a central strip)

Country:

Unit: km

E ROADS		Number of lanes in each carriageway	2005	2010
<b>3. Sections of roads with two carriageways separated by a central strip<sup>1,2</sup></b>				
<b>3.1 By total number of lanes</b>				
	- With 2 lanes			
	- With 3 lanes			
	- With 4 lanes			
	- With 5 lanes			
	- With 6 lanes			
	- With 7 lanes and over			
	- unknown			
<b>3.2 By width of each carriageway</b>				
<b>a) Total by width of each carriageway up to 6m - 6.99m</b>				
	- Ordinary road	2		
<b>b) Total by width of each carriageway of 7m - 8.99m</b>				
	- Ordinary road	2		
		3		
	- Express road	2		
	- Motorway	2		
<b>c) Total by width of each carriageway of 9m -10.49m</b>				
	- Ordinary road	2		
		3		
	- Express road	2		
		3		
	- Motorway	2		
		3		
<b>d) Total by width of each carriageway of 10.50m -11.99m</b>				
	- Ordinary road	3		
		4		
	- Express road	2		
		3		
	- Motorway	2		
		3		
<b>e) Total by width of each carriageway of 12m -13.99m</b>				
	- Ordinary road	3		
		4		
	- Express road	3		
		4		
	- Motorway	3		
		4		
<b>f) Total by width of each carriageway of 14m and over</b>				
	- Ordinary road	3		
		4		
		5 and >		
	- Express road	4		
		5 and >		
	- Motorway	4		
		5 and >		

<sup>1</sup> Roads with different numbers of lanes in each carriageway should be classified according to the smaller number of lanes. The length of these road sections should be indicated.

<sup>2</sup> For section 3, the number of lanes of the two carriageways should be indicated, while for the subdivision by width of each carriageway only the number of lanes of one carriageway should be indicated.

**Table 2**  
**Length of E Road sections by average annual daily traffic (AADT)**

Country:

Average Annual Daily Traffic (AADT)		Length of road section (km)	
		2000	2005
1	Up to 999		
2	1 000 - 1 999		
3	2 000 - 3 999		
4	4 000 - 5 999		
5	6 000 - 9 999		
6	10 000 - 14 999		
7	15 000 - 19 999		
8	20 000 - 24 999		
9	25 000 - 29 999		
10	30 000 - 39 999		
11	40 000 - 49 999		
12	50 000 - 59 999		
13	60 000 - 79 999		
14	80 000 - 99 999		
15	100 000 - 119 999		
16	120 000 - 149 999		
17	150 000 and over		
18	Unknown <sup>1</sup>		
19	TOTAL		

<sup>1</sup> Road sections where no counts were taken (such as in built-up and peripheral urban areas) should be inserted under "unknown" in this table. However, where countries have established counts covering the total E Road network, including in these areas, the total of these figures should be given. In both cases the totals of tables No.1 and No.2 should coincide.



Table 4

Distribution of motor traffic by vehicle category in 2010

Country:

Vehicle category		code	E Roads and number of corresponding counting posts											
			Total E Roads		E .....		E .....		E .....		E .....		E .....	
			All counting posts <sup>1</sup>		Counting posts <sup>1</sup>		Counting posts <sup>1</sup>		Counting posts <sup>1</sup>		Counting posts <sup>1</sup>		Counting posts <sup>1</sup>	
			.....		.....		.....		.....		.....		.....	
			Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)
1	All Motor vehicles	a												
1.1	Light motor vehicles	a												
	(total categories A and B)	b												
1.11	Category A	a												
		c												
1.12	Category B	a												
		c												
1.2	Heavy motor vehicles	a												
	(total categories C and D)	b												
1.21	Category C	a												
		d												
1.22	Category D	a												
		d												

<sup>1</sup> Insert number of posts. The number of counting posts common to two or more E Roads should be stated in a footnote.

**Vehicles categories:**

**A** = Motor vehicles with not more than 3 wheels (motor cycles with or without sidecars, including motor scooters, and motor tricycles).

**B** = Passenger and light goods vehicles (vehicles including station wagons, with not more than nine seats, including the driver's seat, and light van with a permissible maximum weight of not more than 3.5 tonnes). Passenger and light goods vehicles are recorded as such, irrespective of whether they are with or without trailers, including caravans and recreational vehicles.

**C** = Goods road vehicles (lorries with a permissible maximum weight of more than 3.5 tonnes, lorries with one or more trailers; tractors with semi-trailers; tractors with semi-trailers and one or more trailers; and tractors without trailers or semi-trailers) and Special vehicles (agricultural tractors, special vehicles such as self-propelled rollers, bulldozers, Mobile cranes and army tanks and other road motor vehicles not specified elsewhere).

**D** = Motor buses, coaches and trolley buses.

**Explanation of code:**

**a** = Daily average of motor vehicles

**b** = Percentage of daily average of all motor vehicles

**c** = Percentage of the daily average of the light motor vehicles

**d** = Percentage of the daily average of the heavy motor vehicles



Table 4 - bis

Distribution of motor traffic by vehicle category in 2010

Country:

Vehicle category		code	E Roads and number of corresponding counting posts											
			All E Roads						E .....					
			Number of counting posts <sup>1</sup> .....		Number of counting posts <sup>1</sup> .....		Number of counting posts <sup>1</sup> .....		Number of counting posts <sup>1</sup> .....		Number of counting posts <sup>1</sup> .....		Number of counting posts <sup>1</sup> .....	
			Night traffic <sup>2</sup> (Veh/8h)		Holiday traffic <sup>3</sup> (Veh/24h)		Peak-hour traffic <sup>4</sup> (Veh/h)		Night traffic <sup>2</sup> (Veh/8h)		Holiday traffic <sup>3</sup> (Veh/24h)		Peak-hour traffic <sup>4</sup> (Veh/h)	
			Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)	Average number per post in 2010	Change over 2005 (%)
1	All Motor vehicles	a												
1.1	Light motor vehicles (total categories A and B)	a												
		b												
1.11	Category A	a												
		c												
1.12	Category B	a												
		c												
1.2	Heavy motor vehicles (total categories C and D)	a												
		b												
1.21	Category C	a												
		d												
1.22	Category D	a												
		d												

For explanation of categories of motor vehicles and codes, see table 4 of this document.

**Footnotes:**

- <sup>1</sup> Insert number of posts. The number of counting posts common to two or more E Roads should be stated in a footnote.
- <sup>2</sup> Night traffic is, in principle, defined as the average annual daily traffic flow (AADT) between 10 p.m. and 6 a.m.
- <sup>3</sup> Holiday traffic is defined in principle as the average daily traffic (ADT) during the approximate two-months' vacation period, (in exceptional cases one month).
- <sup>4</sup> Peak-hour traffic is, in principle, defined as the traffic at the fiftieth highest hour of the year.

**Explanation of code:**

- a = Daily average of motor vehicles
- b = Percentage of daily average of all motor vehicles
- c = Percentage of the daily average of the light motor vehicles
- d = Percentage of the daily average of the heavy motor vehicles

**Table 4 - bis (continued)**  
**Distribution of motor traffic by vehicle category in 2010**

Country:

Vehicle category		code	E Roads and number of corresponding counting posts												
			E .....						E .....						
			Number of counting posts <sup>1</sup>		Number of counting posts <sup>1</sup>		Number of counting posts <sup>1</sup>		Number of counting posts <sup>1</sup>		Number of counting posts <sup>1</sup>		Number of counting posts <sup>1</sup>		
			.....		.....		.....		.....		.....		.....		
			Night traffic <sup>2</sup> (Veh/8h)		Holiday traffic <sup>3</sup> (Veh/24h)		Peak-hour traffic <sup>4</sup> (Veh/h)		Night traffic <sup>2</sup> (Veh/8h)		Holiday traffic <sup>3</sup> (Veh/24h)		Peak-hour traffic <sup>4</sup> (Veh/h)		
Average number per post in 2010		Change over 2005 (%)		Average number per post in 2010		Change over 2005 (%)		Average number per post in 2010		Change over 2005 (%)		Average number per post in 2010		Change over 2005 (%)	
1	All Motor vehicles	a													
1.1	Light motor vehicles (total categories A and B)	a													
		b													
1.11	Category A	a													
		c													
1.12	Category B	a													
		c													
1.2	Heavy motor vehicles (total categories C and D)	a													
		b													
1.21	Category C	a													
		d													
1.22	Category D	a													
		d													

For explanation of categories of motor vehicles and codes, see table 4 of this document.

**Footnotes:**

- <sup>1</sup> Insert number of posts. The number of counting posts common to two or more E Roads should be stated in a footnote.
- <sup>2</sup> Night traffic is, in principle, defined as the average annual daily traffic flow (AADT) between 10 p.m. and 6 a.m.
- <sup>3</sup> Holiday traffic is defined in principle as the average daily traffic flow (ADT) in the two months' period, (in exceptional cases one month).
- <sup>4</sup> Peak-hour traffic is, in principle, defined as the traffic at the fiftieth highest hour of the year.

**Explanation of code:**

- a** = Daily average of motor vehicles
- b** = Percentage of daily average of all motor vehicles
- c** = Percentage of the daily average of the light motor vehicles
- d** = Percentage of the daily average of the heavy motor vehicles

**Table 5**  
**Length and usage of roads <sup>1, 2</sup>**

Country:

			Vehicles kilometre (million per annum)					
			Length (km)	Total	of which <sup>3</sup>			
					Vehicles category A	Vehicles category B	Vehicles category C	Vehicles category D
<b>1</b>	<b>Total length</b>	<b>2005</b>						
		<b>2010</b>						
<b>By type of road</b>								
<b>1.1</b>	<b>All E Roads</b>	<b>2005</b>						
		<b>2010</b>						
<b>1.11</b>	<b>- Motorways</b>	<b>2005</b>						
		<b>2010</b>						
<b>1.12</b>	<b>- Express roads</b>	<b>2005</b>						
		<b>2010</b>						
<b>1.13</b>	<b>- Other E Roads</b>	<b>2005</b>						
		<b>2010</b>						
<b>1.2</b>	<b>Total non E Roads</b>	<b>2005</b>						
		<b>2010</b>						
<b>1.21</b>	<b>- Motorways</b>	<b>2005</b>						
		<b>2010</b>						
<b>1.22</b>	<b>- Express roads</b>	<b>2005</b>						
		<b>2010</b>						
<b>1.23</b>	<b>- Other non E Roads*</b>	<b>2005</b>						
		<b>2010</b>						

<sup>1</sup> Data for rows 1 and 1.1 should be based on the 2005/2010 E-Road Traffic Census results; data for rows 1.2, 1.21, 1.22 and 1.23 may be estimated.

<sup>2</sup> The method used for estimating vehicle-kilometre should be described in a note.

<sup>3</sup> For explanation of categories of motor vehicles A-D, see table 4 of this document.

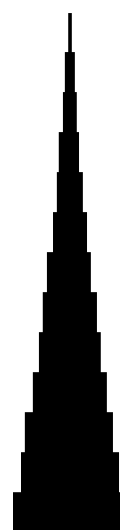
\* Each country must indicate which network (e.g. communal, regional, national) it has used.

Table 6

**Symbols to be used for the presentation of results of the 2010 E-Road Traffic Census and data to be given on maps with respect to counting posts**

**SYMBOLS**

Motor vehicles Category (A) - (D) per day	Colour	Width in mm.
Up to 999	Red	0.5
1 000 - 1 999	"	1
2 000 - 5 999	"	1.5
6 000 - 999	"	2.5
10 000 - 14 999	"	3.5
15 000 - 24 999	"	4.5
25 000 -39 999	"	6
40 000 - 59 999	"	7.5
60 000 - 79 999	"	9
80 000 - 99 999	"	10.5
100 000 - 119 999	"	12
120 000 - 149 999	"	14
150 000 and over	"	16



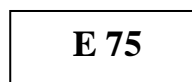
Roads classified as motorways and express roads should be shown in red, the over-all width of the strip indicating the traffic density; the percentage of heavy motor vehicles out of total motor vehicle traffic should be indicated, if possible.



Data incomplete or not available



"E" ROAD NUMBER



COUNTING POSTS

